

Review of non-avian sightings 2017

January

It was a typically quiet start to the year for moths but singles of *Acleris umbrana* (Dark-streaked Button) at Seabrook on the 7th and *Acleris schalleriana* (Viburnum Button) there on the 23rd were of particular note. Mottled Umber, Pale Brindled Beauty, Satellite, Winter Moth, *Alucita hexadactyla* (Twenty-plume Moth) and *Epiphyas postvittana* (Light Brown Apple Moth) were more usual records for January.

The only butterfly to be recorded was a Small Tortoiseshell at Hythe on the 9th. Of note among the mammal records was a Roe Deer reported at West Hythe dam on the 9th.



Acleris umbrana at Seabrook (Paul Howe)



Mottled Umber at Seabrook (Paul Howe)

February

Additions to the moth year list included Spring Usher, Dotted Border, Grey Shoulder-knot, *Crociosema plebejana* (Southern Bell), *Scrobipalpa costella* (Winter Groundling), *Tortricodes alternella* (Winter Shade) and *Agonopterix heracliata* (Common Flat-body), whilst there was a noteworthy count of 60 Pale Brindled Beauty at Folks' Wood on the 20th.

The only butterfly to be recorded was a Peacock at Hythe on the 14th. A Harbour Porpoise was found dead at Hythe Ranges on the 17th, whilst live animals were seen at Mill Point and Samphire Hoe (2).



Spring Usher at Seabrook (Paul Howe)



Grey Shoulder-knot at Seabrook (Paul Howe)

March

Mild weather in March, with overnight lows in excess of 10°C on some nights, meant that the moth year list grew rapidly, and by the end of the month 71% of those species recorded in both years had been appeared earlier than in 2016. Notable records included Yellow Horned at Seabrook on the 3rd and at Folks' Wood on the 8th, when the first Oak Nycteoline and Red Chestnut were also recorded at the latter site, a Bloxworth Snout, a Mottled Grey and two Barred Tooth-striped at Folkestone Warren on the 10th and an Early Moth at Seabrook on the 11th.

A male bagworm found flying in early morning sunshine at Abbotscliffe on the 17th proved to be *Dahlica inconspicuell*a (Lesser Lichen Case-bearer), with several others located there on subsequent dates. Early stages of *Mompha miscella* (Brown Cosmet) and *Metzneria aestivella* (Carline Neb) were noted at Abbotscliffe the following day.



Early Moth at Seabrook (Paul Howe)



Mottled Grey at Folkestone Warren (Ian Roberts)

A Dotted Chestnut and the first Water Carpet of the year were of note at Paraker Wood on the 24th, whilst a *Scrobipalpa ocellatella* (Beet Moth) was found by day at Abbotscliffe on the 27th. A presumed immigrant **Blossom Underwing** was trapped at Seabrook on the 28th and the first Powdered Quaker was caught at Bargrove Wood the following night, whilst the 30th produced *Agonopterix alstromeriana* (Brown-spot Flat-body) at Seabrook, Bloxworth Snout at Hythe and *Agonopterix rotundella* (Rolling Carrot Flat-body), *Acleris cristana* (Tufted Button) and three Barred Tooth-striped at Folkestone Warren.



*Dahlica inconspicuell*a at Abbotscliffe (Ian Roberts)



Dotted Chestnut at Paraker Wood (Brian Harper)

Butterflies began to become more prominent during March, with emergences of Comma on the 10th, Small White on the 24th, Brimstone on the 25th, Holly Blue and a notably early Orange-tip on the 30th and Green-veined White on the 31st, whilst there were widespread records of Small Tortoiseshell and Peacock.

A Western Conifer Seed Bug at Folkestone Warren on the 30th was noteworthy, whilst Harbour Porpoises were again sighted from Mill Point and Samphire Hoe, with a peak count of two at both sites.



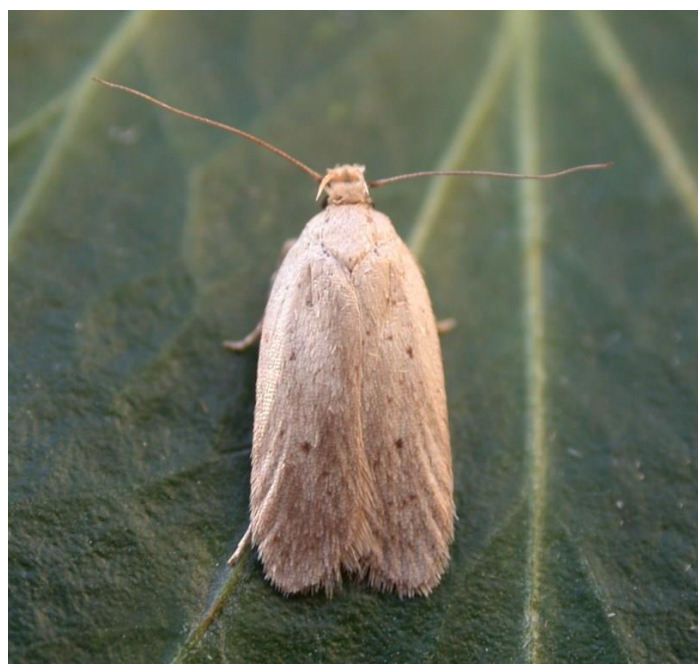
Scrobipalpa ocellatella at Abbotscliffe (Ian Roberts)



Blossom Underwing at Seabrook (Paul Howe)



Barred Tooth-striped at Folkestone Warren (Ian Roberts)



Agonopterix rotundella at Folk. Warren (Ian Roberts)

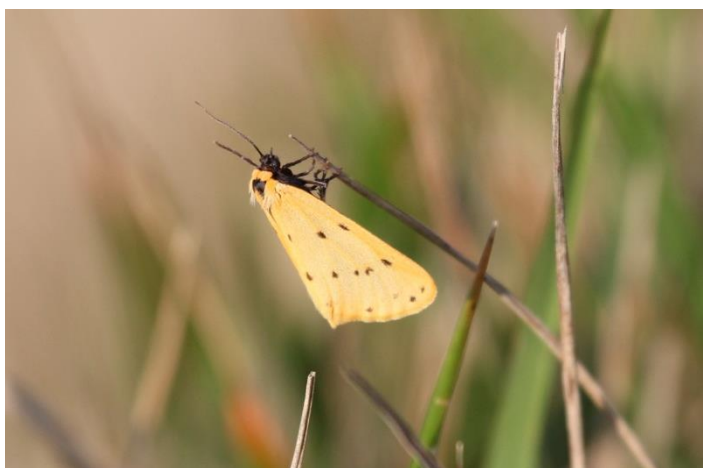
April

April was generally settled and very dry, with no significant rainfall, and it was also rather mild. The moth year list continued to increase at pace and by the end of the month 85% of those species recorded in both years had been appeared earlier than in 2016.

The first modern record of **Emperor Moth** was attracted to a pheromone lure at Horn Street on the 6th, whilst a particularly early Dew Moth was recorded at Abbotscliffe on the 7th, and Early Tooth-striped, Purple Thorn and Scalloped Hook-tip at Folks' Wood on the 9th were of note. The Mocha was trapped at West Hythe on the 14th, whilst Lunar Thorn at Hythe on the 16th and Grey Birch at Casebourne Wood on the 20th were also noteworthy.

Tenanted mines of *Eriocrania semipurpurella* (Early Purple), *E. unimaculella* (White-spot Purple), *E. cicatricella* (Washed Purple) and *E. sangii* (Large Birch Purple) were found on birch at Folks' Wood in late April.

