

MOTH MONITORING REPORT

Year 2021

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PORTUGAL

ROCHA

Crer, Cuidar e Transformar

1. Introduction

The present report shows the results of Moth Trapping during 2021 in Cruzinha grounds, the headquarters of A Rocha Portugal and two additional sessions (2019) in two other locations: Ponta de Piedade and Mata do Barão de S. João.

In 2021 the total number of moth trapping sessions were **39**. We used a Skinner type moth trap with a 125 mercury vapor lamp, placed in the garden area of Cruzinha, except for the two additional sessions when we used a Heath trap powered by a 15 watt actinic UV. Some sampling sessions were carried out as part of **REBN** (Rede de Estações de Borboletas Noturnas), a portuguese network of stations for moth trapping. This project began in February 2021 and sessions took place once a month from February to December 2021.

The captures were made by Paula Banza, the person in charge of the project. Moth identifications were done by Paula Banza, using Cruzinha Moths Reference Collection and several identification *websites* for Lepidoptera, with the help of REBN team.

The main objective of this work is to gain some knowledge of the diversity, abundance and distribution of moths in some habitats of the Algarve. At the same to use this knowledge as an environmental education tool with students, tourists and other people interested about moths.

1. Trap location

Table 1 registers the Geographical Coordinates for the location of moth traps.

Table 1 – Geographical Coordinates **Sistema ETRS89-PT-TM06**

Site	Coordinate XX	Coordinate YY
1. Cruzinha	- 42210	- 280061
2. Ponta da Piedade	-47840.37	-286689.35
3. Mata do Barão se São João	- 58498.06	-280050.72

2. Results for 2021

The graphs of **Figures 1** and **2** represent, respectively, the total number of individuals *per* families and the number of species *per* families.

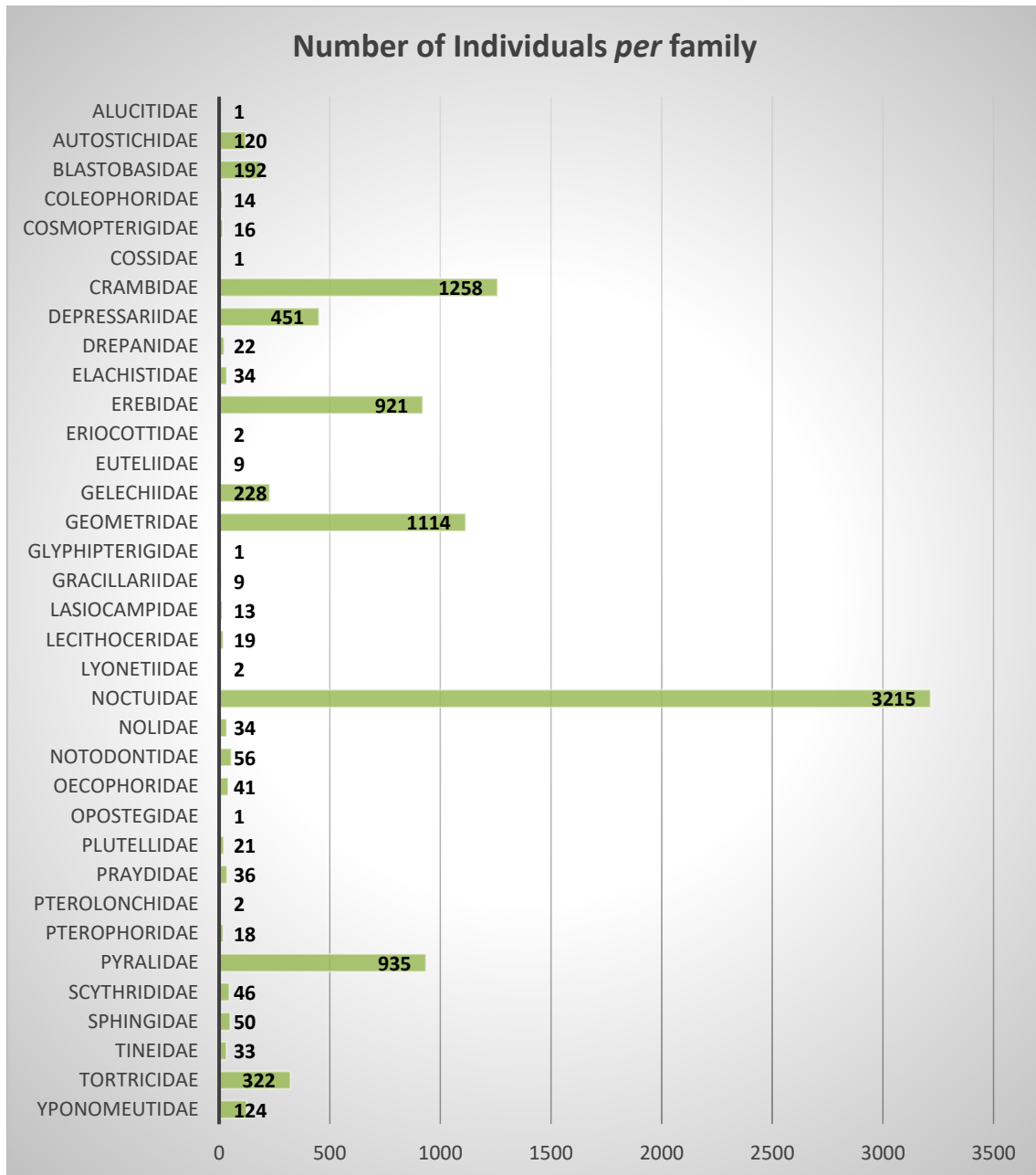


Figure 1. Total number of individuals according to the different families.

