# Review of 2015 non-avian records in the Folkestone and Hythe area



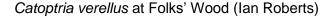
### **Moths**

# Migrant micro moths

The micro moth highlights of the year included the second area record of the adventive *Cydalima perspectalis* (Boxworm Moth) at Folkestone on the 28<sup>th</sup> July (following the first at Saltwood last year), the third record of *Tebenna micalis* (Vagrant Twitcher) at Hythe on the 11<sup>th</sup> July (following the first at Hythe and Saltwood last year), and the second to fifth modern area records of *Catoptria verellus* (Marbled Grass-veneer) at Hythe on the 6<sup>th</sup> July, West Hythe (two) on the 13<sup>th</sup> July, Folks' Wood (two) on the 18<sup>th</sup> July and West Hythe on the 23<sup>rd</sup> July (following the first modern record at Saltwood last year and three nineteenth century records from Folkestone).

Other significant records involved the scarce immigrant pyralids *Uresiphita gilvata* (Yellow-underwing Pearl) at Saltwood on the 11<sup>th</sup> November, *Acrobasis tumidana* (Scarce Oak Knot-horn) at Saltwood on the 12<sup>th</sup> August and *Sciota adelphella* (Willow Knot-horn) at Hythe on the 4<sup>th</sup> July.







Catoptria verellus at Hythe (Ian Roberts)



Acrobasis tumidana at Saltwood (Paul Howe)



Sciota adelphella at Hythe (Ian Roberts)

It was an excellent year for some of the more regular immigrant micro moths, with a record total of up to 58 *Palpita vitrealis* (Olive-tree Pearl), the majority of which were at Hythe in November. This tally no doubt involved some duplication but included a peak count of five on the 7<sup>th</sup> November and new arrivals to as late as the 29<sup>th</sup> November. *Nomophila noctuella* (Rush Veneer) were also recorded in good numbers (287), which was a significant increase on a poor previous year. The main arrival occurred between mid-July and late September, with peak counts of 14 (10 at Saltwood and 4 at Hythe) on the 27<sup>th</sup> August and 16 (9 at Hythe and 7 at Saltwood) on the 18<sup>th</sup> September.

Ostrinia nubilalis (European Corn-borer) also saw an increase on last year, with 11 trapped between the 30<sup>th</sup> June and the 3<sup>rd</sup> August, all singles apart from four at Saltwood on the 14<sup>th</sup> July. *Udea ferrugalis* (Rusty-dot Pearl) were present in reasonable numbers (98), though with a considerable reduction on last year. There were records between the 3<sup>rd</sup> July and the 22<sup>nd</sup> December, typically ones and twos but with a peak of eight (4 at both Hythe and Saltwood) on the 29<sup>th</sup> August. The total of 263 *Plutella xylostella* (Diamond-back Moth) however was significantly lower than either of the previous two years and the peak counts were just 17 (12 at Hythe and 5 at Saltwood) on the 12<sup>th</sup> June and 14 (13 at Saltwood and 1 at Hythe) on the 23<sup>rd</sup> July.





Palpita vitrealis at Hythe (Ian Roberts)

Nomophila noctuella at Hythe (Ian Roberts)

It was another good year for *Evergestis limbata* (Dark Bordered Pearl), with 41 trapped between the 25<sup>th</sup> May and the 7<sup>th</sup> September, and it is almost certainly now established locally.

The totals for the year of the regular immigrant micros are shown in figure 1:

										1	1	
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015	2014	2013
Plutella xylostella	17	2	71	89	60	9	12	3		263	1716	796
Ostrinia nubilalis			1	9	1					11	3	2
Udea ferrugalis				13	28	18	5	22	12	98	296	15
Palpita vitrealis					1	4	1	52		58	38	16
Nomophila noctuella		2	10	42	125	77	7	24		287	4	111
Evergestis limbata		1	9	23	5	3				41	49	19
Total	17	5	91	176	220	111	25	101	12	758	2106	959

Figure 1: Regular migrant micro moths in the Folkestone and Hythe area in 2015 (no records of migrants in Jan - Mar)

# Resident micro moths

Records of note amongst the resident micros included single *Eriocrania subpurpurella* (Common Oak Purple) at Saltwood on the 12<sup>th</sup> and 14<sup>th</sup> April, *Stigmella betulicola* (Common Birch Pigmy) there on the 12<sup>th</sup> June and *Opostega salaciella* (Sorrel Bent-wing) there on the 8<sup>th</sup> July. There were singles of *Incurvaria masculella* (Feathered Bright) at Seabrook on the 2<sup>nd</sup> May and of *Incurvaria oehlmanniella* (Common Bright) at Hythe on the 4<sup>th</sup> July.

A *Nematopogon swammerdamella* (Large Long-horn) was at Saltwood on the 15th May, whilst single *Morophaga choragella* (Large Clothes Moth) were trapped there on the 28<sup>th</sup> July and 2<sup>nd</sup> August, and *Psychoides filicivora* (Fern Smut) were again recorded at Hythe (in May/June) and Saltwood (in November). Single *Tinea semifulvella* (Fulvous Clothes Moth) were recorded at Folkestone Warren on the 10<sup>th</sup> July, Saltwood on the 15<sup>th</sup> July and Hythe on the 28<sup>th</sup> September.

A *Bucculatrix ulmella* (Oak Bent-wing) was at Saltwood on the 30<sup>th</sup> August, with *Caloptilia cuculipennella* (Feathered Slender) at Hythe on the 18<sup>th</sup> July and Saltwood on the 21<sup>st</sup> and 22<sup>nd</sup> July, *Caloptilia betulicola* (Red Birch Slender) at Saltwood on the 26<sup>th</sup> July and *Caloptilia rufipennella* (Small Red Slender) at Hythe on the 15<sup>th</sup> August.

Singles of *Caloptilia alchimiella* (Yellow-triangle Slender) and *Caloptilia robustella* (New Oak Slender) were taken at Saltwood on the 4<sup>th</sup> June and 21<sup>st</sup> August respectively, whilst *Caloptilia semifascia* (Maple Slender) were noted there on the 20<sup>th</sup> July and 30<sup>th</sup> August. There records of both the first generation of *Aspilapteryx tringipennella* (Ribwort Slender), at Saltwood on the 22<sup>nd</sup> May, and the second, at Hythe in late August.

A *Callisto denticulella* (Garden Apple Slender) was trapped at Saltwood on the 13<sup>th</sup> June, whilst this site also produced *Phyllonorycter leucographella* (Firethorn Leaf Miner) on the 30<sup>th</sup> September and *Phyllonorycter coryli* (Nut Leaf Blister Moth) on the 9<sup>th</sup> August, and a *Phyllocnistis xenia* (Kent Bent-wing) was at Hythe on the 10<sup>th</sup> July. *Tinagma ocnerostomella* was discovered on the food-plant Viper's Bugloss at Folkestone Warren on the 25<sup>th</sup> June.