The last few days of the month produced *Acrolepia autumnitella* (Bittersweet Smudge) at Seabrook on the 27th, *Ancylis laetana* (Aspen Roller), Scalloped Hazel and The Seraphim at Cowtye Wood on the 29th and *Agonopterix purpurea* (Small Purple Flat-body) at Seabrook on the 30th.



Dew Moth at Abbotscliffe (Ian Roberts)



Scalloped Hook-tip at Folks' Wood (Ian Roberts)



The Mocha at West Hythe (Ian Roberts)



Grey Birch at Casebourne Wood (Ian Roberts)

Migrant butterflies comprised Painted Ladies at Samphire Hoe on the 2nd and Nickolls Quarry on the 11th, and a Clouded Yellow at the former site on the 19th. As with moths, resident butterflies were also generally rather early to emerge and by the end of the month 79% of those species recorded in both years had been appeared earlier than in 2016. There were first dates in April for Small Copper (2nd), Speckled Wood and Large White (5th), Small Heath (7th), Dingy Skipper (8th), Green Hairstreak, Wall and Red Admiral (11th) and Adonis Blue (27th), with those for Small Copper, Small Heath and Wall being particularly noteworthy.



Green Hairstreak at Folkestone Downs (Alfie Gay)



Dingy Skipper at Folkestone Downs (Alfie Gay)

The first Adder was seen at Abbotscliffe on the 6th and an early Hairy Dragonfly was attracted to mercury vapour light at West Hythe on the 14th. Harbour Porpoises were noted from Hythe Ranges (4), Samphire Hoe (3), Hythe and Mill Point.

May

May began with a few showers but otherwise the first half of the month was settled, though often cloudy with cool easterly winds. The second half was more changeable but mostly warm, with a notably hot, sunny spell from the 23rd to 26th, followed by significant thunderstorms from the 27th to the 29th.

The highlights in May were the first area (and seventh county) record of **Portland Ribbon Wave** at Seabrook on the 16th, a **Pale-shouldered Cloud** at Cheriton on the 26th (the eighth area record but only the 16th for Britain), and up to six **Dusky Hook-tips** at a site near Saltwood on the 25th/26th, with a single at West Hythe on the 28th.



Portland Ribbon Wave at Seabrook (Paul Howe)

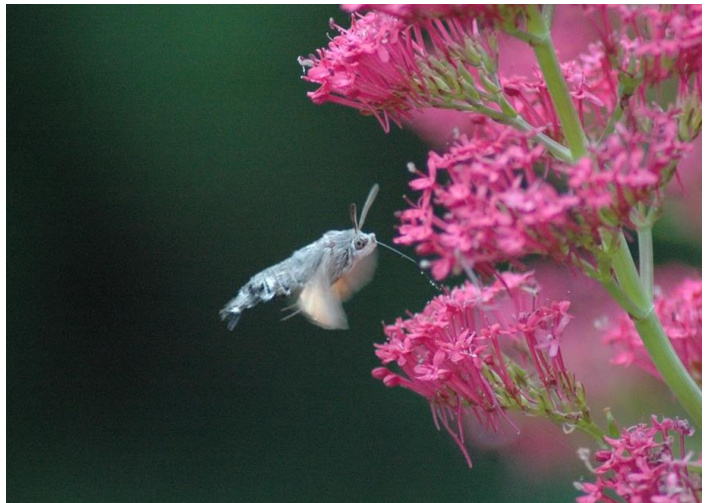


Pale-shouldered Cloud at Cheriton (Brian Harper)

The more regular migrant species consisted of Hummingbird Hawk-moths at the Hythe Redoubt, Seabrook, Lympe and Cheriton, a Pearly Underwing at Hythe on the 28th, *Nomophila noctuella* (Rush Veneer) at Cheriton on the 21st and Hythe on the 23rd, and totals of 27 *Plutella xylostella* (Diamond-back Moth) and 29 Silver Ys. Other presumed immigrants were a Latticed Heath at Seabrook on the 2nd and a Red-necked Footman at Folkestone Warren on the 27th May.



Dusky Hook-tip at Saltwood (Ian Roberts)



Hummingbird Hawk-moth at Cheriton (Sam Lloyd)

Of note among the resident moths were *Aethes williana* (Silver Carrot Conch) at Abbotscliffe on the 2nd and Fisherman's Beach, Hythe on the 22nd, *Hysterophora maculosana* (Bluebell Conch) at Kiln Wood on the 10th and Chesterfield Wood on the 14th, and Pine Beauty at Cheriton, *Bryotropha desertella* (Desert Groundling) at Seabrook and *Capua vulgana* (Common Twist) at Hythe Ranges on the 12th. Channel Islands Pug now appears to be locally established with regular records in the Seabrook area from the 15th, including a peak of eight on the 24th, whilst one was trapped at Cheriton on the 16th. White-banded Carpet seems likely to also be established in the Seabrook area, with records there for the fifth consecutive year (singles on the 16th and 17th), whilst six were present at the known breeding site of Heane Wood on the 25th May.

Lobesia reliquana (Oak Marble) at Hythe on the 15th was noteworthy, as were *Ethmia quadrillella* (Comfrey Ermel) at Hythe on the 16th and Seabrook on the 22nd, whilst *Ethmia terminella* was noted from Fisherman's Beach (Hythe) and Folkestone Warren, with *Ethmia bipunctella* also present at the latter site. *Adaina microdactyla* (Hemp Agrimony Plume) was recorded at Seabrook and Folkestone Warren in May.



Red-necked Footman at Folk. Warren (Brian Harper)



Aethes williana at Abbotscliffe (Paul Howe)



Channel Islands Pug at Seabrook (Paul Howe)



White-banded Carpet at Seabrook (Paul Howe)

A Small Yellow Underwing was seen near Lypne on the 22nd and 26th, and an *Alabonia geoffrella* (Common Tubic) was found at Seabrook on the 22nd, when a Netted Pug was taken at Cheriton. An excellent range of micros were trapped at Heane Wood on the 25th, including *Teleiodes luculella* (Crescent Groundling), *Mompha raschkiella* (Little Cosmet), *Ancylis mitterbacheriana* (Red Roller), *Epinotia tedella* (Common Spruce Bell), *Pammene germmana* (Black Piercer) and *Pammene ochsenheimeriana* (Black-patch Piercer).

Trapping at Folkestone Warren on the 27th produced Fox Moth, *Tinagma ocnerostomella* (Bugloss Spear-wing), *Eupoecilia ambiguella* (Vine Moth) and *Cydia microgrammana* (Rest-harrow Piercer), whilst Broom Moth and *Dioryctria sylvestrella* (New Pine Knot-horn) were recorded at Seabrook. Two Four-spotted were sighted at dusk at Hythe Roughs on the 28th, whilst another Mocha was trapped at West Hythe.

Migrant butterflies comprised Clouded Yellows at Abbotscliffe on the 2nd and Mill Point on the 29th, and Painted Ladies at Abbotscliffe on the 24th, Hythe Ranges on the 27th (several), Copt Point on the 28th and Samphire Hoe on the 29th. Both Common and Small Blue butterflies were first noted on the 11th, whilst Large Skipper first appeared on the 29th, and Rambur's Pied Shieldbug was again found at Seabrook, where 12 were present on the 20th. Harbour Porpoises were again seen from Mill Point (peak of two). Late Spider Orchids were flowering at the usual site on Folkestone Downs and Lizard Orchids were noted at Pedlinge (7) and Hythe Ranges (60).



