

## Review of butterfly, moth and other natural history sightings 2021

### January

After a cold and generally settled start to the year it gradually turned milder and more unsettled during the second week and it was often very wet in the third week, with storms on the night of the 20<sup>th</sup>. It then turned colder for a few days before there was a milder and wet end to the month.

Three species of micro moth were recorded although only one was an adult: *Epiphyas postvittana* (Light Brown Apple Moth) at Seabrook on the 27<sup>th</sup>, whilst the others were early stages: a *Cacoecimorpha pronubana* (Carnation Tortrix) larva at Seabrook and *Phyllonorycter leucographella* (Firethorn Leaf-miner) mines at Hythe on the 17<sup>th</sup>.

The nine species of macro that were recorded were typical of the early season with a Double-striped Pug found indoors at Saltwood on the 2<sup>nd</sup> and the others were trapped at Seabrook: Mottled Umber on the 6<sup>th</sup>, Winter Moth on the 11<sup>th</sup>, the Chestnut on the 13<sup>th</sup>, the Satellite on the 15<sup>th</sup>, Dark Chestnut on the 18<sup>th</sup>, Spring Usher on the 27<sup>th</sup>, Pale Brindled Beauty on the 29<sup>th</sup> and Early Moth on the 31<sup>st</sup>.



Spring Usher at Seabrook (Paul Howe)



Early Moth at Seabrook (Paul Howe)

Mammal sightings included several Grey and Common Seals, and Harbour Porpoises seen offshore and several Brown Hares in the Donkey Street/Willop Basin area.

### February

There was a mild start to the month but from the 6<sup>th</sup> it became steadily colder, with bitter easterly winds, freezing daytime temperatures and some significant snowfall. The latter half of the month was considerably milder, and it also became more settled as time went on.

Ten species of micro moth were added to the year list, with *Psyche casta* (Common Bag-worm) larva and *Acleris sparsana* (Ashy Button) at Saltwood, and *Agonopterix alstromeriana* (Brown-spot Flat-body) at Hythe on the 21<sup>st</sup>, *Tortricodes alternella* (Winter Shade) at Saltwood on the 22<sup>nd</sup>, and *Diurnea fagella* (March Tubic) at Seabrook on the 27<sup>th</sup> being the most noteworthy. There were also ten additions to the macro moth year list, with the most notable being Dotted Border at Seabrook on the 5<sup>th</sup>, March Moth at Saltwood on the 21<sup>st</sup>, Red Chestnut at Seabrook on the 24<sup>th</sup>, Tawny Pinion at Seabrook and Bloxworth Snout at Hythe on the 25<sup>th</sup> and Small Brindled Beauty at Seabrook on the 28<sup>th</sup>.

The first three butterfly species of the year were noted in February: Peacock at Seabrook and Small Tortoiseshell at Saltwood on the 20<sup>th</sup> and Brimstone at Samphire Hoe on the 26<sup>th</sup>.

A Common Seal was seen off Seabrook on the 1<sup>st</sup> and up to three Harbour Porpoises were noted from Folkestone Pier. Up to three Hares were present on the marsh and the first Common Pippistrelle of the year was seen at Seabrook on the 24<sup>th</sup>.



Tawny Pinion at Seabrook (Paul Howe)



Small Brindled Beauty at Seabrook (Paul Howe)

## March

The first week of March was cool but mostly settled, followed by a more unsettled spell in the second week. It was mostly dry during the second half of the month and south-westerly winds dominated the last ten days, when temperatures gradually began to climb. There was a particularly mild end to the month, with temperatures approaching 22°C by day and 10°C overnight.

Just four species of micro moth were added to the year list: *Acleris literana* (Lichen Button) at Cheriton on the 15<sup>th</sup>, *Dahlica inconspicuell*a (Lesser Lichen Bagworm) at Abbotscliffe on the 20<sup>th</sup>, *Agonopterix scopariella* (Broom Flat-body) at Saltwood on the 30<sup>th</sup> and *Plutella xylostella* (Diamond-back Moth) at Folks' Wood on the 31<sup>st</sup>.



*Dahlica inconspicuell*a at Abbotscliffe (Ian Roberts)



Brindled Beauty at Seabrook (Paul Howe)

The macro moth year list fared a little better with 23 additions, including the Herald at Folkestone on the 6<sup>th</sup>, Hummingbird Hawk-moth at Cheriton on the 14<sup>th</sup>, Water Carpet and Twin-spotted Quaker at West Hythe on the 17<sup>th</sup>, and Brindled Beauty at Seabrook, and Shoulder Stripe and the sixth area record of **Dotted Chestnut** at Aldergate Bridge on the 30<sup>th</sup>. The final night of the month produced Pale Pinion (and a further **Dotted Chestnut**) at Saltwood, Yellow Horned, Early Tooth-striped and the Streamer at Folks' Wood, Pine Beauty at Seabrook.



A further four butterfly species were noted in March: Comma at Seabrook on the 19<sup>th</sup>, Small Copper at Cheriton on the 25<sup>th</sup>, Small White at several sites on the 30<sup>th</sup> and Green-veined White at Seabrook on the 30<sup>th</sup>.

Several Harbour Porpoises were noted offshore and up to five Hares were present on the marsh.



Dotted Chestnut at the Aldergate Bridge (Brian Harper)

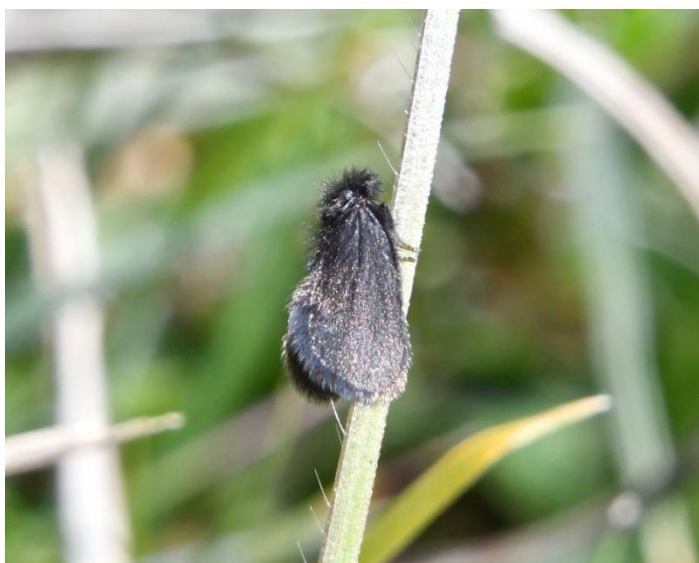


Yellow Horned at Folks' Wood (Brian Harper)

## April

April was particularly cold, dry and sunny and unusually the mean temperature was lower than March. Daytime temperatures did recover from the middle of the month but it remained cold overnight.

Only seven species of micro moth were added to the year list but these included the second area record of ***Epichnopterix plumella*** (Round-winged Bagworm). Sightings of four at Castle Hill on the 20<sup>th</sup>, two there on the 23<sup>rd</sup> and one at Folkestone Warren on the 27<sup>th</sup> though suggest that it is an under-recorded resident. Other additions of note were *Caloptilia falconipennella* (Scarce Alder Slender) at Seabrook on the 1<sup>st</sup> and *Digitivalva pulicariae* (Fleabane Smudge) there on the 19<sup>th</sup>.



*Epichnopterix plumella* at Castle Hill (Alfie Gay)



*Caloptilia falconipennella* at Seabrook (Paul Howe)

There were just 13 additions to the macro moth year list, with Grey Shoulder-Knot and Powdered Quaker at Seabrook on the 3<sup>rd</sup>, Swallow Prominent and Least Black Arches there on the 14<sup>th</sup>, Common Heath at Cherry Garden Hill on the 18<sup>th</sup>, the Mullein at Seabrook on the 19<sup>th</sup>, Iron Prominent and Pale Prominent there on the 20<sup>th</sup>, Small Purple-barred at Folkestone Warren on the 27<sup>th</sup>, Lesser Swallow Prominent at Seabrook on the 28<sup>th</sup> and Pebble Prominent there on the 29<sup>th</sup> being the most noteworthy.



