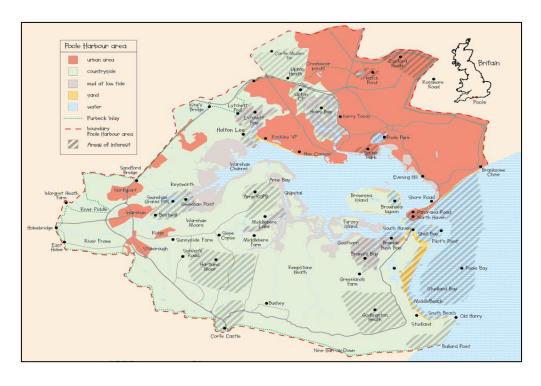


Moths of Poole Harbour is a project of Birds of Poole Harbour

Moths on Holton Lee 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 (BoPH) project.



Birds of Poole Harbour recording area

The 'Livability Centre' at Holton Lee comprises a range of habitats located on the southern side of Lytchett Bay. Open dry heath grades down to the extensively reed-fringed harbour edge through a belt of mixed secondary woodland containing a number of mature deciduous trees. An area of carr woodland is present. The 'Flourish Garden' contains a good source of nectaring plants.

Holton Lee was visited from August 2017. 17 visits were made between 12th August and 10th October in 2017, 19 visits between May and October 2018, and 6 visits August to October in 2019. A single daytime visit was made in 2020 during the Coronavirus pandemic, but no trapping was possible.

In addition, a single trapping session was held on the heath specifically targeting the Red Data Book species Southern Chestnut.

Three main areas of the site were targeted for moth trapping. The primary location was the western end of the boardwalk where the woodland meets the reedbeds. A total of 32 nights trapping was undertaken in this area in 2017, 2018 and 2019. The Flourish Garden was trapped on 5 occasions in 2018 and 2019. The eastern end of the boardwalk was trapped on 4 occasions in 2017 and 2019.

350 species of macro and micro-moth were recorded. A full account of the species seen forms the bulk of this report.

15 species are designated for their relative scarcity, and these are detailed in Table 1 below. These are national designations and some of the species are locally quite common in Poole Harbour however. 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). Micromoths are in italics in Latin and macro moths use the common English name. An attempt to quantify the local importance of species is provided by the list of 30 moths in Table 2. This records those species Recorded in 5 or fewer 1km squares on the Living Record database 2000-2019, and is the best measure of recent occurrence.

Table 1. Notable species recorded at Holton Lee 2017 - 2019

SPECIES	STATUS	TIMES RECORDED	NUMBER RECORDED
Bactra robustana	Notable B	1	1
Crambus hamella	Notable B	3	3
Crambus silvella	Red Data Book	2	2
Cream-bordered Green Pea	Notable B	1	1
Eudonia delunella	Notable B	3	11
Four-spotted Footman	Notable A	3	3
Horse Chestnut	Notable B	1	1
Kent Black Arches	Notable B	1	1
Mocha	Notable B	1	1
Pediasia contaminella	Notable B	1	2
Pempelia genistella	Notable B	3	3

Purple-bordered Gold	Notable B	1	1
Rosy Wave	Notable B	6	16
Southern Chestnut	Red Data Book	2	4
Webb's Wainscot	Notable B	2	2

Table 2. Species recorded in 5 or fewer, 1km squares in Living Record 2000-2019

SPECIES	NUMBER OF 1KM SQUARES ON LIVING RECORD	TIMES RECORDED	NUMBER RECORED
Achroia grisella	4	1	1
Acleris kochiella	2	1	1
Acleris literana	4	1	1
Anania perlucidalis	3	1	1
Bactra robustana	4	1	1
Beautiful Snout	5	1	1
Blotched Emerald	5	2	4
Broad-bordered Bee Hawk-moth	4	1	1
Brown-veined Wainscot	4	1	9
Bulrush Wainscot	3	1	1
Calybites phasianipennella*	5	2	2
Cnephasia asseclana*	0	1	1
Cochylimorpha straminea	5	1	3
Cochylis nana	4	1	1
Coleophora trifolii*	1	1	1
Cosmopterix scribaiella	3	1	5
Devon Carpet	2	1	1
Digitivalva pulicariae	3	1	1
Dotted Clay	2	1	1
Elachista freyerella*	1	1	1
Endothenia quadrimaculana	2	1	1
Epiblema scutulana*	2	1	1
Epinotia cruciana*	0	1	1
Flame Wainscot	3	4	5
Mocha	4	1	1
Phycitodes saxicola*	3	2	2
Rosy Underwing	1	1	1
Scoparia basistrigalis	5	1	1
Ypsolopha parenthesella	4	3	3

^{*}Verified by Dr Phil Sterling

The Moths of Poole Harbour (MoPH) project ran from July 2017 until December 2020 and recorded moths on 25 main sites within the harbour. In total some 767 species were recorded in that time and 19 of these were found only at Holton Lee. These are summarised in Table 3 below.

Table 3. Species for which Holton Lee provided the sole location

SPECIES	TIMES	NUMBER	YEAR
	RECORDED	RECORDED	RECORDED
Acleris kochiella	1	1	2018
Acleris literana	1	1	2019
Acrobasis suavella*	1	1	2018
Bulrush Wainscot	1	1	2017
Cnephasia asseclana*	1	1	2018
Coleophora trifolii*	1	1	2018
Cosmopterix scribaiella	1	5	2018
Devon Carpet	1	1	2018
Elachista freyerella*	1	1	2018
Epinotia cruciana*	1	1	2018
Flame Wainscot	4	5	2018
Gypsonoma dealbana	3	9	2018
Gypsonoma sociana	1	1	2018
Marbled Beauty	1	1	2018
Prays fraxinella	1	1	2018
Rosy Underwing	1	1	2017
Schoenobius gigantella	1	1	2018
Vapourer	1	1	2017
Ypsolopha parethesella	3	3	2017

The following pages list every species recorded on site from 2017 – 2020. Each species has its individual 'Bradley & Fletcher' (BF) moth number. Micro-moths are recorded by Latin name with common name in brackets (where given). Macro moths are recorded by common name with Latin name following. Distribution, local status and larval food plant is given where this knowledge exists. Numbers in brackets following each account represent frequency of times caught, followed by number of individuals caught in total.

SPECIES ACCOUNTS

1331 **Acentria ephemerella** (Water Veneer) – A fairly common and widely distributed resident in Dorset. Larvae feed on Pondweed. 30 recorded at actinic light from the small heathland pond on 1st July 2018. (1,30)

1426 *Achroia grisella* (Lesser Wax Moth) – Scarce and thinly distributed resident in Dorset. One on 16th September 2019, confirmed by Tony Davis. (1,1)

1044 / 1045 **Acleris ferrugana I 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. One on 1st July (*A. notana* (non-aggregate)) confirmed by Dr Phil Sterling) and 3 aggregates on 7th July 2018 the only records. (2,4)

Acleris hyemana – A scarce and thinly distributed heathland resident, the larvae feeding on Heather species. One on 13th May 2018 the sole record. (1,1)

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



Acleris literana – An uncommon and thinly distributed resident. Larvae feed on Oak. A single recorded on 12th September 2019. This was the only one recorded by the MoPH project. Recorded in 4 x 1km squares on Living Record 2000-2019. (1,1)

Fig. 1 Acleris literana

Acrobasis suavella – An uncommon and thinly distributed resident, the larvae feed on Blackthorn. 1 on 22nd July 2018 confirmed by Dr Phil Sterling. (1,1)

Agapeta hamana – A common and widespread resident, the larvae feed on Thistle. 9 recorded on 4 occasions in July and August 2018. (4,9)



Fig. 2 Agapeta hamana ©Chris Fox

Agriphila geniculea – Fairly common but thinly distributed or restricted resident, the larvae feed on short fine grasses. Singles on 2nd and 12th September 2019 the only records. (2,2)

Agriphila inquinatella – Fairly common and widely distributed resident. Larvae feed on grasses. Singles on 12th and 22nd August 2017 and 10th September 2018 (3,3)

Agriphila latistria – An uncommon and thinly distributed and restricted resident. Larvae feed on grasses. One on 24th and 2 on 26th August 2017 the only records. (2,3)

Agriphila selasella – An uncommon and thinly distributed or restricted resident. Larvae feed on Common Saltmarsh-grass and Sheep's Fescue. 8 recorded on 6 occasions in 2017, 2018 and 2019. (6,8)

Agriphila straminella – Very common and widespread resident. The larvae feed on various short grasses, especially Sheep's-fescue. 162 recorded on 9 occasions in 2017 and 2018 with a maximum of 100 on 22nd July 2018 from the Flourish Garden. (9,162)

Agriphila tristella – A very common and widespread resident. Larvae feed on various grasses. 76 recorded on 15 occasions in 2017,2018 and 2019. Maximum 32 on 22nd August 2019 from the Flourish Garden. (15,76)

Aleimma loeflingiana – Fairly common and widespread resident. Larval foodplant is Oak. One on 22nd June 2018 the sole record. (1,1)

Alucita hexadactyla (Twenty-plume or Many-plumed Moth) – Common and fairly widespread resident, the larvae feed on Honeysuckle. One on 8th July 2018, the sole record. (1,1)



Anania hortulata (Small Magpie) – Very common and widespread resident, the larvae feed on Nettles. Singles on 8th, 13th and 22nd July 2018. (3,3)

Fig. 3 Small Magpie ©Chris Fox

Anania lancealis – Fairly common and widely distributed resident, the larvae feed on Hemp Agrimony. One on 8th June 2018 the sole record. (1,1)

Anania perlucidalis – Rare and very local resident, the larvae feed on Thistles. One on 15th June 2018 the sole record. (1,1)

Angle Shades *Phlogophora meticulosa* – A very common and widespread resident, larvae feed on herbaceous and woody plants. 8 recorded on 6 occasions in 2017, 2018 and 2019. (6,8)

Anthophila fabriciana (Nettle-tap) – Common and widespread resident. The larvae of this day-flying species feed on Nettles. 5+ found flying by day by the Flourish Garden on 10th August 2020. (1,5)

Apotomis capreana – An uncommon and thinly distributed resident, the larvae feed on Goat Willow. 2 on 8th June and 1 on 1st July 2018 the only records. (2,3)

