



BUTTERFLY CONSERVATION SA INC.

NEWSLETTER

No. 72: July 2020

THE SILVER XENICA (*Oreixenica lathoniella herceus*) BUTTERFLY IS BACK IN SA

Bryan Haywood

It is with great enthusiasm that we can provide an update to this long term project! Since the millennium drought of 2006-07 the Silver Xenica butterfly (*Oreixenica lathoniella herceus*) had not been seen in South Australia – despite searches some years later, in March and April 2014. Then again in 2017-18. As a result of this potential extinction, Michelle Sargent and I prepared a translocation plan for the Silver Xenica butterfly in South Australia, which was an action from the Swamp Gum Woodland Regional Action Plan.

In 2018, 40 females were captured from the closest known stronghold for the species (near Dartmoor in western Victoria) and then released into two native forest reserves in SA (20 in each reserve). In 2019, we visited the SA release sites BUT no adults were seen flying in either reserves. Hmm, “it hasn’t worked,” was the first conclusion. We decided the best approach was to wait for one more year – we might have missed the butterflies during the surveys or their numbers might be too low for us to detect them easily. We thought things couldn’t get much worse as they might already be extinct!!

I am very pleased to report that on Easter Monday 2020 during warm and sunny conditions, Sue and Roger Black observed up to five Silver Xenica butterflies in Overland Track Native Forest Reserve – near where females were released two years earlier.

What a pleasant surprise! I subsequently visited both reserves the following day despite weather conditions deteriorating overnight, and managed to observe several individuals at Overland Track and also one female at the second translocation site – Honan Nature Forest Reserve. What a result ... both sites with ‘Silver Xenica’ butterflies!!

Bryan will provide a fascinating insight into this project at our last Public Talk on 3rd November.



Top: Silver Xenica adult underside, roosting in Overland Track Native Forest Reserve – April 2020
Photo: Bryan Haywood. Above: adult upperside.
Photo Roger Grund.

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Distribution map from Roger Grund’s website SA Butterflies and Moths.

BCSA
ANNUAL GENERAL MEETING
will be held at the
Plympton Community Centre
(unless otherwise advised)
on Tuesday 1st September
at 6.30pm.

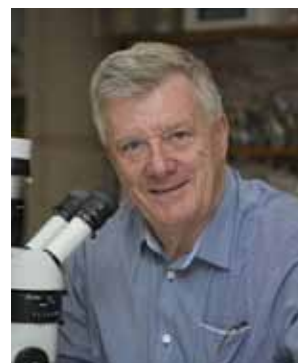
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NATIONAL SCIENCE WEEK – 20 August 2020 6.00-8.00pm**‘HERDING CATERPILLARS – THE CLOSE RELATIONSHIP BETWEEN ANTS AND LYCAENID BUTTERFLIES, FOCUSING ON THE CHEQUERED COPPER (*LUCIA LIMBARIA*) IN PAKAPAKANTHI/ VICTORIA PARK/PARK 16.’**

A Webinar via Zoom, on the LYCAENIDAE Family of butterflies, facilitated by the Butterfly Conservation SA (BCSA) and the ‘Friends of the Chequered Copper (*Lucia limbaria*) Butterfly’.

Butterfly Conservation SA Inc (BCSA) will prepare and deliver a Webinar about the amazing relationship between ants and butterflies of the Lycaenid Family, including an ArcGIS Story Map focusing on the Chequered Copper (*Lucia limbaria*) in Pakapakanthi/Victoria Park/Park 16 in Adelaide.

Entomological experts and enthusiasts from across Australia will deliver short talks about the amazing world of butterflies and their survival in our environment.



The keynote speaker is Roger Kitching AM, Emeritus Professor of Ecology at Griffith University in Brisbane (biography in sidebar), who will place the Lycaenid family into its broader evolutionary context (especially given the new definitive phylogenies now available for the butterflies), discuss the various sub-families, place the Australian fauna in its global context, and visit the various theories about the origins and consequences of the associations with ants.

Roger is Emeritus Professor of Ecology at Griffith University in Brisbane. His 48 year research career in Australia has spanned CSIRO Entomology, the University of New England and Griffith University. He has had a lifelong interest in butterflies and moths and is co-author (with Bert Orr) of *Butterflies of Australia* (Allen & Unwin, 2010) as well as many research articles. His Lepidoptera studies have included major projects in Panama, China, France, Réunion and New Guinea as well as the rainforests of Australia. He received the 2017 Gregor Mendel medal of the Czech Academy of Sciences and was made of member of the Order of Australia in 2010.

The webinar will inform the listeners of the long-established relationship between Lycaenid larvae, which have a specialized secretory gland that attracts, appeases and rewards ants. Speakers will give presentations on the Family Lycaenidae, focusing on the species occurring in SA and they will discuss the Lycaenid larvae-ant associations and the 3 broad categories: larvae not attended by ants; frequently attended by ants (myrmecophilous); and where larvae are predacious upon ants or are fed by ants (aphytophagous). The webinar will detail the relationship of the Chequered Copper (*Lucia limbaria*) and its obligate ants, in which the larvae are frequently attended by ants (myrmecophilous).

Other speakers will include Jan Forrest OAM, Mike Moore, Gerry Butler and Greg Coote from Butterfly Conservation SA.

Registrations for the webinar are now available: When: Aug 20, 2020 6:00 – 8.00 PM Adelaide

<https://us02web.zoom.us/join/9RHTMrOUVfAXsYIT-IS>

After registering, you will receive a confirmation email containing information about joining the meeting.

BUTTERFLY CONSERVATION AGM NOTICE

Butterfly Conservation SA will at this stage (pending COVID restriction updates), will be holding our Annual General Meeting on September 1st 2020 at the Plympton Community Centre, 34 Long Street, PLYMPTON from 6.30 - 7.00pm. We will be seeking nominations for the BCSA Committee for 2021. If you have ever considered increasing your involvement with BCSA, volunteering for the Committee could be your next step.