The Mullein at Seabrook (Paul Howe)

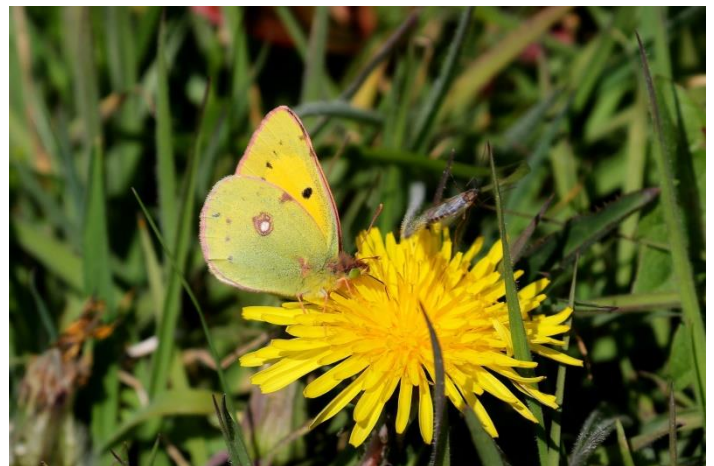


Lesser Swallow Prominent at Seabrook (Paul Howe)

Eight species of butterfly were added to the year list, most from mid-month when daytime temperatures improved: Orange-tip at Botolph's Bridge on the 9<sup>th</sup>, Green Hairstreak at Cheriton Hill on the 15<sup>th</sup>, Speckled Wood at Round Hill on the 16<sup>th</sup>, Dingy Skipper at Folkestone Downs on the 17<sup>th</sup>, Large White at Seabrook on the 18<sup>th</sup>, Clouded Yellow at Samphire Hoe and Wall at Round Hill on the 24<sup>th</sup>, and Small Heath at Round Hill on the 27<sup>th</sup>. Further Clouded Yellows were noted at Folkestone Warren and Samphire Hoe (2) on the 27<sup>th</sup>.



Green Hairstreak at Folkestone Warren (Tony Poole)



Clouded Yellow at Samphire Hoe (Phil Smith)

An Italian Wall Lizard was noted at the colony at Little Switzerland in Folkestone Warren, up to four Harbour Porpoises continued to be seen offshore and several Hares were present on the marsh.





Italian Wall Lizard at Folkestone Warren (Steve Coates)



Hare at Romney Marsh (Brian Harper)

## May

The first week of May was unsettled and unseasonably cold, after which it became a little milder but due to a series of deep low pressure systems the frequent, often heavy, rain continued and there were a number of particularly windy days. Conditions settled in the final few days of the month, when it also became warmer. Overall it was the coldest May for 25 years and the fifth wettest in 150 years.

Consequently it was a poor month for moths but there were still some interesting sightings, with the highlights being the first area record of *Dichrorampha sedatana* (Dingy Drill) at Abbotscliffe on the 29<sup>th</sup>, the second area record of *Ypsolopha mucronella* (Spindle Smudge) at Saltwood on the 13<sup>th</sup> (following one at Cheriton in April 2019) and the ninth area record of **Beautiful Marbled** at West Hythe on the 26<sup>th</sup>. This latter species has now been recorded in four consecutive years, following the first in 2018. Also of significant note was a Gypsy Moth larva reported at Cheriton on the 9<sup>th</sup>, the first local breeding record since the nineteenth century, although perhaps not unexpected after the record arrival last year.



*Dichrorampha sedatana* at Abbotscliffe (Ian Roberts)



*Ypsolopha mucronella* at Saltwood (Colin Dunster)

Regular migrant species were scarce, with just one *Udea ferrugalis* (Rusty-dot Pearl) at Seabrook on the 9<sup>th</sup>, single Dark Sword-grasses at Saltwood on the 13<sup>th</sup> and 14<sup>th</sup> and a handful of Silver Ys and *Plutella xylostella* (Diamond-back Moths).



Just 36 further species of micro moth were added to the year list, 19 of those noted in the last week of the month, and included *Callisto denticulella* (Garden Apple Slender) at Seabrook on the 2<sup>nd</sup>, *Phtheochroa rugosana* (Rough-winged Conch) at Seabrook, *Ethmia bipunctella* (Bordered Ermel) at Hythe, and *Agonopterix ocellana* (Red-letter Flat-body) and *Acleris logiana* (Grey Birch Button) at Saltwood on the 10<sup>th</sup>, and *Agonopterix purpurea* (Small Purple Flat-body) at Hythe, and *Aethes smeathmanniana* (Yarrow Conch) at Nickolls Quarry and Seabrook on the 31<sup>st</sup>. Early stages included *Coleophora pennella* (Bugloss Case-bearer) at Abbotscliffe on the 11<sup>th</sup> and *Eriocrania sangii* (Large Birch Purple) at the American Garden on the 16<sup>th</sup>.



Beautiful Marbled at West Hythe (Brian Harper)



*Aethes smeathmanniana* at Seabrook (Paul Howe)



*Callisto denticulella* at Seabrook (Paul Howe)



*Coleophora pennella* at Abbotscliffe (Leonard Cooper)

There were 79 further additions to the macro moth year list, with half of these occurring in the final week of May. Of note were Dew Moth at Abbotscliffe on the 1<sup>st</sup>, Toadflax Brocade at Seabrook on the 10<sup>th</sup>, Mother Shipton at Cherry Garden Hill on the 11<sup>th</sup>, Chocolate-tip at Saltwood on the 14<sup>th</sup>, Yellow Belle at Samphire Hoe on the 15<sup>th</sup>, Light Feathered Rustic at Hythe on the 16<sup>th</sup>, Puss Moth at Horn Street on the 22<sup>nd</sup>, Sallow Kitten at Seabrook on the 28<sup>th</sup>, the Four-spotted at Hythe Roughs on the 29<sup>th</sup>, Chamomile Shark at Seabrook and Grey Birch at Brockhill Country Park on the 30<sup>th</sup> and the Seraphim and Obscure Wainscot at Nickolls Quarry on the 31<sup>st</sup>.

There was a marked arrival of Painted Ladies from the 9<sup>th</sup>, when the first was noted at Botolph's Bridge, and "literally hundreds" were reported at Abbotscliffe on the 11<sup>th</sup>.

A further seven butterfly species were added to the year list: Common Blue at Cherry Garden Hill on the 6<sup>th</sup>, Red Admiral at Hythe on the 7<sup>th</sup>, Holly Blue at Hythe on the 9<sup>th</sup>, Brown Argus at Cherry Garden Hill on the 11<sup>th</sup>, Adonis Blue at Round Hill on the 13<sup>th</sup> and Small Blue at Samphire Hoe and Meadow Brown at Seabrook on the 18<sup>th</sup>.



Mother Shipton at Cherry Garden Hill (Tony Poole)



Chamomile Shark at Seabrook (Paul Howe)



Painted Lady at Folkestone Downs (Tony Poole)



Adonis Blue at Folkestone Warren (Alfie Gay)

## June

The first half of the month was predominantly warm and dry, especially at the start, but it became less settled during the second half, with fluctuating temperatures and numerous episodes of rain or heavy showers, some of these thundery. Overall the rainfall total was more than double the mean for June.

June produced five further additions to the area moth list, with three ***Eulia ministrana*** (Brassy Tortrix) at Heane Wood on the 1<sup>st</sup> and another at Saltwood the following night, a **Flame Wainscot** at Samphire Hoe on the 3<sup>rd</sup>, a ***Crassa tinctella*** (Tinted Tubic) and a ***Monochroa tenebrella*** (Common Plain Neb) at Heane Wood on the 9<sup>th</sup> and a ***Pammene suspectana*** (Ash-bark Piercer) at West Hythe on the 15<sup>th</sup>.

Also of particular note were the first modern area records of **Scarce Merveille du Jour** trapped at Folkestone on the 15<sup>th</sup> and **Current Clearwing** found on the food-plant by day in a garden in Cheriton on the 26<sup>th</sup>, whilst a ***Glyphipterix thrasonella*** (Speckled Fanner) at Seabrook on the 28<sup>th</sup> was only the third area record.

A **Beautiful Marbled** at Folkestone Warren on the 10<sup>th</sup> was the tenth area record (following one in May and four last year) and single **Portland Ribbon Waves** at Folkestone Warren on the same night and at Seabrook on the 15<sup>th</sup> were the 10<sup>th</sup> and 11<sup>th</sup> area records (following four last year), raising hopes that these species might be close to becoming established locally. A species that seems very likely to be breeding locally now is **Pale-shouldered Cloud**, with one at Seabrook on the 28<sup>th</sup> following nine sightings across the area last year (although there are still only 31 British records).