Apotomis turbidana – An uncommon and thinly distributed resident. Larvae feed on Silver and Downy Birches. 2 on 8th and 1 on 15th June 2018. (2,3)

Argyresthia brockeella – Uncommon and thinly distributed and restricted resident. Larvae feed on Birch and Alder. 2 on 1st July and 9 on 8th July 2018. (2,11)

Argyresthia goedartella – Uncommon and thinly distributed resident, larvae feed on Birch and Alder. 34 recorded on 6 occasions in 2017 and 2018 with a maximum of 20 on 22nd August 2017. (6,34)

Aroga velocella – Scarce and restricted resident, the larvae feed on Sheep's Sorrel. 2 on 22nd August and 4 on 2nd September 2019, all from the Flourish Garden. (2,6)

Autumnal Rustic *Eugnorisma glareosa* – Uncommon and thinly distributed resident, larvae feed on herbaceous plants and heathers. Singles on 4 occasions in 2017, 2018 and 2019. (4,4)



Fig. 4 Autumnal Rustic

- *Bactra lancealana*, Fairly common and widespread resident. Larvae feed on various Rushes. 32 recorded on 15 occasions in 2017, 2018 and 2019. Maximum 6 on 26th August 2017. (15,32).
- *Bactra robustana* (Nationally Scarce B) Rare and restricted coastal resident, the larvae feed on Sea Club-rush. One on 26th August 2017. Elsewhere recorded by the MoPH project only at Arne Moors. Recorded in 4 x 1km squares on Living Record 2000-2019. (1,1)
- **Barred Red** *Hylaea fasciaria* Uncommon and fairly widespread resident, the larvae feed on Scots Pine and Norway Spruce. One on 8th and 2 on 15th June 2018. (2,3)
- **Beaded Chestnut** *Agrochola lychnidis* Very common and widespread resident, the larvae feed on herbaceous plants. 6 on 19th October 2019 from the Flourish Garden. (1,6)
- **Beautiful Hook-tip** *Laspeyria flexula* An uncommon and thinly distributed resident, the larvae feed on lichens. 2 on 8th July 2018. (1,2)
- **Beautiful Snout** *Hypena crassalis* A rare and very local resident, the larvae feed on Bilberry. One on 22nd June 2018 one of only 3 localities where the species was found by the MoPH project. Recorded in 5x 1km squares on Living Record 2000-2019. (1,1)
- **Birch Mocha** *Cyclophora albipunctata* Scarce and restricted resident, the larvae feed on Downy and Silver Birch. Singles on 18th May 2018, and 22nd July 2018 from the Flourish Garden. (2,2)
- **Bird's Wing** *Dypterygia scabriuscula* Scarce and restricted resident, larvae feeding on Docks, Sorrels and Knotgrass. One on 15th June 2018 the sole record. (1,1)
- **Black Arches** *Lymantria monacha* Common and widespread resident, the larvae feed on various trees. Recorded 9 times in 2017, 2018 and 2019 totalling 44 individuals. Maximum 10 on 13th July 2018. (9,44)
- **Blastobasis adustella** Fairly common and widespread resident, larvae feed on a variety of foodstuffs and decaying matter. 10 recorded on 4 occasions in 2017 and 2018. Maximum 5 on 19th October 2018 from the Flourish Garden. (4,10)
- **Blood-vein** *Timandra comae* Common and fairly widespread resident, larvae feed on Docks, Common Orache, Common Sorrel. 8 recorded on 4 occasions in 2017 and 2018 with 5 from the Flourish Garden on 22nd July 2018. (4,8)

Blotched Emerald *Comibaena bajularia* – Scarce and very local resident, larvae feed on Pedunculate and Sessile Oaks. 3 on 15th and 1 on 22nd June 2018. Elsewhere recorded by the MoPH project only at Arne Moors and Hamworthy. Recorded in 5 x 1km squares on Living Record 2000-2019. (2,4)



Bordered Beauty *Epione repandaria* – Fairly common and thinly distributed resident the larvae feed on Sallow, Grey Willow and Black Poplar. One on 12th September 2019 the sole record. (1,1)

Fig. 5 Bordered Beauty ©Chris Fox

Brachmia blandella – Uncommon and thinly distributed resident, larvae feeding on Gorse. One on 22nd July 2018 the only record. (1,1)

Bright-line Brown-eye *Lacanobia oleracea* – Abundant and widespread resident, the larvae feed on herbaceous and woody plants. 13 recorded on 6 occasions in 2017 and 2018 with a maximum of 4 on 8th July 2018. (6,13)

Brimstone Moth *Opisthograptis luteolata* – Widespread and abundant resident, larvae feed on Blackthorn, Hawthorns, Plum and Bullace. 9 recorded on 8 occasions in 2017,2018 and 2019. (8,9)

Brindled Green *Dryobotodes eremita* – Uncommon and thinly distributed resident, the larvae feed on Pedunculate and Sessile Oak. Singles on 5th and 19th October 2018. (2,2)

Broad-bordered Bee Hawk-moth *Hemaris fuciformis* (Nationally Scarce B) — One photographed on the heath by Paul Miller in 2019. One of only 2 records of this day-flying species for the MoPH project. Recorded in 4 x 1km squares on Living Record 2000-2019. (1,1)

Broad-bordered Yellow Underwing *Noctua fimbriata* – Common and widespread resident, larvae feed on herbaceous plants. 17 recorded on 11 occasions in 2017, 2018 and 2019. Maximum 5 from the Flourish Garden on 2nd September 2019. (11,17)

Broom Moth *Melanchra pisi* – Fairly common but restricted resident, the larvae feed on various herbaceous plants. One on 15th June 2018 the sole record. (1,1)

Brown Silver-line *Petrophora chlorosata* – Fairly common and widespread resident, the larvae feed on Bracken. 24 recorded on 7 occasions in 2018, maximum12 on 8th June 2018. (7,24)

Brown-tail *Euproctis chrysorrhoea* – Uncommon and local resident, the larvae feed on Bramble, Hawthorn, Blackthorn, Dog-rose, Sallow. 3 on 13th July 2018 the sole record. (1,3)

Brown-veined Wainscot *Archanara dissoluta* – Scarce and restricted resident, the larvae feed on Common Reed. 9 on 3rd August 2018 the only record. Elsewhere recorded by MoPH project only at Arne Moors and Sandford Gardens. Recorded in 4x 1km squares on Living Record 2000-2019. (1,9)

Brussels Lace *Cleorodes lichenaria* – Fairly common and widespread resident, the larvae feed on lichens. 6 recorded on 4 occasions in 2018, maximum of 3 on 1st July 2018. (4,6)

- **Bucculatrix ulmella** Rare and local resident, the larvae feed on Oak. 1 on 22nd August 2017 the only record. (1,1)
- **Buff Arches** *Habrosyne pyritoides* Very common and widespread resident, the larvae feed on Bramble and Dewberry. 5 recorded on 3 occasions in July 2018. Maximum 3 on 8th July 2018. (3,5)
- **Buff Ermine** *Spilosoma luteum* Very common and widespread resident, larvae feed on herbaceous plants. 13 on 4 occasions in 2018. Maximum 8 on 22nd June 2018. (4,13)
- **Buff Footman** *Eilema depressa* Fairly common and widespread resident, larvae feed on lichens. 12 recorded on 5 occasions in July and August 2018. Maximum 4 on 13th July. (5,12)
- **Buff-tip** *Phalera bucephala* Very common and widespread resident, the larvae feed on broadleaved trees, Birches, Sallow, Oaks, Hazel. 18 recorded on 7 occasions in 2017 and 2018, maximum counts of 4 on 8th and 22nd June 2018. (7,18)
- **Bulrush Wainscot** *Nonagria typhae* Scarce and thinly distributed or restricted resident, the larvae feed on Reedmace and Lesser Reedmace. One on 26th July 2017 the only record for the MoPH project. Recorded in 3 x 1km squares on Living Record 2000-2019. (1,1)



Fig. 6 Bulrush Wainscot

- **Burnished Brass** *Diachrysia chrysitis* Common and widespread, the larvae feed on common Nettle and other plants. Singles on 22nd June 2018 and 22nd August 2019. (2,2)
- **Calamatropha paludella** Uncommon and thinly distributed and restricted resident, larval foodplant is Reedmace. 11 recorded on 6 occasions in 2018. Maximum 5 on 8th July 2018. (6,11)
- *Caloptilia alchimiella / robustella* Uncommon and local residents, the larvae of both species feed on Oak. The 2 species are usually aggregated in the absence of diagnostic identification. Recorded as *alchimiella* on 22nd August 2017 and 8th July 2918 and as *robustella*, 2 on 12th September 2019. (3,4)
- *Caloptilia populetorum* Very rare resident, larvae feed on Birch. 2 on 22nd July 2018 the only record. (1,2)
- *Caloptilia stigmatella* Common and thinly distributed resident, the larvae feed on Willow and Poplar. One on 5th October 2019 the sole record. (1,1)
- *Calybites phasianipennella* Scarce and restricted resident, larvae feed on Water Docks, Loosestrifes and Knotgrass. Singles from the Flourish Garden on 22nd July 2018 and boardwalk on 12th September 2019. (2,2)
- 366a *Cameraria ohridella* (Horse Chestnut Leaf Miner) Fairly common and thinly distributed recent resident, the larvae feed on Horse Chestnut. One on 8th July 2018 and two from the Flourish Garden on 22nd July 2018. (2,3)

Canary-shouldered Thorn *Ennomos alniaria* – Common and fairly widespread resident, the larvae feed on Downy and Silver Birch, Alder, Limes and Elms. 15 recorded on 11 occasions in 2017 and 2018. (11,15)



Carcina quercana – Fairly common and widespread resident, larvae feed on Oak and Beech. Singles on 5 occasions in 2017 and 2018. (5,5)