Notable among the *Argyresthia* were singles of *A. pygmaeella* (Sallow Argent) at Hythe on the 2<sup>nd</sup> July and Saltwood on the 11<sup>th</sup> July, *A. retinella* (Netted Argent) at Saltwood on the 14<sup>th</sup> July, *A. bonnetella* (Hawthorn Argent) at Saltwood on the 1<sup>st</sup> August and *A. albistria* (Purple Argent) there on the 18<sup>th</sup> July. Saltwood also produced an *Yponomeuta plumbella* (Black-tipped Ermine) on the 6<sup>th</sup> August and an *Yponomeuta sedella* (Grey Ermine) on the 21<sup>st</sup> July.

As predicted in last year's report, *Prays ruficeps* (Dark Ash Bud Moth), which was only added to the area list in 2014 (having recently been recognised as a distinct species from *Prays fraxinella*) does appear to be relatively common locally, with records from Saltwood (9), Hythe (2) and Folks' Wood between July and September.

Single *Ypsolopha dentella* (Honeysuckle Moth) were recorded at Saltwood on five nights in August, whilst there were *Ypsolopha scabrella* (Wainscot Smudge) there on the 13<sup>th</sup> and 19<sup>th</sup> August. Two *Ypsolopha parenthesella* (White-shouldered Smudge) were trapped at Folks' Wood on the 11<sup>th</sup> September and single *Ypsolopha ustella* (Variable Smudge) were at Saltwood on the 24<sup>th</sup> February and 9<sup>th</sup> October.

Singles of *Eidophasia messingiella* (Bitter-cress Smudge) were taken at Hythe on the 20<sup>th</sup> and 25<sup>th</sup> June, whilst *Digitivalva pulicariae* (Fleabane Smudge) were recorded at Hythe on the 30<sup>th</sup> July and Saltwood on the 31<sup>st</sup> August, and an *Acrolepia autumnitella* (Bittersweet Smudge) was at Hythe on the 15<sup>th</sup> April. Of interest within the *Coleophoridae* that could be identified were *C. albitarsella* (White-legged Case-bearer) at Saltwood on the 17<sup>th</sup> June and Hythe on the 10<sup>th</sup> July, *C. kuehnella* (White Oak Case-bearer) at Saltwood on the 12<sup>th</sup> June and at least four *C. galbulipennella* (Kent Case-bearer) at Hythe in the second half of July – presumably wanderers from the population at Hythe Ranges.





Eidophasia messingiella at Hythe (Ian Roberts)

Coleophora galbulipennella at Hythe (Ian Roberts)

Single *Bisigna procerella* (Kent Tubic) were taken at Saltwood on three dates in July and at West Hythe on the 13<sup>th</sup> (two) and 15<sup>th</sup> July, whilst there were *Batia lambdella* (Greater Tawny Tubic) at Hythe on the 9<sup>th</sup> and 17<sup>th</sup> July (2). *Metalampra italica* (Italian Tubic) continues to increase locally with 53 at Saltwood and 9 at Hythe between the 26<sup>th</sup> June and the 9<sup>th</sup> September and another adventive species, *Tachystola acroxantha* (Ruddy Streak) was recorded at Hythe on eight dates between the 26<sup>th</sup> May and 26<sup>th</sup> August. A single *Borkhausenia fuscescens* (Small Dingy Tubic) was trapped at Saltwood on the 20<sup>th</sup> July.

There were two *Depressaria daucella* (Dingy Flat-body) at Hythe on the 6<sup>th</sup> March, with two at Saltwood on the 9<sup>th</sup> March. Noteworthy amongst the *Agonopterix* were an *A. alstromeriana* (Brown-spot Flat-body) at Hythe on the 9<sup>th</sup> March, two *A. scopariella* (Broom Flat-body) at Saltwood on the 15<sup>th</sup> April, two *A. conterminella* (Sallow Flat-body) at Saltwood on the 13<sup>th</sup> July, three *A. heracliana* (Common Flat-body) in July and a total of five *A. subpropinquella* (Ruddy Flat-body).

Ethmia terminella (Five-spot Ermel) were recorded from Fisherman's Beach, Hythe and Folkestone Warren in June/July, whilst Ethmia bipunctella (Bordered Ermel) were recorded from Hythe, Saltwood and Folkestone Warren between the 14<sup>th</sup> May and the 31<sup>st</sup> August and an Ethmia quadrillella (Comfrey Ermel) was at West Hythe on the 5<sup>th</sup> August.





Bisigna procerella at Saltwood (Paul Howe)

Ethmia bipunctella at Hythe (Ian Roberts)

A single *Metzneria lappella* (Burdock Neb) was trapped at Saltwood on the 4<sup>th</sup> August whilst at least three *Metzneria aestivella* (Carline Neb) were trapped at Folkestone Warren on the 10th July. A single *Eulamprotes unicolorella* (Unmarked Neb) was taken at Saltwood on the 25<sup>th</sup> April, as were a *Carpatolechia decorella* (Winter Oak Groundling) on the 9<sup>th</sup> April and a *Neofriseria peliella* (White-spot Groundling) on the 20<sup>th</sup> July. A *Caryocolum vicinella* (Coast Groundling) at Hythe on the 30th July was also of note, and July also produced singles of *Anarsia spartiella* (Small Crest) at Saltwood on the 3<sup>rd</sup>, *Dichomeris alacella* (Lichen Sober) at Saltwood on the 18<sup>th</sup> and *Dichomeris marginella* (Juniper Webber) at Hythe on 21<sup>st</sup>.







Caryocolum vicinella at Hythe (Ian Roberts)

Notable Tortrix moths included single *Phtheochroa inopiana* (Plain Conch) at Folkestone Warren on the 1<sup>st</sup> and 10<sup>th</sup> July, a rather worn *Phtheochroa rugosana* (Rough-winged Conch) there on the latter date and a *Cochylimorpha alternana* (Kentish Conch) at Abbotscliffe on the 21<sup>st</sup> August. *Cochylimorpha straminea* (Straw Conch) were recorded Saltwood in June and at Hythe in August.

An *Agapeta zoegana* (Knapweed Conch) was trapped at Abbotscliffe on the 21<sup>st</sup> August, an *Aethes tesserana* (Downland Conch) was found in Folkestone Warren on the 25<sup>th</sup> June and an *Aethes hartmanniana* (Scabious Conch) was found at Abbotscliffe on the 8<sup>th</sup> May, whilst single *Aethes rubigana* (Burdock Conch) were at Folks' Wood on the 18<sup>th</sup> July and Saltwood on the 3<sup>rd</sup> August.



Phtheochroa rugosana at F. Warren (Ian Roberts)

Agapeta zoegana at Abbotscliffe (Ian Roberts)

A *Cochylidia rupicola* (Hemp-agrimony Conch) was trapped at Folkestone Warren on the 1st July and a *Cochylis nana* (Birch Conch) was at Saltwood on the 17<sup>th</sup> June. *Cacoecimorpha pronubana* (Carnation Tortrix) were recorded from Abbotscliffe, Capel-le-Ferne and Hythe, whilst *Syndemis musculana* (Darkbarred Twist) were at Saltwood on the 26<sup>th</sup> May and 22<sup>nd</sup> August and an *Aphelia viburnana* (Bilberry Tortrix) was at Saltwood on the 3<sup>rd</sup> July.