Elected Positions include Chairperson, Secretary, Treasurer, and Committee members. Expressions of interest in different tasks will also be taken: Membership Officer, Minute Secretary, Webmaster, Social Media Coordinator, Public Talks Coordinator and Newsletter Editor.

Committee meetings are held bi-monthly, however the Executive chairperson, Secretary, Treasurer and Membership Officer meet monthly. We are always looking for a wide range of interests and backgrounds to sit on the Committee, so don't feel that a lack of butterfly knowledge would be a limitation. Feel free to speak with an existing Committee member if you have any questions. A copy of the nomination form is on page 11 of this newsletter.

Brett Oakes, Secretary

REDISCOVERY OF THE FALLEN BARK LOOPER *Gastrophora henricaria**Andrew Lines*

The Fallen Bark Looper (*Gastrophora henricaria* Guenee 1857) is a large geometrid moth in the subfamily Oenochrominae, this handsome species is stout and robust, males have a wing span of 57mm and are strong flyers, coursing above the tree canopy, searching for fresh females to mate with, skilfully navigating the tree line, feeding from flowering gums. Females have a wingspan of 87mm and are larger and heavier and after mating become laden with eggs and are less mobile. The forewings are slightly two tone, tan on the inner half which also contains a small black spot and a slightly darker tan on the other, dissected by a black band running from the middle of the costa through to the dorsum. The bright burnt orange hindwings with black markings make this a striking insect; both sexes also have a large purple patch on the underside of the forewing, noticeable long legs with males having bipectinate (comb-like) antennae.

As the common name suggests when at rest on the trunk or branch of a gum tree the adult is perfectly camouflaged looking like a piece of fallen or peeling bark. When disturbed the moth would open its forewings and flash the bright orange hind wings at the intruder in a hope to startle or scare off any unwanted attention as a form of self defence.

Hidden away amongst the rolling hills of the Mt Lofty Ranges for over 100 years this rare moth has recently been rediscovered. Thought to be extinct for many years the only South Australian record was by school teacher Edward Guest during the 1880s in the Adelaide Hills town of Balhannah. Guest was a keen Naturalist and Entomologist. In October 2003 renowned bush carer Tom Hands discovered and photographed this moth in the Scotts Creek Conservation Park, officially bringing this species back from the dead.

Since then two specimens have appeared in the South Australian Museum: one from McLaren Flat and the other from Stirling. A further record has come in from Charlie Vandijk, who is a member of the Friends of Spring Gully Group near Clare in the state's north, all three were males. These four new records are all from the greater Mt Lofty Ranges Region, an area that through time has been separated from the extensive Eucalypt Forests of south-eastern Australia creating an isolated population.

It may well be present on Kangaroo Island and two other specimens have been discovered in the collection of Bryan Haywood; both specimens came from Naracoorte; one a male has no recorded date and was collected by Mrs Kath Alcock; the other a female by Mrs Robyn Moorhouse in Oct 2008 both residents of Naracoorte; another specimen has been recorded from Mt Burr in 2017. These three specimens all come from the state's lower south-east and represent a second population in the state that lies at the westerly edge of the great South-Eastern Forest that ranges from Southern Queensland, NSW, and Victoria spilling over into South Australia's Lower South East.

Although large and colourful this moth is also rarely encountered in the eastern states, in Victoria it is known as the Beautiful Leaf Moth, where the flight period is recorded as being from August through to Feb, with Dec and Jan being the prime flight period. Interestingly records in SA are from Spring – October.

Little is known of the life history of this insect, mature larva are large, and reach a length of 55mm – 60mm, they are grey/brown in colour and have a pair of short dorsal protuberances (a lump or swelling) on the third abdominal segment. Caterpillars from the family Oenochrominae are typical loopers and move with a looping motion, often hiding in plain sight, larva imitate small sticks and young shoots in colour and stance and are well camouflaged amongst the foliage. Larger larva rest motionless during the day along larger stems, feeding during the evening. Once mature, larva drop from the tree to the forest floor where they wander a short distance; finding a suitable site the caterpillar will work its way into the leaf litter to the sub soil layer where it will build a cocoon with silk, leaf litter and soil in which to pupate, the life cycle taking a full year to complete.

The food plants have been recorded as *Eucalyptus* spp., and include *Lophostemon confertus*, Queensland Brush Box (Myrtaceae). In February 2009 our late colleague David Keane posed the question in the BCSA Newsletter No 33 "Have You Seen This Moth?" So we ask again have you seen this moth, if you have any pictures or have any records (maybe you are a collector) please send records of sightings to Andrew Lines at info@butterflyconservationsa.net.au or post labelled snap frozen specimens (include your name, collection place and date) in a glad zip bag to Butterfly Conservation SA, Attention Andrew Lines, PO Box 4, Daw Park SA 5041

References:

Moths of Victoria, Part 4, Geometridae (B) – Emeralds and Allies
Moths of Australia, IFB Common 1990
Atlas of Living Australia
Bryton Wood Collection, B&T Haywood
Peter McQuillan, University of Tasmania
South Australian Museum collection
Mike Moore, BCSA



Photo: R.Grund

Glenthorne National Park - Ityamaitpinna Yarta officially proclaimed

A new national park in Adelaide's southern suburbs was officially proclaimed last month with the State Government formally establishing the [Glenthorne National Park - Ityamaitpinna Yarta](#).

Creation of the 545 hectare park will see the establishment of Adelaide's second metropolitan national park, the other being Belair National Park, and bring together Glenthorne Farm, O'Halloran Hill Recreation Park, Marino Conservation Park and Hallett Cove Conservation Park under a single management framework.