Fig. 7 Carcina quercana ©Chris Fox

- *Cataclysta lemnata* (Small China-mark) Uncommon and thinly distributed or restricted resident, the larvae feed on Duckweed. 27 recorded on 14 occasions in 2017, 2018 and 2019. Maximum 4 0n 29th August 2017. (14,28)
- *Catoptria falsella* Fairly common and widely distributed resident, the larvae feed on mosses. Singles on 17th and 31st August 2018. (2,2)
- *Catoptria pinella* Fairly common and widespread resident, larvae feed on Grasses in damp areas. One on 22nd July 2018 from the Flourish Garden, the only record. (1,1)
- **Celypha lacunana** A very common and widespread resident, larvae feed on herbaceous plants. 49 recorded on 16 occasions in 2017, 2018 and 2019. Maximum of 19 on 22nd August 2019. (16,49)
- **Celypha striana** Common and widespread resident, larvae feed on Dandelion. Singles on 22nd August 2017 and 17th August 2018. (2,2)
- **Centre-barred Sallow** *Atethmia centrago* Fairly common but thinly distributed resident, the larvae feed on Ash. Singles on 10th and 16th September 2019. (2,2)
- *Chilo phragmitella* Uncommon and thinly distributed or restricted resident, the larvae feed on Common Reed and Reed Sweet-grass. Singles on 4 dates in 2018. (4,4)
- *Chrysoteuchia culmella* (Garden Grass-veneer) Abundant and widespread resident. The larvae feed on various grasses. Recorded 6 times in 2018, totalling 59 individuals. Maximum 38 on 8th July 2018. (6,59)
- **Cinnabar** *Tyria jacobaeae* Common and widespread resident, larvae feed on Common Ragwort. 7 recorded on 3 occasions in June 2018. (3,7)
- **Clay** *Mythimna farrago* Common and widespread resident, the larvae feed on Grasses. One on 8th July and 3 from the Flourish Garden on 22nd July the sole records. (2,4)
- *Clepsis spectrana* (Cyclamen Tortrix) Uncommon and thinly distributed resident, larvae feed on a wide variety of herbaceous plants. 13 recorded on 7 occasions in 2017 and 2018. Maximum counts of 3 on 15th August 2017 and 15th June 2018. (7,13)

- **Cloaked Minor** *Mesoligia furuncula* Fairly common and widespread resident, the larvae feed on grasses. One from the Flourish Garden on 22nd July 2018 the sole record. (1,1)
- **Clouded Border** *Lomaspilis marginata* Common and widespread resident, larvae feed on Aspen, Poplars, Sallow and Willows. 30 recorded on 8 occasions in 2017 and 2018. Maximum counts of 8 on 15th and 22nd June 2018. (8,30)
- **Clouded Brindle** Apamea epomidion A scarce and thinly distributed or restricted resident, larvae feed on grasses. One on 22nd June 2018 the sole record. (1,1)
- **Clouded Buff** *Diacrisia sannio* Uncommon and restricted resident, larvae feed on herbaceous plants and Heathers. One on 8th June 2018 the sole record. (1,1)
- **Clouded Silver** *Lomographa temerata* Common and widespread resident, the larvae feed on Blackthorn, Hawthorn, Plum, Cherry, Crab Apple. Singles on 15th June and 1st and 8th July 2018 the only records. (3,3)
- *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. One on 8th July 2018 confirmed by Dr Phil Sterling. Apparently, the only Poole Harbour record this century. (1,1)
- **Cochylimorpha straminea** Uncommon and thinly distributed or restricted resident, larvae feed on Common Knapweed. 3 on 22nd August 2019 the sole record. (1,3)
- *Cochylis atricapitana* Fairly common and thinly distributed and restricted resident. The larval foodplant is Ragwort. 17 recorded on 7 occasions in 2018 and 2019. Maximum 8 on 22nd July 2018 from the Flourish Garden. (7,17)
- 964a **Cochylis molliculana** Uncommon and thinly distributed and restricted resident, larvae feed on Bristly Oxtongue. One from the Flourish Garden on 22nd July 2018, confirmed by Dr Phil Sterling, the sole record. (1,1)
- **Cochylis nana** Scarce and thinly distributed and restricted resident, larvae feed on Downy and Silver Birch. One on 8th June 2018 the sole record. Elsewhere only recorded by the MoPH project at Goathorn. Recorded in 4 x 1km squares on Living Record 2000-2019. (1,1)
- *Coleophora trifolii* Scarce and thinly distributed resident, larvae feed on Ribbed Melilot and Tall Melilot. One on 8th July 2018, confirmed by Dr Phil Sterling. Apparently, the only record for Poole Harbour this century. (1,1)
- **Common Carpet** *Epirrhoe alternata* Very common and widespread resident, the larvae feed on Cleavers, Hedge and other Bedstraws. 15 recorded on 9 occasions in 2017, 2018 and 2019. Maximum of 4 from the Flourish Garden on 22nd July 2018. (9,15)
- **Common Footman** *Eilema lurideola* Abundant and widespread resident, the larvae feed on lichens. 6 recorded on 5 occasions in 2018 and 2019. (5,6)
- **Common Lutestring** *Ochropacha duplaris* Fairly common and thinly distributed resident, the larvae feed on Birches, Alder, Hazel and Oaks. One on 8th July 2018 the sole record. (1,1)
- **Common Marbled Carpet** *Chloroclysta truncata* Abundant and widespread resident, the larvae feed on woody plants. Singles on 2nd September 2017, 22nd June 2018 and 6th October 2019. (3,3)

- **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. 26 recorded on 8 occasions in 2017, 2018 and 2019. Maximum 14 from the Flourish Garden on 22nd July 2018. (8,26)
- **Common Swift** *Hepialus Iupulinus* Abundant and widespread resident, the larvae feed on grasses and herbaceous plants. 7 recorded on 3 occasions in June 2018. Maximum 4 on 8th June. (4,7)
- **Common Wainscot** *Mythimna pallens* Abundant and widespread resident, the larvae feed on grasses. Recorded 18 times totalling 38 individuals in 2017, 2018 and 2019. Maximum 10 on 2nd September 2019 from the Flourish Garden. (18, 38)
- **Common Wave** *Cabera exanthemata* Common and widespread resident, the larvae feed on Goat Willow, Grey Willow, Sallow and Poplars. 11 recorded on 7 occasions in 2017 and 2018. Maximum 5 on 22nd August 2017. (7,11)
- **Common White Wave** Cabera pusaria Common and widespread resident, larvae feed on Downy and Silver Birch, Alder and Sallow. 8 recorded on 7 occasions in 2017, 2018 and 2019. (7,8)
- **Convolvulus Hawk-moth** *Agrius convolvuli* Scarce and local migrant / wanderer, the larvae feed on Bindweeds and other convolvulaceae. One photographed by a visitor outside the toilet block, September 2018. (1,1)
- **Copper Underwing** *Amphiphyra 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. One identified as this species on 2nd September 2019. (1,1)
- **Coronet** *Craniophora ligustri* Fairly common and widespread resident, the larvae feed on Ash and Wild Privet. 6 recorded on 3 occasions in July 2018. 4 in the Flourish Garden on 22nd July 2018. (3,6)
- 896a **Cosmopterix scribaiella** (Nationally Scarce A) A very rare resident, larvae feed on Phragmites. 5 on 8^{th} June 2018, from the boardwalk, confirmed from photos by Jack Oughton. The only record for the MoPH project. Recorded in 3 x 1km squares on Living Record 2000-2019. (1,5)

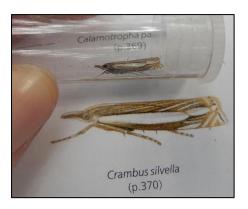


Fig. 8 Cosmopterix scribaiella

- **Coxcomb Prominent** *Ptilodon capucina* Common and widespread resident, the larvae feed on broadleaved trees. One on 25th May 2018 the sole record. (1,1)
- *Crambus hamella* (Nationally Scarce B) Scarce and thinly distributed and restricted resident, larvae feed on Wavy Hair-grass. Singles on 22nd August and 6th September 2017 and 12th September 2018. (3,3)

Crambus pascuella – Fairly common and widespread resident, the larvae feed on various grasses. One on 1st July 2018 the sole record. (1,1)

Crambus perlella – Common and widespread resident, larvae feed on various grasses. 2 on 1st and 1 on 8th July 2018. (2,3)



Crambus silvella (Red Data Book 3) – Scarce and thinly distributed and restricted resident, larvae feed on various sedges. Singles on 22nd August 2017 and 17th August 2018. Also recorded by the MoPH project at Arne Moors, Sandford Gardens, Carey Estate and Ballard. (2,2)

Fig. 9 Crambus silvella

Crassa unitella – Uncommon and thinly distributed resident, larvae feed on fungus and dead wood. One on 8th July 2018 the sole record. (1,1)

Cream Wave *Scopula floslactata* – Scarce and local resident, the larvae feed on Bedstraws, Woodruff and Bush Vetch. One on 1st July 2018 the only record. (1,1)

Cream-bordered Green Pea *Earias clorana* (Nationally Scarce B) – Scarce and restricted resident, larvae feed on Sallow and Willows. One on 8th June 2018. (1,1)

Crescent Celaena leucostigma – Uncommon and thinly distributed or restricted resident, larvae feed on Yellow Iris, Great Fen-sedge. Singles on 1st and 8th July 2018. (2,2)

Crytoblabes bistriga – Uncommon and thinly distributed or restricted resident, larvae feed on Oak and Alder. One on 29th August 2017 the only record. (1,1)

Cydia splendana – Fairly common and widely distributed resident, larvae feed on Oak and Sweet Chestnut. 33 recorded on 8 occasions in 2017, 2018 and 2019. Maximum counts of 8 on 22nd August 2017 and from the Flourish Garden on 22nd July 2018. (8,33)

Cydia ulicetana – Fairly common and widely distributed resident, larvae feed on Gorse and Broom. Singles on 24th and 29th August 2018 with 5 on 26th August 2018. (3,7)

Dark Arches – *Apamea monoglypha* – Abundant and widespread resident, the larvae feed on grasses. 17 recorded on 6 occasions in 2017 and 2018. Maximum 10 from the Flourish Garden on 22nd July 2018. (6,17)

Dark Chestnut *Conistra ligula* – Uncommon and thinly distributed or restricted resident, the larvae feed on Blackthorn, Hawthorn, Sallow, Oaks, Docks. One from the Flourish Garden on 19th October 2018 the only record. (1,1)

Dark Sword-grass *Agrotis ipsilon* – Common and fairly widespread migrant / wanderer, the larvae feed on herbaceous plants. One on 15th August 2017 the only record. (1,1)