Small Yellow Underwing at Lympne (Lucy Carden)



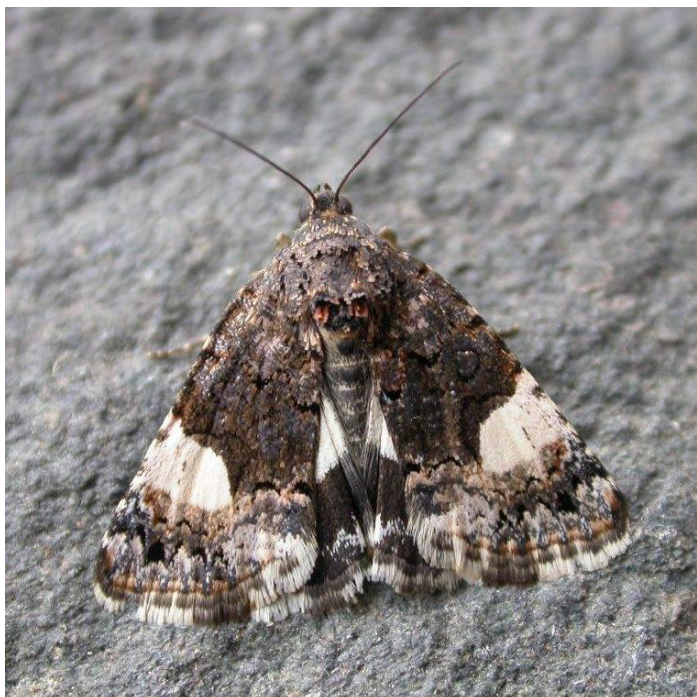
Netted Pug at Seabrook (Brian Harper)



Mompha raschkiella at Heane Wood (Ian Roberts)



Eupoecilia ambiguella at Folk. Warren (Ian Roberts)



The Four-spotted at Hythe Roughs (Ross Newman)



Rambur's Pied Shieldbug at Seabrook (Brian Harper)

June

June was mostly settled and dry, becoming increasingly warm from mid-month with daytime temperatures exceeding 30°C on the 21st, before a somewhat cooler and cloudier final week.

Highlights included the first area records of ***Thaumatotibia leucotreta*** (False Codling Moth) at Hythe on the 12th (an Afrotropical species occasionally imported accidentally as a larva in fruits and seeds, especially in oranges, peppers and chillies) and **The Concolorous** there on the 24th, the second and third area records of **Blair's Mocha**, at Hythe on the 13th June and Chesterfield Wood on the 21st June, the second to fifth records of **Small Marbled**, with singles at Folkestone Warren on the 8th, Hythe on the 24th and 26th, and at Cheriton on the latter date, and the third area record of **Splendid Brocade**, at Seabrook on the 27th.



Thaumatotibia leucotreta at Hythe (Ian Roberts)



The Concolorous at Hythe (Ian Roberts)

Also of note were the tenth to twelfth area records of ***Catoptria verellus*** (Marbled Grass-veneer), with singles at Chesterfield Wood on the 21st and Bargrove Wood on the 22nd, and three at Folks' Wood on the 25th, whilst a further **Dusky Hook-tip** was recorded in June, at Casebourne Wood on the 1st, a **Bordered Straw** was netted at Folkestone Warren on the 12th, a **Clancy's Rustic** was trapped at Hythe on the 26th, a **Small Mottled Willow** was taken at Seabrook on the 27th and **The Vestal** was caught at Hythe on the 28th.



Blair's Mocha at Hythe (Ian Roberts)



Catoptria verellus at Chesterfield Wood (Ian Roberts)

Six male Four-spotted Footman were found at Folks' Wood on the 25th, suggestive perhaps of local breeding, with one at Seabrook on the 29th perhaps more likely to be an immigrant, whilst Red-necked Footman were recorded from five sites, which may indicate that this species is becoming established locally: two at Folkestone Warren on the 8th (with one there on the 17th), one at Paraker Wood on the 14th, one at Seabrook on the 19th, two at Chesterfield Wood on the 21st and one at Folks' Wood on the 25th.

The more regular migrant species comprised a Hummingbird Hawk-moth at Seabrook on the 14th and totals of four *Nomophila noctuella* (Rush Veneer), six *Udea ferrugalis* (Rusty-dot Pearl) (from the 7th), nine Dark Sword-grass (from the 8th), 45 Silver Ys and 53 *Plutella xylostella* (Diamond-back Moths).



Small Marbled at Hythe (Ian Roberts)



Splendid Brocade at Seabrook (Paul Howe)



Small Mottled Willow at Seabrook (Paul Howe)



The Vestal at Hythe (Ian Roberts)



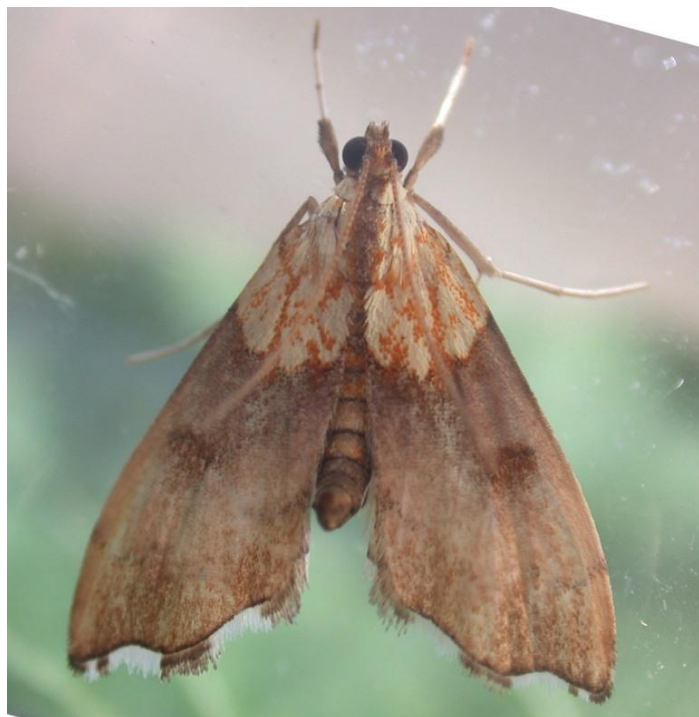
Bordered Straw at Folkestone Warren (Ian Roberts)



Clancy's Rustic at Hythe (Ian Roberts)

There was a very exciting discovery in June when *Agrotera nemoralis* (Beautiful Pearl) was found to be present in both Paraker Wood (3 on the 9th and one on the 14th) and Bargrove Wood (two on the 22nd) – the first area records. **Olive Crescent** was also trapped at a new site (Heane Wood, on the 5th), the third local woodland to produce the species in recent years, whilst another individual taken at Seabrook on the 16th might have an immigrant or originated from another unknown breeding site.

Four-spotted was again recorded at Hythe Roughs in June and there were further sightings of White-banded Carpet at Heane Wood and Seabrook. A Buttoned Snout at Seabrook on the 2nd was notable, whilst trapping at Heane Wood on the 5th added some very interesting micros to the year list, including *Ptycholoma lecheana* (Brindled Twist), *Orthotaenia undulana* (Woodland Marble), *Spatalistis bifasciana* (Small Purple Button), *Olindia schumacherana* (White-barred Twist) and *Pandemis cinnamomeana* (White-faced Twist).



Agrotera nemoralis at Paraker Wood (Ian Roberts)



Olive Crescent at Heane Wood (Dave Grundy)

Heane Wood produced some further noteworthy micros on the 7th, including *Taleporia tubulosa* (Brown Smoke), *Triaxomera fulvimitrella* (Four-spotted Clothes Moth), *Nemapogon clematella* (Barred White Clothes Moth), *Argyresthia glabratella* (Larch-boring Argent), *Hypochalcia ahenella* (Dingy Knot-horn) and *Dioryctria simplicella* (Brown Pine Knot-horn), with the latter also recorded at Folkestone Warren on the 12th.