O'Halloran Hill Recreation Park will be formally abolished, and that land included within the new park identity. Hallett Cove and Marino Conservation Parks will retain their identities as separate parks but will be managed within the broader Glenthorne framework. Executive Director, National Parks and Wildlife Service Mike Williams said, "The proclamation is an important milestone in increasing South Australia's system of parks and reserves to protect unique environments. In recognition and respect for the Kaurna people as Traditional Owners of the land, the park will be co-named Glenthorne National Park - Ityamaitpinna Yarta.

The natural features of the land within the park provide for expansive views of the city and coast, as well as a refuge for native wildlife in an urban residential area. Large numbers of native fauna are known to live in the area including koalas, kangaroos, and several bird species of conservation significance, including the vulnerable Yellow-tailed Black-cockatoo and the rare Peregrine Falcon. The proposed park is also located within the grey box grassy woodland ecological community which is listed as nationally threatened."

Managing this land under a single national park management plan will create and expand wildlife and vegetation corridors in the southern suburbs, helping native plants and animals to survive and thrive. The Glenthorne Farm property has historical significance for South Australia, with the state's first police commissioner, Major O'Halloran, establishing a farm there in 1839. It contains the remains of buildings from the 1850s and is listed on the South Australian Heritage Places Database.

You can view the video of the Master Plan at the [Glenthorne National Park home page](#).



FRIENDS OF GLENTHORNE NATIONAL PARK UPDATE

APPEAL FOR HISTORICAL ARTEFACTS

Can you help the Friends of Glenthorne track down the many historic artefacts and memorabilia that may be in people's homes and garages?

Glenthorne will soon open to the public as part of our state's new Glenthorne National Park and historical artefacts are being sought for planned displays.

We are particularly keen to locate the wrought iron CSIRO sign which was by the front gate, and the many artefacts which were on display in the stone barn in the 1990s and which have been dispersed over time.

GLENTHORNE BOOK

Glenthorne, a Defining History & Indefinite Politics

Did you know that some very early buildings, in SA's history, exist at Glenthorne. There are plans afoot to have these buildings restored to their former glory (or humble use!) These plans are part of our vision for Glenthorne,

You can learn about the history of these buildings (and others that no longer exist) in our book, "Glenthorne, a Defining History & Indefinite Politics" written by Dr. Pam Smith, Dr. Keryn Walsh, and Mr. Alan Burns. More information on getting your own copy on the Friends of Glenthorne web site. Or you may like to telephone Pam on 0428 315 266 on how to get one.

At just \$40 (\$30 plus \$10 postage and handling), it makes a great gift and is a great read. It is the most detailed written history of the Glenthorne property and we are very proud of it.

Payment can be by way of cheque (posted in the mail) or electronic or cash deposit into the Friends bank account. Note that order forms must also be forwarded with payment to ensure your copy is accurately posted to you.

Bank Account Details

Account Name: Friends of Glenthorne Inc.

BSB: 015-209

Acct No: 198 876 197

Bank Reference: Enter your name

BUTTERFLIES OF A DORRIGO GARDEN and MOTHS

Membership officer Gil Hollamby came upon an interesting site called Butterflies of a Dorrigo Garden - and moths. Under 'news' they feature a great story of the caterpillar totem of the Arrernte people.

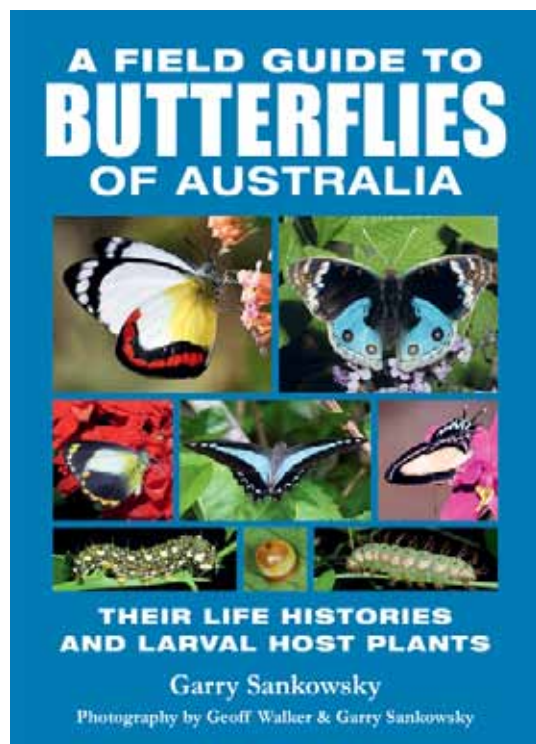
<http://butterfliesdorrigo.weebly.com/news.html>

If you find an interesting website on butterflies or moths let the editor Jan Forrest know.

A FIELD GUIDE TO BUTTERFLIES OF AUSTRALIA

Their Life Histories and Larval Food Plants.

by Garry Sankowsky. Photography by Geoff Walker and Garry Sankowsky.



New Holland Publishers

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Tel: +61 2 8986 4700

Email: orders@newholland.com.au

Website: www.newhollandpublishers.com

THE BOOK

This superb comprehensive guide to Australia's butterflies approaches the subject in a way that no other book does and will be a 'must have' title for enthusiasts everywhere. It includes a staggering 3,000 photos and the key features that make it stand out from the crowd are as follows:

1. All the images are of live butterflies, compared with other guides which often use specimens.
2. Huge number of images document the different life stages (egg, caterpillar, chrysalis, etc.), plus images of both sides of wings, subspecies and males and females where they differ in appearance.
3. It includes pictures of the host plants for each species.

On average each of the 400 butterfly species included has one page of coverage, although some of the larger and more well-known species have up to three pages and some of the smaller species are set at two species to a page. There is a distribution map for each species.

This guide covers everything from the eye-catching Common Jezabel and Ulysses Butterfly, to the gigantic Cairns Birdwing, to the more cryptic Blues and Skippers. The sturdy plastic cover and compact layout make the book ideal for use in the field, and it will appeal to anyone with an interest in butterflies.