Dark-barred Twin-spot Carpet *Xanthorhoe ferrugata* – Scarce and thinly distributed resident, the larvae feed on herbaceous plants One from the Flourish Garden on 22nd July 2018 the sole record. Elsewhere recorded by the MoPH project at Ballard and Corfe Castle. (1,1)



Devon Carpet *Lampropteryx otregiata* (Nationally Scarce B) – Very scarce and restricted resident. The larvae feed on Marsh Bedstraw and Fen Bedstraw. One on 20th May 2018, the sole record. The only record for the MoPH project. Recorded in only one other 1km squares on Living Record 2000-2019. (1,1)

Fig. 10 Devon Carpet

- **Digitivalva pulicariae** Uncommon and thinly distributed resident, the larvae feed on Common Fleabane. One on 8th July 2018. Elsewhere, only recorded by the MoPH project in Sandford Gardens. Recorded in 3 x 1km squares on Living Record 2000-2019. (1,1)
- **Dingy Footman** *Eilema griseola* Very common and widespread resident, the larvae feed on lichens. 23 recorded on 5 occasions in 2017 and 2018. Maximum 9 on 13th July 2018. (5,23)
- **Dingy Shell** *Euchoeca nebulata* Uncommon and thinly distributed resident, the larvae feed on Alder. One on 8th July 2018 the only record. (1,1)
- *Ditula angustoriana* (Red-barred Tortrix) Fairly common and widespread resident, the larvae feed on various plants. One on 1st and 3 on 8th July 2018. (2,4)
- **Dog's tooth** *Lacanobia suasa* Uncommon and very local resident, the larvae feed on herbaceous plants. Singles on 8th June and 13th July 2018. (2,2)
- **Donacaula forficella** Uncommon and thinly distributed and restricted resident, the larvae feed on Common Reed. Singles on 4 dates in June and July 2018. (4,4)
- **Dotted Clay** *Xestia baja* Local, the larvae feed on various herbaceous plants. One from the Flourish Garden on 2nd September 2019. Elsewhere recorded by the MoPH project only on Slepe Heath. Recorded in 2 x 1km squares on Living Record 2000-2019. (1,1)
- **Double Square-spot** *Xestia triangulum* Very common and fairly widespread resident, the larvae feed on herbaceous plants. 21 recorded on 13 occasions in 2017, 2018 and 2019. (13,21)
- **Drinker** *Euthrix potatoria* Common and fairly widespread resident, larvae feed on coarse grasses and reeds. 16 recorded on 7 occasions in 2017 and 2018. Maximum 7 on 13th July 2018. (7,16)
- **Dun-bar** Cosmia trapezina Very common and widespread resident, the larvae feed on broadleaved trees and shrubs. Recorded 3 times in July and August 2018. Maximum 3 on 13th July 2018. (3,7)
- **Dusky Thorn** *Ennomos fuscantaria* Fairly common and widespread resident, the larvae feed on Ash. 10 recorded on 8 occasions in 2017, 2018 and 2019. (8,10)
- 2358 / 2360 **Ear Moth aggregate** *Amphipoea oculea agg.* 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. 5 recorded on 3 occasions in July 2018. (3,5)
- *Elachista freyerella* Rare and very local resident, the larvae feed on various grasses. One on 31st August 2018 confirmed by Dr Phil Sterling. Apparently, the sole Poole Harbour record this century. (1,1)

- **Elephant Hawk-moth** *Deilephila elpenor* Common and widespread resident, the larvae feed on Rosebay Willowherb, other willowherbs and bedstraws. 26 recorded on 6 occasions in June and July 2018. Maximum 13 on 8th July 2018. (6,26)
- *Emmelina monodactyla* (Common Plume) Common and widespread resident, the larvae feed on Bindweed species. One in the Flourish Garden on 22nd July 2018 the only record. (1,1)
- **Emperor Moth** Saturnia pavonia Scarce and restricted resident. The larvae feed on woody plants, Heathers, Bramble, Hawthorns etc. One reported from a house light on 13th May 2018. (1,1)
- *Endothenia quadrimaculana* Uncommon and thinly distributed resident, the larvae feed on Marsh Woundwort and Spearmint. One on 8th July 2018 the only record. Elsewhere recorded by the MoPH project only at Corfe River Meadow and Slepe Heath. Recorded in 2 x 1km squares on Living Record 2000-2019. (1,1)
- *Endotricha flammealis* Common and widespread resident, the larvae feed on various plants and deciduous trees including Sallow and Oak. 73 on 6 occasions in 2018 and 2019 with a maximum of 55 on 8th July 2018. (6,73)
- *Epiblema scutulana* Uncommon and thinly distributed resident, the larvae feed on Musk Thistle and Spear Thistle. One on 22nd July 2018 confirmed by Dr Phil Sterling. Elsewhere recorded by the MoPH project only at Arne Moors. Recorded in 2 x 1km squares on Living Record 2000-2019. (1,1)
- *Epagoge grotiana* Uncommon and thinly distributed resident, the larvae feed on Oak, Hawthorn and Bramble. One on 12th August 2017 the only record. (1,1)
- *Epinotia cruciana* (Willow Tortrix) Scarce and thinly distributed resident, the larvae feed on Sallow and Willows, including Creeping Willow. One on 8th July 2018, confirmed by Dr Phil Sterling. The sole record. Apparently, the only record for Poole Harbour this century. (1,1)
- *Epinotia ramella* Uncommon and thinly distributed resident, the larvae feed on Birch and Sallow. 9 recorded on 4 occasions in 2017 and 2018. Maximum of 5 on 29th August 2017. (4,9)
- *Epiphyas postvittana* (Light Brown Apple Moth) Abundant and naturalised resident, larvae feed on many plants. 14 recorded on 7 occasions in 2017, 2018 and 2019. Maximum of 4 from the Flourish Garden on 22nd July 2018. (7,14)
- *Eucosma cana* Fairly common and widely distributed resident, the larvae feed on Thistles, common Knapweed, Black Knapweed. Singles on 8th June and 22nd July 2018. (2,2)
- *Eudonia angustea* Common and widespread resident the larvae feed on lichens and mosses. 10 recorded on 4 occasions in 2017, 2018 and 2019. (4,10)
- *Eudonia delunella* (Nationally Scarce B) Uncommon and thinly distributed or restricted resident, the larvae feed on lichens and mosses. 11 on 3 occasions in June and July 2018. Maximum 7 on 1st July 2018. (3,11)



Fig. 11 Eudonia delunella ©Chris Fox

- *Eudonia lacustrata* Fairly common and widely distributed resident, larvae feed on mosses. Singles on 12th August 2017 and 8th July 2018, 2 on 3rd August 2018 the only records. (3,4)
- *Eudonia mercurella* Common and widespread resident, the larvae feed on mosses. 27 recorded on 13 occasions in 2017, 2018 and 2019. Maximum 6 from the Flourish Garden on 22nd August 2019. (13,27)
- *Eudonia pallida* Fairly common and widely distributed resident, the larvae feed on mosses. 44 recorded on 17 occasions in 2017, 2018 and 2019. Maximum 10 on 16th September 2019. (17,44)
- *Eudonia truncicolella* Uncommon and thinly distributed or restricted resident, the larvae feed on mosses. 9 recorded on 6 occasions in 2017 and 2018. Maximum 4 on 12th August 2017. (6,9)
- *Eupoecilia angustana* Uncommon and thinly distributed resident, the larvae feed on Plantains, wild herbs, Heather, Sitka Spruce. One from the Flourish Garden on 22nd July 2018 the only record. (1,1)
- *Euzophera pinguis* Fairly common and widely distributed resident, the larvae feed on Ash. 2 on 22nd July 2018 from the Flourish Garden the only record. (1,2)
- *Evergestis forficalis* (Garden Pebble) Common and widespread resident, the larvae feed on various brassicas. One from the Flourish Garden on 22nd July 2018 the sole record. (1,1)
- 1356a *Evergestis limbata* (Nationally Scarce B) Rare and very local recent resident, the larvae feed on Hedge Mustard and Garlic Mustard. One photographed outside the toilet block by a member of the public in 2018 the sole record. (1,1)



Eyed Hawk-moth *Smerinthus ocellata* – Uncommon and thinly distributed or restricted resident, the larvae feed on Willow, Sallow, Apple, Crab Apple. Singles on 18th and 25th May and 8th June 2018. (3,3)

Fig. 12 Eyed Hawk

- **Fan-foot** Zanclognatha tarsipennalis Common and fairly widespread resident, the larvae feed on fallen leaves from Oaks, Beech etc. Singles on 15th June, 1st July 2018, 2 on 8th July 2028. (3,4)
- **Feathered Gothic** *Tholera decimalis* Uncommon and thinly distributed or restricted resident, the larvae feed on grasses. 8 recorded on 4 occasions in 2017, 2018 and 2019, maximum 45 from the Flourish Garden on 2nd September 2019. (4,8)
- **Fen Wainscot** *Arenostola phragmitidis* Uncommon and restricted resident the larvae feed on Common Reed. 18 recorded on 5 occasions in 2018 with a maximum of 13 on 8th July 2018 (5,18)
- **Flame** *Axylia putris* Very common and fairly widespread resident, larvae feed on many low growing plants. 1 on 25th May 2018 the sole record. (1,1)
- **Flame Shoulder** *Ochropleura plecta* Abundant and widespread resident the larvae feed on herbaceous plants. 56 recorded on 20 occasions in 2017, 2018 and 2019. Maximum 9 from the Flourish Garden on 22nd July 2018. (20,56)

Flame Wainscot *Mythimna flammea* (Nationally Scarce A) – Very rare and very local migrant / wanderer. Larvae feed on Common Reed. Records from the reedbed at Holton Lee where the only ones recorded by the MoPH project. 2 on 12th August 2017, singles on 18th, 20th and 25th May 2018. Recorded in 3 x 1km squares on Living Record 2000-2019. (4,5)

Flounced Rustic *Luperina testacea* – Abundant and widespread resident, the larvae feed on grasses. 21 recorded on 10 occasions in 2017, 2018 and 2019. Maximum 7 from the Flourish Garden on 2nd September 2019. (10,21)

Four-dotted Footman *Cybosia mesomella* – Fairly common but restricted resident, the larvae feed on algae and lichens on woody plants. 2 on 15th June and 3 on both 1st and 8th July 2018. (3,8)