An *Olindia schumacherana* (White-barred Twist) was taken at Bargrove Wood on the 18<sup>th</sup> June, whilst a *Cnephasia longana* (Long-winged Shade) was at Saltwood on the 12<sup>th</sup> June. This latter site also produced a *Tortricodes alternella* (Winter Shade) on the 28<sup>th</sup> February and four *Spatalistis bifasciana* (Small Purple Button) on the 1<sup>st</sup> July, when an *Acleris bergmanniana* (Yellow Rose Button) was at Folkestone Warren. The Warren also provided two *Acleris holmiana* (White-triangle Button) on the 10<sup>th</sup> July and an *Acleris laterana* (Dark-triangle Button) was at Saltwood on the 17<sup>th</sup> August, with single *Acleris notana* (Rusty Birch Button) there on the 11<sup>th</sup> March and 14<sup>th</sup> December.

Acleris kochiella (Elm Button) was recorded at Saltwood on the 11<sup>th</sup> and 16<sup>th</sup> July, and there was an interesting run of records of Acleris umbrana (Dark-streaked Button), with two at West Hythe on the 13<sup>th</sup> July, and singles at Hythe and Saltwood on the 16<sup>th</sup> July, Folks' Wood on the 18<sup>th</sup> July, and Saltwood on the 20<sup>th</sup> and 29<sup>th</sup> July. These may have related to immigrant moths as they represented the first records for the sites involved and there were other occurrences on the south coast around the same time. Three Acleris cristana (Tufted Button) were trapped at Saltwood (two in March and one in September), with a single Acleris literana (Lichen Button) there on the 16<sup>th</sup> March and an Acleris emargana (Notch Wing Tortrix) at Folks' Wood on the 11<sup>th</sup> September.



Acleris umbrana at Hythe (Ian Roberts)

Celypha rosaceana (Roseate Marble) was recorded from Hythe on the 11<sup>th</sup> July and Saltwood on two dates in August and there were singles of *Hedya ochroleucana* (Buff-tipped Marble) and *Hedya salicella* (Whitebacked Marble) at Saltwood on the 17<sup>th</sup> June and the 13<sup>th</sup> July respectively. An *Apotomis betuletana* (Birch Marble) was taken at Saltwood on the 18<sup>th</sup> June, with another at Folks' Wood on the 11<sup>th</sup> September. Saltwood also provided captures of *Endothenia gentianaeana* (Teasel Marble) on the 15<sup>th</sup> June, *Endothenia nigricostana* (Black-edged Marble) on the 3<sup>rd</sup> July and *Lobesia abscisana* (Smoky-barred Marble) on the 12<sup>th</sup> and 20<sup>th</sup> July, with another at Hythe on the 21<sup>st</sup> July. A *Bactra lancealana* (Rush Marble) was trapped at Saltwood on the 8<sup>th</sup> August.

Single *Epinotia nisella* (Grey Poplar Bell) were taken at Saltwood on the 18<sup>th</sup> and 31<sup>st</sup> August, with an *Epinotia solandriana* (Variable Bell) at Hythe on the 23<sup>rd</sup> July, whilst there were *Crocidosema plebejana* (Southern Bell) at Abbotscliffe on the 21<sup>st</sup> August and at Hythe the following night. The *Gypsonoma* genus was represented by a *G. aceriana* (Rosy Cloaked Shoot) at Hythe on the 23<sup>rd</sup> July, single *G. sociana* (White Cloaked Shoot) at Saltwood on the 25<sup>th</sup> June and Hythe on the 11<sup>th</sup> July and records of *G. dealbana* (Common Cloaked Shoot) at Saltwood on the 20th June and 20<sup>th</sup> July.

Notocelia trimaculana (Triple-blotched Bell) were trapped at Bargrove Wood and Saltwood on the 18<sup>th</sup> June, with two further singles at the latter site in June, Notocelia rosaecolana (Common Rose Bell) were at Hythe on the 12<sup>th</sup> and 16<sup>th</sup> July, an Notocelia roborana (Summer Rose Bell) was at Saltwood on the 19<sup>th</sup> June and Epiblema foenella (White-foot Bell) were at Folkestone Warren on the 1<sup>st</sup> July, Hythe on the 21<sup>st</sup> July and Abbotscliffe on the 21<sup>st</sup> August, with an Epiblema costipunctana (Ragwort Bell) at Saltwood on the 26<sup>th</sup> June.

Six Eucosma campoliliana (Marbled Bell) were taken at Abbotscliffe on the 21<sup>st</sup> August and a single Eucosma hohenwartiana (Bright Bell) was trapped at Saltwood on the 18<sup>th</sup> August, with an Eucosma obumbratana (Two-coloured Bell) at the latter site on the 11<sup>th</sup> August. Other noteworthy Tortrix included a Spilonota laricana (Larch-bud Moth) at Saltwood on the 2<sup>nd</sup> July, a Rhyacionia pinicolana (Orange-spotted Shoot) there on the 18<sup>th</sup> July, single Enarmonia formosana (Cherry-bark Moth) there on three dates, a Selania leplastriana (Cabbage Piercer) at Hythe on the 4<sup>th</sup> July, Lathronympha strigana (Red Piercer) at Saltwood on the 16<sup>th</sup> June and the 11<sup>th</sup> August, Cydia microgrammana (Rest-harrow Piercer) at Folkestone Warren on the 25<sup>th</sup> June and Strophedra weirana (Little Beech Piercer) at Saltwood on the 1<sup>st</sup> July.





N. trimaculana at Bargrove Wood (Ian Roberts)

Selania leplastriana at Hythe (Ian Roberts)

A *Pammene albuginana* (Blotched Piercer) was trapped at Bargrove Wood on the 18<sup>th</sup> June, with *Pammene regiana* (Regal Piercer) at Saltwood on the 12<sup>th</sup> and 16<sup>th</sup> July, a *Grapholita funebrana* (Plum Fruit Moth) at Saltwood on the 3<sup>rd</sup> July, a *Cydia nigricana* (Pea Moth) at Botolph's Bridge on the 14<sup>th</sup> June and *Cydia fagiglandana* (Large Beech Piercer) at Saltwood on the 17<sup>th</sup> June and Hythe on the 21<sup>st</sup> July.

A single *Cydia coniferana* (Pine-bark Piercer) was trapped at Hythe on the 1<sup>st</sup> July, a *Pammene aurana* (Orange-spot Piercer) was found at Botolph's Bridge on the 13<sup>th</sup> June, three *Dichrorampha alpinana* (Broad-blotch Drill) were Hythe on the 30<sup>th</sup> June and on two dates in July and a *Dichrorampha plumbana* (Lead-coloured Drill) was at Saltwood on the 25<sup>th</sup> and 26<sup>th</sup> May.

Notable among the Plume moths were a single *Crombrugghia distans* (Breckland Plume) at Hythe on the 23<sup>rd</sup> July, a total of eight *Marasmarcha lunaedactyla* (Crescent Plume) from Folkestone Warren, Hythe and Saltwood in July, four *Stenoptilia pterodactyla* (Brown Plume) at Saltwood (3 in July, 1 in August), a *Merrifieldia baliodactylus* (Dingy White Plume) at Abbotscliffe on the 21<sup>st</sup> August and four *Pterophorus pentadactyla* (White Plume) at Saltwood between the 10<sup>th</sup> June and the 9<sup>th</sup> August.