An excellent night at Folkestone Warren on the 8th added 35 species to the year list, including Galium Carpet, Broken-barred Carpet, Sloe Pug, Orange Moth, Lilac Beauty, Clouded Buff, *Mecyna asinalis* (Coastal Pearl), *Thiotricha subocellea* (Eyelet Sober), *Pempeliella ornatella* (Ornate Knot-horn), *Anania verbascalis* (Golden Pearl) and *Evergestis extimalis* (Marbled Yellow Pearl).

Two Six-belted Clearwings were attracted by pheromone lure at Hythe Ranges on the 10th (with three at Round Hill on the 19th) and a Grass Emerald was also noted there, whilst *Epiblema foenella* (White-foot Bell), *Aethes beatricella* (Hemlock Yellow Conch) and *Argyresthia pygmaeella* (Sallow Argent) were trapped at Seabrook, with the latter species also at Cheriton.

A further session at Folkestone Warren on the 12th produced Rest Harrow, Wood Carpet, Dusky Brocade, *Epinotia subocellana* (White Sallow Bell), *Phtheochroa inopiana* (Plain Conch) and *Cochylimorpha straminea* (Straw Conch) among others, whilst a Silky Wainscot was trapped at Hythe, an *Acrolepiopsis assectella* (Leek Moth) was taken at Seabrook and *Rhodophaea formosa* (Beautiful Knot-horn) and *Anania crocealis* (Ochreous Pearl) were recorded at West Hythe. The following night added *Anania perlucidalis* (Fenland Pearl) at Hythe and *Aglossa pinguinalis* (Large Tabby) at Seabrook to the year list.

A Rest Harrow at Seabrook on the 14th was an interesting record, being a considerable distance from the areas where it is usually seen, whilst *Tischeria ekebladella* (Oak Carl), *Eidophasia messingiella* (Bitter-cress Smudge) and *Achroia grisella* (Lesser Wax Moth) at Paraker Wood were noteworthy, and the first *Metalampra italica* (Italian Tubic) of the year was at Hythe. The night of the 15th produced a *Scotia adelphella* (Willow Knot-horn) at Hythe and The Lackey at Seabrook, whilst the first *Coleophora galbulipennella* (Kent Case-bearer) and *Dolicharthria punctalis* (Long-legged China-mark) of the year were at Hythe on the 16th.

Trapping at Folkestone Warren again on the 17th produced Sub-angled Wave, *Selania leplastriana* (Cabbage Piercer), *Ethmia dodecea* (Dotted Ermel), *Cynaeda dentalis* (Starry Pearl) and *Capperia britanniodactylus* (Wood Sage Plume), whilst White Colon and Ruddy Carpet were of note at Seabrook, with *Parachronistris albiceps* (Wood Groundling) there the next night. The first of several Plumed Fan-foot was taken at Hythe on the 19th, with others at Seabrook later in the month.



Rest Harrow at Folkestone Warren (Ian Roberts)



Scotia adelphella at Hythe (Ian Roberts)

A *Bisigna procerella* (Kent Tubic) was caught at Cheriton on the 21st, when Bordered Beauty, Lobster Moth, Small Clouded Brindle, *Batrachedra pinicolella* (Pine Cosmet) and *Pammene regiana* (Regal Piercer) were among the additions to the year list at Chesterfield Wood, *Aphomia zelleri* (Twin-spot Honey) and *Brachmia blandella* (Gorse Crest) were trapped at Seabrook and *Isophrictis striatella* (White-border Neb) was taken at Hythe. On the 22nd Bargrove Wood produced Gold Swift, Round-winged Muslin, Lunar-spotted Pinion, Minor Shoulder-knot, *Scoparia basistrigalis* (Base-lined Grey) and *Acrobasis consociella* (Broad-barred Knot-horn), whilst *Grapholita lobarzewskii* (Kent Fruit Piercer) and *Neofriseria peliella* (White-spot Groundling) were trapped at Hythe.



Sub-angled Wave at Folkestone Warren (Brian Harper)



Selania leplastriana at Folkestone Warren (Ian Roberts)

The 25th saw the first Sussex Emerald at Hythe, whilst noteworthy species at Folks' Wood included Marbled Brown, *Ypsolopha parenthesella* (White-shouldered Smudge), *Anacamptis blattariella* (Birch Sober), *Eucosma campoliliana* (Marbled Bell) and *Assara terebrella* (Dark Spruce Knot-horn).

The first Langmaid's Yellow Underwing of the year was taken at Hythe on the 26th. The second *Aphomia zelleri* (Twin-spot Honey) of the month was trapped on the 27th, at Hythe, whilst the following night saw Bordered White, *Cnaemidophorus rhododactyla* (Rose Plume), *Ypsolopha nemorella* (Hooked Smudge), *Depressaria badiella* (Brown Flat-body), *Metzneria lappella* (Burdock Neb), *Eupoecilia angustana* (Marbled Conch), *Epinotia abbreviana* (Brown Elm Bell), *Eucosma fulvana* (Fulvous Bell), *Catoptria falsella* (Chequered Grass-veneer) and *Platytes alpinella* (Hook-tipped Grass Veneer) at Folkestone Warren, Hoary Footman and *Dichomeris marginella* (Juniper Webber) at Seabrook and Pigmy Footman and *Carpatolechia fugitivella* (Elm Groundling) at Hythe added to the year list.



Bisigna procerella at Cheriton (Brian Harper)



Aphomia zelleri at Seabrook (Paul Howe)

A *Pammene aurita* (Sycamore Piercer) was netted by day at Hythe on the 30th, whilst trapping that night produced *Limnaecia phragmitella* (Bulrush Cosmet), *Acrocercops brongniardella* (Brown Oak Slender) and *Caloptilia stigmatella* (White-triangle Slender) at Hythe.



Cnaemidophorus rhododactyla at Folkestone Warren
(Fred Butcher)



Pammene aurita at Hythe
(Paul Howe)

Migrant butterflies involved Clouded Yellows at Samphire Hoe on the 4th and Seabrook on the 26th, and small numbers of Painted Ladies at several sites. Of the resident species a Dark Green Fritillary at Seabrook on the 9th, a White-letter Hairstreak at West Hythe on the 14th and at least three White Admirals and four Silver-washed Fritillaries at Folks' Wood (from mid-month) were of most note, whilst there were first emergences of Meadow Brown (10th), Marbled White (16th), Ringlet and Small Skipper (17th) and Essex Skipper (27th).

A Red-veined Darter was seen at Samphire Hoe on the 4th, whilst a Banded Demoiselle was noted at West Hythe on the 5th and a Southern Hawker was at Seabrook on the 14th. Three specimens of the longhorn beetle *Agapanthia cardui* were noted adjacent to the Channel Tunnel terminal in Cheriton on the 12th and these appear to be the first British records of this species, whilst a Bee Beetle at Samphire Hoe on the same date was only the fifth site record.



White Admiral at Folks' Wood (Ian Roberts)



Silver-washed Fritillary at Folks' Wood (Brian Harper)



Red-veined Darter at Samphire Hoe (Phil Smith)



Banded Demoiselle at West Hythe (Ian Roberts)

July

The first three weeks of July were settled and it was generally sunny and rather warm, with a few showers which were occasionally thundery. The last ten days of the month though were cooler with frequent rain.

Highlights included the second and third modern area records of **Dark Crimson Underwing** at Cheriton and West Hythe on the 25th, the second **Pale-shouldered Cloud** of the year at Cheriton on the 31st, and the fifth and sixth **Small Marbled** of the year at Hythe on the 8th and 9th.