THE AUTHORS

Garry Sankowsky has been studying and photographing Australian butterflies for many decades. He started the first butterfly farm in Australia at Mt. Tamborine, Queensland, in the early 1970's. Today he lives in Talga, Queensland.

Geoff Walker has travelled the length and breadth of Australia photographing butterflies, building up an impressive and comprehensive website in the process. He lives in Murrumbena, Victoria.

Pub. Date: May 2020

ISBN: 978 1 92151 788 4

Price: AUD \$45

Words: 7,000

Illustrations: 3,000 colour photographs, 400 maps.

Binding: paperback.



REDUCE YOUR TAX - MAKE TAX DEDUCTIBLE DONATIONS TO THE BUTTERFLY CONSERVATION FUND

BCSA has been recognised by the Australian Tax Office and the Commonwealth Department of Agriculture, Water and the Environment as a Deductible Gift Recipient – in other words, we can receive donations that are deductible from the taxable income of the donor. What that does is reduce the cost to the donor of making a deduction – we hope that will enable people to donate more and will greatly enhance our ability to conserve butterflies, moths and other invertebrates as a critical part of the environment.

We have set up the Butterfly Conservation Fund, with committee members Jan Forrest, Mike Moore and John Wilson. The Fund will receive tax deductible donations, which must not be tied to any specific project. The Committee will identify and fund suitable strategic projects consistent with BCSA's aim.

The Committee are currently in the process of identifying and contacting possible donors, including philanthropic organisations, companies, purchasers of our merchandise, the public and our members. Suggestions of whom to approach for donations will be appreciated, also if you have a project that could be considered for funding please contact the Fund Committee members.

WILD ORCHID WATCH



Wild Orchid Watch (WOW) is a national citizen science project designed to collect, record and share scientific information about Australian native orchids.

The team are very excited to announce that after **two years** of development, testing and collaboration between citizen scientists, orchid enthusiasts and scientists the WOW app is ready to use! You can access the WOW app by going to the internet browser on your mobile device and typing www.app.wildorchidwatch.org.

Wild Orchid Watch Australia is a project within iNaturalist and all photos and data collected using the WOW app will be stored, collated and identified on the iNaturalist platform. If you already have an iNat account you can use it to log in to the WOW app, and if not, it is very easy to create one. WOW app frequently asked questions (including details about the WOW app, photo and data copyright, privacy policy and terms of service) can be found on their website: <https://www.wildorchidwatch.org/faqs>.



For guidance on signing up and getting the most out of the WOW app please see the WOW App Instructional Videos on the website.

Don't forget to follow WOW on facebook, instagram, twitter and youtube.

Eyre Peninsula 'Iconic' Birds Portal

Eyre Peninsula has many amazing but secretive birds. There is a real interest among the general community and Natural Resource Management staff in how the populations of many of our bird species are going. This is particularly the case for what we have called 'iconic' species like the Australian Bustard and Osprey. These iconic birds have very distinctive features, making it easy for correct bird identification by both novices and seasoned bird watchers. This provides a wonderful opportunity for the use of citizen science in contributing to the conservation of these iconic birds, which are often endangered.

Natural Resources Eyre Peninsula staff are therefore asking the community to report their sightings of our iconic birds. This will help them understand where these birds are and what they are doing. To enable the reporting of sightings, a simple reporting portal has been developed so people can quickly enter information in the predetermined information sections. Over time this should give a larger dataset that will help the community as a whole see how these populations are doing. Conservation action can then be undertaken if needed.

SO Have you seen me on EP? If you have, Natural Resources Eyre Peninsula would love to hear about your sightings of any of these iconic birds: Yellow-tailed Black Cockatoo, White-bellied Sea-Eagle, Little Penguin, Bush Stone-curlew, Australian Bustard, and Osprey. Simply go to www.epiconicbirds.com.au and follow the instructions. Your contribution to our knowledge and understanding of these species is highly valued.



iBandi is a new pop-up project for conservation citizen scientists! The project aims to better protect endangered southern brown bandicoots by discovering more habitat. These curious creatures use impenetrable blackberry thickets if there's no suitable native vegetation. The team are looking for habitat they could use – with a bit of help.

If you know of any pockets of suitable blackberry habitat, these little fellas could really use your help! Free workshops will be held in August for citizen scientists. During the workshop, you will be trained in basic field safety, use of the iNaturalist platform, fundamentals for data collection, and will have the opportunity to engage with the community. Through this workshop, you will also gain insight into the importance of bandicoots within ecosystems and discover how we can work as a team to help protect this endangered species.

iBandi is led by Wendy Warren and Dr Jasmin Packer, on behalf of the Environment Institute, The University of Adelaide. It is funded by the Australian Government through the Communities Environment Program, in partnership with Trees for Life Inc. and Department for Environment and Water, until 31 December 2020.

To register your interest for iBandi workshops, or for more information, contact iBandi Co-ordinator, Wendy Warren at w.sp.warren@gmail.com.

CHEQUERED COPPER BUTTERFLY

Are you interested in joining the 'Friends of the Chequered Copper Butterfly' group? If so, contact Chairperson Gerry Butler, see back page for his contact details.

BUTTERFLY GARDEN

a film about attracting native butterflies to your garden is now on utube:

<https://youtu.be/X0-UPHCn2Ko>

Have you ever **wondered** where all the butterflies have gone?



Butterfly Garden is for those people who wish to see more of these beautiful creatures in our suburban gardens. In recent years, numbers of native butterflies have declined in many areas. However, we can reverse this trend by creating butterfly friendly habitat and growing local, native plants.

This short film shows how to create a butterfly garden at your school, in your backyard or in a community garden. Creating a butterfly garden can be fun. Watching the butterflies come to visit is even more fun!