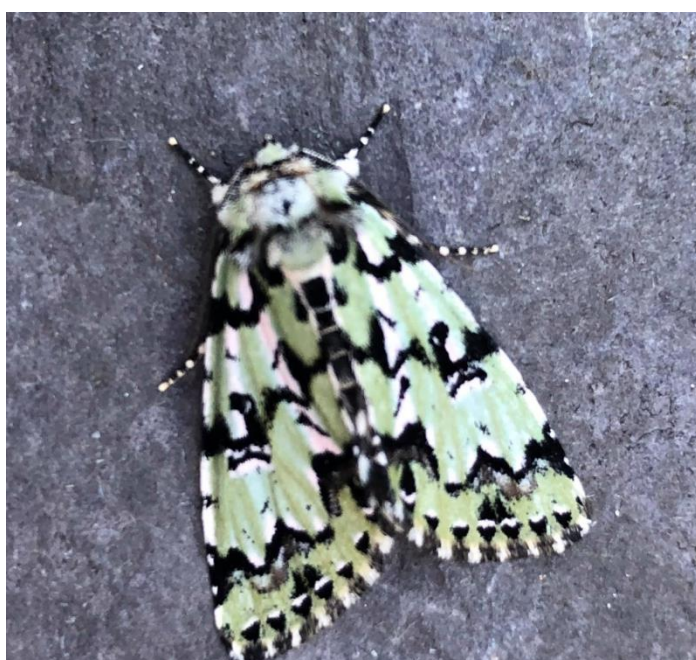
*Eulia ministrana* at Saltwood (Colin Dunster)



*Crassa tinctella* at Heane Wood (Ian Roberts)



Flame Wainscot at Samphire Hoe (Steve Cutt)



Scarce Merveille du Jour at Folkestone (Cathy Hearsey)



Currant Clearwing at Cheriton (David Jenkins)



*Glyphipterix thrasonella* at Seabrook (Paul Howe)



Following the Lace Border record from the grazing area at Folkestone Warren last year, one was seen there by day on the 3<sup>rd</sup> June, with at least two trapped on the 10<sup>th</sup> June. Cryptic Ferns were noted at West Hythe on the 9<sup>th</sup>, Folkestone Warren on the 10<sup>th</sup> and Hythe on the 16<sup>th</sup>, but only one Fern was trapped (at the Warren on the 10<sup>th</sup>).



Cryptic Fern at Folkestone Warren (Ian Roberts)



The Fern at Folkestone Warren (Ian Roberts)

Regular immigrant species included a single *Palpita vitrealis* (Olive-tree Pearl) at Seabrook on the 2<sup>nd</sup>, 2 Hummingbird Hawk-moths at Abbotscliffe on the 26<sup>th</sup>, four Dark Sword-grass, six Delicates, 11 *Udea ferrugalis* (Rusty-dot Pearls), 87 Silver Ys and 273 *Plutella xylostella* (Diamond-back Moths).

A further 154 micro species of micro moth were added to the year list, with the more noteworthy comprising *Cryptoblabes bistriga* (Double-striped Knot-horn) at Heane Wood and *Ancylis laetana* (Aspen Roller), *Cydia strobilella* (Spruce-seed Moth) and *Platyptilia gonodactyla* (Triangle Plume) at Nickolls Quarry on the 1<sup>st</sup>, *Bedellia somnulentella* (Bindweed Bent-wing) at Seabrook on the 4<sup>th</sup>, *Agrotera nemoralis* (Beautiful Pearl) at Kiln Wood on the 6<sup>th</sup>, *Triaxomera fulvimitrella* (Four-spotted Clothes Moth) at Heane Wood on the 9<sup>th</sup>, *Agonopterix pallorella* (Pale Flat-body) and *Epinotia subocellana* (White Sallow Bell) at Folkestone Warren on the 10<sup>th</sup>, *Evergestis extimalis* (Marbled Yellow Pearl) at Seabrook on the 11<sup>th</sup>, *Anania perLucidalis* (Fenland Pearl) at Nickolls Quarry on the 12<sup>th</sup>, *Achroia grisella* (Lesser Wax Moth) at Seabrook and *Olindia schumacherana* (White-barred Twist) and *Pammene albuginana* (Blotched Piercer) at Brockhill Country Park on the 14<sup>th</sup> and *Elegia similella* (White-barred Knot-horn) at Seabrook and *Dichrorampha sequana* (Square-spot Drill) at Botolph's Bridge on the 15<sup>th</sup>.

The second half of the month produced *Elachista gangabella* (Yellow-barred Dwarf) at Seabrook on the 16<sup>th</sup>, *Parectopa ononidis* (Clover Slender) at Samphire Hoe on the 19<sup>th</sup>, *Morophaga choragella* (Large Clothes Moth) at Seabrook on the 23<sup>rd</sup>, *Piniphila bifasciana* (Pine Marble) at Hythe on the 24<sup>th</sup>, *Agapeta zoegana* (Knapweed Conch) at Hythe on the 26<sup>th</sup>, *Elachista freyerella* (Broken-barred Dwarf) at Seabrook on the 27<sup>th</sup>, *Cydalima perspectalis* (Box-tree Moth) at Hythe on the 28<sup>th</sup> and *Capperia britanniodactylus* (Wood Sage Plume) at Seabrook on the 29<sup>th</sup>.



*Cydia strobilella* at Nickolls Quarry (Ian Roberts)



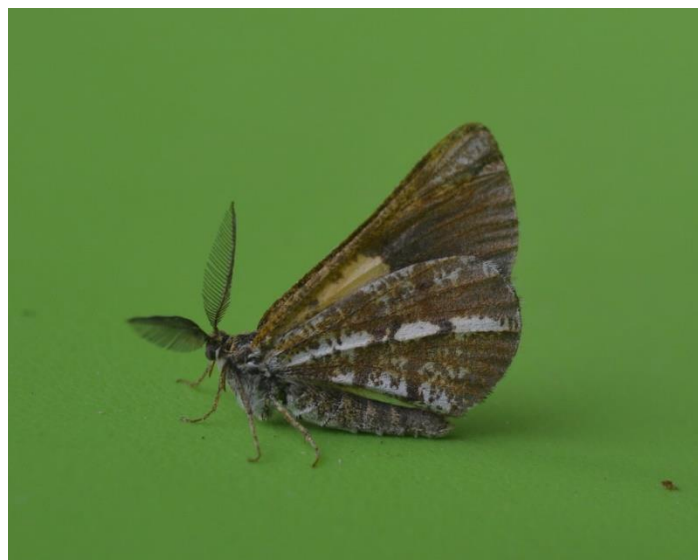
*Elegia similella* at Seabrook (Paul Howe)



A further 134 species were added to the macro moth year list including Dingy Shell, Dusky Hook-tip, Tawny-barred Angle and Birch Mocha at Saltwood on the 1<sup>st</sup>, Ghost Moth and Lunar Thorn at Seabrook, Alder Moth at Saltwood and Cream-spot Tiger and White Spot at Samphire Hoe on the 2<sup>nd</sup>, Channel Islands Pug at Seabrook on the 3<sup>rd</sup>, Clouded Buff at Castle Hill on the 7<sup>th</sup>, Netted Pug at Cheriton on the 8<sup>th</sup>, Large Nutmeg at West Hythe and Barred Red and Red-necked Footman at Heane Wood on the 9<sup>th</sup>, Galium Carpet, Broken-barred Carpet and Buttoned Snout at Folkestone Warren, Clancy's Rustic at Hythe and Small Clouded Brindle at Seabrook on the 10<sup>th</sup>, Cream Wave at Samphire Hoe and Lesser Cream Wave at Seabrook on the 12<sup>th</sup>, Beautiful Golden Y at Seabrook and Small Yellow Wave, Brindled White-spot, Lobster Moth and Marbled Brown at Brockhill Country Park on the 14<sup>th</sup>, Orange-tailed Clearwing at Seabrook on the 15<sup>th</sup>, Fiery Clearwing at Folkestone Warren on the 16<sup>th</sup> and Bordered White at Seabrook on the 26<sup>th</sup>.