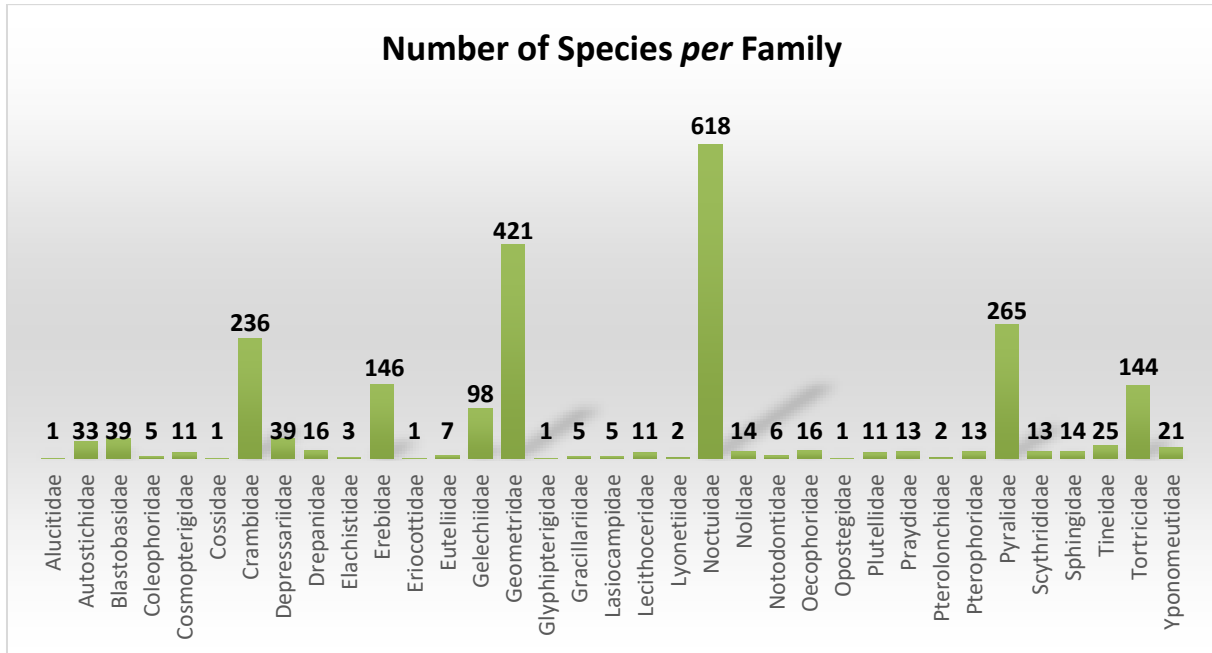


Figure 2. Number of species for each family.

3. Conclusions

During 2021 the moth trapping sessions took place mainly in Cruzinha grounds, with two sessions in other locations as an attempt to broaden the sampling sites. A total of **9361** moth were captured from **362** species belonging to **35** families and about **39** individuals belonging to **8** different genera, of which it was not possible to determine the species.

Most moths were identified at species level, but in some cases it was only possible to identify them to the genus level. For some individuals the identification was not confirmed to date (they are marked with* in tables 1 and 2 in the Annexes), although they are included in this report for statistical purposes.

The species *Coscinia chrysocephala* appears registered only this year, but most likely it has been previously recorded as *Coscinia cribaria*. Possibly the species *Cadra furcatella* may have been misidentified in the past as *Cadra figulilella*.

The five most abundant species in 2021 were: *Eilema caniola* (579 individuals); *Ethmia bipunctella* (421 individuals); *Noctua pronuba* (412 individuals); *Palpita vitrealis* (397 individuals) and *Agrotis puta* (396 individuals).

There are some first records for 2021: *Agonopterix chironiella*; *Aneuxanthis locupletana*; ***Aristotelia decoratella***; ***Coccidiphila danilevskyi***; ***Depressaria douglasella***; ***Eilema predotae***; *Eriocottis hispanica*; *Euzophera pinguis*; ***Nemapogon nevadella***; *Nycteola revayana*; ***Opostega salaciella***, *Polymixis dubia* and ***Stemmatophora vulpecalis***.

Some specimens – underlined in the text - were kept for genitalia analysis and in **bold** are the species waiting for confirmation on the identification.