Butterfly Conservation SA
www.butterflygardening.net.au
Front cover photograph taken by BH Fisher

WARNING: This DVD is sold on the condition it is not offered for sale or hire outside of Australia. All other rights reserved. any unauthorised performance, diffusion, and/or broadcast of the DVD or any part thereof is strictly prohibited. Distributed by Butterfly Conservation SA Incorporated.

Butterfly Gardening
CAMPBELLTOWN CITY COUNCIL
DVD VIDEO



Around ten years ago BCSA supported the production of this DVD and we have had it on sale since that time. At the time we held a competition amongst school children for the best cover design and these were the two winners.

The authors Carolyn Wild and Tracy Baron have now decided to cease selling this DVD and put it up on utube for all the use.

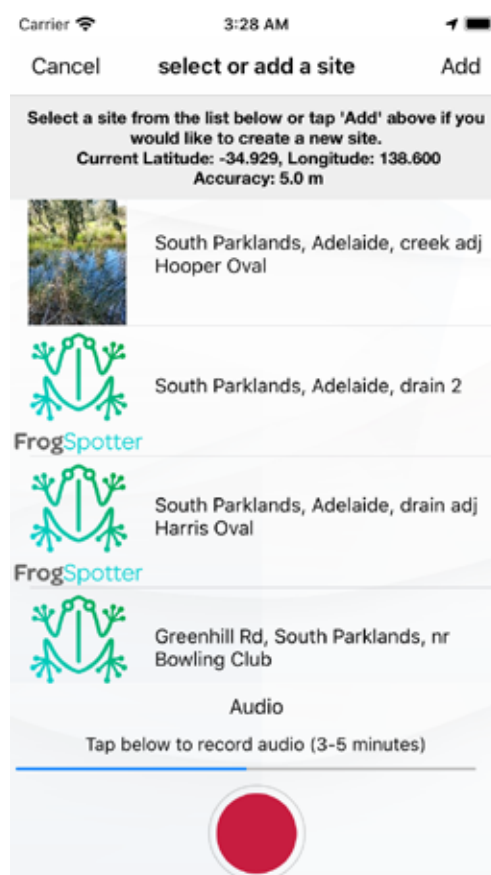
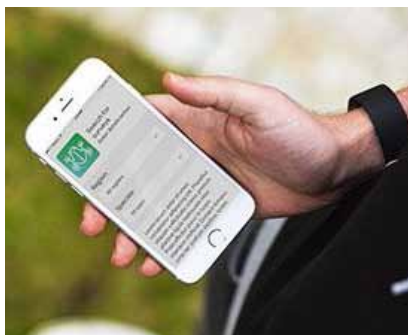
This resource has been particularly useful to schools and gardeners and we thank Carolyn and Tracy for their original efforts and for allowing BCSA to sell this product.

We still have several DVD's available for sale via the on-line shop, at the reduced price of \$7.50, available while stocks last so get in quick!

FrogSpotter app update

FrogWatchSA are delighted to report that the iPhone version of FrogSpotter has finally been updated. The new version is now live on the app store and it should fix the issues that some users had with obtaining site coordinates, random freezing or dropping out of the app. The coding has been upgraded to the latest Apple standard and there have also been some new features added, including displaying the current GPS coordinates and accuracy.

Please let FrogWatchSA know if you continue to experience any problems by emailing: info@frogwatchsa.com.au.



Articles for the next newsletter to:
'The Editor', BCSA Newsletter, C/- editor@butterflyconservationsa.net.au
Please send images separately as a .jpg, not embedded in word documents.

WHERE ARE THE WANDERERS AND THEIR FOOD PLANTS?

John Wilson

In the last Newsletter, I was puzzled about why Lesser Wanderers are rarely seen in Adelaide but are more seen north of Adelaide, and asked members for feedback. Was the abundance of Lesser Wanderers due to the availability of the native and exotic milkweeds?

Eight members and non-members have provided 35 locations near Adelaide where there is milkweed. At 13 of these locations, Lesser Wanderers have been observed including hundreds of animals near Gawler and on the eastern slopes. There have only been 2 locations with a total of 5 individual animals in the last 3 years reported in suburban Adelaide. Why? There is plenty of milkweed and it's only 40km to Gawler!

Attached is a summary table of the Wanderer and milkweed sightings so far. These include latitude and longitude, which can be copied and pasted into Google Earth. We are hoping to get more data and set up an interactive map, accessible from the BCSA website. In addition to location, we are collecting sighting date. Over time, this may help find whether Lesser Wanderers are "blown in" on the weather or simply migrate from early season breeding grounds in the north – similar to what the Wanderer does in North America (but in the opposite direction).

Maybe the Lesser Wanderer prefers warmer, dryer conditions? Maybe it prefers the native milkweeds rather than the African broadleaf milkweed (*Gomphocarpus cancellatus*)? It appears that the native milkweeds prefer dryer conditions and so are more northerly. How far north do the exotic milkweeds go? – the current data suggests that the broadleaf is less common in the north and certainly the narrow leaf milkweed (*Gomphocarpus*

fruticosus and *G. physocarpus* – similar species and both from Africa) prefer wetter conditions. Does the Lesser Wanderer migrate or get blown in from the north?

As I mentioned, last year I had a lot of contact with a weed control officer working near Tennant Creek who was trying to control yet another exotic milkweed (he called it "rubber plant") from Asia. He found that a caterpillar was eating and damaging the plant and could be a biological control. It turned out that the critter was our friend, the Lesser Wanderer!

Below left is an image provided in April by Helen Wilmore from Gawler East. This has both a Lesser Wanderer caterpillar (Australian) and a Wanderer caterpillar (or Monarch, from North America) on the same narrow leaf milkweed plant in her garden. This very clearly shows the distinguishing features between the two species: the Wanderer is striped and has two pairs of "horns" compared with the Lesser Wanderer with three pairs of "horns" and splotches of yellow. The chrysalises are also quite different- the Wanderer is bright green, whereas the Lesser Wanderer is a bit smaller and creamy-brown coloured.