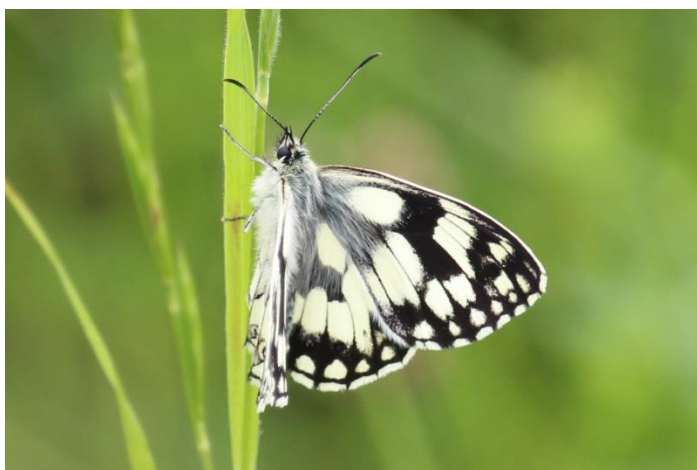


Netted Pug at Seabrook (Paul Howe)



Bordered White at Seabrook (Paul Howe)

Just four butterfly species were added to the year list: Large Skipper at Hythe Roughs on the 13<sup>th</sup>, the Ringlet at Brockhill Country Park on the 17<sup>th</sup>, Marbled White at Folkestone Downs on the 23<sup>rd</sup> and Small Skipper at Folkestone Downs on the 24<sup>th</sup> Jun.



Marbled White at Folkestone Downs (Tony Poole)



Painted Lady at Cheriton (Tony Poole)

Other records of note involved what appears to be only the second vice-county record of Bog Bush-cricket at Samphire Hoe on the 20<sup>th</sup> and a sighting of the recent colonist *Agapanthia cardui* (a long-horn beetle first noted in Britain at Folkestone in 2017) at Thorn Wood on the 19<sup>th</sup>.



## July

The unsettled weather continued into July with unseasonably cool temperatures and frequent spells of rain, many of which were heavy and thundery. However it became much warmer by mid-month, with drier and sunnier conditions, before it became unsettled again during the final week.

Highlights in July included two ***Blastobasis rebeli*** (Marsh Dowd) at Folkestone Warren on the 2<sup>nd</sup> (the third and fourth area, and vice-county records, but with a further six trapped there on the 18<sup>th</sup> suggesting that it is now established), a **Rosy Marbled** at Samphire Hoe on the 3<sup>rd</sup> (the third area record, following the first two last year), a ***Monopis imella*** (Felt Clothes Moth) at Hythe Ranges on the 19<sup>th</sup> (the third area record, following singles at Folkestone Warren in 1976 and Saltwood in 2014), a **Double Kidney** at Hythe on the 28<sup>th</sup> (the third area record, following the second at Seabrook in July last year), a **Splendid Brocade** at Seabrook on the 18<sup>th</sup> (the fifth area record and the first since 2017) and a ***Tebenna micalis*** (Vagrant Twitcher) at Hythe Ranges on the 19<sup>th</sup> (the fifth area, and seventh modern county, following singles at Hythe and Saltwood in 2014, one at Hythe in 2015 and one at Folkestone Warren last year).



*Blastobasis rebeli* at Folkestone Warren (Rob Lee)



*Monopis imella* at Hythe Ranges (Ian Roberts)



Double Kidney at Hythe (Ian Roberts)



Splendid Brocade at Seabrook (Paul Howe)

The first modern area records of **Red-tipped Clearwing** at Sellindge on the 18<sup>th</sup> and **Broom-tip** at Seabrook on the 21<sup>st</sup> were also of considerable note, as were the second **Pale-shouldered Cloud** of the year (at Hythe Ranges on the 19<sup>th</sup>) and an ***Acrobasis tumidana*** (Scarce Oak Knot-horn) at Hythe on the 26<sup>th</sup>.

Regular migrants included a *Palpita vitrealis* (Olive-tree Pearl) at Saltwood on the 12<sup>th</sup>, a Hummingbird Hawk-moth at Stanford North on the 23<sup>rd</sup>, the first Gems of the year at Hythe on the 8<sup>th</sup> and Seabrook on the 9<sup>th</sup> and 27<sup>th</sup>, and single Delicates at Hythe Ranges, Hythe, Seabrook and Folkestone Warren. Totals of 11 Dark Sword-grass, 25 *Udea ferrugalis* (Rusty-dot Pearl), 215 *Plutella xylostella* (Diamond-back Moth) and 435 Silver Y were also logged.



Red-tipped Clearwing at Sellindge (Derek Smith)



Broom-tip at Seabrook (Paul Howe)

A further 141 species were added to the micro moth year list including *Agonopterix liturosa* (Large Purple Flat-body), *Agonopterix angelicella* (Angelica Flat-body), *Thiotricha subocellea* (Eyelet Sober), *Cochylimorpha alternana* (Kentish Conch) and *Cynaeda dentalis* (Starry Pearl) at Folkestone Warren on the 2<sup>nd</sup>, *Coleophora galbulipennella* (Kent Case-bearer) at Hythe and *Carpatolechia fugitivella* (Elm Groundling) at Saltwood on the 8<sup>th</sup>, *Grapholita funebrana* (Plum Fruit Moth) and *Dolicharthria punctalis* (Long-legged China-mark) at Hythe and *Bisigna procerella* (Kent Tubic) at Seabrook on the 9<sup>th</sup>, *Catoptria verellus* (Marbled Grass-veneer) at Aldergate Bridge on the 10<sup>th</sup>, *Anarsia spartiella* (Small Crest) at Seabrook on the 11<sup>th</sup>, *Acrolepiopsis assectella* (Leek Moth) at Saltwood and *Dichrorampha senectana* (Dark Drill) *Stenoptilia zophodactylus* and (Dowdy Plume) at Samphire Hoe on the 13<sup>th</sup>, *Batia lambdella* (New Tawny Tubic) at Seabrook and *Dichomeris marginella* (Juniper Webber) at Saltwood on the 14<sup>th</sup> and *Acrocercops brongniardella* (Brown Oak Slender) at Hythe on the 15<sup>th</sup>.

The second half of the month produced *Stathmopoda pedella* (Alder Signal) at Hythe and *Cnaemidophorus rhododactyla* (Rose Plume), *Moitrelia obductella* (Kent Knot-horn), *Pempeliella ornatella* (Ornate Knot-horn) and *Delplanqueia inscriptella* (Brown Powdered Knot-horn) at Folkestone Warren on the 18<sup>th</sup>, *Parachronistis albiceps* (Wood Groundling) and *Anarsia innoxia* (Acer Sober) at Seabrook and *Gynnidomorpha alismiana* (Water-plantain Conch), *Neafriseria peliella* (White-spot Groundling), *Caryocolum vicinella* (Coast Groundling), *Acleris umbrana* (Dark-streaked Button), *Aethes dilucida* (Short-barred Yellow Conch) and *Anerastia lotella* (Sandhill Knot-horn) at Hythe Ranges on the 19<sup>th</sup>, *Scoparia basistrigalis* (Base-lined Grey) at Seabrook and *Argyresthia retinella* (Netted Argent) at Hythe on the 21<sup>st</sup>, *Epinotia cinerea* (Grey Aspen Bell) at Cheriton on the 22<sup>nd</sup> and *Rhyacionia buoliana* at Saltwood on the 28<sup>th</sup>. *Cydalima perspectalis* (Box Tree Moth) now appears to have become established with a total of 70 recorded.