Dark Crimson Underwing at West Hythe (Fred Butcher)



Pale-shouldered Cloud at Cheriton (Brian Harper)

Following the three records in June, *Catoptria verellus* (Marbled Grass-veneer) was found at a further four sites, perhaps indicating that the species is now locally established: Cowtye Wood on the 2nd, Heane Wood on the 4th (2), the American Garden on the 8th (2) and Folkestone Warren on the 16th. Presumed immigrant **Gypsy Moths** were recorded from Seabrook on the 24th and Hythe on the 25th.

Single **Scarce Bordered Straws** were recorded at Hythe on the 23rd and 25th, whilst **Small Mottled Willows** were at Hythe on the 1st and Folkestone Warren on the 16th, **The Vestal** was trapped at Cheriton on the 4th, 5th and 6th, Hythe on the 7th and Heane Wood on the 28th and a *Palpita vitrealis* (Olive-tree Pearl) was taken at Seabrook on the 24th.



Gypsy Moth at Seabrook (Paul Howe)



Scarce Bordered Straw at Hythe (Ian Roberts)

The more regular migrant species comprised two Hummingbird Hawk-moths (at Folkestone and Saltwood), five *Udea ferrugalis* (Rusty-dot Pearl), nine Dark Sword-grass, 17 *Nomophila noctuella* (Rush Veneer), 57 *Plutella xylostella* (Diamond-back Moths) and 114 Silver Ys.

Four-spotted Footman were recorded from Capel-le-Ferne, Folkestone Warren, Heane Wood, Seabrook and West Hythe, with the total of 37 (including an exceptional count of 15 at Capel-le-Ferne on the 9th) providing further suggestion of local breeding, whilst a Red-necked Footman was recorded at a further site in July (Heane Wood, on the 5th). **Olive Crescent** was again trapped at Heane Wood (on the 4th) whilst one at Capel-le-Ferne on the 9th could have been an immigrant or from an undiscovered population in Folkestone Warren.

Slender Brindle and *Athrips mouffetella* (Dotted Grey Groundling) at Seabrook were new for the year on the 1st, whilst the following day saw an Orange-tailed Clearwing attracted to a pheromone lure at Folkestone Warren. The first Black Arches and July Highflyer of the year were at Cowtye Wood and Seabrook on the 2nd, with *Acleris bergmanniana* (Yellow Rose Button) and *Agonopterix liturosa* (Large Purple Flat-body) also of note at the former site.

A Beautiful Snout and a Dark Marbled Carpet were trapped at Heane Wood on the 3rd, with Reed Dagger and *Argyresthia albigaria* (Purple Argemone) at Seabrook new for the year the following night. The first two Straw Belles were found by day at Abbotscliffe on the 5th, with a *Pammene aurana* (Orange-spot Piercer) located on hogweed there, whilst that night the first Waved Carpet was caught at Heane Wood. The night of the 6th produced *Sciota adelphella* (Willow Knot-horn), *Bisigna procerella* (Kent Tubic), Waved Black, The Mocha and Ear Moth at West Hythe, Sub-angled Wave, Balsam Carpet, Fen Wainscot and *Scoparia subfusca* (Large Grey) at Seabrook, *Mompha propinquella* (Marbled Cosmet) at Cheriton and Plain Pug and the first Jersey Tiger at Hythe.

Teleiodes sequax (Barred Groundling) was found by day at Folkestone Downs on the 7th, whilst that night the third *Aphomia zelleri* (Twin-spot Honey) of the year was trapped at Hythe, where The Shark was new for the year and the first Magpie Moth was at Seabrook. *Piniphila bifasciana* (Pine Marble) at the American Garden was new for the year the following night and the next day a Red-belted Clearwing was attracted to a pheromone lure at the nearby Garden House Orchards.



Orange-tailed Clearwing at Folk. Warren (Ross Newham)



Beautiful Snout at Heane Wood (Ian Roberts)

On the night of the 9th The Confused, Chalk Carpet, *Acompsia schmidtellus* (Marjoram Crest), *Coleophora lixella* (Downland Case-bearer), *Cochylimorpha alternana* (Kentish Conch), *Moitrelia obductella* (Kent Knot-horn) and *Sitochroa palealis* (Sulphur Pearl) at Capel-le-Ferne were among the additions to the year list, whilst *Stathmopoda pedella* (Alder Signal) was trapped at Hythe and *Eucosma hohenwartiana* (Bright Bell) was recorded at Seabrook. Saltern Ear and *Gymnancyla canella* (Hoary Knot-horn) were new for the year at Hythe on the 10th.



Red-belted Clearwing at Garden House (Ian Roberts)



The Confused at Capel-le-Ferne (Ian Roberts)

Caryocolum vicinella (Coast Groundling) and *Pediasia contaminella* (Waste Grass-veneer) at Hythe Ranges were new for the year on the 13th, whilst an excellent total of 45 Sussex Emeralds were trapped. The following night produced *Acleris sparsana* (Ashy Button) and *Phycitodes saxicola* (Small Clouded Knot-horn) at Seabrook, whilst Small Scallop at Hythe on the 15th was also new for the year. Trapping at Folkestone Warren on the 16th produced the first Festoon, Wormwood, Tree-lichen Beauty, Gold Spot, Barred Rivulet, *Agapeta zoegana* (Knapweed Conch) and *Pyrausta nigrata* (Wavy-barred Sable) of the year, whilst three *Bisigna procellera* (Kent Tubic) were also of note. At Seabrook additions to the year list included *Recurvaria leucateella* (White-barred Groundling) and *Anarsia lineatella* (Peach Twig Borer).

The following night saw the first Twin-spotted Wainscot of the year at Hythe, with Canary-shouldered Thorn added at Seabrook on the 18th. On the 19th a **Four-spotted**, a *Bisigna procerella* (Kent Tubic) and a *Sciota adelphella* (Willow Knot-horn) were at West Hythe dam, where additions to the year list included *Apotomis lineana* (Willow Marble), Bulrush Wainscot, Webb's Wainscot, Lesser-spotted Pinion and Southern Wainscot, whilst Maple Pug, *Evergestis pallidata* (Chequered Pearl) and *Eana incanana* (Bluebell Shade) were new for the year at Heane Wood the following night.

The Olive at Seabrook was new for the year on the 21st, whilst a White-banded Carpet was of note there on the 23rd. The recently-described species *Anarsia innoxia* was noted at West Hythe on the 25th, whilst Mathew's Wainscot and The Suspected at Seabrook were new for the year on the 27th. The 28th produced a Bisigna procerella (Kent Tubic) and four White-banded Carpets at Heane Wood, where *Cryptoblabes bistriga* (Double-striped Knot-horn), *Epinotia solandriana* (Variable Bell) and *Epinotia nisella* (Grey Poplar Bell) were new for the year. A Tree-lichen Beauty was at Seabrook on the 29th.