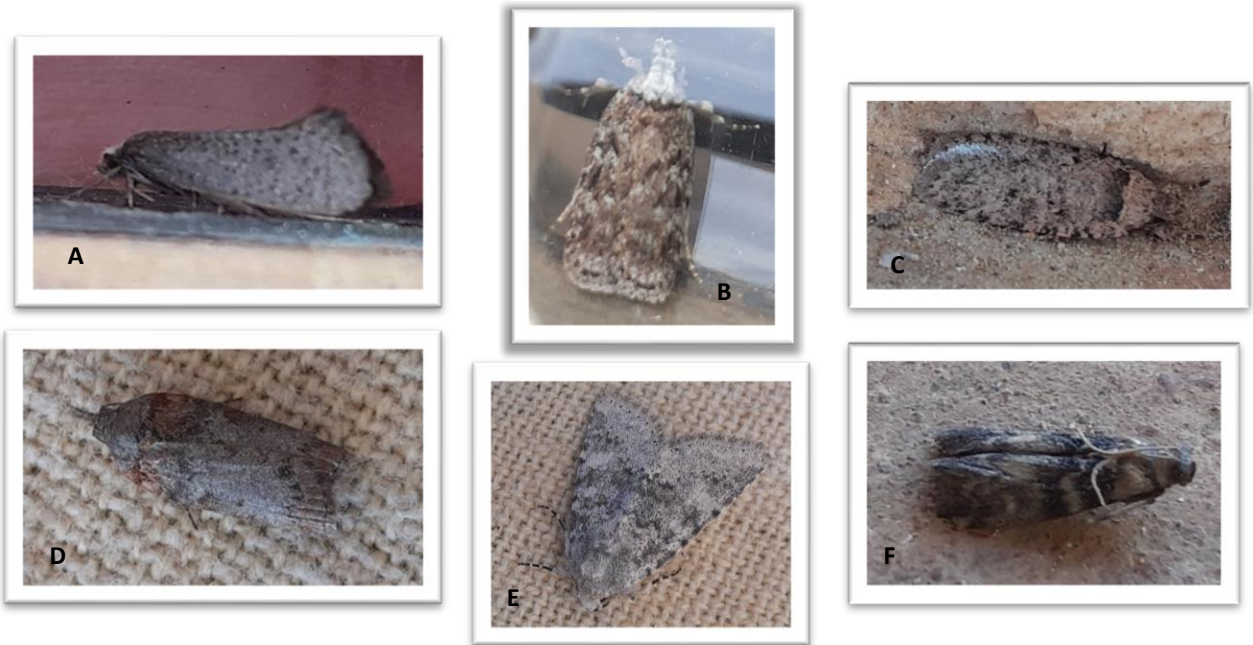


Figure 3. Photos of *Eriocottis hispanica* (A), *Depressaria douglasella* (B), *Agonopterix chironiella* (C), *Nycteola revayana* (D), *Polymixis dubia* (E) and *Euzophera pinguis* (F).

Other interesting results are shown in Table 2.

Tabela 2 – Some interesting records during 2021.

Species	1º record	2º record	3º record	4º record	5º record
<i>Ateliotum petrinella</i>	05/07/2018	16/09/2021			
<i>Coleophora discordella</i>	04/07/2019	01/04/2021			
<i>Crocallis tusciaria</i>	23/11/2017	25/11/2021			
<i>Epicallima mercedella</i>	02/07/2020	17/06/2021			
<i>Glyphipterix equitella</i>	14/05/2015	01/07/2021			
<i>Pediasia ribbeellus</i>	24/09/2020	27/05/2021			
<i>Phycita diaphana</i>	20/06/2019	10/06/2021			
<i>Cadra furcatella</i>	03/09/2020	09/09/2021	28/10/2021		
<i>Idaea blaesii</i>	04/09/2014	07/09/2017	08/07/2021		
<i>Lyonetia clerkella</i>	18/06/2020	12/05/2021	08/07/2021		
<i>Metacrambus pallidellus</i>	31/07/2019	22/08/2019	15/07/2021		
<i>Symmoca revoluta</i>	27/06/2012	06/07/2017	22/07/2021		
<i>Agonopterix purpurea</i>	09/02/2011	11/06/2015	22/02/2018	25/11/2021	
<i>Calamodes occitanaria</i>	25/09/2008	30/01/2014	10/02/2015	21/01/2021	
<i>Cathayia insularum</i>	19/06/2011	10/06/2021	17/06/2021	01/07/2021	
<i>Dryobotodes monochroma</i>	23/10/2014	12/11/2015	07/10/2021	28/10/2021	
<i>Euchromius ocella</i>	07/04/2011	14/06/2017	25/06/2020	10/06/2021	
<i>Helcystogramma triannulella</i>	29/01/2009	16/06/2015	18/08/2015	17/06/2021	
<i>Idaea calunetaria</i>	26/04/2011	01/10/2013	02/07/2020	06/05/2021	
<i>Idaea lusohispanica</i>	25/05/2017	17/08/2019	09/08/2018	09/09/2021	
<i>Tinea basifasciella</i>	03/05/2017	31/07/2019	05/09/2019	15/07/2021	
<i>Agriopis bajaran</i>	13/01/2011	23/01/2015	12/02/2018	06/09/2018	11/02/2021
<i>Cyclophora hyponoea</i>	18/05/2004	13/05/2011	24/09/2020	01/04/2021	10/06/2021
<i>Meganola togatulalis</i>	13/09/2009	23/05/2019	03/09/2020	24/09/2020	30/09/2021
<i>Pseudosophronia exustellus</i>	14/04/2011	02/07/2015	01/08/2019	24/09/2020	29/07/2021
<i>Thysanoplusia daubei</i>	21/07/2011	24/10/2013	30/10/2014	12/11/2020	17/05/2021