*Cynaeda dentalis* at Hythe Ranges (Rob Lee)

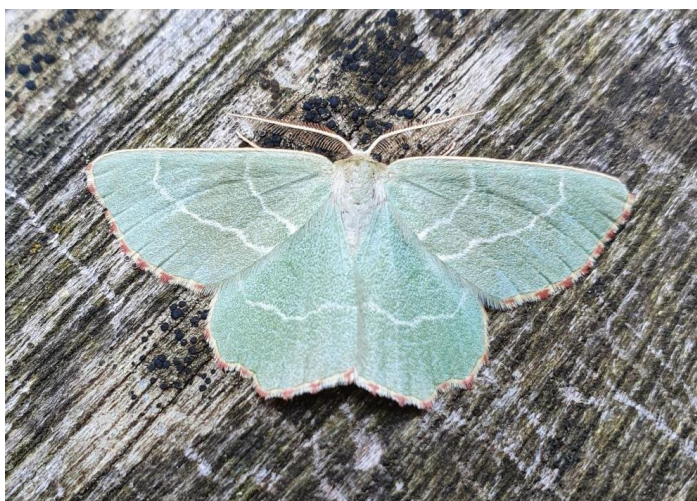


*Bisigna procerella* at Hythe Ranges (Rob Lee)



A further 81 species were added to the macro moth year list including Plumed Fan-foot at Hythe on the 1<sup>st</sup>, Chalk Carpet and Orange Moth at Folkestone Warren on the 2<sup>nd</sup>, Small Ranunculus at Hythe on the 3<sup>rd</sup>, Sussex Emerald and Pigmy Footman at Hythe on the 8<sup>th</sup>, Four-spotted Footman at the Aldergate Bridge on the 10<sup>th</sup>, Slender Brindle at Seabrook on the 11<sup>th</sup>, the Blackneck at Hythe and Larch Pug at Saltwood on the 12<sup>th</sup>, Northern Rustic at Samphire Hoe on the 13<sup>th</sup>, Purple Clay at Seabrook, Yarrow Pug and the Suspected at Saltwood, and Tree-lichen Beauty at Hythe on the 14<sup>th</sup>.

The second half of the month produced Sub-angled Wave, Wood Carpet and Lilac Beauty at Folkestone Warren and Red-belted Clearwing at Sellindge on the 18<sup>th</sup>, Dark Umber at Cheriton and Grass Emerald at Hythe Ranges on the 19<sup>th</sup>, Large Emerald at Seabrook on the 25<sup>th</sup>, Bordered Beauty and Webb's Wainscot at Brockhill on the 26<sup>th</sup>, Large Twin-spot Carpet at Seabrook on the 27<sup>th</sup> and Straw Belle and the Annulet at Cheriton Hill on the 31<sup>st</sup>.



Sussex Emerald at Hythe (Ian Roberts)



The Blackneck at Hythe (Ian Roberts)

A Clouded Yellow flew east at Seabrook on the 16<sup>th</sup> and there were sightings at Folkestone Downs on several dates, with a peak of six on the 17<sup>th</sup>.

Six butterfly species were added to the year list: Silver-washed Fritillary and White Admiral at Folks' Wood on the 5<sup>th</sup>, Gatekeeper at Folkestone Warren on the 16<sup>th</sup>, White-letter Hairstreak and Essex Skipper at Folkestone Downs on the 20<sup>th</sup> and Chalk Hill Blue at Folkestone Warren on the 24<sup>th</sup>. Further sightings away from the traditional sites of White Admiral at Castle Hill on the 13<sup>th</sup> and Silver-washed Fritillary at Brockhill Country Park on the 19<sup>th</sup> were of particular note.



Clouded Yellow at Folkestone Downs (Tony Poole)



Silver-washed Fritillary at Folks' Wood (Tony Poole)

## August

The first half of August was largely unsettled with wet and often windy conditions but the second half was drier and more settled. An anticyclone settled over the continent during the last week the month, introducing a north to north-easterly airflow and often cloudy conditions. Sunshine was rather limited and it was one of the duller Augusts on record.

There were two new species for the area recorded in August: a ***Caloptilia hemidactylella*** (Sycamore Slender) at Seabrook on the 13<sup>th</sup> (which was also the first county record) and a ***Dasycera oliviella*** (Scarce Forest Tubic) at Cheriton the 8<sup>th</sup>.



*Caloptilia hemidactylella* at Seabrook (Paul Howe)



*Dasycera oliviella* at Cheriton (David Jenkins)

Following the first area record at Seabrook last year, **Raspberry Clearwing** now appears to be established there with sightings on nine dates during the month, including an exceptional total of eight on the 25<sup>th</sup>.

Other highlights included the third area (and county) record of ***Zelleria oleastrella*** (Olive Ermel) at Seabrook on the 15<sup>th</sup>, the fifth area records of ***Caloptilia honoratella*** (Pale Maple Slender) at Hythe on the 15<sup>th</sup> and **Porter's Rustic** at Saltwood on the 22<sup>nd</sup>, and the sixth area record (following one in July) of ***Tebenna micalis*** (Vagrant Twitcher) at Seabrook on the 28<sup>th</sup>.



Raspberry Clearwings at Seabrook (Paul Howe)



*Zelleria oleastrella* at Seabrook (Paul Howe)

A **Beautiful Marbled** at Seabrook on the 24<sup>th</sup> was the 11<sup>th</sup> area record (following singles in May and June), a **Portland Ribbon Wave** at Folkestone Warren on the 28<sup>th</sup> was the 12<sup>th</sup> area record (following two in June). Following the sightings in June and July a further four **Pale-shouldered Clouds** were noted in August: at Cheriton on the 18<sup>th</sup> and at Hythe on three dates. Single ***Acrobasis tumidana*** (Scarce Oak Knot-horn) were taken at Hythe on the 22<sup>nd</sup> and 25<sup>th</sup>, and Seabrook on the 31<sup>st</sup>.





*Caloptilia honoratella* at Hythe(Ian Roberts)



*Tebenna micalis* at Seabrook (Paul Howe)

A Bordered Straw was trapped at Hythe on the 11<sup>th</sup> and a Latticed Heath was taken at Seabrook on the 24<sup>th</sup>, whilst there were totals of up to 51 Gypsy Moths and 59 *Cydia amplana* (Vagrant Piercer) recorded. Regular migrants included one Delicate, two Hummingbird Hawk-moths, three *Palpita vitrealis* (Olive-tree Pearl), four *Nomophila noctuella* (Rush Veneer), six Gems, seven Dark Sword-grass, 37 *Plutella xylostella* (Diamond-back Moth), 103 *Udea ferrugalis* (Rusty-dot Pearls) and over 150 Silver Ys.



Latticed Heath at Seabrook (Paul Howe)



*Cydia amplana* at Hythe (Ian Roberts)

Following a series of late summer records last year, a total of eight *Lobesia reliquana* (Oak Marble) were noted in August (three at Hythe and five at Seabrook). This species is considered as being univoltine in Britain (flying in May to June), so perhaps these originated from a second brood further south in Europe.

A further 40 species were added to the micro moth year list including *Agonopterix rotundella* (Rolling Carrot Flat-body) and *Merrifieldia baliodactylus* (Dingy White Plume) at Samphire Hoe on the 11<sup>th</sup>, *Plodia interpunctella* (Indian Meal Moth) at Folkestone on the 17<sup>th</sup>, *Caryocolum marmorea* (Beautiful Groundling) at Hythe on the 18<sup>th</sup>, *Calybites phasianipennella* (Little Slender) at Brockhill Country Park and *Ptocheuusa paupella* (Light Fleabane Neb), *Mirificarma mulinella* (Gorse Groundling) and *Clavigesta purdeyi* (Pine Leaf-mining Moth) at Seabrook on the 25<sup>th</sup>, *Bucculatrix albedinella* (Elm Bent-wing) and *Elachista canapennella* (Little Dwarf) at Seabrook on the 28<sup>th</sup>, *Bactra robustana* (Saltern Marble) at Seabrook on the 29<sup>th</sup> and *Celypha rufana* (Lakes Marble) at Seabrook on the 30<sup>th</sup>.

A further 29 species were added to the macro moth year list including Hoary Footman at Seabrook on the 1<sup>st</sup>, Yellow-legged Clearwing at Seabrook on the 3<sup>rd</sup>, Reed Dagger at Seabrook on the 10<sup>th</sup>, White-banded Carpet at Seabrook on the 15<sup>th</sup>, August Thorn at Seabrook on the 17<sup>th</sup>, Scalloped Hook-tip at Brockhill on the 25<sup>th</sup>, Flame Carpet and Lesser-spotted Pinion at Seabrook and Small Scallop and Gold Spot at Aldergate Bridge on the 26<sup>th</sup>, and Red Underwing at Hythe on the 29<sup>th</sup>.



Gem at Cheriton (Brian Harper)



*Lobesia reliquana* at Seabrook (Paul Howe)



*Bactra robustana* at Seabrook (Paul Howe)



*Celypha rufana* at Seabrook (Paul Howe)



Yellow-legged Clearwing at Seabrook (Paul Howe)



White-banded Carpet at Seabrook (Paul Howe)

The only addition to the butterfly year list was a Silver-spotted Skipper seen at Cheriton Hill on the 12<sup>th</sup> but single Silver-washed Fritillaries at Folks' Wood and Seabrook on the 5<sup>th</sup> and at Folkestone Warren on the 23<sup>rd</sup>, Chalk Hill Blues at Cheriton Hill, Round Hill and Folkestone Warren on various dates and a peak count of seven Brimstones at Cherry Garden Hill on the 11<sup>th</sup> were also of note. Small numbers of Painted Ladies were noted at several localities.