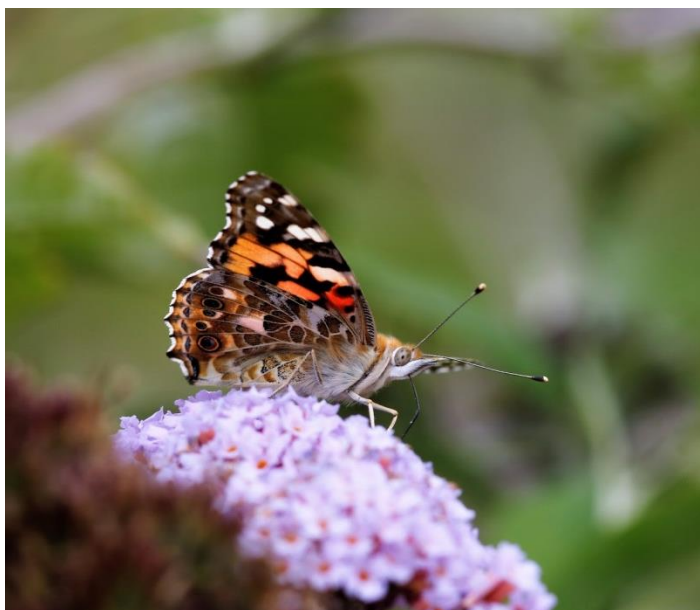


Small Scallop at Hythe (Ian Roberts)



The Wormwood at Folkestone Warren (Ian Roberts)

Migrant butterflies comprised single Clouded Yellows at Samphire Hoe on the 9th, Hythe Ranges on the 22nd and Hythe on the 29th and small numbers of Painted Ladies at several sites. At least one White Admiral and up to six Silver-washed Fritillaries remained at Folks' Wood, whilst a White Admiral in Hythe Town, near the Waitrose store on the 4th was an unusual sighting. There were first emergences of Gatekeeper at Folkestone Warren and Palmarsh on the 4th and Brown Argus at Folkestone Downs on the 13th. A Brimstone at Peene Quarry on the 6th was also of note.



Painted Lady at Samphire Hoe (Phil Smith)



Brimstone at Peene Quarry (Ian Roberts)

A Red-veined Darter was seen at Samphire Hoe on the 9th, whilst other arthropods of note included a Lesser Stag Beetle at Seabrook on the 2nd, several pairs of Firebugs at Mill Point on the 14th, a Glow-worm at Heane Wood on the 28th and a Great Silver Diving Beetle at Seabrook on the 31st. At least three Harbour Porpoises remained in Hythe Bay.

August

There was an unsettled start to the month with rain or showers and mainly westerly or south-westerly winds, and this pattern continued until the 18th. It turned warmer from the 19th, and it was often warm and sunny between the 25th and 29th, but the month ended cooler and showery.

August highlights included the first area records of **Great Brocade** at Folkestone Warren on the 10th (an immigrant, presumably from a Scandinavian population) and **Celypha rufana** (Lakes Marble) at Hythe on the 14th (also thought to be an immigrant, with records from other coastal sites around the same time). The second **Portland Ribbon Wave** of the year at Seabrook (and the second area record) on the 20th, two **Ni Moths** at Folkestone Warren on the 10th and single **Cydia amplana** (Vagrant Piercer) at Heane Wood on the 11th and Seabrook on the 28th.

Following records at a site near Saltwood in late May, a peak of 30 **Dusky Hook-tips** were recorded there in early August – the first confirmed breeding in Britain. Further singles, probably primary immigrants given the coastal locations, were trapped at Hythe on the 15th, Folkestone Warren on the 20th and Seabrook on the 26th.



Great Brocade at Folkestone Warren (Dave Grundy)



Celypha rufana at Hythe (Ian Roberts)



Ni Moth at Folkestone Warren (Ian Roberts)



Cydia amplana at Heane Wood (Dave Grundy)

The records of **Gypsy Moth** and **Scarce Bordered Straw** in late July heralded a significant arrival of both species with 13 of the former trapped in Folkestone Warren in August (including a peak of eight on the 10th), whilst singles were recorded at Seabrook on five nights during the month, and a total of up to 42 of the latter, with peak counts of 12 at Folkestone Warren on the 10th and five at Hythe on the 20th.

Palpita vitrealis (Olive-tree Pearl) also arrived in good numbers, with a total of up to 11 noted: one at Folkestone Warren, two at Cheriton, two at Hythe and a total of up to five at Seabrook, whilst singles of **The Vestal** were recorded from Cheriton and Hythe on the 28th.

The more regular migrant species comprised single Hummingbird Hawk-moths at Cheriton, Hythe, Samphire Hoe, Shorncliffe and Sandgate, six *Plutella xylostella* (Diamond-back Moths), 28 *Nomophila noctuella* (Rush Veneer), 35 *Udea ferrugalis* (Rusty-dot Pearl), 38 Dark Sword-grass (including an excellent count of 16 at Folkestone Warren on the 10th) and 39 Silver Ys.

A Latticed Heath at Folkestone Warren on the 14th was thought to be an immigrant, whilst four Tree-lichen Beauties at the same site on the 10th and another at Seabrook on the 14th may also have been migrants. The only record of Four-spotted Footman involved a female at Folkestone Warren on the 20th.

The early part of August produced few additions to the year list but trapping at Folkestone Warren on the 10th added The Annulet, Golden-rod Pug, *Agdistis bennetii* (Saltmarsh Plume), *Delplanqueia inscriptella* (Brown Powdered Knot-horn), *Ptocheuusa paupella* (Light Fleabane Neb) and *Eulamprotes atrella* (Two-spotted Neb), whilst Red Underwing and *Cochylidia implicitana* (Chamomile Conch) at Seabrook on the same night were also new. The following night saw Small Rufous, Cypress Pug, *Hypatina rhomboidella* (Square-spot Crest), *Epinotia ramella* (Small Birch Bell) and *Acleris emargana* (Notch Wing Tortrix) added from Heane Wood.



Palpita vitrealis at Cheriton (Brian Harper)



Agdistis bennetii at Folkestone Warren (Ian Roberts)

On the 14th *Ypsolopha horridella* (Dark Smudge) and *Cochylis dubitana* (Little Conch) at Seabrook were new for the year, where singles of Rest Harrow and White-banded Carpet were also of note, whilst Dog's Tooth was added to the list at Folkestone Warren, where a total of 40 Jersey Tigers was notable. The first Straw Underwings of the year were also logged at Folkestone Warren and Hythe on the same night and there was an excellent count of 22 Straw Belles in the Folkestone Downs area the next day.

Further additions to the year list included Svensson's Copper Underwing at Seabrook on the 20th, Frosted Orange and Toadflax Pug there on the 21st, August Thorn there on the 24th, Large Thorn there on the 25th and Six-striped Rustic and *Prochoreutis sehestediana* (Silver-dot Twitcher) there on the 26th. The night of the 28th produced *Clavigesta purdeyi* (Pine Leaf-mining Moth) at Cheriton and Centre-barred Sallow and *Apodia bifractella* (Dark Fleabane Neb) at Folkestone Warren, whilst a record of The Confused at Seabrook on the 29th was also of note.



August Thorn at Seabrook (Paul Howe)



Prochoreutis sehestediana at Seabrook (Paul Howe)

Migrant butterflies comprised up to two Clouded Yellows at Samphire Hoe and singles at Folkestone Downs on two dates, whilst small numbers of Painted Ladies were noted at several sites.

Four Silver-spotted Skippers were noted in Folkestone Warren on the 15th, including three in the grazing area, whilst Adonis Blues were present in the Folkestone Downs area in exceptional numbers, with over 1,000 estimated to be present on the 22nd (the highest numbers for over 25 years).



Clouded Yellow at Samphire Hoe (Phil Smith)



Silver-spotted Skippers at Folk. Warren (Alfred Gay)

A **Willow Emerald Damselfly** seen at West Hythe over the weekend of the 26th/27th was a new species for the area.

Harbour Porpoises increased in Hythe Bay to a peak of six off Seabrook on the 5th, whilst at least two were seen at Samphire Hoe.

September

The first fortnight of the month was dominated by a southerly airflow and it was fairly mild, though most days saw at least some rain. A week of cooler, drier north-westerlies followed, before the winds returned to the southerly quadrant for the remainder of the month.