Four-spotted Footman *Lithosia quadra* (Nationally Scarce A) – Migrant, recent colonist, the larvae feed on Dog Lichen and other lichens. 2 on 8th and 1 on 15th June 2018, 1 on 10th August 2018. (3,4)

Fox Moth *Macrothylacia rubi* – Uncommon and restricted resident, the larvae feed on Heathers, Bilberry, Creeping Willow, Brambles. One on 8th and 2 on 15th June 2018. (2,3)

Foxglove Pug *Eupithecia pulchellata* – Uncommon and fairly widespread resident, the larvae feed on Foxglove. One on 15th June 2018 the only record, (1,1)

Frosted Orange *Gortyna flavago* – Common and fairly widespread resident, the larvae feed on herbaceous plants, Thistles, Burdocks, Foxglove. Singles on 4 occasions in 2017,2018 and 2019. (4,4)

Garden Carpet *Xanthorhoe fluctuata* – Very common and widespread resident, the larvae feed on herbaceous plants. One from the Flourish Garden on 2nd September 2019 the only record. (1,1)

Garden Tiger *Arctia caja* – Common and widespread resident, the larvae feed on herbaceous plants, Nettle, Docks, Burdocks etc. One on 8th and 2 on 13th July 2018. (2,3)

Gold Spot *Plusia festucae* – Uncommon and local resident, the larvae feed on Sedges, Yellow Iris, Bur-reed, Water Plantain. 19 recorded on 8 occasions in 2017, 2018 and 2019. Maximum 8 from the Flourish Garden on 22nd July 2018. (8,19)



Fig. 13 Gold Spot

Gold Swift *Hepialus hecta* – Uncommon and thinly distributed and restricted resident, the larvae feed on Bracken. Singles on 8th, 15th and 22nd June and 2 on 8th July 2018. (4,5)

Grass Emerald *Pseudoterpna pruinata* – A scarce and local resident, the larvae feed on Gorse, Broom Petty Whin. Singles on 8th and 13th June 2018. (2,2)

Great Prominent *Peridea anceps* – Uncommon and restricted resident, the larvae feed on Pedunculate and Sessile Oaks. One on 13th May 2018 the only record. (1,1)

- **Green Carpet** *Colostygia pectinataria* Very common and widespread resident, the larvae feed on Bedstraws. 27 recorded on 12 occasions in 2017, 2018 and 2019. High counts of 5 on 8th June 2018 and 12th September 2019. (12,27)
- **Green Silver-lines** *Pseudoips prasinana* Fairly common but thinly distributed resident, the larvae feed on broadleaved trees. 2 on 8th July 2018 the sole record. (1,2)
- **Green-brindled Crescent** *Allophyes oxycanthae* Fairly common and widespread resident, the larvae feed on Hawthorns, Blackthorn, Dog-rose, Crab Apple. One from the Flourish Garden on 19th October 2018 the only record. (1,1)
- **Grey / Dark Dagger aggregate** *Acronicta tridens / psi* 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. One from the Flourish Garden on 22nd July 2018 the only record. (1,1)
- **Grey Pine Carpet** *Thera obeliscata* Fairly common and widespread resident, the larvae feed on coniferous trees, Pine, Spruce, Cypress. 17 recorded on 9 occasions in 2017, 2018 and 2019. Maximum 6 on 25th September 2017. (9,17)
- *Gypsonoma dealbana* Uncommon and thinly distributed resident, the larvae feed on various trees and shrubs including Hawthorn, Hazel, Poplar and Sallow. 9 recorded on 3 occasions in July 2018. Maximum 5 on 8th July. (3,9)
- *Gypsonoma sociana* Scarce and thinly distributed resident, the larvae feed on Aspen, Black Poplar and Sallow. One on 25th September 2017 the only record. (1,1)
- **Heart and Dart** *Agrotis exclamationis* Abundant and widespread resident, the larvae feed on herbaceous plants. 24 recorded on 12 occasions in 2017, 2018 and 2019. Maximum 4 on 8th June 2018. (12,24)
- **Heath Rustic** *Xestia agathina* Scarce and thinly distributed or restricted resident, the larvae feed on Heather. One from the Flourish Garden on 2nd September 2019 the only record. (1,1)
- *Hedya pruniana* (Plum Tortrix) Fairly common and thinly distributed or restricted resident. The larval foodplants are wild fruit trees, also Hawthorn and Hazel. One on 8th June 2018 the sole record. (1,1)
- *Hofmannophila pseudospretella* (Brown House Moth) Fairly common and widespread resident, the larvae feed on household detritus. One on 25th September 2017 and 2 from the Flourish Garden on 22nd July 2018. (2,3)
- **Horse Chestnut** *Pachycnemia hippocastanaria* (Nationally Scarce B) Uncommon and restricted resident, the larvae feed on Heather and Cross-leaved Heath. One on 12th September 2019 the sole record. (1,1)
- *Hypsopygia costalis* (Gold Triangle) Common and widespread resident the larvae feed on dry vegetable matter, hay and dead grasses. 4 on 8th July 2018 and singles on 13th July 2018 and 11th August 2019. (3,6)
- **Ingrailed Clay** *Diarsia mendica* Very common and widespread resident, the larvae feed on herbaceous plants. One on 8th July 2018 the sole record. (1,1)

- **Iron Prominent** *Notodonta dromedarius* Fairly common and widespread resident, the larvae feed on Birch and Alder. 10 recorded on 7 occasions in 2017 and 2018. Maximum 3 on 25th May 2018. (7,10)
- **July Belle** *Scotopteryx luridata* Uncommon and restricted resident, the larvae feed on Gorse, Petty Whin, Dyer's Greenweed. One on 2nd September 2017 the only record. (1,1)
- **Kent Black Arches** *Meganola albula* (Nationally Scarce B) Uncommon and restricted resident, the larvae feed on Dewberry, Bramble, Raspberry and Strawberry. One on 8th July 2018 the only record. (1,1)
- **Knot Grass** *Acronicta rumicis* Very common and widespread resident, the larvae feed on herbaceous and woody plants. One on 8th July 2018 and 2 from the Flourish Garden on 22nd July 2018. (2,3)
- **Large Emerald** *Geometra papilionaria* Uncommon and fairly widespread resident, the larvae feed on Birches, Hazel and Alder. One on 15th June 2018 the sole record. (1,1)
- **Large Wainscot** *Rhizedra lutosa* Common and thinly distributed or restricted resident, the larvae feed on Common Reed. 2 on 26th September 2017, 2 on 3rd August 2018 and singles on 7th and 28th September 2018. (4,6)
- **Large Yellow Underwing** *Noctua pronuba* An abundant and widespread resident. The larvae feed on herbaceous plants and grasses. Recorded on 31 occasions in 2017, 2018 and 2019, totalling 280 individuals. Maximum 78 from the Flourish Garden on 2nd September 2018. (31, 280)
- **Least Black Arches** *Nola confusalis* Fairly common and thinly distributed resident, the larvae feed on Lime, Oak, various broad-leaved trees. Singles on 20th May and 8th June 2018. (2,2)
- **Least Yellow Underwing** *Noctua interjecta* Fairly common and thinly distributed resident, the larvae feed on herbaceous plants. One on 12th August 2017 and one on 22nd August 2019 the only records. (2,2)
- **Leopard Moth** *Zeuzera pyrina* Uncommon and fairly widespread resident, the larvae feed on many woody plants and deciduous trees. One on 1st July 2018 and one from the Flourish Garden on 22nd July 2018. (2,2)
- **Lesser Broad-bordered Yellow Underwing** *Noctua janthe* Abundant and widespread resident, the larvae feed on herbaceous plants. 25 recorded on 9 occasions in 2017, 2018 and 2019 Maximum 11 from the Flourish Garden on 22nd August 2029. (9,25)
- **Lesser Cream Wave** *Scopula immutata* Rare and very local resident, the larvae feed on Meadowsweet, Common Valerian. One on 8th July 2018 the only record. (1,1)
- **Lesser Swallow Prominent** *Pheosia gnoma* Fairly common but restricted resident, the larvae feed on Birch. 9 recorded on 6 occasions in 2017 and 2018. Maximum 3 on 26th August 2017. (6,9)
- **Lesser Yellow Underwing** *Noctua comes* Abundant and widespread resident, the larvae feed on herbaceous plants. Recorded only as singles, on 8 occasions in 2017, 2018 and 2019. (8,8)
- **Light Emerald** *Campaea margaritata* Very common and widespread resident, the larvae feed on broadleaved trees and shrubs. 25 recorded on 12 occasions in 2017, 2018 and 2019. Maximum 5 on 15th September 2017. (12,25)

Lilac Beauty *Apeira syringaria* – Uncommon and thinly distributed resident, the larvae feed on Honeysuckle, Ash and Wild Privet. One on 22nd June 2018 the only record. Elsewhere only recorded by the MoPH project at Corfe Castle. (1,1)

Lime-speck Pug *Eupithecia centaureata* – Common and fairly widespread resident, the larvae feed on many plants. 2 from the Flourish Garden on 22nd July 2018, one on 3rd August 2018 and one in the Flourish Garden on 22nd August 2019. (3,4)

Limnaecia phragmitella – Scarce and thinly distributed or restricted resident, the larvae feed on Reedmace. 2 on 8th July 2018 the sole record. (1,2)

Lobesia abscisana – Uncommon and thinly distributed resident, the larvae feed on Creeping Thistle. Singles on 22nd August 2017 and 8th July 2018 the only records. (2,2)

Lobster Moth *Stauropus fagi* – Fairly common and widespread resident, the larvae feed on Birch, Alder, Oak and Beech. One on 13th July 2018 the sole record. (1,1)

Lozotaeniodes formosana – Uncommon and thinly distributed or restricted resident, the larvae feed on Scots Pine. 5 recorded on 4 occasions in 2017 and 2018. Maximum 2 on 12th August 2017. (4,5)

Lunar Underwing *Omphaloscelis lunosa* – Very common and fairly widespread resident, the larvae feed on grasses. 16 recorded on 5 occasions in 2017 and 2018. Maximum 6 on 9th September 2017. (5,16)

Maiden's Blush *Cyclophora punctaria* – Rare and very local resident, the larvae feed on Oaks. 14 recorded on 8 occasions in 2017, 2018 and 2019. High counts of 3 on 8th July and 3rd August 2018. (8,14)