Silver-spotted Skipper at Cheriton Hill (Alfie Gay)



Chalk Hill Blue at Folkestone Downs (Tony Poole)

A Giant Lacewing trapped at Seabrook on the 19<sup>th</sup> was also of note.



Brimstone at Cherry Garden Hill (Tony Poole)



Giant Lacewing at Seabrook (Paul Howe)

## September

Much of September was fine and settled, with dry, relatively warm conditions although it became markedly cooler and wetter from the 27<sup>th</sup>.

Two species of moth were added to the area list in September: a ***Cnephasia pumicana*** (Cereal Tortrix) at Seabrook on the 1<sup>st</sup> and a ***Depressaria pulcherrimella*** (Pignut Flatbody) there on the 8<sup>th</sup>.

Other notable sightings included the fourth and fifth modern records of **Clifden Nonpareil** at Saltwood on the 11<sup>th</sup> and the Aldergate Bridge on the 13<sup>th</sup>. This is the fourth consecutive year of occurrence (with others at Beachborough in 2018, Heane Wood in 2019 and Saltwood in 2020), raising hopes that it could be starting to become established locally as part of a pattern of apparent colonisation nationally.

The fifth area record of **Oak Lutestring** as trapped at Hythe on the 11<sup>th</sup> and was the third to be noted in successive years, whilst the sixth area record of ***Caloptilia honoratella*** (Pale Maple Slender) was at Seabrook on the 4<sup>th</sup> and the seventh area record (following singles in July and August) of ***Tebenna micalis*** (Vagrant Twitcher) was at the Aldergate Bridge on the 13<sup>th</sup>.

The sixth to ninth area records of **Porter's Rustic** were trapped at Seabrook on the 11<sup>th</sup>, Samphire Hoe on the 14<sup>th</sup> (two), Seabrook on the 17<sup>th</sup> and Folkestone Warren on the 18<sup>th</sup> (three), whilst the seventh and eight area records of **Dewick's Plusia** were taken at Seabrook on the 11<sup>th</sup> and Folkestone Warren on the 26<sup>th</sup> (two).

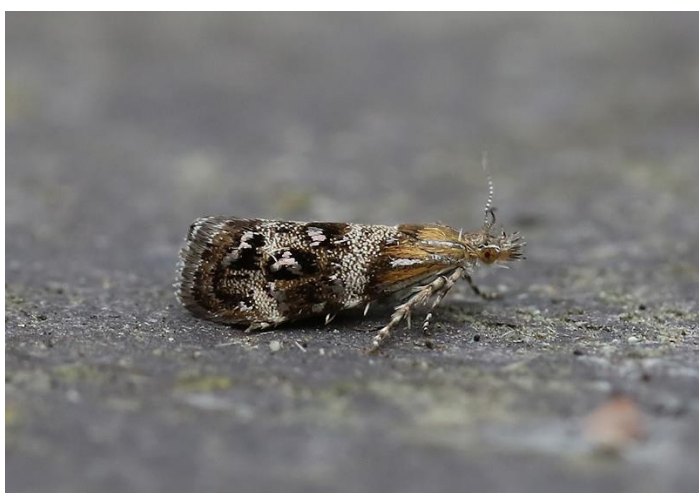




Clifden Nonpareil at the Aldergate Bridge (Brian Harper)



Radford's Flame Shoulder at Seabrook (Paul Howe)



*Tebenna micalis* at the Aldergate Bridge (Brian Harper)



Oak Lutestring at Hythe (Ian Roberts)

The ninth area record of **Radford's Flame Shoulder** was trapped at Seabrook on the 28<sup>th</sup> and followed one in 2019 and seven in 2020, suggesting that it could be becoming established locally. Other potential colonists included the 12<sup>th</sup> to 16<sup>th</sup> area records of **Beautiful Marbled** at Samphire Hoe on the 6<sup>th</sup>, 9<sup>th</sup> (three), 12<sup>th</sup> and 13<sup>th</sup>, and Hythe on the 21<sup>st</sup> (following singles in May, June and August) and the 13<sup>th</sup> to 20<sup>th</sup> area records of **Portland Ribbon Wave** at Hythe on the 4<sup>th</sup>, Hythe, Seabrook and Folkestone Warren (three) on the 6<sup>th</sup>, Samphire Hoe on the 9<sup>th</sup>, 14<sup>th</sup> and 17<sup>th</sup>, and Folkestone Warren on the 18<sup>th</sup> (following two in June and one in August).



Porter's Rustics at Samphire Hoe (Tony Rouse)



Dewick's Plusia at Seabrook (Paul Howe)





Portland Ribbon Wave at Folkestone Warren  
(Ross Newham)

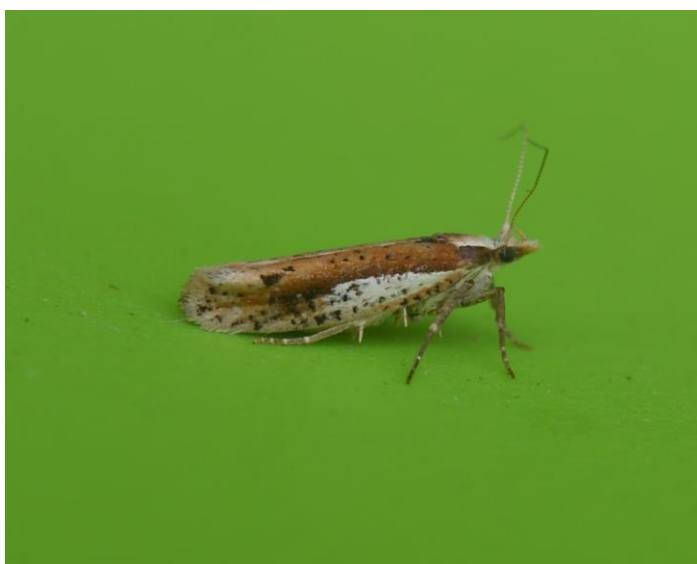


Convolvulus Hawk-moth at Hythe  
(Ian Roberts)

There were single records of Pearly Underwing at Hythe on the 4<sup>th</sup>, the Vestal at Samphire Hoe on the 8<sup>th</sup>, Convolvulus Hawk-moth at Hythe on the 17<sup>th</sup> and the Gem at Hythe on the 20<sup>th</sup>, whilst Scarce Bordered Straws were trapped at Saltwood on the 10<sup>th</sup>, Samphire Hoe on the 14<sup>th</sup> and Hythe on the 14<sup>th</sup> (2), 18<sup>th</sup> (2), 19<sup>th</sup> and 20<sup>th</sup>. Following a good showing in August a further 16 *Cydia amplana* (Vagrant Piercer) and 25 Gypsy Moths were noted.

Regular migrants included three Hummingbird Hawk-moths, eight *Nomophila noctuella* (Rush Veneer), 14 *Plutella xylostella* (Diamond-back Moth), 11 Dark Sword-grass, 13 *Palpita vitrealis* (Olive-tree Pearl), 24 Delicates, 41 *Udea ferrugalis* (Rusty-dot Pearl) (including ten at Folkestone Warren on the 26<sup>th</sup>) and over 300 Silver Ys (including 34 at Seabrook and 46 at Hythe on the 7<sup>th</sup>).

A further 18 species were added to the micro moth year list including *Ancylis badiana* (Common Roller) at Cheriton on the 5<sup>th</sup>, *Phyllonorycter lantanella* (Viburnum Midget) at Seabrook and *Argyresthia bonnetella* (Hawthorn Argent), *Eulamprotes atrella* (Two-spotted Neb) and *Acleris emargana* (Notch Wing Tortrix) at Folkestone Warren on the 6<sup>th</sup>, *Argyresthia semifusca* (Brown Rowan Argent) at Seabrook on the 8<sup>th</sup>, *Catoptria falsella* (Chequered Grass-veneer) at Brockhill Country Park on the 9<sup>th</sup>, *Argyresthia semitestacella* (Large Beech Argent) at Saltwood on the 11<sup>th</sup>, *Ypsolopha parenthesesella* (White-shouldered Smudge) at Seabrook on the 12<sup>th</sup>, *Acleris rhombana* (Rhomboid Tortrix) at Samphire Hoe on the 17<sup>th</sup> and *Ypsolopha sequella* (Pied Smudge) at Folkestone Warren on the 18<sup>th</sup>.