ANNEXES

Table 1: Total of individuals *per* families and species captured in 2021

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
Alucitidae							1						1
<i>Alucita sp.</i>							1						1
Autostichidae					8	44	23	8	36	1			120
<i>Apatema mediopallidum</i>					1		1						2
<i>Holcopogon bubulcellus</i>					2	1		1	1				5
<i>Symmoca revoluta</i>							1						1
<i>Symmoca signatella</i>					1	2	2		21				26
<i>Symmocoides oxybiella</i>					4	41	19	7	14	1			86
Blastobasidae	2	11	1	9	12	105	30	2	11	4	3	2	192
<i>Blastobasis maroccanella</i>	2	7	1	6	8	85	20			2		2	133
<i>Blastobasis phycidella</i>		4		3	4	20	10	2	11	2	3		59
Coleophoridae			1	12	1								14
<i>Coleophora discordella*</i>				2									2
<i>Coleophora semicinerea</i>			1										1
<i>Coleophora sp.</i>				10	1								11
Cosmopterigidae					2	1	11	1	1				16
<i>Anatrachyntis badia</i>					2								2
<i>Coccidiphila danilevskyi**</i>							6						6
<i>Eteobalea intermediella</i>									1				1
<i>Pyroderces argyrogrammos</i>						1	5	1					7
Cossidae							1						1
<i>Zeuzera pyrina</i>							1						1
Crambidae	25	172	52	310	74	159	42	9	116	203	73	23	1258
<i>Achyra nudalis</i>							1						1
<i>Agriphila geniculea</i>									3	4			7
<i>Agriphila latistria</i>										2			2
<i>Agriphila tersellus</i>										8			8
<i>Agriphila trabeatellus</i>									41	41			82
<i>Ancylolomia palpella*</i>									1				1
<i>Ancylolomia tentaculella</i>									4	1			5
<i>Antigastra catalaunalis</i>										17	10	2	29
<i>Cornifrons ulceratalis</i>										1			1
<i>Diasemiopsis ramburialis</i>							1			1			2
<i>Dolicharthria aetnaealis</i>				1									1
<i>Dolicharthria punctalis</i>	1			2		11	3			1			18
<i>Duponchelia fovealis</i>					1								1
<i>Euchromius anapiellus</i>				1		3							4
<i>Euchromius gozmanyi</i>						1	4	1	4				10
<i>Euchromius ocella</i>						2							2
<i>Eudonia angustea</i>	4		11	172	1	2					4	1	195

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Eudonia delunella</i>				6	3								9
<i>Eudonia lineola</i>	9	26	11	59	16	18					1		140
<i>Evergestis isatidalis</i>	1											1	2
<i>Hellula undalis</i>									1	3			4
<i>Herpetogramma licarsisalis</i>										9			9
<i>Hydriris ornatalis</i>											1		1
<i>Mecyna asinalis</i>		5			4	3				2		1	15
<i>Metacrambus pallidellus</i>							1						1
<i>Metasia suppandalis</i>						3	3	2	4	3			15
<i>Nomophila noctuella</i>		1	3	7	1	41				3	2	1	59
<i>Palpita vitrealis</i>	1	79	6	51	41	68	20	4	40	71	12	4	397
<i>Pediasia ribbeellus</i>					1								1
<i>Pyrausta despicata</i>		2		1	1			1	2	7	5	1	20
<i>Pyrausta sanguinalis</i>									1	2			3
<i>Udea ferrugalis</i>	8	58	20	6	4	1				2	30	12	141
<i>Udea numeralis</i>	1	1	1	4	1	6	9	1	14	8	8		54
<i>Uresiphita gilvata</i>									1	17			18
Depressariidae			15	45	94	73	9	1	115	97	2		451
<i>Agonopterix chironiella</i>				2									2
<i>Agonopterix purpurea</i>											1		1
<i>Agonopterix subpropinquella</i>			2	3							1		6
<i>Agonopterix yeatiana</i>					2								2
<i>Depressaria douglasella*</i>					1								1
<i>Ethmia bipunctella</i>			13	23	90	73	9	1	115	97			421
<i>Ethmia terminella</i>				17	1								18
Drepanidae		2	3	3		4	3	1	2	4			22
<i>Thyatira batis</i>		1											1
<i>Watsonalla uncinula</i>		1	3	3		4	3	1	2	4			21
Elachistidae				34									34
<i>Elachista nuraghella</i>				34									34
Erebidae	1	2	151	203	44	99	10	151	257	3			921
<i>Apaidia mesogona</i>				18	11	2			4	23			58
<i>Catocala conversa</i>							1						1
<i>Catocala mariana*</i>					1	1							2
<i>Catocala nymphagoga*</i>						1							1
<i>Clytie illunaris</i>				1		1							2
<i>Coscinia chrysocephala</i>				9	2				4	12			27
<i>Coscinia cribraria</i>				2	5								7
<i>Cymbalophora pudica</i>							1		50	71			122
<i>Dysgonia algira</i>						1		2	3				6
<i>Eilema caniola</i>			1	110	176	15	72	4	67	134	1		580
<i>Eilema marcida</i>					3	6	1		2	2			14
<i>Eilema predotae*</i>									3	1			4
<i>Eilema uniola</i>									4				4