Below also a photo of Wanderer (Monarch) butterflies on broadleaf milkweed at Marino, and a photo of a Lesser Wanderer caterpillar on broadleaf milkweed in the southern Barossa.

If you do come across milkweed and butterflies on your trip, grab a photo and note the latitude and longitude (to as many decimal points as are reasonable) and time/ date. This will enable me to map the plants and critters geographically and over time.

Please send images and sighting information to me c/- info@butterflyconservationsa.net.au



Above: Lesser Wanderer top and Wanderer caterpillars on the same narrow leaf milkweed plant.
Left: the creamy-brown coloured chrysalis of the Lesser Wanderer. Photos Helen Wilmore.
Top right: Wanderer pupa Photos: LFHunt
Below: Adult Wanderers. Photo: Colin Cock



Source	Butterfly and larva sighting	Location	Latitude and longitude
GH	LW adults	Mannum-Adelaide Rd between Tungkillo and Palmer	34 49' 30"S 139 07' 03"E
GH	LW adults	Where Normanville-Cape Jervis Rd deviates inland	35 28' 53"S 138 16' 31"E
GH	LW adults, some W adults	Between Yalunda Flat & Cummins on Bratton Way near Cummins Golf Course. Plants not located	34 19' 40"S 135 48' 08"E
GH	Plants, never LW	Williamstown	34 40' 05.34"S 138 53' 15.93"E
HW	LW larvae	On garden Gomphocarpus fruticosus & Asclepias curassavica	34 35' 31.70"S 138 45' 50.65"E
HW	LW larvae	Corner Railway Tce & Ann Milroy Lane	34 36' 11"S 138 47' 43"E
HW	LW larvae	Halfway between Kalperri Rd & Williamstown Rd	34 36' 15.62"S 138 49' 14"E
HW	LW larvae	Rd	34 33'18.88"S 138 58' 41.75"E
HW	Plant only	Broad area ENE of Krondorf	34 33' 36"S 139E approx
KS	LW adult	Main St Hahndorf	35 01' 40.61"S 138 48' 32.21"E
KS	W larvae	Morialta	34 54'3" S 138 42'24" E
KS	Plant only	N side of Cleland Wildlife Park	34 57'55" S 138 41'38" E
KS	W adult	Cobbler Ck	34 57' 40"S 138 41'28"E
KS	W larvae	Wheal Watkins Circuit Burnside	34 57' 40"S 138 39' 33"E
KS	W larva	Pink trail above Queens Jubilee Drive, Belair NP	35 00'36" S 138 39'02" E
KS	W larvae	170 Brownhill Ck Rd	34 59' 28.42"S 138 37' 59.65"E
KS	Plant only	Craigburn Farm	35 02'20" S 138 35'43" E
KS	Plant only	Belair National Park near Joseph Fisher Pavillion	35 00'36" S 138 39'02" E
KS	Plant only	Coast track near Cove Rd Marino	35 03'15.52"S 138 30'18.27"E
KS	W larvae & adults	Marino Conservation Park	35 03'09" S 138 30'41" E
KS	No	Shepherds Hill	35° 00' 58" S 138° 35' 31" E
KS	No	Shepherds Hill	35° 01' 03" S 138° 35' 29" E
KS	Plant only	Second Falls Morialta	34°54'30.6"S 138°42'31.0"E
KS	W larvae	Close to Second Falls Morialta	35°0'57"S 138°39'1"E
JW	LW adult & larva	Near White Bridge Brownhill Creek Recreation Park	34 59'29.00" S 138 37'47.10" E
RS	LW larvae	Flinders Uni carpark	35 01' 32" S 138 34' 13" E
AF	W larvae	Crafers West	35 00'04.56" S 138 40'16.29" E
AF	Plant only	Glen Osmond	34 57'47.11" S 138 39'25.18" E Location needs to be checked
AF	Plant only	Maurice Rd near Mobilong Prison	35 06' 49.74" S 139 13' 34.32" E
AF	LW adults and larvae	Between Callington and Monarto South	35 07'19.98" S 139 04'41.93" E
AF	LW larvae	Between Callington and Monarto South	35 07'38.62" S 139 04' 25.53" E
AT	W larvae	Tilley's Hill Rd, Brownhill Ck	34 59'16.15"S 138 39'22"E
KC	Plant only	Near Top Mannum Waterfalls	34 55'38"S 139 34'19"E
KC	Plant only	E side of Murray near Walker Flat	34 45'20"S 139 34'19"E
ET	Lot of LW larvae & small number of W adults and larvae	NE of Mallala	34.40894S 138.585170E

Butterfly Conservation South Australia Inc.

presents the tenth

PUBLIC TALKS PROGRAM for 2020

On the first Tuesday of the month March to November at 6.15pm for a prompt 6.30pm start.

At the Plympton Community Centre

34 Long Street, Plympton.

(200 metres E of Marion Rd, and 300 metres N of Anzac Highway).

Public transport options include:

Bus from the city via Anzac Highway.

Routes: 245, 248, 262, 263, 265, M44, N262.

Closest stop is Stop 9, then approximately 350 metre walk along Long Street.

Bus from the city via Marion Road.

Routes 100, 101, H20. Closest stop is Stop 10 (east side is approximately 100 metres south of Long street). Stop 10 (west side is on the other side of Moringie Ave.

approx. 100 metres north of Long Street). Then approx. 250 metre walk along Long Street.

Entry by donation (minimum of \$2).

Bookings not required

Please bring supper to share and your own cup, tea/coffee will be supplied.

Meetings should conclude by 8.30pm.