*Ypsolopha parenthesesella* at Seabrook (Paul Howe)



Barred Hook-tip at Folkestone Warren (Ian Roberts)

A further 16 species were added to the macro moth year list including Large Thorn at Folkestone on the 1<sup>st</sup>, Feathered Gothic at Hythe on the 3<sup>rd</sup>, Barred Hook-tip at Folkestone Warren and Brown-veined Wainscot at Aldergate Bridge on the 6<sup>th</sup>, Frosted Orange at Seabrook on the 8<sup>th</sup>, Brown-spot Pinion at Saltwood on the 9<sup>th</sup>, Feathered Brindle at Hythe on the 10<sup>th</sup>, Autumnal Rustic at Saltwood on the 11<sup>th</sup>, the Sallow at Saltwood on the 14<sup>th</sup> and Orange Sallow at Folkestone Warren on the 18<sup>th</sup>.

Clouded Yellows were noted at Hythe Ranges on the 5<sup>th</sup> and 12<sup>th</sup>, Seabrook on the 9<sup>th</sup>, Nickolls Quarry on the 11<sup>th</sup> and Beachborough Park on the 18<sup>th</sup>.

Also of note were a Western Conifer Seed Bug at Folkestone Warren on the 6<sup>th</sup>, a Dusky Longhorn Beetle at Seabrook on the 7<sup>th</sup> and a Southern Green Shieldbug at Seabrook on the 15<sup>th</sup>.

## October

After an unsettled start to the month it became drier and milder between the 6<sup>th</sup> and 17<sup>th</sup>, before turning unsettled again and the last week saw some heavy and prolonged spells of rain.

Highlights in October included the first modern records of **September Thorn**, singles at Saltwood and Seabrook on the 1<sup>st</sup> October, and Saltwood on the 18<sup>th</sup> (having last been noted locally in 1946). The seventh to ninth area records of ***Caloptilia honoratella*** (Pale Maple Slender) were taken at Seabrook on the 13<sup>th</sup> and 24<sup>th</sup>, and Saltwood on the 30<sup>th</sup>. These followed singles in August and September and suggest that this species is now locally established.

There were 13 sightings of **Radford's Flame Shoulder**, following the ninth area record last month, with one at Saltwood, two at Hythe and ten at Seabrook, and five of Oak Rustic (one at Hythe, two at Saltwood and two at Seabrook), but no repeat of last year's record influx of Golden Twin-spot, with just a single record, at Hythe on the 7<sup>th</sup> October.



September Thorn at Seabrook (Paul Howe)



*Caloptilia honoratella* at Seabrook (Paul Howe)

Regular migrants included a Convolvulus Hawk-moth at Seabrook on the 9<sup>th</sup> October, a Hummingbird Hawk-moth at Folkestone on the 8<sup>th</sup> October, a Pearly Underwing on the 18<sup>th</sup> October, four Scarce Bordered Straws, six *Nomophila noctuella* (Rush Veneer), seven Dark Sword-grass, nine Gems, 11 *Plutella xylostella* (Diamond-back Moth), 23 *Palpita vitrealis* (Olive-tree Pearl), 33 Silver Ys, an exceptional 67 Delicates (including a peak of six at Seabrook on the 18<sup>th</sup>) and 100 *Udea ferrugalis* (Rusty-dot Pearl) (including peaks of ten at Hythe on the 6<sup>th</sup> and Samphire Hoe on the 7<sup>th</sup>).

There were just two additions to the micro moth year list: an *Agonopterix propinquella* (Black-spot Flat-body) at Hythe on the 7<sup>th</sup> and mines of *Parornix fagivora* (Beech Slender) found at Brockhill Country Park on the 23<sup>rd</sup>.





Oak Rustic at Seabrook (Paul Howe)



Merveille du Jour at Cheriton (Brian Harper)

There were 13 further additions to the macro moth year list: Barred Sallow at Saltwood on the 1<sup>st</sup>, Beaded Chestnut at Seabrook on the 1<sup>st</sup>, Dusky-lemon Sallow and Large Ranunculus at Saltwood on the 2<sup>nd</sup>, Blair's Shoulder-knot at Hythe, Merveille du Jour and the Mallow at Cheriton, Yellow-line Quaker at Seabrook on the 7<sup>th</sup>, Green-brindled Crescent at Hythe on the 8<sup>th</sup>, Red-green Carpet at Seabrook on the 10<sup>th</sup>, the Brick at Saltwood on the 13<sup>th</sup> and Red-line Quaker at Seabrook on the 18<sup>th</sup> and November Moth (agg.) at Brockhill Country Park on the 23<sup>rd</sup>.

There were four Clouded Yellows at Cherry Garden Hill on the 9<sup>th</sup>.

## November

Most of November was mild and settled, with winds predominately from the westerly quarter, but the last week was colder and more unsettled.

Highlights in November included another **September Thorn** at Seabrook on the 1<sup>st</sup> (the second modern record) and **The Streak** there on the 6<sup>th</sup> (the fourth modern record).

There was a further record of **Radford's Flame Shoulder**, at Seabrook on the 16<sup>th</sup>, and four more Oak Rustics (at Seabrook on the 7<sup>th</sup>, Saltwood on the 13<sup>th</sup>, Hythe on the 18<sup>th</sup> and Seabrook on the 29<sup>th</sup>).



The Streak at Seabrook (Paul Howe)



The Sprawler at Cheriton (Brian Harper)

A late Scarce Bordered Straw was trapped at Seabrook on the 18<sup>th</sup>, whilst other migrants comprised one *Nomophila noctuella* (Rush Veneer), two Gems, three Delicates, nine Silver Ys, 15 *Plutella xylostella* (Diamond-back Moth), 20 *Palpita vitrealis* (Olive-tree Pearl) and 40 *Udea ferrugalis* (Rusty-dot Pearl)

The only other additions to the macro moth year list were a December Moth at Seabrook on the 2<sup>nd</sup> and the Sprawler at Cheriton on the 8<sup>th</sup>, whilst leaf-mines of *Ectoedemia erythrogenella* (Coast Bramble Pigmy) at Abbotscliffe on the 8<sup>th</sup> and an *Acleris ferrugana* (Rusty Oak Button) at Seabrook on the 14<sup>th</sup> were new for the micro year list.

A late Clouded Yellow was seen at Underhill, Horn Street on the 21<sup>st</sup> and a Noctule was noted at West Hythe on the 10<sup>th</sup>.

## December

During the early part of the December it was unsettled and chilly, though towards the middle of the month it became more settled and milder. Unsettled conditions returned around Christmas but the last few days of the year were again milder.

The only addition to the moth year lists in December was an *Acleris notana* (Rusty Birch Button) at Saltwood on the 19<sup>th</sup> December. A late *Udea ferrugalis* (Rusty-dot Pearl) was trapped at Hythe on the 15<sup>th</sup> December.

## Acknowledgements

I am very grateful to David Shenton for undertaking genitalia determination of *Caloptilia hemidactylella* and to Graeme J. Smith for undertaking genitalia determination of *Dichrorampha sedatana* (Dingy Drill), *Crassa tinctella* (Tinted Tubic) and *Monochroa tenebrella* (Common Plain Neb).

I am also very grateful to all the observers that have contributed records and photographs, particularly Paul Howe, Sean Clancy, Brian Harper, Steve Cutt, Fred Butcher, Tony Rouse, Kevin Button, Colin Dunster, David Jenkins, Alfie Gay and Tony Poole.