Marbled Beauty *Cryphia domestica* – Fairly common and thinly distributed resident. Larvae feed on lichens. One on 22nd July 2018, was, surprisingly, the sole record for the MoPH project. (1,1)

Marbled Brown *Drymonia dodonaea* – Fairly common and thinly distributed resident, the larvae feed on Oaks. 2 on 8th June 108 the sole record. (1,2)

Marbled White Spot *Protodeltote pygarga* – Uncommon and local resident, the larvae feed on grasses. 34 recorded on 7 occasions in 2018. High counts of 9 on 15th June and 8th July 2018. (7,34)

Merveille du Jour *Dichonia aprilina* – Fairly common and widespread resident, the larvae feed on Oaks. 2 from the Flourish Garden on 19th October 2018 the only record. (1,2)

Middle-barred Minor *Oligia fasciuncula* – Very common and widespread resident, the larvae feed on grasses. 6 on 8th June and 1 on 8th July 2018. (2,7)

Mirificarma mulinella – Scarce and thinly distributed resident, the larvae feed on Gorse and Broom. Singles on 12th August 2017, 2nd September 2019 from the Flourish Garden and 12th September 2019. (3,3)



Mocha *Cyclophora annularia* (Nationally Scarce B) – Uncommon and restricted resident, the larvae feed on Field Maple. One from the Flourish Garden on 22nd July 2018. Elsewhere recorded by the MoPH project only at Goathorn. (1,1) *Fig. 14 Mocha*

- *Monochroa cytisella* Scarce and thinly distributed resident, the larvae feed on Bracken. 16 recorded on 3 occasions in 2018. Maximum 9 on 8th July 2018. (3,16)
- **Mottled Pug** *Eupithecia exiguata* Fairly common and fairly widespread resident, the larvae feed on Hawthorn, Blackthorn, Dogwood. One from the Flourish Garden on 22nd July 2018 the sole record. (1,1)
- **Mottled Rustic** Caradrina morpheus Abundant and fairly widespread resident, the larvae feed on herbaceous plants. 2 on 22nd June 2018 and 2 from the Flourish Garden on 22nd July 2018. (2,4)
- **Mouse Moth** *Amphipyra tragopoginis* Fairly common and widespread resident, the larvae feed on herbaceous plants. Singles, both from the Flourish Garden on 22nd July 2018 and 22nd August 2019. (2,2)
- **Mullein Wave** *Scopula marginepunctata* Local, the larvae feed on herbaceous plants. 2 from the Flourish Garden on 22nd July 2018 and one on 12th September 2019. (2,3)
- **Muslin Moth** *Diaphora mendica* Fairly common and widespread resident, the larvae feed on herbaceous plants. 3 on 18th and 2 on 20th May 2018 the sole records. (2,5)
- **Narrow-winged Pug** *Eupithecia nanata* Uncommon and restricted resident, larvae feed on Heather. One on 25th May 2018 the sole record. (1,1)
- **Neglected Rustic** *Xestia castanea* Scarce and restricted resident, the larvae feed on Heathers. One on 29th August 2017, two on 6th September 2017, one on 7th September 2018 and one from the Flourish Garden on 10th September 2019. (4,5)
- **Nematopogon swammerdamella** Uncommon and thinly distributed resident, the larvae feed on leaf-litter. One on 8th June 2018 the sole record. (1,1)
- **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. Singles on 12th August 2017 and 16th September 2019. (2,2)
- **Notocelia uddmanniana** (Bramble Shoot Moth) Common and widespread resident, the larvae feed on wild and cultivated Rose. One on 8th and 2 on 15th June 2018 the only records. (2,3)
- **Nutmeg** *Discestra trifolii* Fairly common and thinly distributed or restricted resident, the larvae feed on herbaceous plants and Goosefoots. One from the Flourish Garden on 22nd July 2018 the sole record. (1,1)
- **Nut-tree Tussock** *Colocasia coryli* Fairly common and widespread resident, the larvae feed on Hazel, Birches, Beech, Oaks, other trees. One on 8th July and four on 13th July 2018. (2,5)
- **Nymphula nitidulata** (Beautiful China-mark) Uncommon and thinly distributed or restricted resident, larvae feed on Bur-reed, Yellow water-lily and other aquatic plants. 14 recorded on 9 occasions in 2017 and 2018. Maximum 3 on 26th August 2017. (9,14)
- **Oak Eggar** Lasiocampa quercus Fairly common and thinly distributed resident, the larvae feed on Heathers, Bilberry, Bramble and other woody plants. One from the Flourish Garden on 22nd July 2018 the sole record. (1,1)

- **Oak Hook-tip** *Watsonalla binaria* Fairly common and widespread resident, the larvae feed on Oaks. 18 recorded on 9 occasions in 2017, 2018 and 2019. Maximum 4 on 12th September 2019. (9,18)
- **Oblique Carpet** *Orthonama vittata* Scarce and local resident, the larvae feed on Marsh and Heath Bedstraw. Singles on 12th and 15th August 2017, 2 on 10th August 2018 and 1 on 22nd August 2019. Elsewhere recorded by the MoPH project only at Arne Moors. (4,5)
- **Obscure Wainscot** Leucania obsoleta / formerly Mythimna obsoleta Scarce and local resident, the larvae feed on Common Reed. 4 on 8th June and 1 on 22nd June 2018 the only records. Elsewhere recorded by the MoPH project only at Arne Moors. (2,5)
- **Ochreous Pug** *Eupithecia indigata* Scarce and restricted resident, the larvae feed on Scots Pine, Lodgepole Pine and Larch. One on 13th May 2018 the only record. Elsewhere recorded by the MoPH project only at Arne Moors and Goathorn. (1,1)
- **Orange Footman** *Eilema* sororcula Fairly common and widespread resident, the larvae feed on lichen. One on 25th May 2018 the only record. (1,1)
- **Orange Swift** Hepialus sylvina Common and widespread resident, the larvae feed on herbaceous plants. 33 recorded on 16 occasions in 2017, 2018 and 2019. High counts of 6 on 15th August and 26th August 2017. (16,33)
- **Ostrinia nubilalis** (European Corn-borer) Recent colonist and migrant, the larvae feed on Mugwort. One on 1st July 2018 the only record. (1,1)
- **Pale Mottled Willow** *Paradrina clavipalpis* Common and fairly widespread resident, the larvae feed on grass seeds. One from the Flourish Garden on 2nd September 2019. (1,1)
- **Pale Tussock** *Calliteara pudibunda* Fairly common and widespread resident, the larvae feed on broadleaved trees and shrubs. 7 recorded on 4 occasions in May and June 2018. Maximum 3 on 25th May 2018. (4,7)
- **Pandemis cerasana** (Barred Fruit-tree Tortrix) Fairly common and widespread resident, the larvae feed on deciduous trees, especially fruit trees. 5 recorded on 4 occasions in 2017 and 2018. (4,5)
- **Pandemis corylana** (Chequered Fruit-tree Tortrix) Fairly common and widespread resident, the larvae feed on a wide range of deciduous trees and shrubs. 8 recorded on 6 occasions in 2017 and 2018. Maximum 3 on 12th August 2017. (6,8)
- **Paraponyx stratiotata** (Ringed China-mark) Uncommon and thinly distributed or restricted resident, the larvae feed on pondweeds and other aquatic plants. One on 8th July 2018 and 5 from the Flourish Garden on 22nd July 2018. (2,6)
- **Peach Blossom** *Thyatira batis* Fairly common and widespread resident, the larvae feed on Bramble. One on 8th July 2018 the sole record. (1,1)
- **Peacock Moth** *Macaria notata* Rare and very local resident, the larvae feed on Birch. 2 on 12th August 2017 and 1 on 13th July 2018 the only records. (2,3)
- **Pearly Underwing** *Peridroma saucia* Uncommon but widely distributed migrant / wanderer, the larvae feed on low growing plants, Dandelions etc. One on 18th September 2017 the only record. (1,1)

- **Pebble Hook-tip** *Drepana falcataria* Common and fairly widespread resident, the larvae feed on Birches. Singles on 3 dates in August 2017 the only records. (3,3)
- **Pebble Prominent** *Notodonta ziczac* Fairly common and widespread resident, the larvae feed on Sallow, Willow, Aspen and other Poplars. Singles recorded on 7 dates in 2017 and 2018. (7,7)
- **Pediasia contaminella** (Nationally Scarce B) Uncommon and thinly distributed and restricted resident, the larvae feed on various grasses such as Sheep's Fescue. 2 from the Flourish Garden on 22nd July 2018, the sole record. (1,2)
- **Pempelia genistella** (Nationally Scarce B) Uncommon and thinly distributed and restricted resident, the larvae feed on Gorse. Singles on 1st and 8th July 2018, and from the Flourish Garden on 22nd July 2018. (3,3)
- **Pempelia palumbella** Fairly common but thinly distributed or restricted resident, the larvae feed on Heather species. 6 recorded on 4 occasions in 2018 and 2019. (4,6)
- **Peppered Moth** *Biston betularia* Very common and widespread resident, the larvae feed on many small plants, trees and shrubs. Singles on 22nd June and 8th July 2018 the only records. (2,2)
- **Phycitodes saxicola** Scarce and thinly distributed and restricted resident, the larvae feed on Ragwort and Chamomile. A single on 8th July 2018 confirmed by Dr Phil Sterling. Elsewhere recorded by the MoPH project only in a garden in Hamworthy. Recorded in 3 x 1km squares on Living Record 2000-2019. (1,1)
- *Phyllonorycter messaniella* Fairly common and local resident, the larvae feed on Oak, Beech and Sweet Chestnut. Singles on 1st July 2018 and 12th September 2019. (2,2)
- **Pine Carpet** *Thera firmata* Fairly common and widespread resident, the larvae feed on Scots Pine and Corsican Pine. 7 recorded on 5 occasions in 2017 and 2018. (5,7)
- **Pine Hawk-moth** *Hyloicus pinastri* Uncommon and restricted resident, the larvae feed on Scots and Corsican Pine, Norway Spruce. One on 15th June 2018 the sole record. (1,1)
- **Pinion-streaked Snout** *Schrankia costaestrigalis* Scarce and local resident, the larval foodplant is unknown. 15 recorded on 10 occasions in 2017 and 2018. Maximum 3 on 8th June 2018. (10,15)
- **Pink-barred Sallow** *Xanthia togata* Fairly common and fairly widespread resident, the larvae feed on Sallow, Poplars and herbaceous plants. Singles on 29th September 2017, 28th September 2018 and 6th October 2019. (3,3)
- **Plain Wave** *Idaea straminata* Scarce and thinly distributed or restricted resident, the larval foodplant is unknown. One on 8th July 2018 and one from the Flourish Garden on 22nd July 2018. (2,2)
- *Pleuroptya ruralis* (Mother of Pearl) Very common and widespread resident, the larvae feed on Nettles. 23 recorded on 6 occasions in 2018 and 2019. Maximum 15 from the Flourish Garden on 22nd July 2018. (6,23)
- **Plutella xylostella** (Diamond-back) Very common and widespread migrant / wanderer, the larvae feed on various vegetables and cruciferous plants. 33 recorded on 9 occasions in 2018 and 2019. Maximum 11 from the Flourish Garden on 22nd July 2018. (9,33)

