STUDY OF THE AUSTRALIAN ADMIRAL BUTTERFLY

Introduction

The Australian admiral (Vanessa itea) is a butterfly that is widely distributed but whose habits are poorly known. I have prepared these sheets in an attempt to find out what determines the admiral's varying abundance in south-western Australia. The times of year when it is most often seen are not when it might be expected to be most abundant. In Perth, for example, the breeding-season is late winter into spring. One would expect the admiral to be most numerous in mid to late spring, when the adult admirals emerge from pupae; but in fact it is seen oftenest in late winter to early spring, the time of egg-laying.

Fluctuations in the numbers of admirals observed could be due to migration. The species is recorded as being migratory in eastern Australia, and therefore may also migrate in south-western Australia. It is a robust, powerfully built butterfly that flies strongly and rapidly; being also long-lived, it probably has the capacity to travel long distances. Other possible behaviours, however, that could explain the admiral's apparent low numbers in Perth in summer and early winter are aestivation and hibernation. Hibernation has been recorded in the admiral in the colder parts of southern Australia. Aestivation has not been observed.

Recording the Admiral

On the reverse side of this sheet are pictures in black and white of the butterfly and its egg, larva, larval shelter and pupa; they are at life-size except for the egg (greatly enlarged), which is the size of a small grain of sand. The larva shown is fully grown; younger larvae are of course smaller. The main feature that identifies the adult butterfly is the large oval patches of pale yellow on the forewings (sometimes white in faded specimens). Publications on Australian butterflies (see references below) can be consulted for colour illustrations and further information.

The attached sheet is for your, or your group's, recorded observations. Observations of the admiral and its larvae in different parts of W.A. should give a much clearer picture of this butterfly's seasonal habits. Any observations, even if over only a few weeks, will be useful, but they will be particularly valuable if they can be kept up for longer, extending into times of the year when the larvae or butterflies can no longer be found. Recordings are best made weekly or fortnightly when the larvae are present or the butterflies abundant; at other times they can be made monthly.

Queries

If you have trouble finding the butterfly or its larvae, or have any questions about filling in this form, you may like to ring me, on (09) 245 2411.

Results

Once I have collected observations from individuals and groups over a period of a year, I shall send the participants a summary of the results.

Robert Powell February 1994

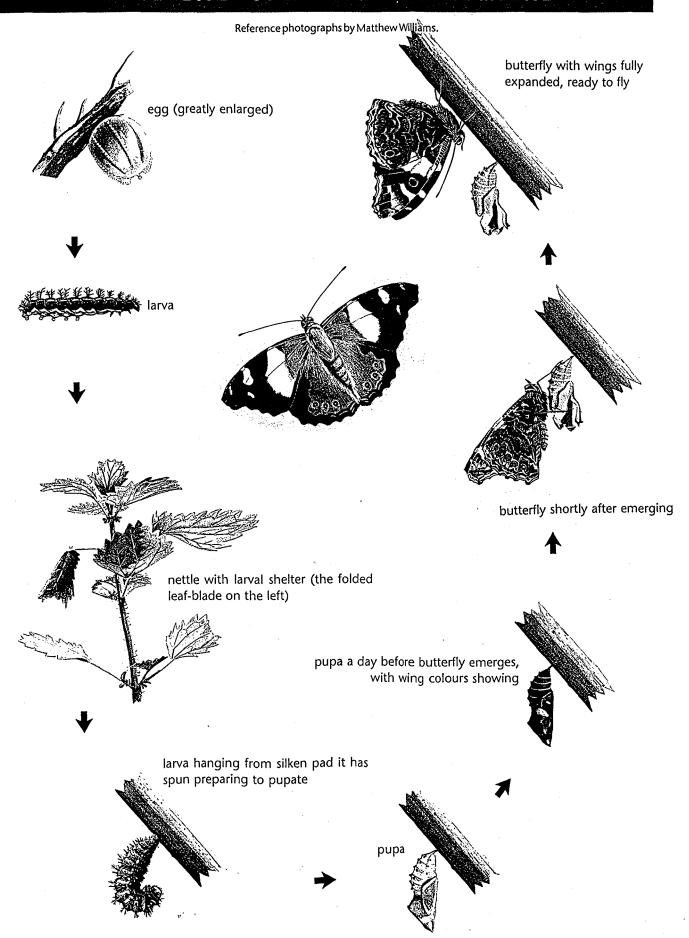
References

Common, I.F.B., and D.F. Waterhouse. Butterflies of Australia. Angus and Robertson, 1981.