## Folkestone and Hythe Moth List

The full list of species recorded at Folkestone and Hythe in 2021 and earlier years is available at:

[www.folkestonebirds.com/moth-list](http://www.folkestonebirds.com/moth-list)



## Summary tables

Migrant micro moths	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2021	2020	2019	2018	2017	2016
<i>Plutella xylostella</i>	0	0	1	0	13	273	215	37	14	11	15	0	579	314	1,630	1,150	151	14,783
<i>Cydia amplana</i>	0	0	0	0	0	0	0	59	19	0	0	0	78	0	17	15	2	3
<i>Udea ferrugalis</i>	0	0	0	0	1	11	25	103	41	100	40	1	322	279	230	23	183	231
<i>Palpita vitrealis</i>	0	0	0	0	0	1	1	3	13	23	20	0	61	107	21	65	44	18
<i>Nomophila noctuella</i>	0	0	0	0	0	0	0	4	8	6	1	0	19	36	24	24	81	614
Total	0	0	1	0	14	285	241	206	95	140	76	1	1,059	776	1,943	1,304	472	15,684

Figure 1: Regular migrant micro moths in the Folkestone and Hythe area in 2021

Migrant macro moths	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2021	2020	2019	2018	2017	2016
Convolvulus Hawk-moth	0	0	0	0	0	0	0	0	1	1	0	0	2	4	10	5	1	33
Hummingbird Hawk-moth	0	0	1	0	0	2	1	2	3	1	0	0	10	44	22	5	17	8
The Vestal	0	0	0	0	0	0	0	0	1	0	0	0	1	4	2	7	20	6
The Gem	0	0	0	0	0	0	3	6	1	9	2	0	21	2	2	6	2	5
Golden Twin-spot	0	0	0	0	0	0	0	0	0	1	0	0	1	86	27	6	1	0
Silver Y	0	0	0	0	6	87	435	152	309	33	9	0	1,031	944	534	1,097	318	665
Bordered Straw	0	0	0	0	0	0	0	1	0	0	0	0	1	1	3	1	3	3
Scarce Bordered Straw	0	0	0	0	0	0	0	0	8	4	1	0	13	11	30	5	101	10
Small Mottled Willow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	4
The Delicate	0	0	0	0	0	6	4	1	24	67	3	0	105	36	77	59	37	8
White-speck	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	5
Pearly Underwing	0	0	0	0	0	0	0	0	1	1	0	0	2	4	6	3	20	11
Dark Sword-grass	0	0	0	0	2	4	11	7	11	7	0	0	42	41	26	76	84	77
Total	0	0	1	0	8	99	454	169	359	124	12	0	1,229	1,191	819	1,553	751	844

Figure 2: Regular migrant macro moths in the Folkestone and Hythe area in 2021

Total species	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	Total area list
Micro	439	519	571	480	475	325	337	309	290	256	220	776
Macro	462	459	478	461	453	399	418	388	371	338	321	633
Total	901	978	1,049	941	928	724	755	697	661	594	541	1,409

Figure 3: Total moth species recorded in the Folkestone and Hythe area in 2021

First butterfly dates	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Swallowtail	-	30-May	-	-	-	-	-	24-Apr	-	-
Dingy Skipper	17-Apr	24-Apr	16-Apr	01-May	08-Apr	19-Apr	21-Apr	01-Apr	26-May	30-Apr
Grizzled Skipper	-	-	30-May	-	-	-	-	-	-	-
Essex Skipper	20-Jul	29-Jul	13-Jul	26-Jun	27-Jun	-	07-Jul	28-Jul	16-Jul	-
Small Skipper	24-Jun	14-Jun	11-Jul	22-Jun	17-Jun	28-Jun	25-Jun	21-Jun	22-Jul	03-Jul
Silver-spotted Skipper	12-Aug	-	15-Aug	06-Aug	15-Aug	15-Aug	-	-	02-Sep	17-Aug
Large Skipper	13-Jun	27-May	01-Jun	06-Jun	29-May	27-May	05-Jun	20-May	25-Jun	19-Jun
Orange Tip	09-Apr	26-Mar	01-Apr	16-Apr	30-Mar	02-May	13-Apr	05-Apr	28-Apr	13-May
Large White	18-Apr	05-Apr	27-Mar	18-Apr	05-Apr	12-Apr	13-Apr	08-Apr	03-May	22-Mar
Small White	30-Mar	06-Mar	23-Feb	10-Apr	24-Mar	15-Mar	17-Mar	08-Mar	03-May	24-Mar
Green-veined White	30-Mar	07-Apr	24-Mar	06-Apr	31-Mar	28-Apr	07-Apr	11-Apr	07-May	22-Mar
Clouded Yellow	24-Apr	20-Jul	18-Mar	17-Apr	19-Apr	11-Apr	28-Apr	11-Apr	25-Jun	-
Brimstone	26-Feb	27-Mar	23-Feb	14-Mar	25-Mar	25-Mar	17-Mar	09-Mar	14-Apr	Spring
Wall	24-Apr	22-Apr	16-Apr	01-May	11-Apr	28-Apr	24-Apr	17-Apr	12-May	30-Apr
Speckled Wood	16-Apr	06-Apr	10-Apr	20-Apr	05-Apr	08-Apr	10-Apr	01-Apr	05-May	28-Mar
Small Heath	27-Apr	23-Apr	03-May	15-May	07-Apr	07-May	13-May	22-Apr	26-May	12-May
Ringlet	17-Jun	22-Jun	11-Jul	23-Jun	17-Jun	04-Jul	29-Jun	15-Jun	06-Aug	26-Jun
Meadow Brown	18-May	30-May	30-May	17-Jun	10-Jun	26-May	20-Jun	12-Jun	13-Jul	20-Jun
Gatekeeper	16-Jul	21-Jul	11-Jul	10-Jul	04-Jul	08-Jun	07-Jul	28-Jun	15-Jul	24-Jul
Marbled White	23-Jun	04-Jun	17-Jun	17-Jun	16-Jun	03-Jul	25-Jun	06-Jun	22-Jul	26-Jun
Grayling	-	17-Aug	-	08-Aug	-	-	-	10-Aug	10-Aug	11-Aug
Silver-washed Fritillary	05-Jul	24-Jun	17-Jul	22-Jun	16-Jun	20-Jul	11-Jul	-	-	-
Dark Green Fritillary	-	-	-	-	09-Jun	-	-	07-Jul	-	-
White Admiral	05-Jul	24-Jun	-	22-Jun	17-Jun	03-Jul	11-Jul	-	-	-
Red Admiral	07-May	04-Feb	01-Jan	25-May	11-Apr	08-May	04-Mar	16-Mar	05-May	11-Jan
Painted Lady	09-May	23-Apr	11-Jun	16-Apr	02-Apr	04-Jun	02-Apr	08-Jun	28-Apr	24-May
Peacock	20-Feb	08-Feb	23-Feb	11-Jan	14-Feb	13-Mar	01-Jan	04-Mar	14-Mar	24-Feb
Small Tortoiseshell	20-Feb	10-Jan	25-Feb	14-Mar	09-Jan	11-Mar	27-Feb	02-Jan	06-Mar	01-Mar
Comma	19-Mar	24-Mar	23-Feb	06-Apr	09-Mar	25-Jan	17-Mar	05-Mar	05-Mar	01-Mar
Small Copper	25-Mar	06-Apr	26-Mar	04-May	02-Apr	11-Apr	27-Apr	03-Jul	01-May	22-May
Purple Hairstreak	-	-	-	23-Jun	-	-	-	-	-	17-Aug
Green Hairstreak	15-Apr	11-Apr	16-Apr	19-Apr	11-Apr	28-Apr	04-May	11-Apr	16-May	29-May
White-letter Hairstreak	20-Jul	-	25-Jun	23-Jul	14-Jun	15-Jul	03-Jul	-	12-Aug	-
Long-tailed Blue	-	14-Sep	15-Aug	-	-	-	-	-	-	-
Small Blue	18-May	17-May	18-May	13-May	11-May	17-May	25-May	17-May	15-Jun	28-May
Holly Blue	09-May	04-Apr	18-Apr	20-Apr	30-Mar	18-Apr	09-Apr	13-Apr	03-May	29-Mar
Brown Argus	11-May	31-May	06-May	25-May	13-Jul	17-Aug	-	18-May	01-Sep	05-Jun
Common Blue	06-May	24-Apr	18-May	15-May	11-May	06-May	13-May	05-May	05-May	22-May
Adonis Blue	13-May	26-Apr	01-May	08-May	27-Apr	17-May	08-May	13-May	18-Jun	23-May
Chalk Hill Blue	24-Jul	29-Jul	26-Jul	23-Jul	01-Aug	01-Aug	11-Sep	-	27-Jul	09-Aug

Figure 4: First dates for butterflies at Folkestone and Hythe in 2021