Single *Chilo phragmitella* (Reed Veneer) were trapped at Saltwood on the 17<sup>th</sup> June and on four dates in July, whilst *Calamotropha paludella* (Bulrush Wainscot) was recorded at Hythe on three dates in July and at Saltwood on the 27<sup>th</sup> July and an *Agriphila latistria* (White-streak Grass-veneer) was taken at Samphire Hoe on the 10<sup>th</sup> September.



P. albuginana at Bargrove Wood (Ian Roberts)



Pammene aurana at Botolph's Bridge (Brian Harper)



Crombrugghia distans at Hythe (Ian Roberts)



M. baliodactylus at Abbotscliffe (Ian Roberts)

A total of five *Catoptria pinella* (Pearl Grass-veneer) were recorded from Folkestone Warren and Hythe in July, with singles of *Catoptria falsella* (Chequered Grass-veneer) and *Pediasia contaminella* (Waste Grass-veneer) at the latter site on the 23<sup>rd</sup> and 21<sup>st</sup> August respectively. Hythe also produced at least two *Platytes alpinella* (Hook-tipped Grass Veneer) in July/August and up to 13 *Platytes cerussella* (Little Grass-veneer) in June, with two at Fisherman's Beach on the 12<sup>th</sup> June.



Pediasia contaminella at Hythe (Ian Roberts)



Platytes alpinella at Hythe (Ian Roberts)

A single *Eudonia lacustrata* (Little Grey) was trapped at Saltwood on the 24<sup>th</sup> June and there were up to five *Evergestis pallidata* (Chequered Pearl) there in July/August. A total of up to eight *Cynaeda dentalis* (Starry Pearl) were recorded at Hythe in July/August, with a further three at Abbotscliffe on the 21<sup>st</sup> August.

A *Paratalanta pandalis* (Bordered Pearl) at Saltwood on the 4<sup>th</sup> July was a very good record and *Anania lancealis* (Long-winged Pearl) were trapped at there on the 3<sup>rd</sup> July and Folks' Wood on the 18<sup>th</sup> July. On the 3<sup>rd</sup> July singles of *Phlyctaenia perlucidalis* (Fenland Pearl) and *Anania crocealis* (Ochreous Pearl) were taken at Saltwood, with another of the latter species there on the 16<sup>th</sup> July.

Two *Udea prunalis* (Dusky Pearl) were recorded at Hythe in July, with one at Saltwood in August, and up to nine *Dolicharthria punctalis* (Long-legged China-mark) at Hythe in June/July. The only *Aglossa pinguinalis* (Large Tabby) was at Saltwood on the 14<sup>th</sup> July, whilst up to six *Galleria mellonella* (Wax Moth) were recorded there in July/August, with two at Hythe in the latter month.

Other notable pyralids included an *Anerastia lotella* (Sandhill Knot-horn) at Hythe on the 21<sup>st</sup> July, single *Cryptoblabes bistriga* (Double-striped Knot-horn) at Saltwood on the 11<sup>th</sup> June and the 21<sup>st</sup> August, an *Acrobasis repandana* (Warted Knot-horn) at Folks' Wood on the 18<sup>th</sup> July, with two further records from Saltwood on the 23<sup>rd</sup> July and the 10<sup>th</sup> August, three *Acrobasis consociella* (Broad-barred Knot-horn) at Saltwood in July/August and an *Acrobasis suavella* (Thicket Knot-horn) at Folkestone Warren on the 10th July, with two at Saltwood in August.





Cynaeda dentalis at Hythe (Ian Roberts)

Anerastia lotella at Hythe (Ian Roberts)

Single *Pempelia genistella* (Gorse Knot-horn) were trapped at Saltwood on the 20<sup>th</sup> July and Hythe on the 23<sup>rd</sup> July, with two *Moitrelia obductella* (Kent Knot-horn) at Abbotscliffe on the 21<sup>st</sup> August and a *Sciota hostilis* (Scarce Aspen Knot-horn) at Saltwood on the 13<sup>th</sup> July. Single *Dioryctria abietella* (Dark Pine Knothorn) were at Saltwood on the 12th June and the 3<sup>rd</sup> August, with *Dioryctria schuetzeella* (Spruce Knothorn) there on the 10<sup>th</sup> July and *Dioryctria sylvestrella* (New Pine Knot-horn) there on the 6<sup>th</sup> July.

A *Pempeliella ornatella* (Ornate Knot-horn) was taken at Folkestone Warren on the 10<sup>th</sup> July, with an *Ancylosis oblitella* (Saltmarsh Knot-horn) there on the 1<sup>st</sup> July and a *Vitula biviella* (Pine-blossom Knot-horn) at Saltwood on the 25<sup>th</sup> July..



Moitrelia obductella at Abbotscliffe (Ian Roberts)



Pempeliella ornatella at Abbotscliffe (Ian Roberts)

# Immigrant macro moths

The macro moth highlights of this vintage year included the second area record of **Dusky Marbled Brown** at Saltwood on the 1<sup>st</sup> July (following the first at the same site last year) and the sixth and seventh area records of **Pale-Shouldered Cloud** at Hythe on the 26<sup>th</sup> June and Saltwood on the 10<sup>th</sup> July. The former was only the fourth modern British record (all of which have come from South-east Kent since 2003), and the latter were the 13<sup>th</sup> and 14<sup>th</sup> British records – half of these have now occurred locally (five in the last three years), suggesting that it might be established in the local area.





Dusky Marbled Brown at Saltwood (Paul Howe)

Pale-Shouldered Cloud at Hythe (Ian Roberts)

Whilst not quite as rare in a national context, occurrences of **Small Marbled** at Saltwood on the 12<sup>th</sup> July, **Porter's Rustic** at Hythe on the 28<sup>th</sup> August, **Red-headed Chestnut** (of the form *glabra*) at Hythe on the 3<sup>rd</sup> November and **Sombre Brocade** at Hythe on the 3<sup>rd</sup> October all appear to be the first local records, whilst the latter was the first county record.







Porter's Rustic at Hythe (Ian Roberts)

An **Olive Crescent** at Folks' Wood on the 18<sup>th</sup> July also appears to be a new species for the area, though whether it originated as an immigrant or from an undiscovered population is not yet known. There were five records of **Dusky Hook-tip** – three at Saltwood in August, one at Hythe on the 28<sup>th</sup> August and one at Folks' Wood on the 11<sup>th</sup> September – which suggests that this otherwise rare immigrant may now be locally established, with 15 area records (all but one of which has been trapped in the last four years).

Other rare migrants included a **Dewick's Plusia** at Saltwood on the 11<sup>th</sup> May, a **Striped Hawk-moth** at Hythe on the 5<sup>th</sup> June, a **Golden Twin-spot** at Hythe on the 8<sup>th</sup> September and single **Ni Moths** at Saltwood on the 12<sup>th</sup> and 16<sup>th</sup> June, and Hythe on the 14<sup>th</sup> June.