At the start of each meeting a ten minute presentation on a 'Butterfly of the Month' will be given by a BCSA committee member.

DON'T FORGET TO BYO CUP.

In the case of an advertised speaker not being available, a speaker of similar interest will replace that advertised.



Photo RHFisher: Painted Lady butterfly *Vanessa kershawi*

APOLOGY

My apologies to Louise Stockburger (guest speaker in August) for spelling her name incorrectly in the Public Talks Program. It was one of those initial errors that crept into the text and was never changed.

Jan Forrest, Newsletter Editor.

At the time of printing the 1st September talk will be held face to face in the Plympton Community Centre with option for members to view the venue presentation via ZOOM.

Due to hall restrictions, unfortunately supper will not be available.

Members will be advised via email if any changes are made due to COVID 19 restrictions.

1st September 6.30pm BCSA AGM of BCSA.

7.00pm Public Talk BIOLOGICAL SURVEYS IN AUSTRALIA AND THEIR VALUE TO SCIENCE.

Dr. Cath Kemper, Curator of Mammals at the South Australian Museum has undertaken vertebrate surveys in outback Australia for the best part of thirty years. She will talk about and show images of some amazing outback locations and important vertebrate finds. She will also explain why Museums collect and how these collections not only provide us with important distribution data but are pivotal to future conservation efforts.

Dr Catherine Kemper did her undergraduate studies at University of British Columbia, Canada and PhD at Macquarie University, Sydney on a small native rodent.



The first 20 years of her zoology career were devoted to researching small mammal ecology and life history, a topic that led her to field work in Malaysia and many parts of Australia.

Although Cath has concentrated from a research perspective on marine mammals in the last 30 years, she keeps up her knowledge and expertise on terrestrial mammals and considers herself a generalist mammalogist.

Keeping in touch with the terrestrial species is done through field surveys of many parts of SA, including the remote arid regions, writing keys to identifying terrestrial mammals, attending the annual meetings of the Australian Mammal Society and answering public inquiries. She has also published some scholarly research papers on terrestrial mammals during that time. One of her aims during retirement is to dig out data collected many years ago and publish on these.

During the period of active biological surveys in SA (1980–2010), Cath went on many surveys with the Environment Department staff. She also led and contributed to many Waterhouse Club surveys in SA. Many of her holidays are spent with her partner, Graham (an ornithologist), in remote parts of the state, observing and collecting mammal specimens for the SA Museum collections.

Examples of current research on marine mammals include: taxonomy and distribution of southern Australian dolphins in the genera *Tursiops* and *Delphinus*; biology of the Pygmy Right Whale, *Caperea marginata*; diet and life history of dolphins, whales and seals, including age estimation using teeth; diseases and parasites; morphology and anatomy population genetics of Indo-Pacific bottlenose dolphins (*Tursiops aduncus*).

At an award function at the launch of National Science Week in August 2016 Dr Catherine Kemper was honoured as South Australia's Unsung Hero to science.

We look forward to hearing from Cath on her experiences on biological surveys in remote parts of South Australia.

Dr Cathrine Kemper - her story on youtube
<https://www.youtube.com/watch?v=sF2RZ7-ZMYE>

PUBLIC TALKS PROGRAM - JUNE - AUGUST 2020

6th October: MARALINGA AND EMU, A DARK CHAPTER IN AUSTRALIA'S HISTORY.

BCSA committee member Jan Forrest OAM will trace the history of the British atomic bomb tests at Emu Field and Maralinga in the 1950s including the clean-up phase and present-day images of the flora and fauna found in this remarkable area of the South Australian landscape.

Jan Forrest OAM is an Honorary Associate at the South Australian Museum as well as Public Talks Convener and Newsletter Editor for Butterfly Conservation South Australia.



She is a life member of Girl Guides South Australia and in 1981 was awarded the Medal of the Order of Australia (OAM) for her work with young people through the Girl Guides, Youth Hostels Association and Duke of Edinburgh Award Scheme.

Jan first visited Emu in 1976 with a Museum expedition and has visited both Emu and Maralinga a number of times since, undertaking scientific projects in this special part of South Australia with the South Australian Museum and as a member of the Friends of the Great Victoria Desert.

Jan will trace the history of the Maralinga and Emu British bomb tests and discuss the impact these events have had on the country and the indigenous communities.

She will also show images of the desert plants and animals and provide an overview of some of the projects presently being undertaken by the Friends of the Great Victoria Desert group.

3rd November: 20 YEARS OF MONITORING BUTTERFLIES

BCSA committee member Bryan Haywood will provide an historic overview of the Penambol Butterfly Walk including how to set one up and the findings after 20 years of monitoring at this site. He will also highlight some of the South East butterfly species not seen in other parts of the state and the conservation efforts currently being undertaken to conserve these species.

Bryan Haywood has over 20 years of professional and volunteering experience in a range of natural history fields, and is an accomplished and widely respected field naturalist. Bryan has a particular passion for ornithology and entomology, but also has excellent knowledge of flora and vegetation communities. Bryan has been a member of BCSA since 1998, and joined the committee in 2012.



Bryan helped set up the Penambol Conservation Park Butterfly Walk in 2000 which is a weekly monitoring transect for butterflies running from November to April each year, in the state's South East region. Professionally, Bryan works for Nature Glenelg Trust and currently manages the Mt Gambier Office and Nursery site including a 15,000 plant capacity nursery, seven (full-time, part-time and casual staff) and an increasing number of volunteers.

Bryan's main role on the BCSA's Committee is as our Threatened Species advocate of which he has been influential in a recent decision by the government to list invertebrates under state legislation - providing long term protection and acknowledgment of the significance of our wonderful invertebrate fauna.

BUTTERFLY CONSERVATION SA

Members are advised that the ANNUAL GENERAL MEETING and PUBLIC TALK - Biological Surveys in Australia and their value to science presented by Dr. Cath Kemper will be held at the Plympton Community Hall and via ZOOM on 1st September, 2020 from 6.30pm.

