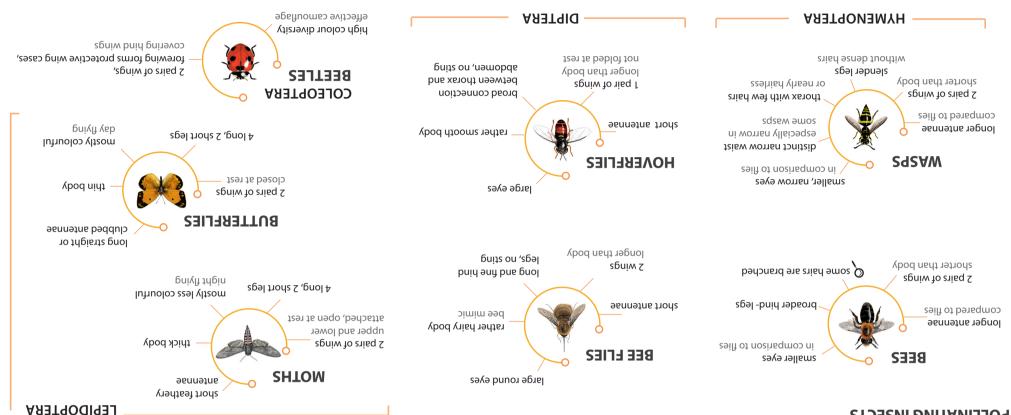


SHTOM BUTTERFLIES



POLLINATING INSECTS

BUTTERFLIES AS POLLINATORS

Due to their great aesthetic value and their transformation of metamorphosis that they undergo in their life cycle, butterflies are possibly one of the groups of insects most appreciated by naturalists and the general public. There are butterflies of many colors and sizes and, unlike their sisters the moths, they tend to have daytime activity. Adult Lepidopterans (which also include moths) have a lick-sucking mouthpart called a spirit-tube, which serves to feed on the nectar of flowers. This characteristic makes them insects that play a fundamental role in plant-animal interactions, and therefore pollination. Like the rest of the groups of pollinators, very important declines have also been registered in their populations in recent decades, which has led them to gain special attention not only for the fact that they are very efficient pollinators but also for being excellent bioindicators of ecosystem health.

MOTHS AS POLLINATORS

Moths have been frequently ignored as pollinators due to the lack of knowledge about their biology, but recent studies place them as a very important group of pollinating insects, with plant species that depend exclusively on them to be able to reproduce. Apart from suffering the same threats as other groups of pollinators (climate change, loss of habitat, use of pesticides,...), nocturnal pollinators such as moths are also affected by light pollution, increasing their vulnerability especially in urban or interurban areas, so conservation efforts need to be intensified for this group.

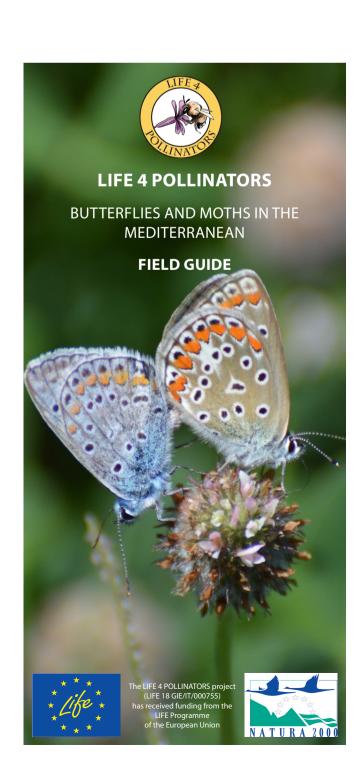
LIFE 4 POLLINATORS

The aim of the project is to improve pollinator conservation by creating a virtuous circle leading to a progressive change in practices across the Mediterranean region.



In the Mediterranean countries there is inadequate awareness about the role of wild pollinators and the importance of conserving their diversity. This knowledge gap is one of the main obstacles to proper planning of successful programmes to address the main drivers behind pollinator decline and ensure sustainable management and restoration of the remaining highvalue pollinator habitats.

The project will contribute to a range of EU policy and legislation, including amongst others the biodiversity strategy, the pollinators initiative and biodiversity protection under the common agricultural policy.