Sombre Brocade at Hythe (Ian Roberts)



Red-headed Chestnut at Hythe (Ian Roberts)



Olive Crescent at Folks' Wood (Ian Roberts)



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



Dewick's Plusia at Saltwood (Paul Howe)



Striped Hawk-moth at Hythe (Ian Roberts)





Ni Moth at Hythe (Ian Roberts)

Golden Twin-spot at Hythe (Ian Roberts)

Similarly to last year there was a notable influx of **Red-necked Footman** into southern England but in 2015 it was on a much more spectacular scale, with two at both Hythe and Saltwood on the 30<sup>th</sup> June being followed by a total of at least 40 (2 at Hythe, 7 at Saltwood and **31+** at Folkestone Warren) on the 1<sup>st</sup> July, one at Saltwood the next night, seven at Saltwood on the 3<sup>rd</sup> July and one at Folkestone Warren on the 10<sup>th</sup> July. For the second year running a rather pale Latticed Heath was trapped well away from the usual haunts at Hythe (on the 11<sup>th</sup> May), and may also have been an immigrant.

Some of the more regular migrants were recorded in exceptional numbers, including record influxes of **Bordered Straw**, **Scarce Bordered Straw** and **Small Mottled Willow**. The annual and monthly totals of these and other immigrants are shown in figure 2:

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015	2014	2013
Convolvulus H-m.			1			1				2	2	7
Humming-bird H-m.			3	3	7	2				15	11	7
The Vestal					55	15				70	1	4
The Gem					2		3	4		9	6	4
Four-spot. Footman			1	5	1					7	7	12
Silver Y		12	53	403	127	75	31	32	17	750	373	862
Bordered Straw		4	33	5	17	4				63	0	0
Sc. Bordered Straw				3	9	17	8	2		39	5	12
Tree-lichen Beauty					5					5	12	6
Sm. Mottled Willow			11	15	13	3				42	0	0
The Delicate				1		4	3			8	3	1
Pearly Underwing			1		4	21	5	5	3	39	16	1
Dark Sword-grass		1		9	18	22	14	13		77	84	243
Total		18	111	500	258	164	64	56	20	1126	520	1159

Figure 2: Regular migrant macro moths in the Folkestone and Hythe area in 2015 (no records of migrants in Jan - Mar)

The first **Bordered Straw** was trapped at Hythe on the 16<sup>th</sup> May, with one at Saltwood the following night and two at Hythe on the 27<sup>th</sup> May, preceding widespread records in June, with occurrences at Hythe Roughs, Hythe, Saltwood, Seabrook, Folkestone Warren, Abbotscliffe and Samphire Hoe, including a count of four at Hythe on the 13<sup>th</sup> June. Relatively few were noted in July but there was another wave of sightings in August, including several darker, presumably locally-bred individuals, with a few stragglers into September and the last at Hythe on the 19<sup>th</sup>.

Three **Scarce Bordered Straws** were noted at Hythe in July, from the 11<sup>th</sup>, with three at Hythe and six at Saltwood in late August, five at Saltwood and up to 12 at Hythe in September (including four at the latter site on the 12<sup>th</sup>), one at Saltwood and seven at Hythe in October and two at Saltwood in November, with the last on the 8<sup>th</sup>.

**Small Mottled Willows** were recorded between the 5<sup>th</sup> June and the 25<sup>th</sup> September, with up to 15 at Hythe and up to 27 at Saltwood, including a remarkable four at the latter site on the 12<sup>th</sup> September.



Bordered Straw (pale) at Hythe (Ian Roberts)



Bordered Straw (dark) at Hythe (Ian Roberts)



Scarce Bordered Straws at Hythe (Ian Roberts)



Small Mottled Willow at Hythe (Ian Roberts)



Red-necked Footman at Hythe (Ian Roberts)

There were only two records of **Convolvulus Hawk-moth**, but the first at Seabrook on the 26<sup>th</sup> June was particularly early, whilst the other at Saltwood on the 24<sup>th</sup> September was more typical. There were single **Hummingbird Hawk-moths** at Saltwood on the 10<sup>th</sup> June, Seabrook on the 12<sup>th</sup> June and Saltwood again on the 29<sup>th</sup> June, before three were seen at Folks' Wood on the 11<sup>th</sup> July. The seven in August included singles at four sites on the 30<sup>th</sup>, and two were noted in September, at Samphire Hoe on the 6<sup>th</sup> and Hythe on the 7<sup>th</sup>.



Convolvulus Hawk-m. at Seabrook (Chris Turnbull)

Hummingbird Hawk-m. at Redoubt (Brian Harper)



Hummingbird Hawk-moth at Samphire Hoe (Phil Smith)

There was an exceptional arrival of **Vestal** in late August with two at Seabrook, two at Saltwood and four at Hythe on the 29<sup>th</sup>, three at Saltwood and a record **17** at Hythe on the 30<sup>th</sup>, and one near the Hythe Redoubt, 11 at Saltwood and 15 at Hythe (day total of **27**) on the 31<sup>st</sup>. Smaller numbers were noted in September to the 20<sup>th</sup>. After single **Gem** at Saltwood on the 13<sup>th</sup> and 30<sup>th</sup> August, there was a small arrival in late October/early November, with one at Saltwood and up to five at Hythe, including two on the 27<sup>th</sup> October.





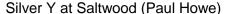
Vestal at Hythe (Ian Roberts)

Gem at Hythe (Ian Roberts)

**Four-spotted Footman** were recorded from Saltwood on the 28<sup>th</sup> June, Folkestone Warren on the 1<sup>st</sup> July, Seabrook on the 10<sup>th</sup> July and Saltwood on three dates in July and on the 5<sup>th</sup> August, whilst there were five occurrences of **Tree-lichen Beauty**, all in August, at Saltwood on the 10<sup>th</sup>, 19<sup>th</sup> and 21<sup>st</sup>, and at Hythe on the 16<sup>th</sup> (2). The **Delicate** was noted on eight occasions; at Saltwood on the 26<sup>th</sup> July, on two dates in September and on three dates in October, and at Hythe on two dates in September.

After a single Pearly Underwing at Saltwood on the 16<sup>th</sup> June, decent numbers were recorded from late August, with ones and twos on 32 dates until the last on the 17<sup>th</sup> December (a particularly late occurrence). Dark Sword-grass was one of the few migrants to appear in fewer numbers than last year, with a single at Saltwood on the 12<sup>th</sup> May preceding regular records from the 12<sup>th</sup> July to the 13<sup>th</sup> November. Again records related to ones and twos, apart from three at Hythe on the 16<sup>th</sup> August and Saltwood on the 1<sup>st</sup> September.







Dark Sword-grass at Hythe (Ian Roberts)

Silver Ys were noted in decent numbers from the 11<sup>th</sup> May, with a notable immigration in mid-July, including 39 on the 13<sup>th</sup> (six at Hythe and 33 at Saltwood) and 68 on the 15<sup>th</sup> (12 at Saltwood and 56 at Hythe). Records were unusually protracted with new arrivals noted as late as the 22<sup>nd</sup> December.