- **Poplar Hawk-moth** *Laothoe populi* Very common and widespread resident, the larvae feed on Poplars, Aspen, Willows and Sallow. 8 recorded on 6 occasions in 2017 and 2018. (6,8)
- **Poplar Kitten** Furcula bifida Scarce and thinly distributed resident, the larvae feed on Poplars, Aspen, Willows. One from the Flourish Garden on 22nd July 2018 the only record. (1,1)
- **Prays fraxinella** (Ash Bud Moth) Uncommon and thinly distributed resident, the larvae feed on Ash. One on 8th July 2018 was the sole record for the MoPH project. Recorded in 6 x 1km squares on Living Record 2000-2019. (1,1)
- **Privet Hawk-moth** *Sphinx ligustri* Fairly common and widespread resident, the larvae feed on Wild and Garden Privet, Ash, Lilac and Guelder-rose. One on 8th June 2018 the only record, (1,1)
- **Pseudoswammerdamia combinella** Uncommon and thinly distributed resident, the larvae feed on Blackthorn. One on 18th May 2018. Elsewhere recorded by the MoPH project at Ballard and Corfe Castle. Recorded in 4 x 1km squares on Living Record 2000-2019. (1,1)
- **Purple Bar** Cosmorhoe ocellata Common and widespread resident, the larvae feed on Bedstraws. One on 6th September 2018 the only record. (1,1)
- **Purple Thorn** Selenia tetralunaria Fairly common and thinly distributed resident, the larvae feed on broadleaved trees, Hazel, Birches etc. Singles on 13th July 2018 and from the Flourish Garden on 22nd July 2018. (2,2)
- **Purple-bordered Gold** *Idaea muracata* (Nationally Scarce B) Very rare and local resident, the larvae feed on Marsh Cinquefoil. One on 8th July 2018 the sole record. (1,1)
- *Pyrausta aurata* Fairly common and widely distributed resident, the larvae feed on various mint species. 2 from the Flourish Garden on 22nd July 2018 the sole record. (1,2)
- **Pyrausta despicata** Fairly common and widely distributed resident, the larvae feed on herbs like Wild Thyme and Marjoram. One from the Flourish Garden on 2nd September 2019 the only record. (1,1)
- **Red Twin-spot Carpet** *Xanthorhoe spadicearia* Common and widespread resident, the larvae feed on herbaceous plants. One from the Flourish Garden on 22nd July 2018 the sole record. (1,1)



Red-necked Footman – *Atolmis rubicollis* – Uncommon and thinly distributed resident, the larvae feed on lichens. One on 1st July 2018 the only record. Elsewhere recorded by the MoPH project only at Carey Estate. Recorded in 6 x 1km squares on Living Record 2000-2019. (1,1)

Fig. 15 Red-necked Footman

- *Rhyacionia pinicolana* Uncommon and thinly distributed resident, the larvae feed on Scots Pine. One on 8th July 2018 the only record. (1,1)
- *Rhyacionia pinivorana* (Spotted Shoot Moth) Uncommon and thinly distributed resident, the larvae feed on Scots Pine. One on 22nd June 2018 the sole record. (1,1)
- **Riband Wave** *Idaea aversata* Abundant and widespread resident, the larvae feed on herbaceous plants. 22 recorded on 6 occasions in 2018 with a maximum of 7 on 22nd June 2018. (6,22)

Rosy Footman *Miltochrista miniata* – Common and widespread resident, the larvae feed on Dog lichen and other lichens. 23 recorded on 8 occasions in 2017, 2018 and 2019. Maximum 8 on 13th July 2018. (8,23)

Rosy Rustic *Hydraecia micacea* – Abundant and fairly widespread resident, the larvae feed on low growing plants, Broad-leaved Dock, Ribwort Plantain etc. Singles on 6 occasions in 2017, 2018 and 2019. (6,6)



Rosy Underwing *Catocala electa* – Very rare migrant, the larvae feed on Sallow and Poplar. 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 established, at least temporarily, 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. (1,1)

Fig. 16 Rosy underwing

Rosy Wave *Scopula emutaria* (Nationally Scarce B) – Scarce and local resident, the larvae feed on Sea-beet. 16 recorded on 6 occasions in 2017 and 2018. Maximum 6 on 15th June 2018. (6,16)

Round-winged Muslin *Thumatha senex* – Scarce and restricted resident, the larvae feed on lichens and mosses. 9 recorded on 4 occasions in 2017 and 2018, maximum 6 on 8th June 2018. (4,9)

Ruby Tiger *Phragmatobia fuliginosa* – Common and widespread resident, the larvae feed on herbaceous plants. 23 recorded on 10 occasions in 2017, 2018 and 2019. Maximum 7 on 13th July 2018. (10,23)

2381/2 **Rustic / Uncertain aggregate** *Hoplodrina blanda / alsines* – 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. 26 recorded as aggregates on 4 occasions in 2018. Maximum 18 from the Flourish Garden on 22nd July 2018. (4,26)

Sallow Kitten *Furcula alpines* – Uncommon and thinly distributed resident, the larvae feed on willows. One from the Flourish Garden on 2nnd July 2018 the sole record. (1,1)

Satin Wave *Idaea subsericeata* – Fairly common and thinly distributed resident, the larvae feed on Knotgrass, Dandelions and Chickweed. Singles on 3rd August 2018 and 2nd September 2019 the only records. (2,2)

Scallop Shell *Rheumaptera undulata* – Uncommon and thinly distributed resident, the larvae feed on Sallow, Aspen, Bilberry. One on 1st July 2018 the only record. (1,1)

Scalloped Hook-tip *Falcaria lacertinaria* – Fairly common but restricted resident, the larvae feed on Oak. 12 recorded on 9 occasions in 2017, 2018 and 2019. (9,12)

Scarce Footman *Eilema complana* – Fairly common but restricted resident, the larvae feed on lichens. 15 recorded on 9 occasions in 2017 and 2018. Maximum 4 on 8th July 2018. (9,15)

Schoenobius gigantella – Very rare resident, the larvae feed on Common Reed and Reed Sweet-grass. One recorded on 8th July 2018 was not verified and unfortunately no evidence retained. This record has been queried and may not be considered accepted. There are no other records in Living Record this century. (1,1)

Scoparia ambigualis – Common and widespread resident, the larvae feed on various mosses. 2 on 25th May 2018 and 1 on 1st July 2018 the only records. (2,3)

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. 2 on 22nd August 2017 and 1 on 15th June 2018. These records are queried may not be accepted. (2,3)

Scorched Wing *Plagodis dolabraria* – Fairly common and widespread resident, the larvae feed on Oaks and Birches. One on 8th and two on 13th July 2018 the only records. (2,3)



Fig. 17 Scorched Wing ©Chris Fox

Setaceous Hebrew Character *Xestia c-nigrum* – Abundant and widespread resident, the larvae feed on herbaceous plants, Nettles, Willowherbs etc. 157 recorded on 21 occasions in 2017, 2018 and 2019. Highest count 36 from the Flourish Garden on 2nd September 2019. (21,157)

Sharp-angled Peacock *Macaria alternata* – Common and widespread resident, the larvae feed on Sallow, Willows, Sea Buckthorn, Alder. 13 recorded on 6 occasions in 2018 with a maximum of 5 on 13th July 2018. (6,13)

Short-cloaked Moth *Nola cucullatella* – Common and fairly widespread resident, the larvae feed on Hawthorns. One on 15th June 2018 the only record. Elsewhere only recorded by the MoPH project at Corfe River Meadow and Ballard. (1,1)

Shoulder-striped Wainscot *Mythimna comma* – Fairly common and widespread resident, the larvae feed on grasses. One on 22nd June 2018 the sole record. (1,1)

Shuttle-shaped Dart *Agrotis puta* – Very common and widespread resident, the larvae feed on Docks, Dandelion and other herbaceous plants. Singles recorded on 7 occasions in 2017, 2018 and 2019. (7,7)

Silky Wainscot *Chilodes maritimus* – Scarce and local resident, the larvae are omnivorous feeding on invertebrates and dead Common Reed stems. 2 on 8th June, 1 on 22nd June and 3 on 8th July in 2018. (3,6)

Silver Y *Autographa gamma* – Abundant and widespread migrant / wanderer, the larvae feed on many plants. One on 2nd September 2017, one on 8th June 2018 and 10 from the Flourish Garden on 22nd July 2018 the only records. (3,12)

Single-dotted Wave *Idaea dimidiata* – Very common and fairly widespread resident, the larvae feed on Cow Parsley, Burnet Saxifrage, Hedge Bedstraw. 9 recorded on 5 occasions in 2018, maximum of 5 on 13th July 2018. (5,9)

Six-striped Rustic *Xestia sexstrigata* – Very common and fairly widespread resident, the larvae feed on Hedge Bedstraw, Ribwort Plantain, Bramble, Bluebell. 18 recorded on 7 occasions in 2017, 2018 and 2019. Maximum 6 on 26th August 2017. (7,18)

Slender Brindle *Apamea scolopacina* – Uncommon and thinly distributed resident, the larvae feed on woodland grasses. Singles on 8th and 13th July 2018. (2,2)

Small Angle Shades *Euplexia lucipara* – Fairly common and widespread resident, the larvae feed on herbaceous and woody plants. Singles on 8th June and 22nd June 2018 the only records. (2,2)