Houston, T.F. (ed.). Bring Back the Butterflies: Butterfly Gardening for Western Australians. Western Australian Museum, 1994.

Powell, R. 'Australian Admiral'. Landscope, Vol. 7, No. 4: Winter, 1992, 21-7.

THE LIFE CYCLE OF THE ADMIRAL



OBSERVATION SHEET

Details of Person/Group

Name (of p	erson or grou	p)		<u> </u>
Address				
Contact Person (if group)				Telephone No.
prominent hill To find admit one. Choose hilltops only hill. The tim Perth it is us often interact	gular Observers Iltop or somework Irals on a hiller a sunny day in the late after when admir ually after 3:3 ting in pairs.	ation Site: Choo where where larva cop, choose a pro- if the weather is ernoon, when mal- als arrive on hill to p.m. in winter	se a good site I food-plants are minent hill, pre cool. The time les establish terr tops varies acco , and after 5:00 butterflies have	for making regular observations, preferably either expresent (see below for species of food-plant). (Note ferably with a small summit, rather than a large, flate of day is crucial. Admirals are usually present of itories based on perching-sites near the summit of the ording to the season and temperature. As a guide, in p.m. in late spring. Look out for fast-flying insects been sighted, make sure they are admirals and note.
Name and Lo	ocation of Site			
hillt	e where food-	•	:	·
	t Regular Obs			
date	time	number of specimens	commen	ts (e.g. whether specimens fresh or faded)
than your cl Travelling ac butterflies. T argus - look might appear	nosen site, in dimirals maintage of distinguish for flashes of the Error examples.	the following to ain a fairly consta them from other their pale-yellow	able: (Note. Lo ant direction, fly fast-flying butt wing markings may travel sout	of any sightings of admiral butterflies at places otherwise ok out particularly for admirals that are travelling ying 1-3 m above the ground, much faster than moverflies - the Australian painted lady and the meador. Think of particular places where travelling admirating from Garden Island, where they breed, and be seen
Recordings a		1 1.4.		1'
site (e.g. school grounds, front garden)		s, date	number of specimens	comments (e.g. direction of travel for butterflies on the wing)
			· · · · · · · · · · · · · · · · · · ·	
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C. Other Observations of Interest: Record any observations of admirals that might be hibernating or aestivating Such butterflies are likely to be found in dark, sheltered, secluded places.							
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	Ohse	rvation	s of Larvae (Caterpillars)				
larvae feed)	ular Observation Site: are all in the nettle famil	The food-py, and incl	plants of the admiral (the plants on which the eggs are laid and thude:				
• Ea	uropean stinging-nettles (astern States nettles (<i>Urti</i> ative pellitory (<i>Parietaria</i> troduced pellitory (<i>Parie</i>	ca incisa) ı debilis)					
• ba	abies' tears (Soleirolia so	leirolii)					
the table bel ground, and	ow. (Note. During the come out at night to fee	day the lar	g and admiral larvae are present, and record your observations is vae hide in the shelters on the food-plant, or in leaf-litter on the most easily found by looking for their shelters, which are quithelter (care with nettles!) to see the larva.)				
	at Regular Observation S						
date	larvae observed? comr (yes or no)		ents (e.g. whether larvae large or small, whether pupae seen)				
	·						
B. Recordin	gs of Larvae at Other S	Sites					
date	place (or nearest town)		comments (e.g. whether larvae large or small, whether pupae seen)				

Return of Sheets

Please send these observation sheets, when you have completed your observations, to:

Robert Powell, 54 Bournemouth Crescent, Wembley Downs, W.A. 6019