## Resident macro moths

There were single records of Ghost Moth from Bargrove Wood on the 18<sup>th</sup> June and Seabrook on the 24<sup>th</sup> June, whilst a male Gold Swift was trapped at the former site on the same date and two Narrow-bordered Five-spot Burnets were found at Abbotscliffe on the 25<sup>th</sup> June. Three Six-belted Clearwings were located at Hythe Ranges on the 11<sup>th</sup> July, whilst two Fiery Clearwings were noted in Folkestone Warren on the 25<sup>th</sup> June. A single Fox Moth was taken at Samphire Hoe on the 12<sup>th</sup> June and a Scalloped Hook-tip was at Saltwood on the 9<sup>th</sup>-10<sup>th</sup> August.

A Satin Lutestring was at Seabrook on the 14<sup>th</sup> June, with single Poplar and Common Lutestring at Bargrove Wood on the 18<sup>th</sup> June, and a Common and five Satin Lutestrings at Folks' Wood on the 19<sup>th</sup> July. A Rest Harrow was found by day in Folkestone Warren on the 25<sup>th</sup> June, with three attracted to light there on the 1<sup>st</sup> July. Single Grass Emeralds were trapped at Hythe on the 22<sup>nd</sup> June and the 2<sup>nd</sup> July, whilst there were up to nine Large Emeralds at Saltwood between mid-July and early August, with four at Folks' Wood on the 18<sup>th</sup> July.





Six-belted Clearwing at Hythe Ranges (Ian Roberts)

Rest Harrow at Folkestone Warren (Ian Roberts)

Following the exceptional series of records of up to 21 Sussex Emeralds at Hythe last year a search of the food plant was undertaken near Hythe Ranges in early June and a single larva was located. This RDB1 (endangered) species is otherwise only known from Dungeness and Kingsdown. Trapping at Hythe produced an even larger total, with up to 47 noted, including a record peak of six on the 13<sup>th</sup> July, but none were recorded at Saltwood this year.

The Mocha was again recorded from Lympne Park Wood, where one was found on the 13<sup>th</sup> May, and a Clay Triple-lines was taken at Saltwood on the 9<sup>th</sup> May. A single Sub-angled Wave was trapped at Folkestone Warren on the 10<sup>th</sup> July, a Large Twin-spot Carpet was at Folks' Wood on the 18<sup>th</sup> July and five Chalk Carpets were taken at Abbotscliffe on the 21<sup>st</sup> August. Wood Carpets were found at Folkestone Warren on the 1<sup>st</sup> and 10<sup>th</sup> July (2), whilst there were Galium Carpets at Folkestone Warren on the 19<sup>th</sup> June, Hythe on the 28<sup>th</sup> June and Samphire Hoe on the 10<sup>th</sup> September (3).

Single Streamers were at Saltwood on the 15<sup>th</sup>-16<sup>th</sup> April, Hythe on the 24<sup>th</sup> April and Seabrook on the 4<sup>th</sup> May, with the Phoenix at Saltwood on three dates in June/July and four Blue-bordered Carpets (two at Hythe and two at Saltwood) in July.

Two White-banded Carpets were trapped at Seabrook on the 5<sup>th</sup> August, which is the third consecutive year that the species has been recorded from this site, strongly suggesting that is resident in the area.

Scallop Shells were taken at Saltwood on the 26<sup>th</sup> June and Folkestone Warren on the 1<sup>st</sup> July.

A Rivulet was at Saltwood on the 22<sup>nd</sup> May, with Small Rivulets at Saltwood on the 13<sup>th</sup> July and Hythe on the 17<sup>th</sup> July and singles of Sandy Carpet at Saltwood on the 24<sup>th</sup> May and the 1<sup>st</sup> July.

Notable amongst the pugs were a Triple-spotted Pug at Saltwood on the 12<sup>th</sup> June, Grey Pugs at Saltwood on the 3<sup>rd</sup> and 17<sup>th</sup> June, and Folkestone Warren on the 19<sup>th</sup> June, a Plain Pug at Hythe on the 30<sup>th</sup> July, an Ochreous Pug at Saltwood on the 23<sup>rd</sup> May, Ash/Angle-barred Pugs at Saltwood on the 8<sup>th</sup> June and the 10<sup>th</sup> August, Larch Pugs at Saltwood on the 17<sup>th</sup> June and the 29<sup>th</sup> July and a Sloe Pug there on the 27<sup>th</sup> June.



Sussex Emerald near Hythe Ranges (Ian Roberts)



Mocha at Lympne Park Wood (Ian Roberts)



Sub-angled Wave at Folk. Warren (lan Roberts)



Galium Carpet at Folk. Warren (Ross Newham)



Streamer at Seabrook (Ade Jupp)

Single Dingy Shells were recorded at Folkestone Warren on the 1<sup>st</sup> July and Saltwood on the 13<sup>th</sup> July, and a Waved Carpet was taken at Folks' Wood on the 18<sup>th</sup> July, whilst a White Spot was attracted to light at Folkestone Warren on the 19<sup>th</sup> June. A Lilac Beauty was trapped at Saltwood on the 4<sup>th</sup> July with a Large Thorn there on the 1<sup>st</sup> October, and single Lunar Thorns there on four dates in late July/early August.

Scalloped Hazels were taken at Saltwood on the 8<sup>th</sup> and 21<sup>st</sup> May, and the 10<sup>th</sup> June and Orange Moths were again present in good numbers at Folkestone Warren, with three trapped on the 1<sup>st</sup> July and ten on the 10<sup>th</sup> July. A Spring Usher was recorded at Saltwood on the 9<sup>th</sup> February and Scarce Umbers were at Hythe on the 6<sup>th</sup> and 9<sup>th</sup> November, whilst a Brindled White-spot was trapped at Folks' Wood on the 18<sup>th</sup> July and single Bordered Whites were at Saltwood on the 24<sup>th</sup> May and the 1<sup>st</sup> July.

Two Barred Reds were trapped at Saltwood on the 29<sup>th</sup> June, with singles there on three nights in July. An Annulet was attracted to light at Abbotscliffe on the 21<sup>st</sup> August, whilst a Straw Belle was found by day there on the 25<sup>th</sup> June and a Yellow Belle was taken at Hythe on the 5<sup>th</sup> June. It was a good year for Pine Hawk-moth with six noted from the 6<sup>th</sup> July to the 3<sup>rd</sup> August, records being evenly split between Hythe and Saltwood.





Scarce Umber at Hythe (Ian Roberts)

The Annulet at Abbotscliffe (Ian Roberts)

At least two Puss Moths were recorded at Hythe in May/June and a Poplar Kitten was trapped at Saltwood on the 26<sup>th</sup> May, whilst Marbled Browns were at the latter site on the 7<sup>th</sup> May and 24<sup>th</sup> June, and Lunar Marbled Browns were taken there on the 25<sup>th</sup> April and 10<sup>th</sup> May. There were single Chocolate-tips on two dates in May at both Saltwood and Seabrook, with another at the former site on the 13<sup>th</sup> August. Two Black Arches were taken at Folks' Wood on the 18<sup>th</sup> July, with up to nine at Saltwood in August.