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Eublemma candidana</i>							3	1					4
<i>Eublemma cochylioides</i>							1						1
<i>Eublemma ostrina</i>				2		10	2		1	3	1		19
<i>Eublemma parva</i>				1	1	2	3		2	3			12
<i>Eublemma pura</i>						1	6						7
<i>Eublemma scitula</i>					1	2	2		1				6
<i>Metachrostis velox</i>							1		3				4
<i>Nodaria nodosalis</i>		1		2			1		1	5	1		11
<i>Ocneria atlantica</i>				1				2					3
<i>Ocneria rubea</i>									2				2
<i>Odice pergrata</i>									2				2
<i>Ophiusa tirhaca</i>			1	1		1	1			2			6
<i>Phragmatobia fuliginosa</i>				3	1		1						5
<i>Zebeeba falsalis</i>				1	2	1	3	1	2	1			11
Eriocottidae				2									2
<i>Eriocottis hispanica</i>				2									2
Euteliidae				2	5	1			1				9
<i>Eutelia adalatrix</i>				2	5	1			1				9
Gelechiidae			1	17	47	39	63	16	28	15	1	1	228
<i>Anarsia lineatella</i>									2				2
<i>Aproaerema anthyllidella</i>									1				1
<i>Aristotelia decoratella*</i>							1						1
<i>Dichomeris alacella</i>						1			11				12
<i>Dichomeris lamprostoma</i>					1	4	6	2	1	1			15
<i>Dichomeris limbipunctellus</i>									1				1
<i>Epidola stigma</i>							28	8	4				40
<i>Helcystogramma triannulella*</i>						1							1
<i>Isophrictis kefersteiniellus</i>				1									1
<i>Isophrictis lineatellus</i>				3	3								6
<i>Mesophleps corsicella</i>				1			2			1			4
<i>Mesophleps trinotella</i>									1				1
<i>Metzneria torosulella</i>					1	1							2
<i>Mirificarma eburnella</i>				8	6								14
<i>Palumbina guerinii</i>							1		4	8			13
<i>Platyedra subcinerea</i>				2	26	21	5	2			1	1	58
<i>Pseudosphronia exustellus</i>							1						1
<i>Ptocheuusa paupella</i>				1	8	2	5		1	1			18
<i>Recurvaria nanella</i>						1	1						2
<i>Scrobipalpa ocellatella</i>				1	1		2			2			6
<i>Scrobipalpa phagnalella*</i>			1							2			3
<i>Stomopteryx basalis</i>							1		2				3
<i>Stomopteryx detersella</i>							1						1
<i>Stomopteryx remissella</i>					1	8	9	4					22
Geometridae	13	47	37	200	169	130	124	19	110	218	37	10	1114

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Acanthovalva inconspicuaris</i>									1				1
<i>Afriberina salemae</i>	3		1	5		1		1	3	2			16
<i>Agriopsis bajaria</i>		1											1
<i>Aleucis distinctata</i>		1											1
<i>Aplasta ononaria</i>							2						2
<i>Aspitates ochrearia</i>			2	9					5	17			33
<i>Brachyglossina hispanaria</i>						1	8						9
<i>Calamodes occitanaria</i>	1												1
<i>Catarhoe basochesiata</i>	5	12	2	1					1	5	1	1	28
<i>Crocallis tusciaria</i>											1		1
<i>Cyclophora hyponoea</i>				1		1							2
<i>Cyclophora pupillaria</i>				1	5	10	5			1			22
<i>Eupithecia breviculata</i>				1	2								3
<i>Eupithecia centaureata</i>	1	8	14	12	26	14	1		1	25		1	103
<i>Eupithecia cocciferata</i>		1											1
<i>Eupithecia dodoneata</i>		1											1
<i>Eupithecia innotata</i>											1		1
<i>Eupithecia irriguata</i>					1	1							2
<i>Eupithecia laquaearia*</i>						6							6
<i>Eupithecia phoeniceata</i>										1			1
<i>Gerinia honoraria</i>				1		1					1		3
<i>Gymnoscelis rufifasciata</i>		8	3	1	3	14	3				2		34
<i>Idaea belemiata</i>				1	1		20	4					26
<i>Idaea blaesii*</i>							1						1
<i>Idaea calunetaria*</i>					1								1
<i>Idaea cervantaria</i>							3						3
<i>Idaea degeneraria</i>				3	2	1	1		2	3			12
<i>Idaea efflorata</i>					3		2	1	5	1			12
<i>Idaea elongaria</i>				1	6	1	6		2	1	1		18
<i>Idaea eugeniata</i>			1	8	1	1	3	4	5	6			29
<i>Idaea fractilineata</i>						1	1						2
<i>Idaea incisaria</i>					1	1			1	4	1		8
<i>Idaea infirmaria</i>						3	7	2	1				13
<i>Idaea longaria</i>				25		1	8		4	5			43
<i>Idaea lusohispanica*</i>									1				1
<i>Idaea lutulentaria</i>				2	10								12
<i>Idaea minuscularia</i>		1	1	1	10	12	7	1	8	5	1		47
<i>Idaea mustelata</i>							17						17
<i>Idaea ochrata</i>					3								3
<i>Idaea predotaria</i>					2	5	3		1	4			15
<i>Idaea subsericeata</i>				2		2			3	2			9
<i>Isturgia deerraria</i>									4	2	1		7
<i>Itame vincularia</i>		2	1	7		1	2			1			14
<i>Larentia malvata</i>												1	1