Highlights included the first area record of *Cosmopterix pulchrimella* at Hythe Ranges on the 25th and the second area record (following the first in June of this year) of *Thaumatotibia leucotreta* (False Codling Moth) at Seabrook on the 8th.



Cosmopterix pulchrimella at H. Ranges (Barry Barnacal)



Convolvulus Hawk-moth at Seabrook (Paul Howe)

It was a good month for migrant moths, which included the first **Convolvulus Hawk-moth** of the year at Seabrook on the 18th, a **Gem** at Hythe on the 5th, a **Vestal** there on the 11th, two Barred Red of the form *prasinaria* at Seabrook on 17th, **Palpita vitrealis** (Olive-tree Pearl) at Cheriton on the 23rd and 25th (2), and at Hythe Ranges on the 25th, and single **Bordered Straws** at Hythe on the 7th and Seabrook on the 26th.



The Gem at Hythe (Ian Roberts)



prasinaria Barred Red at Seabrook (Paul Howe)

Of particular note were record arrivals of **The Delicate** (with a total of up to 13 in the month), **Scarce Bordered Straw** (up to 46) and **Clancy's Rustic** (up to 62, including a count of 12 at Hythe on the 26th).

Other migrants comprised totals of 5 *Plutella xylostella* (Diamond-back Moths), 5 Hummingbird Hawk-moths, 11 Pearly Underwings, 12 Dark Sword-grasses, 27 *Nomophila noctuella* (Rush Veneers), 50 Silver Ys and 79 *Udea ferrugalis* (Rusty-dot Pearls).

September saw the emergence of a range of typical autumn species including Orange Sallow and Feathered Gothic (on the 1st), Lunar Underwing (11th), Feathered Ranunculus and Large Wainscot (18th), Autumnal Rustic, Barred Sallow and Feathered Brindle (19th), Deep-brown Dart and Pink-barred Sallow (21st), Brown-spot Pinion and The Sallow (22nd), Black Rustic (23rd), The Brick (24th), Large Ranunculus (25th), Brindled Green and Dark-barred Twin-spot Carpet (26th) and Beaded Chestnut (29th).



The Delicate at Seabrook (Paul Howe)



Autumnal Rustic at Hythe (Ian Roberts)

A very productive search for leaf miners and early stages at Brockhill Country Park on the 8th yielded 33 new micro moths for the year list, including *Bucculatrix cidarella*, *Heliozela resplendella*, *Parornix fagivora* and *Mompha terminella*, whilst mines of *Phyllonorycter lantanella* (Viburnum Midget) were found at Samphire Hoe on the 17th.



Bucculatrix cidarella at Brockhill CP (David Shenton)



Phyllonorycter lantanella at Samphire Hoe (Ian Roberts)

Other additions to the year list included *Bactra lancealana* (Rush Marble) at West Hythe on the 1st, *Coleophora alcyonipennella* (Clover Case-bearer) at Seabrook on the 17th and *Monopis crocicapitella* (Pale-backed Clothes Moth) at Seabrook on the 19th.

Single Clouded Yellow butterflies were at Folkestone Warren on the 16th and 17th and Mill Point on the 27th, whilst small numbers of Painted Ladies were again noted at several sites. A Tawny Cockroach was seen at Samphire Hoe on the 17th.

At least two Harbour Porpoise remained off Samphire Hoe.

October

There was a settled start to the month with winds from the westerly quadrant and near-average temperatures. It became unseasonably warm around mid-month as ex-hurricane Ophelia brought in warm air from the south and temperatures increased to over 20°C by day, remaining at nearly 16°C overnight. It remained relatively mild before becoming significantly cooler from the 27th as the wind switched round to the north-west and overnight lows dipped to 6°C.



Oak Rustic at Seabrook (Paul Howe)



Musotima nitidalis at Folks' Wood (Ian Roberts)

Highlights included the first area records of the recent colonist **Oak Rustic** at Seabrook on the 25th and the adventive ***Musotima nitidalis*** at Folks' Wood on the 15th. The third area record of ***Cydalima perspectalis*** (Box Tree Moth), at Seabrook on the 18th, a **Death's-head Hawk-moth**, found in the High Street at Hythe on the 5th, and a **Golden Twin-spot**, at Hythe on the 25th were also extremely noteworthy.



Cydalima perspectalis at Seabrook (Paul Howe)



Death's-head Hawk-moth at Hythe (Paul Howe)

The record influxes of **Scarce Bordered Straw** (with up to a further 9 in the month, including four at Folkestone Warren on the 17th), **Clancy's Rustic** (up to 20) and **The Delicate** (up to 24) continued into October and there were also notable arrivals of **The Vestal** (up 11) and ***Palpita vitrealis*** (Olive-tree Pearl) (up to 25, including peaks of four at Seabrook on the 23rd and 3 at Hythe on the 25th).



Golden Twin-spot at Hythe (Ian Roberts)



The Vestal at Hythe (Ian Roberts)

Other migrants comprised totals of one *Plutella xylostella* (Diamond-back Moth), two *Nomophila noctuella* (Rush Veneers), six Pearly Underwings, 15 Dark Sword-grasses, 33 Silver Ys and 47 *Udea ferrugalis* (Rusty-dot Pearls).

October saw the continued emergence of autumn species including The Mallow (on the 7th), Blair's Shoulder-knot and Red-line Quaker (8th), Green-brindled Crescent (9th), Pine Carpet (12th), Merveille du Jour (14th), and Feathered Thorn and Yellow-line Quaker (15th).

New additions to the micro moth year list tailed off but did include *Caloptilia betulicola* (Red Birch Slender) at Seabrook on the 15th, *Agonopterix propinquella* (Black-spot Flat-body) at Folkestone Warren on the 17th and *Ypsolopha ustella* (Variable Smudge) there on the 31st.

Good numbers of Red Admirals were noted across the area. At least one Harbour Porpoise was seen off Mill Point.



Merveille du Jour at Seabrook (Paul Howe)



Yellow-line Quaker at Folks' Wood (Ian Roberts)

November

Winds were predominately from the westerly quarter but overnight temperatures were generally rather low, with occasional brief milder periods. The last day of the month even saw some snow showers.

The highlight of the month were the second and third area records (following the first in October) of **Oak Rustic** at Seabrook on the 9th and 15th. Migrant numbers dwindled in November but there were still a few additions to the record influxes of **Scarce Bordered Straw** (with singles at Hythe on the 5th and 9th), **Clancy's Rustic** (one at Hythe on the 2nd) and **Palpita vitrealis** (Olive-tree Pearl) (singles at Hythe on the 3rd, Seabrook on the 14th and Hythe on the 15th).

Other migrants included the second **Gem** of the year (a male at Hythe on the 7th) and totals of one Dark Sword-grass, one *Nomophila noctuella* (Rush Veneer), two Pearly Underwings, two *Plutella xylostella* (Diamond-back Moths), eight Silver Ys and 11 *Udea ferrugalis* (Rusty-dot Pearls). A Sprawler at Hythe on the 9th was the only addition to the macro year list, whilst the only new micro involved tenanted mines of *Ectoedemia subbimaculella* (Spotted Black Pigmy) found at Brockhill Country Park on the 1st.



The Sprawler at Hythe (Ian Roberts)



Ectoedemia subbimaculella at Brockhill CP (Ian Roberts)

There were single Clouded Yellows at Abbotscliffe on the 2nd, Hythe on the 10th, Samphire Hoe on the 13th and Donkey Street on the 17th, whilst Red Admirals were noted on several dates to the 22nd and there were also relatively late records of Speckled Wood at Nickolls Quarry on the 1st and Small White at Seabrook on the 2nd.