Register in advance for this meeting:

<https://us02web.zoom.us/join/tZckc-mqpgtH9Lma0WjssbiqfpOrt5p740q>

After registering, you will receive a confirmation email containing information about joining the meeting.

NOMINATION FORM for the 2020 – 2021 year

Completed Nomination Forms can either be emailed to (secretary@butterflyconservationsa.net.au) or posted (PO Box 4, Daw Park, SA 5041), or hand delivered to the Secretary at AGM. You may nominate yourself.

I (name of nominator), being a member of Butterfly Conservation SA,

hereby nominate:

to the position of: Chairperson, Secretary, Treasurer, Committee Member (please circle)

Tasks on the committee can include: minute secretary, web master, social media co-ordinator, public talks convener, newsletter editor, sales manager. If you have an interest in assisting in one of these roles please circle.

Signed: (Nominator)

Seconded by:

Nomination accepted:

WHAT'S FOR SALE? - IN OUR ON-LINE SHOP

BOOKS *"Caterpillars, moths and their plants of southern Australia"* **NEW** Published BCSA September, 2019 Our price \$30, plus postage.

"Attracting butterflies to your garden, what to grow and conserve in the Adelaide Region" **NEW EDITION** Published by BCSA 2016 - Our price \$25 (financial members may purchase a book for \$20) plus postage.

"The Making of a Monarch" by Linda Shmith, has now been reprinted. Cost \$20 plus postage.

DVD *"Butterfly Garden"* produced by Tracy Baron and Carolyn Herbert - \$20 each (BCSA financial members price \$15) Plus postage.

POSTERS *"Spiders and their allies of the Adelaide Region"* Published by BCSA 2014. \$10 a set of two, plus postage.

"Moths of the Adelaide Region" \$10 Set of four A3 plus postage. Free download available.

Single posters: *"Bats of SE South Australia"* and *"The Bilby - Endangered Species"* posters are available for \$5 each, plus postage.

FREE Orchid Posters. Plus postage. Posters are free to schools, but incur postage.

SITE SIGNS: to obtain an application form to register a butterfly site click on the site sign logo. Cost \$50 includes postage.

PLANT TAGS: See list and form available on website. \$2.00 per tag, inc. plastic stake and postage.

If you would like become a member, order any of our merchandise, including books, plant tags, site signs or posters check out the **ON-LINE STORE** at <https://butterflyconservationsa.net.au/shop/> For queries please email: info@butterflyconservationsa.net.au.

BUTTERFLY CONSERVATION SA Inc.

An affiliated organisation of the South Australian Museum and Friends of Parks.

Postal Address; PO Box 4, DAW PARK 5041 South Australia

Email: info@butterflyconservationsa.net.au

Chairman: Gerry Butler - chairman@butterflyconservationsa.net.au 0407972149

Secretary: Brett Oakes - secretary@butterflyconservationsa.net.au 0415 997 526

Treasurer: Divya Patel - treasurer@butterflyconservationsa.net.au

Membership: Gil Hollamby - membership@butterflyconservationsa.net.au

Newsletter Editor and Public Talks Convener: Jan Forrest OAM -

editor@butterflyconservationsa.net.au C/- South Australian Museum.

Committee: Andrew Lines, Beth Keane, Bernadette Johnson, Bryan Haywood (endangered species advocate), Anne Frodsham, Cristy Seymour (Social Media) Andrew Walters also Gerry Butler (publications and merchandise) publications@butterflyconservationsa.net.au.

Consultants: Roger Grund and Dr. Peter McQuillan.

Public Officer: Beth Keane

DIARY DATES

COMMITTEE MEETINGS - Meetings are normally held bi-monthly (usually the second Monday of the month) at 6.00pm at a committee member's home. All members are welcome to attend. If you would like to attend please contact Chairman Gerry Butler on 0407972149.

PUBLIC TALKS PROGRAM 2020: first Tuesday March - November, at the Plympton Community Centre, 34 Long Street, Plympton. 6.15pm for a 6.30pm start to 8.30pm. with an option for some talks to be viewed via Zoom. Please watch your email for information regarding public talks.

Next talk: **1st September 6.30pm AGM. Public Talk 7.00pm Biological Surveys and their value to science, presented by Dr. Cath Kemper.**

WEB SITES

BCSA official website - Butterfly Conservation SA - www.butterflyconservationsa.net.au
The former domain name **Butterfly Gardening** - www.butterflygardening.net.au is also still available and links directly to the new BCSA site.

South Australian Butterflies and Moths - <https://sabutterflies.org.au> (authored by Roger Grund).

NRM Education - <http://www.naturalresources.sa.gov.au/adelaidemtloftyranges/home>
'Get involved' - 'Education' - for students, **school monitoring activities** / for educators.
See also other regional NRM Education sites

WELCOME TO NEW MEMBERS

Sarah McKenzie
Kathryn Scott
Jonathon Milford
Chris Adcock
Sandra Way
Kerry Homer
Lenni Shore
Kim Zadarich
Andy Crawford
Lisa Mascord
Meridith Bogisch
Brittany Norris
Robert Hockey
Charmaine Burton
Matthew Endacott
Kathy Frith
Louise Flaherty
Cathy Fowler
Meg Harris
Lisa Weidenbach
Lauren Bennett
Naomi Campbell
Divya Patel
Darlene Heaysman
Erica Boyle
Suzanne Minards
Melissa Buske
Kelly Chadwick
Nadine Guthrie
Gabriel Jones

SPECIAL WELCOME

to our new Treasurer
Divya Patel



KONICA MINOLTA

Thanks to Chris Lane and
Konica Minolta for their generous
support to BCSA.

Konica Minolta is a Landcare Australia
National Partner



Butterfly-Conservation-South-Australia



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