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Menophra abruptaria</i>		1	1	3		1				1	2		9
<i>Menophra japygiaria</i>		3	3	7	1	4	6	3		1		3	31
<i>Microloxia herbaria</i>						2	1		1	1			5
<i>Nebula ibericata</i>		1	1								1	1	4
<i>Nycterosea obstipata</i>	1	1	1	2		2							7
<i>Peribatodes ilicaria</i>			2	21	9	4	3		3	9			51
<i>Perigune convergata</i>											6	1	7
<i>Phaiogramma etruscaria</i>				9	1	4	3	1	3				21
<i>Phaiogramma faustinata</i>									6				6
<i>Pseudoterpna coronillaria</i>								2					2
<i>Rhometra sacraria</i>		3	2	3	3	9	7		21	55	9	1	113
<i>Scopula imitaria</i>			1	10	1	8	1						21
<i>Scopula marginepunctata</i>				2	1	2	3		1	6	1		16
<i>Scopula minorata</i>				3	3	8							14
<i>Scopula ornata</i>						2				1			3
<i>Scotopteryx peribolata</i>										3	6	1	10
<i>Tephronia lhommaria</i>				56	72	6			19	48	1		202
<i>Tephronia sepiaria</i>					1				8	3			12
<i>Xanthorhoe fluctuata</i>	2	3	1	2						5	1		14
Glyphipterigidae							1						1
<i>Glyphipterix equitella</i>							1						1
Gracillariidae				1	6	2							9
<i>Dialectica scaliariella</i>				1	6	2							9
Lasiocampidae									3	9	1		13
<i>Lasiocampa trifolii</i>									3	9	1		13
Lecithoceridae				1	2	10	3		1	2			19
<i>Eurodachtha canigella</i>				1	2	5	1		1				10
<i>Homaloxestis briantiella</i>							1			2			3
<i>Odites kollarella</i>						5	1						6
Lyonetiidae					1		1						2
<i>Lyonetia clerkella</i>					1		1						2
Noctuidae	17	144	393	446	343	96	43	10	335	820	332	236	3215
<i>Acontia lucida</i>				1	1	10	4		12	13			41
<i>Acronicta psi</i>					1				2	1			4
<i>Acronicta rumicis</i>						2				1			3
<i>Aedia leucomelas</i>							1			4			5
<i>Aegle vespertinalis</i>					1	3	2	1					7
<i>Agrochola lychnidis</i>	2									3	34	46	85
<i>Agrotis bigramma</i>									9	3			12
<i>Agrotis catalaunensis</i>		12	93	11	2				10	64	5		197
<i>Agrotis ipsilon</i>		1	4	7	11						2	1	26
<i>Agrotis lata</i>									66	11			77
<i>Agrotis puta</i>		17	112	38	3	1			20	196	9		396
<i>Agrotis segetum</i>		2	3	3	3	1	1		3	1	8	5	30

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Agrotis spinifera</i>				1		4	4		3	4	1	1	18
<i>Agrotis trux</i>		2	7	5		2	1	1	18	42	14	1	93
<i>Allophyes alfaroi</i>												2	2
<i>Ammopolia witzenmanni</i>											4	1	5
<i>Anarta pugnax</i>			1		1								2
<i>Anarta sodae</i>		1	8	12	19	2	2	1	1	5	1		52
<i>Anarta trifolii</i>							1			1			2
<i>Aporophyla chioleuca</i>											6	1	7
<i>Aporophyla nigra</i>										8	67	50	125
<i>Autographa gamma</i>		6	2	2	2	1			2	1			16
<i>Bryonycta pineti</i>				1	2	3	5						11
<i>Calophasia platyptera</i>						1				1			2
<i>Caradrina clavipalpis</i>		2	11	25	2	10			21	27	1	1	100
<i>Caradrina flavirena</i>		1	2						24	34			61
<i>Caradrina noctivaga</i>			10	14		2							26
<i>Caradrina proxima</i>					1				3	19			23
<i>Cardepija sociabilis</i>										1			1
<i>Cerastis faceta</i>	6	4										7	17
<i>Chloantha hyperici</i>			1	2									3
<i>Chrysodeixis chalcites</i>									2				2
<i>Condica viscosa</i>									2	5			7
<i>Conisania andalusica</i>				1									1
<i>Cryphia algae</i>						1	12	5	42	15			75
<i>Ctenoplusia accentifera</i>			1										1
<i>Ctenoplusia limbirena</i>					1						1		2
<i>Cucullia calendulae</i>	1	3	6	4							2	1	17
<i>Cucullia chamomillae</i>				1									1
<i>Cucullia verbasci</i>		1											1
<i>Dryobotodes monochroma</i>										1			1
<i>Eremopola orana</i>									1				1
<i>Hadena perplexa</i>				1									1
<i>Hadena sancta</i>			3	8	3								14
<i>Hecatera weissii</i>			1	6	23	9							39
<i>Helicoverpa armigera</i>				2		4	1	1	9	16			33
<i>Heliothis incarnata</i>				1									1
<i>Heliothis peltigera</i>				4		3							7
<i>Hoplodrina ambigua</i>				93	106	6			7	131	6		349
<i>Lacanobia oleracea</i>			2	4	1	1				1			9
<i>Leucania joannisii</i>									3				3
<i>Leucania loreyi</i>				1				1		3	4		9
<i>Leucania punctosa</i>										5			5
<i>Leucania putrescens</i>									12	18			30
<i>Luperina dumerillii</i>										8			8
<i>Mamestra brassicae</i>										1			1