Small Blood-vein *Scopula imitaria* – Fairly common and thinly distributed or restricted resident, the larvae feed on Garden Privet and Honeysuckle. One on 1st July 2018 and one from the Flourish Garden on 22nd July 2028. (2,2)

Small Emerald *Hemistola chrysoprasaria* – Uncommon and thinly distributed resident, the larvae feed on Traveller's Joy. One on 26th August 2017 the only record. Elsewhere only recorded by the MoPH project on Ballard. (1,1)

Small Fan-footed Wave *Idaea biselata* – Very common and widespread resident, the larvae feed on various low-growing plants. 7 recorded on 5 occasions in 2017, 2018 and 201. Maximum 3 on 1st July 2018. (5,7)

Small Phoenix *Ecliptopera silaceata* – Common and widespread resident, the larvae feed on Willowherbs. One on 8th June 2018 the sole record. (1,1)

Small Purple-barred *Phytometra viridaria* – Scarce and restricted resident, the larvae feed on Common and Heath Milkwort. One on 1st July 2018 the only record. (1,1)

Small Rufous *Coenobia rufa* – Uncommon and local resident, the larvae feed on Jointed Rush, Sharp-flowered Rush and Soft Rush. 8 recorded on 6 occasions in 2018 and 2019. Maximum 3 on 3rd August 2018. (6,8)

Small Seraphim *Pterapherapteryx sexalata* – Fairly common and thinly distributed resident, the larvae feed on Sallow. 7 recorded on 5 occasions in 2018, maximum 3 on 8th June 2018. (5,7)

Small Square-spot *Diarsia rubi* – Abundant and widespread resident, the larvae feed on Dandelion, Foxglove and Docks. 6 recorded on 4 occasions in 2018 and 2019. Maximum 3 on 12th September 2019. (4,6)

Small Wainscot *Chortodes pygmina* – Uncommon and thinly distributed or restricted resident, the larvae feed on sedges and grasses. 46 recorded on 19 occasions in 2017, 2018 and 2019. Maximum 11 on 5th October 2018. (19,46)

Small Yellow Wave *Hydrelia flammeolaria* – Fairly common and widespread resident, the larvae feed on Field Maple, Sycamore and Alder. One on 8th July 2018 the only record. (1,1)

Smoky Wainscot *Mythimna impura* – Abundant and widespread resident, the larvae feed on grasses. 37 recorded on 5 occasions in 2018. Maximum 16 on 8th July 2018. (5,37)

Snout Hypena proboscidalis – Abundant and widespread resident, the larvae feed on Common Nettle. 18 recorded on 10 occasions in 2017, 2018 and 2019. Maximum 6 on 2nd September 2017. (10,18)



2264a **Southern Chestnut** *Agrochola haematidea* (Red Data Book 2) – 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. One on 6th and 3 on 10th October 2017 from the heath. Found by the MoPH project on 6 other sites in the Harbour. (2,4)

Fig. 18 Southern Chestnut

Southern Wainscot *Mythimna straminea* – Uncommon and restricted resident, the larvae feed on Common Reed and Reed Canary Grass. 26 recorded on 8 occasions in 2017 and 2018. Maximum 6 on 2nd August 2017. (8,26)

- **Spectacle** Abrostola tripartita Very common and widespread resident, the larvae feed on Common Nettle. 18 recorded on 8 occasions in 2017, 2018 and 2019. Maximum 10 from the Flourish Garden on 22nd July 2018. (8,18)
- **Square-spot Rustic** *Xestia xanthographa* Abundant and widespread resident, the larvae feed on grasses and small herbaceous plants. Recorded 11 times in 2017, 2018 and 2019, totalling 40 individuals. Maximum 10 on 9th September 2017. (11,40)
- **Straw Dot** *Rivula sericealis* Very common and fairly widespread resident, the larvae feed on grasses. 43 recorded on 15 occasions in 2017, 2018 and 2019. Maximum 11 on 3rd August 2018. (15,43)
- **Striped Wainscot** *Mythimna pudorina* Scarce and restricted resident, the larvae feed on broadleaved grasses. 4 on 1st July and 1 on 8th July 2018 the sole records. (2,5)
- **Swammerdamia pyrella** Scarce and thinly distributed resident, the larvae feed on Hawthorn, Apple and Pear. One from the Flourish Garden on 22nd July 2018 the only record. (1,1)
- **Synaphe punctalis** Fairly common but thinly distributed and restricted resident, the larvae feed on mosses in dry, sandy, shingle or chalky areas. 14 recorded on 5 occasions in 2017 and 2018. Maximum 8 from the Flourish Garden on 22nd July 2018. (5,14)
- *Tachystola acroxantha* Uncommon and thinly distributed resident, the larvae feed on leaf litter. 10 recorded on 8 occasions in 2017, 2018 and 2019. (8,10)
- **Tawny-barred Angle** *Macaria liturata* Uncommon and fairly widespread resident, the larvae feed on Scots and Corsican Pines, Norway and Sitka Spruce. 11 recorded on 9 occasions in 2017 and 2018. Maximum 3 on 29th August 2017. (9,11)
- **Teleiopsis diffinis** Scarce and thinly distributed resident, the larvae feed on Sheep's sorrel. 5 from the Flourish Garden on 2nd September 2019 the only record. (1,5)
- *Tortrix viridana* (Green Oak Tortrix) Fairly common and widespread resident, the larvae feed on Oak. 2 on 15th and 1 on 22nd June 2018 the only records. (2,3)
- **Treble Brown Spot** *Idaea trigeminata* Fairly common but restricted resident, the larvae feed on Ivy and Knotgrass. One on 22nd June 2018 the only record. (1,1)
- **Treble Lines** *Charancya trigammica* Common and fairly widespread resident, the larvae feed on herbaceous plants. One on 25th May 2018 the sole record. (1,1)
- **True Lover's Knot** *Lycophotia porphyrea* Fairly common but restricted resident, the larvae feed on Heather and Bell Heather, 14 recorded on 5 occasions in 2018, maximum 5 on 8th July 2018. (5,14)
- **Turnip Moth** *Agrotis segetum* Common and widespread resident, the larvae feed on herbaceous plant roots, Turnip, Carrot, Beet etc. Singles on 6th September 2017 and from the Flourish Garden on 19th October 2018. (2,2)
- **Twin-spotted Wainscot** *Archanara geminipuncta* Scarce and restricted resident, the larvae feed on Common Reed. 5 from the Flourish Garden on 22nd July 2018 the sole record. (1,5)
- *Udea ferrugalis* (Rusty-dot Pearl) Very common and widespread migrant, the larvae feed on herbaceous plants. Singles on 22nd August and 2nd September 2019 the only records. (2,2)

Vapourer *Orgyia antiqua* – Uncommon and fairly widespread resident, the larvae feed on broadleaved trees and shrubs. One on 22nd August 2017 the sole record and the only one recorded by the MoPH project. (1,1)

Vine's Rustic *Hoplodrina ambigua* – Uncommon and local resident, the larvae feed on herbaceous plants. 39 recorded on 8 occasions in 2017, 2018 and 2019. Maximum 21 from the Flourish Garden on 22nd August 2019. (8,39)

Webb's Wainscot *Archanara sparganii* (Nationally Scarce B) – Scarce and restricted resident the larvae feed on Reedmace, Lesser Reedmace, Yellow Iris, Branched Bur-reed. Singles on 8th July 2018 and 12th September 2019. Elsewhere recorded by the MoPH project only at Arne Moors. (2,2)



Fig. 19 Webb's Wainscot

White Ermine *Spilosoma lubricipeda* – Very common and widespread resident, the larvae feed on herbaceous plants, nettles and docks. 14 recorded on 4 occasions in 2018. Maximum 9 on 25th May 2018. (4,14)

White-line Dart *Euxoa tritici* – Uncommon and local resident, the larvae feed on herbaceous plants. One on 16th September 2019 the sole record. (1,1)

White-point *Mythimna albipunta* – Fairly common and widely distributed resident and migrant, the larvae feed on grasses. 13 recorded on 9 occasions in 2017, 2018 and 2019. Maximum 4, from the Flourish Garden on 22nd August 2019. (9,13)

Willow Beauty *Peribatodes rhomboidaria* – Abundant and widespread resident, the larvae feed on various trees. Singles on 2nd September 2017, 13th July 2018 and 22nd August 2019 are, perhaps surprisingly, the only records. (3,3)

Yellow-line Quaker *Agrochola macilenta* – Common and fairly widespread resident, the larvae feed on Oaks, Poplars, Beech, Sallow, Hawthorn and other plants. One on 5th October and two from the Flourish Garden on 19th October 2018, one 6th October 2019. (3,4)

Yellow-tail *Euproctis similis* – Very common and widespread resident, the larvae feed on broadleaved trees and shrubs. One on 26th September 2017 the sole record. (1,1)

Yponomeuta evonymella (Bird Cherry Ermine) – Uncommon and thinly distributed resident, the larvae feed on Bird Cherry. One on 12th August 2017, 5 on 8th July 2018 and 1 from the Flourish Garden on 22nd July 2018. (3,7)

Ypsolopha dentella (Honeysuckle Moth) – Fairly common and widely distributed resident, the larvae feed on Honeysuckle. Singles on 22nd and 24th August 2017 the only records. Elsewhere recorded by the MoPH project only on Ham Common. (2,2)

Ypsolopha parenthesella – Uncommon and thinly distributed resident, the larvae feed on Oak and Hazel. Singles on 3 occasions, on 12th, 22nd and 29th August 2017. This is the only site where the MoPH project recorded the species. Recorded in 4 x 1km squares on Living Record 2000-2019. (3,3)

Acknowledgements

Moths of Poole Harbour would like to thank the staff and volunteers at Holton Lee for their support, encouragement and access permissions. In particular Neil Stephens and Steve Masterman. Paul Miller joined us in the field and we received logistical support from Karl Clennell, Malcolm Barrett, Katy Barrett and Christine Arnold. Dr Phil Sterling verified a number of the micro-moths for us – for which we are extremely grateful. Many thanks go to Chris Fox for the kind permission of using his photographs. All other photographs were taken by Abby Gibbs and Chris Thain.



Fig.20 Chris & Abby check the traps at Holton Lee