December

After a mostly mild first week it then turned much cooler with overnight frosts lasting into the third week. It was milder, though often stormy, over the Christmas period and there was a cold end to the month with some showers.

There was little moth activity during the month and December Moth was the only addition to the year list (at both Hythe and Seabrook on the 3rd).

There were no reports of butterflies and the only insect of note that was recorded was a female Minotaur Beetle taken at light at Seabrook on the 22nd.



December Moth at Seabrook (Paul Howe)



Minotaur Beetle at Seabrook (Paul Howe)

Acknowledgments

I am very grateful to David Shenton for undertaking the genitalia determination of *Dahlica inconspicua*, *Scrobipalpa ocellatella*, The Concolorous, *Dioryctria simplicella* and *Anacamptis blattariella*.

Summary tables

The totals of the immigrant macro and micro moths recorded in 2017 and five previous the years are shown in figures 1 and 2:

Migrant macro moths	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2017	2016	2015	2014	2013	2012
Convolvulus Hawk-moth									1				1	33	2	2	7	
Death's-head Hawk-moth										1			1					
Hummingbird Hawk-moth					4	1	2	5	5				17	8	15	11	7	7
Portland Ribbon Wave					1			1					2					
Blair's Mocha						2							2					1
The Vestal						1	5	2	1	11			20	6	70	1	4	1
The Gem									1		1		2	5	9	6	4	
Latticed Heath					1			1					2	1	1	2		
Gypsy Moth							2	18					20					
Red-necked Footman					1	7	1						9	1	53	4		
Small Marbled						4	2						6		1			
Dark Crimson U/wing							2						2					
Ni Moth								2					2		3			
Golden Twin-spot										1			1		1	7	1	
Silver Y					29	45	114	39	50	33	8		318	665	750	373	1147	365
Bordered Straw						1			2				3	3	63			1
Scarce Bordered Straw							2	42	46	9	2		101	10	39	5	12	2
Tree-lichen Beauty								5					5	6	5	12	6	1
Small Mottled Willow						1	2						3	4	42			
Clancy's Rustic						1			62	20	1		84	6	19	1	2	8
Pale-shouldered Cloud					1		1						2		2	2	1	
The Concolorous						1							1					
Oak Rustic										1	2		3					
Blossom Underwing			1										1					
Splendid Brocade						1							1		1		2	
The Delicate									13	24			37	8	8	3	1	2
Pearly Underwing					1				11	6	2		20	11	39	16	1	2
Dark Sword-grass						9	9	38	12	15	1		84	77	84	84	243	12
Great Brocade								1					1					
Total	0	0	1	0	38	74	142	154	204	121	17	0	751	844	1,207	529	1438	402

Figure 1: Migrant macro moths in the Folkestone and Hythe area in 2017

Migrant micro moths	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2017	2016	2015	2014	2013	2012
<i>Plutella xylostella</i>					27	53	57	6	5	1	2		151	14,783	263	1,716	796	222
<i>Celypha rufana</i>								1					1					
<i>Cydia amplana</i>								2					2	3		12		23
<i>Udea ferrugalis</i>						6	5	35	79	47	11		183	231	98	296	15	9
<i>Palpita vitrealis</i>							1	11	4	25	3		44	18	58	38	16	3
<i>Nomophila noctuella</i>					2	4	17	28	27	2	1		81	614	287	4	111	93
<i>Cydalima perspectalis</i>										1			1		1	1		
<i>Catoptria verellus</i>						5	6						11	2	6	1		
Total	0	0	0	0	29	68	86	83	115	76	17	0	472	15,684	758	2,068	938	350

Figure 2: Migrant micro moths in the Folkestone and Hythe area in 2017

The total numbers of micro and macro moths that were recorded in 2017 and six previous years are shown in figure 3:

Total species	2017	2016	2015	2014	2013	2012	2011	Total area list
Micro	475	325	336	309	286	256	219	640
Macro	452	399	418	386	370	338	321	552
Total	927	724	754	695	656	594	540	1,192

Figure 3: Total moth species recorded in the Folkestone and Hythe area in 2017

The first dates that butterflies were recorded in 2017 and five previous years are shown in figure 4:

First butterfly dates	2017	2016	2015	2014	2013	2012
Dingy Skipper	08-Apr	19-Apr	21-Apr	01-Apr	26-May	30-Apr
Essex Skipper	27-Jun		07-Jul	28-Jul	16-Jul	
Small Skipper	17-Jun	28-Jun	25-Jun	21-Jun	22-Jul	03-Jul
Silver-spotted Skipper	15-Aug	15-Aug			02-Sep	17-Aug
Large Skipper	29-May	27-May	05-Jun	20-May	25-Jun	19-Jun
Orange Tip	30-Mar	02-May	13-Apr	05-Apr	28-Apr	13-May
Large White	05-Apr	12-Apr	13-Apr	08-Apr	03-May	22-Mar
Small White	24-Mar	15-Mar	17-Mar	08-Mar	03-May	24-Mar
Green-veined White	31-Mar	28-Apr	07-Apr	11-Apr	07-May	22-Mar
Clouded Yellow	19-Apr	11-Apr	28-Apr	11-Apr	25-Jun	
Brimstone	25-Mar	25-Mar	17-Mar	09-Mar	14-Apr	Spring
Wall	11-Apr	28-Apr	24-Apr	17-Apr	12-May	30-Apr
Speckled Wood	05-Apr	08-Apr	10-Apr	01-Apr	05-May	28-Mar

First butterfly dates	2017	2016	2015	2014	2013	2012
Small Heath	07-Apr	07-May	13-May	22-Apr	26-May	12-May
Ringlet	17-Jun	04-Jul	29-Jun	15-Jun	06-Aug	26-Jun
Meadow Brown	10-Jun	26-May	20-Jun	12-Jun	13-Jul	20-Jun
Gatekeeper	04-Jul	08-Jun	07-Jul	28-Jun	15-Jul	24-Jul
Marbled White	16-Jun	03-Jul	25-Jun	06-Jun	22-Jul	26-Jun
Silver-washed Fritillary	16-Jun	20-Jul	11-Jul			
Dark Green Fritillary	09-Jun			07-Jul		
White Admiral	17-Jun	03-Jul	11-Jul			
Red Admiral	11-Apr	08-May	04-Mar	16-Mar	05-May	11-Jan
Painted Lady	02-Apr	04-Jun	02-Apr	08-Jun	28-Apr	24-May
Peacock	14-Feb	13-Mar	01-Jan	04-Mar	14-Mar	24-Feb
Small Tortoiseshell	09-Jan	11-Mar	27-Feb	02-Jan	06-Mar	01-Mar
Comma	09-Mar	25-Jan	17-Mar	05-Mar	05-Mar	01-Mar
Small Copper	02-Apr	11-Apr	27-Apr	03-Jul	01-May	22-May
Green Hairstreak	11-Apr	28-Apr	04-May	11-Apr	16-May	29-May
White-letter Hairstreak	14-Jun	15-Jul	03-Jul		12-Aug	
Small Blue	11-May	17-May	25-May	17-May	15-Jun	28-May
Holly Blue	30-Mar	18-Apr	09-Apr	13-Apr	03-May	29-Mar
Brown Argus	13-Jul	17-Aug		18-May	01-Sep	05-Jun
Common Blue	11-May	06-May	13-May	05-May	05-May	22-May
Adonis Blue	27-Apr	17-May	08-May	13-May	18-Jun	23-May
Chalk Hill Blue	01-Aug	01-Aug	11-Sep		27-Jul	09-Aug

Figure 4: First dates for butterflies at Folkestone and Hythe in 2017