Dew Moths were noted at Abbotscliffe between the 8<sup>th</sup> May and the 25<sup>th</sup> June, with a peak of 30 on the 13<sup>th</sup> May. A single Hoary Footman was at Saltwood on the 20<sup>th</sup> July, whilst up to nine Pigmy Footman of the *pallifrons* form were recorded at Hythe in July, with another at Saltwood on the 22<sup>nd</sup> July, and were presumably wanderers from Hythe Ranges. Cream-spot Tigers were again noted at Samphire Hoe, with larvae present in April and a peak of at least nine adults there on the 12<sup>th</sup> June, whilst Clouded Buff were recorded from two sites, with counts of six at Crete Road West on the 20<sup>th</sup> June and three at Folkestone Warren on the 25<sup>th</sup> June. A Water Ermine was at Samphire Hoe on the 12<sup>th</sup> June.

Jersey Tigers continue to increase, with another record year in which up to 114 were recorded (more than double the previous highest total last year) between the 17<sup>th</sup> July and the 10<sup>th</sup> September, and a peak count of 11 at Saltwood on the 21<sup>st</sup> August. Three Kent Black Arches were at Folkestone Warren on the 10<sup>th</sup> July, with singles at Hythe on the 11<sup>th</sup> July, Folks' Wood on the 18<sup>th</sup> July and Saltwood on the 11<sup>th</sup> August.

Single Langmaid's Yellow Underwings were identified at Saltwood on the 21<sup>st</sup> July and the 13<sup>th</sup> August, whilst a Purple Clay was trapped there on the 12<sup>th</sup> July and up to six Green Arches were recorded there in June/July. Red Chestnuts were at Hythe (2) and Saltwood on the 7<sup>th</sup> April, with a further single at both sites in April. Grey Arches were noted in Folkestone Warren on the 1<sup>st</sup> and 10<sup>th</sup> July, whilst single White Colons were taken at Saltwood on the 14<sup>th</sup> June and on two dates in August.

A Beautiful Brocade was trapped at Saltwood on the 10<sup>th</sup> July, with a Broom Moth there on the 30<sup>th</sup> June, whilst at Samphire Hoe singles of Dog's Tooth and Hedge Rustic were recorded on the 10<sup>th</sup> September. A total of seven Small Ranunculus were taken at Hythe between the 10<sup>th</sup> and 30<sup>th</sup> July. A Pine Beauty was at Saltwood on the 2<sup>nd</sup> April, whilst other early spring moths of note there in April included a Lead-coloured Drab on the 14<sup>th</sup>, single Powdered Quakers on the 12<sup>th</sup> and 21<sup>st</sup> and up to four Twin-spotted Quakers.





Dew Moth at Abbotscliffe (Ross Newham)

Clouded Buff at Crete Road West (Ian Roberts)

Two Southern Wainscots were identified at Saltwood on the 2<sup>nd</sup> August, whilst an Obscure Wainscot was trapped there on the 4<sup>th</sup> June as were single Sharks on the 18<sup>th</sup> June and the 10<sup>th</sup> July. A Minor Shoulder-knot was taken at Folks' Wood on the 18<sup>th</sup> July. Up to nine Merveille du Jour were recorded at Saltwood between the 17<sup>th</sup> October and the 2<sup>nd</sup> November, with a single Brindled Green there on the 23<sup>rd</sup> October and a Brown-spot Pinion on the 19<sup>th</sup> September.

A Suspected was recorded at Saltwood on the 19<sup>th</sup> August and there Dusky-lemon Sallows at Saltwood on the 7<sup>th</sup> October and at Hythe the following night, with an Alder Moth at Saltwood on the 12<sup>th</sup> June. Three Svensson's Copper Underwings were identified at Saltwood in August and singles of The Olive were noted from Saltwood on the 23<sup>rd</sup> July, Hythe on the 16<sup>th</sup> August and Saltwood on the 21<sup>st</sup> August, whilst there were Dingy Shears at Saltwood on the 6<sup>th</sup> July and Hythe on the 9<sup>th</sup> July. A Lunar-spotted Pinion was at Saltwood on the 14<sup>th</sup> July.

A Reddish Light Arches was trapped at Saltwood on the 16<sup>th</sup> July, with singles of Clouded-bordered Brindle there on the 15<sup>th</sup> June and at Folkestone Warren on the 1<sup>st</sup> July, and four records of Clouded Brindle at Saltwood in June/July. Saltwood also produced a Confused on the 14<sup>th</sup> July, a Small Clouded Brindle on the 16<sup>th</sup> July and a Small Dotted Buff on the 11<sup>th</sup> June. There were singles of Saltern Ear at Hythe on the 25<sup>th</sup> July and Saltwood on the 11<sup>th</sup> August and three records of Frosted Orange at Saltwood in September/October, with a Bulrush Wainscot there on the 15<sup>th</sup> August.

After two at Samphire Hoe on the 10<sup>th</sup> September there was another notable influx of Large Wainscot from October to mid-November, with up to 54 recorded (11 at Saltwood and 43 at Hythe), and a peak of six (1 at Saltwood and 5 at Hythe) on the 22<sup>nd</sup> October. This species tends to have 'irruption' years with the total for the last five years being 55 (2015), 38 (2014), 6 (2013), 2 (2012) and 61 (2011). Single Fen Wainscots were trapped at Saltwood on three dates in August, with a Small Rufous there on the 31<sup>st</sup> July.

There was an excellent total of up to 19 Clancy's Rustics, which was the best figure since 2006, and no doubt included many primary immigrants (there was just a single record last year and only two in 2013). Records occurred between the 17<sup>th</sup> September and the 22<sup>nd</sup> October, with 5 at Saltwood and 14 at Hythe. A single Cream-bordered Green Pea was taken at Saltwood on the 13<sup>th</sup> July.

Scarce Silver-lines were recorded from Saltwood on four dates in July, with Gold Spots at Hythe on the 21<sup>st</sup> and 28<sup>th</sup> August, Beautiful Golden Ys at Folkestone Warren on the 1<sup>st</sup> July and Saltwood on the 12<sup>th</sup> July, and Plain Golden Ys at Folkestone Warren on the 10<sup>th</sup> July and Saltwood on the 15<sup>th</sup> July.





Gold-spot at Hythe (Ian Roberts)

Clancy's Rustic at Hythe (Ian Roberts)

Bloxworth Snout continues to be locally established with a total of 24 recorded (two at Saltwood and 22 at Hythe) between the 15<sup>th</sup> May and the 14<sup>th</sup> December, whilst two Pinion-streaked Snouts were trapped at Hythe Roughs on the 5<sup>th</sup> June. Plumed Fan-foot is also probably resident, with eight (four at both Hythe and Saltwood) noted between the 16<sup>th</sup> July and the 21<sup>st</sup> August, but sadly the Four-spotted was not recorded from Hythe Roughs this year and appears to have a very poor year nationally.