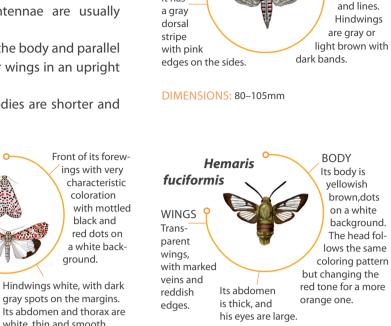


IDENTIFYING MOTHS

Moths are nocturnal, so during the day it will be difficult to see them flying. Traditionally they have been classified in the Heterocera group: the largest group of lepidopterans. In general, moths differ from butterflies by the following features:



- 1. Moths have feathery or sharp-edged antennae while butterfly antennae are usually
- When at rest, moths are prone to hold the wings down, pressed against the body and parallel to the ground. On the other hand, butterflies are prone to holding their wings in an upright
- Generally, moths have much duller colors than butterflies and their bodies are shorter and wider, and they often have scales on their thorax and abdomen.



DIMENSIONS: 40-45mm

Agrius

convolvuli

It has

coloration

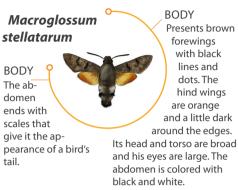
ground.

white, thin and smooth

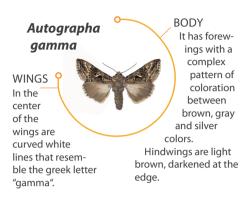
BODY

Large sphinx

with grayish body and dark spots



DIMENSIONS: 40–45 mm



DIMENSIONS: 40-55mm



Utetheisa

pulchella

Very

charac-

teristic

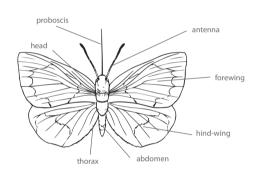
dotted

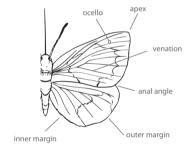
pattern on a

white background.

BUTTERFLIES

IDENTIFYING BUTTERFLIES







For more information on pollinators, please visit: www.life4pollinators.eu





the apex.

Red dots with a black

outline window near

DIMENSIONS: 18-29mm

Females are slightly larger than males

Orange with dark

brown spots and

black ocellus

with a white

pupil at the

apex of the

and two ocelli

forewings

also with a

white pupil on

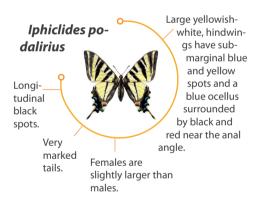
Orange with

black spots

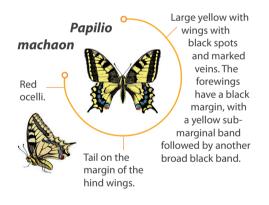
and yellow

areas on the

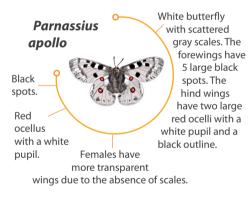
forewings.



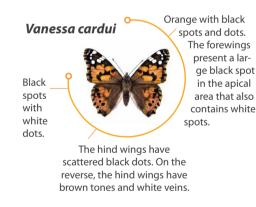
DIMENSIONS: 31–46mm



DIMENSIONS: 32–47mm



DIMENSIONS: 28–46mm



DIMENSIONS: 21–34mm

Pararge ae-

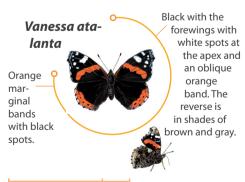
that includes blue spots.

DIMENSIONS: 20-30mm

aeria

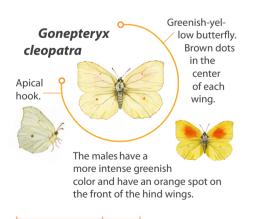
row of

grayish-



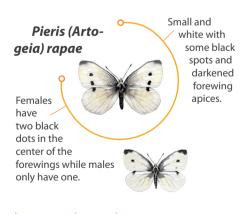
DIMENSIONS: 25-32mm

DIMENSIONS: 15-21mm

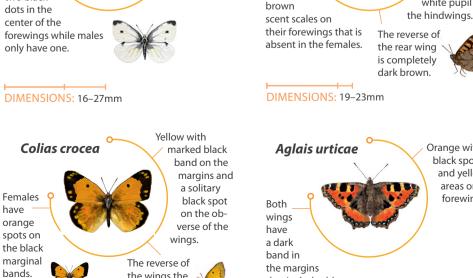


DIMENSIONS: 23–33mm

Polyommatus



DIMENSIONS: 16-27mm

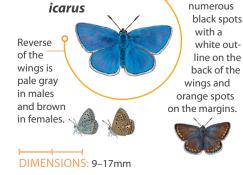


the wings the

black band is

absent.

Orange with a Pvronia cecilia dark brown band on the margins of the wings with Dark spot black ocellus on the on the forewfront of ings with two the forewwhite pupils. ing and are smaller The reverse of the hind than wings is dark brown females with gray tones.



DIMENSIONS: 22-26mm

Small bluish and

brown with