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Mesoligia furuncula</i>									2	1			3
<i>Metopoceras felicina</i>				7	1								8
<i>Mniotype occidentalis</i>		1	2							1	2	7	13
<i>Mythimna albipuncta</i>			13	6							5		24
<i>Mythimna languida</i>	1			2		3				5	2		13
<i>Mythimna prominens</i>				1		1							2
<i>Mythimna riparia</i>					13	2				1			16
<i>Mythimna sicula</i>			20	46	5	2			27	7			107
<i>Mythimna unipuncta</i>		3	3		2				1				9
<i>Mythimna vitellina</i>				1	2		1		1	10	5		20
<i>Noctua comes</i>					1	1				3		2	7
<i>Noctua pronuba</i>				86	106	4				27	107	82	412
<i>Ochropleura leucogaster</i>	2	31	72	3	12	1			1	6	21	19	168
<i>Ochropleura plecta</i>		3	2	3						1			9
<i>Omphalophana serrata</i>			4	2									6
<i>Orthosia cerasi</i>		4											4
<i>Peridroma saucia</i>	3	34	6	6	10	2			2	2	1	5	71
<i>Polymixis dubia</i>									1				1
<i>Polyphaenis sericata</i>					3	7							10
<i>Proxenus hospes</i>				15		2	3			4			24
<i>Spodoptera cilium</i>				1			3		9	21	3		37
<i>Spodoptera exigua</i>		3	2	14	4	3			5	16	6		53
<i>Spodoptera littoralis</i>				2					2	10	2		16
<i>Spoladea recurvalis</i>										1	1		2
<i>Spudaea ruticilla</i>		3							1				4
<i>Synthimia fixa</i>				1									1
<i>Thalpophila vitalba</i>										5			5
<i>Thysanoplusia daubei</i>							1						1
<i>Thysanoplusia orichalcea</i>		6											6
<i>Trichoplusia ni</i>				1	1								2
<i>Tyta luctuosa</i>				1		2			1	4			8
<i>Xestia c-nigrum</i>		2											2
<i>Xestia xanthographa</i>							1		10	51	12		74
<i>Xylocampa areola</i>	2	2	2									4	10
Nolidae					1	12	16		2	2	1		34
<i>Earias insulana</i>						1			1	1			3
<i>Meganola togatulalis</i>									1				1
<i>Nola infantula</i>					1	11	16						28
<i>Nola squalida</i>										1			1
<i>Nycteola revayana</i>											1		1
Notodontidae									55	1			56
<i>Thaumetopoea pityocampa</i>									55	1			56
Oecophoridae				5	5	13	18						41
<i>Batia lunaris</i>				5	2	2							9

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Epicallima mercedella</i> **						1							1
<i>Pleurota ericella</i>					2	8	18						28
<i>Pleurota honorella</i>					1								1
<i>Pleurota sp.</i>						2							2
Opostegidae					1								1
<i>Opostega salaciella</i> **					1								1
Plutellidae			1	6	8	4	1				1		21
<i>Plutella xylostella</i>			1	6	8	4	1				1		21
Praydidae	1	2		1	18	12	1			1			36
<i>Prays citri</i>	1	2			7	6	1						17
<i>Prays oleae</i>				1	11	6							18
<i>Prays sp.</i>										1			1
Pterolonchidae							2						2
<i>Pterolonche lutescentella</i>							2						2
Pterophoridae		1		1	2	7	2	1	4				18
<i>Agdistis sp.</i>						3			3				6
<i>Amblyptilia acanthadactyla</i>		1											1
<i>Crombrugghia laetus</i>						4		1	1				6
<i>Emmelina monodactyla</i>					1								1
<i>Puerphorus olbiadactylus</i>				1	1		2						4
Pyralidae			3	74	106	114	237	53	263	81	3	1	935
<i>Acrobasis consociella</i>						2			1				3
<i>Acrobasis obliqua</i>			2	6	4	2	1	1					16
<i>Acrobasis romanella</i>				4	12	13	11	4	25	13	1		83
<i>Aglossa brabanti</i>						1	4						5
<i>Alophia combustella</i>					11	21	30	2					64
<i>Apomyelois ceratoniae</i>			1		4	7	9	3	35	31	1		91
<i>Bostra obsoletalis</i>				4	7	1	18	2	8				40
<i>Bradyrrhoa cantenerella</i>							1		1	1			3
<i>Cadra figulilella</i>				1	17	17	57	19	71	5		1	188
<i>Cadra furcatella</i>									1	1			2
<i>Cathayia insularum</i>						2	1						3
<i>Cryptoblabes gnidiella</i>				4	1	3	6		3	2			19
<i>Dioryctria mendacella</i>				16	3	4				4	1		28
<i>Endotricha flammealis</i>					1	1							2
<i>Ephestia welseriella</i>						4	3		1				8
<i>Ephestia woodiella</i>					6	4	13	1	1	2			27
<i>Epischnia asteris</i>					1	4				1			6
<i>Epischnia illotella</i>				5	3		1		1	6			16
<i>Etiella zinckenella</i>					1	5	3		2	1			12
<i>Euzophera pinguis</i>							2						2
<i>Homoeosoma sinuella</i>				1	5	3	17		12				38
<i>Hypotia corticalis</i>									1				1
<i>Hypotia muscosalis</i>					1	3	1						5