Figure 3 shows the number of species recorded in each month of 2015:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Micros	3	5	12	20	51	151	232	163	61	19	14	4	336
Macros		6	13	42	130	209	266	195	109	81	43	14	418
Total	3	11	25	62	181	360	498	358	170	100	57	17	754

Figure 3: Moth species at Folkestone and Hythe in 2015

The total of 336 species of micro moths marked a continued increase on the totals recorded in the previous three years (305 in 2014, 287 in 2013, 252 in 2012) as did the total of 418 macro species (385 in 2014, 370 in 2013, 339 in 2012). These numbers reflect a good season despite a slow start, particularly for immigrants, and to some extent increased coverage of Folkestone Warren and some woodland sites.

Figure 4 shows the total number of individual moths recorded in each month of 2015:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Micros	4	7	79	164	418	2438	7039	6300	1516	366	266	83	18680
Macros		21	179	984	1214	7251	13593	10876	8742	2778	553	69	46260
Total	4	28	258	1148	1632	9689	20632	17176	10258	3144	819	152	64940

Figure 4: Total moth numbers at Folkestone and Hythe in 2015

Despite the increased diversity, the total catch of macros was very similar to last year (0.5% less) and the total catch of micros was considerably less (by 17%). Generally speaking numbers were lower in the earlier part of the year (March to July) and higher in the latter part (August to December).

The 23<sup>rd</sup> July produced the largest catch of moths, with 1,294 individuals, whilst the 10<sup>th</sup> July saw the greatest variety with an exceptional 204 species recorded.

#### **Butterflies**

The highlight of the year was the second area record of **Large Tortoiseshell** at Saltwood on the 28<sup>th</sup> June (following one at Sugarloaf Hill, Folkestone in April 2007).

It was quite a poor year for Clouded Yellow, with just 12 recorded between the 28<sup>th</sup> April and the 18<sup>th</sup> October. Eight were seen at Samphire Hoe, with three at Hythe Ranges at one at Seabrook.

The first Painted Lady was at Lympne on the 2<sup>nd</sup> April, with two at Samphire Hoe later in the month, then regular sightings through May, June and July, with a peak of six at Samphire Hoe on the 29<sup>th</sup> July. A small influx in late August/early September included a peak of ten, again at Samphire Hoe, on the 6<sup>th</sup> September. The final sighting was at Abbotscliffe on the 4<sup>th</sup> October and the total of at least 61 was the second best since the record arrival of 2009.





Clouded Yellow at Samphire Hoe (Phil Smith)

Painted Lady at Abbotscliffe (Ian Roberts)

The totals for the year of the regular immigrant butterflies are shown in figure 5:

	Apr	Apr	May	Jun	Jul	Aug	Sep	Oct	Dec	2015	2014	2013
Clouded Yellow		1	1	2	1	1	3	2		12	20	68
Painted Lady		3	15	16	12	3	11	1		61	11	223
Total		4	16	18	13	4	14	3		73	31	289

Figure 5: Regular migrant butterflies in the Folkestone and Hythe area in 2015

The most significant records of resident species came from Folks' Wood, where recently cleared areas were found to be supporting **Silver-washed Fritillary** and **White Admiral**. At least four of the former were present in July, including a mating pair, and two singles of the latter were also seen in July.

A **White-letter Hairstreak** was seen along the canal near Hythe Roughs in early July and a single **Chalk Hill Blue** was seen at the eastern end of Abbotscliffe in September. At least six Small Blues were present at Samphire Hoe but none were found at the Crete Road West site this year, whilst it was another good season for Brimstone, with up to 12 noted between the 17<sup>th</sup> March and the 8<sup>th</sup> June, and sightings at Folkestone Downs, Crete Road West, Castle Hill, Seabrook, Saltwood and Hythe Roughs.

Adonis Blue, Dingy Skipper, Green Hairstreak and Wall butterflies were noted at their usual haunts at Samphire Hoe, along the cliffs between Round Down and Capel-le-Ferne, in Folkestone Warren, and along Folkestone Downs, with a couple of the latter also at Hythe Roughs.

A total of 33 species were recorded in 2015, one more than in the previous year. The first dates for these are provided as figure 6:

Small Skipper	25 Jun
Essex Skipper	07 Jul
Large Skipper	05 Jun
Dingy Skipper	21 Apr
Clouded Yellow	28 Apr
Brimstone	17 Mar
Large White	13 Apr
Small White	17 Mar
Green-veined White	07 Apr
Orange Tip	13 Apr
Green Hairstreak	04 May
White-letter Hairstreak	03 Jul
Small Copper	27 Apr
Small Blue	25 May
Common Blue	13 May
Chalk Hill Blue	11 Sep
Adonis Blue	08 May
Holly Blue	09 Apr
White Admiral	11 Jul
Red Admiral	04 Mar
Painted Lady	02 Apr
Small Tortoiseshell	27 Feb
Large Tortoiseshell	28 Jun
Peacock	01 Jan
Comma	17 Mar
Silver-washed Fritillary	11 Jul
Speckled Wood	10 Apr
Wall	24 Apr
Gatekeeper	07 Jul
Marbled White	25 Jun
Meadow Brown	20 Jun
Small Heath	13 May
Ringlet	29 Jun
	1



Silver-washed Fritillary at Folks' Wd. (Brian Harper)



White Admiral at Folks' Wood (Ian Roberts)



Dingy Skipper at Abbotscliffe (Ross Newham)

Figure 6: First dates for butterflies at Folkestone and Hythe in 2015

The unusually mild autumn led to some notably late dates which included November records of Adonis Blue, Comma, Peacock and Red Admiral and December sightings of Small Tortoiseshell.



Silver-washed Fritillaries at Folks' Wood (Ian Roberts)



Speckled Wood at Samphire Hoe (Phil Smith)

#### Other insects

Dragonflies and damselflies remain relatively understudied but there were several records of note. The highlights were two male **Red-veined Darters** at Folkestone Reservoirs on the 27<sup>th</sup> June, up to two Banded Demoiselles at Fairmead Farm (Westenhanger) in late June/early July and several Migrant Hawkers at various sites between mid-August and early October.

A **Rambur's Pied Shieldbug** at Botolph's Bridge on the 14<sup>th</sup> June appears to be the first area record of this species which first colonised the UK in 2011. The seventh to 13<sup>th</sup> area records of **Southern Oak Bush-Cricket** were at Hythe between the 31<sup>st</sup> August and the 6<sup>th</sup> October, and this insect would appear to probably be locally resident now.



Rambur's Pied Shieldbug at Botolph's Bridge (Brian Harper)



Banded Demoiselle at Fairmead Farm (Brian Harper)

### **Mammals**

Harbour Porpoises were seen occasionally offshore, particularly in spring, with most records from Samphire Hoe, Mill Point or Princes Parade. There were several reports of seals, not all identified to species, though those that were tended to be Common.

On land there were regular sightings of Brown Hare in the Donkey Street/Willop Basin area, with a peak count of four there on the 21<sup>st</sup> March, whilst Mink were noted at Botolph's Bridge, Nickolls Quarry and along the canal at Hythe Roughs.

# **Flora**

The usual range of orchids were noted, including the Late Spider Orchids again present at Folkestone Downs in June.