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Hypsopygia costalis</i>					1	1				4	10		16
<i>Hypsotropa vazquezi</i>							2	1					3
<i>Lamoria anella</i>				31	20		30	12	65	1			159
<i>Loryma egregialis</i>					1	2	1						4
<i>Myelois circumvoluta</i>					1								1
<i>Oxybia transversella</i>					1	1	1						3
<i>Phycita diaphana</i>						1							1
<i>Phycitodes saxicola</i>				2	4	10	24	6	4	1			51
<i>Psorosa ferrugatella</i>						1		2		2			5
<i>Stemmatophora brunnealis</i>									26				26
<i>Stemmatophora combustalis</i>						1							1
<i>Stemmatophora vulpecalis*</i>									1				1
<i>Synaphe punctalis</i>					1		1						2
Scythrididae				4	6	25	11						46
<i>Enolmis acanthella</i>				4	5								9
<i>Episcythris triangulella</i>					1	25	11						37
Sphingidae		1		23	4	14	1		3	4			50
<i>Hippotion celerio</i>									3	4			7
<i>Hyles livornica</i>		1		23	4	14	1						43
Tineidae	2	1	2	5	1	1	16		2	3			33
<i>Ateliotum petrinella*</i>									1				1
<i>Monopis imella</i>	1	1	1	2									5
<i>Nemapogon nevadella*</i>							2						2
<i>Neurothaumasia ragusaella</i>						1	3						4
<i>Opogona omoscopa</i>	1												1
<i>Reisserita chrysopterella</i>				1			6						7
<i>Tinea basifasciella**</i>							1						1
<i>Tinea sp.</i>							1						1
<i>Trichophaga bipartitella</i>			1	2	1		3		1	3			11
Tortricidae	4	11	64	85	41	26	8	44	35	2	2		322
<i>Acleris variegana</i>				1	3				2	4		1	11
<i>Acroclita subsequana</i>				6			1						7
<i>Aethes bilbaensis</i>					3								3
<i>Ancylis sparulana</i>				1		1	1						3
<i>Aneuxanthus locupletana</i>							2						2
<i>Aphelia peramplana</i>			1	1									2
<i>Cacoecimorpha pronubana</i>					1	1				2			4
<i>Clepsis consimilana</i>			1	4	4	1			1				11
<i>Clepsis eotoniana</i>					1	1			3	20	2		27
<i>Clepsis sp.</i>				1									1
<i>Cnephasia alfacarana</i>				2	7	4							13
<i>Cnephasia conspersana</i>						1							1
<i>Cnephasia longana</i>					14	1							15
<i>Cnephasia sp.</i>					6								6

Family(Species)	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Cnephasia stephensiana</i>				3	14	3							20
<i>Cochylidia heydeniana</i>		1											1
<i>Cochylimorpha decolorella</i>				2									2
<i>Crociosema plebejana</i>		3	4	6	10	13				2		1	39
<i>Cydia fagiglandana</i>							2		2	2			6
<i>Cydia pomonella</i>									1				1
<i>Cydia splendana</i>									3				3
<i>Cydia strigulatana</i>			1		1								2
<i>Endothenia marginana</i>				3	17	3							23
<i>Epinotia thapsiana</i>			2	10	3	1	9	6	20				51
<i>Lobesia botrana</i>						5					2		7
<i>Lozotaeniodes cupressana</i>				1	1						3		5
<i>Phalonidia contractana</i>							4	1	10	2			17
<i>Phtheochroa duponchelana</i>			2	22									24
<i>Pseudococcyx tessulatana</i>				1		5	1	1					8
<i>Rhyacionia buoliana</i>						1	6						7
Yponomeutidae		1	2	14	38	58	4	1	5	1			124
<i>Zelleria oleastrella</i>		1	2	14	38	58	4	1	5	1			124
Total	60	387	524	1430	1242	1010	788	140	1288	1758	459	275	9361

Tabela 2 –Total of individuals captured in 2021 in Ponta da Piedade and Mata do Barão de São João.

Family	Species	Date	Nº Individuals	Location
Autostichidae	<i>Apatema mediopallidum</i>	14-jul-21	1	Mata do Barão de São João
Blastobasidae	<i>Blastobasis maroccanella</i>		2	
Cosmopterigidae	<i>Coccidiphila danilevskyi</i>		5	
Gelechiidae	<i>Stomopteryx remissella</i>		1	
Geometridae	<i>Cyclophora pupillaria</i>		3	
	<i>Idaea minuscularia</i>		1	
Oecophoridae	<i>Pleurota ericella</i>		2	
Pyralidae	<i>Bostra obsoletalis</i>		1	
	<i>Cryptoblabes gnidiella</i>		1	
	<i>Phycitodes saxicola</i>		3	
Tineidae	<i>Nemapogon nevadella</i>		2	
	<i>Reisserita chrysopterella</i>		5	
Gelechiidae	<i>Dichomeris lamprostoma</i>	13-jul-21	1	Ponta da Piedade
		Total	28	

Notes: Species identification was done with the help of A Rocha Portugal reference collection and information available on line in various Lepidoptera sites.

Species marked with* the identification was not confirmed.

In some cases a photo is available and/or the specimen was kept for genitalia analysis (marked with **).