

Number 214  
9 January 2015

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## 2015, here we come!

I had a wonderful festive break, spending considerable time out camping, or finding this damselfly larvae in a saline (half seawater) lake near the Coorong. Just goes to show, it is surprising where you find things.

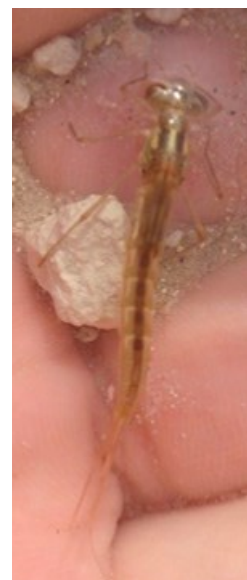
Slightly bemused as to where 2014 went, I arrived back at the office on Monday to a pile of correspondence on future events and opportunities. There is a lot on the calendar over the next few months!

Between renewed dredging of the Murray Mouth, two World Wetlands Day events (an information exchange and a film festival) and a huge range of smaller grants that have opened over the Christmas Break, I think we will all be very busy.

This week, I visited a number of landholders, impacted or fighting off the Sampson Flat bushfire, reminding me of the importance of community and making the DEWNR article on Spring Prescribed Burns particularly timely.

For the adventurous, we also have a request to help collect Redback spiders for research into the effectiveness and possible improvement of antivenoms. with more information on this within the newsletter.

Faith Coleman



## Break-in at the Hindmarsh Island Nursery

Thieves recently broke in to the Hindmarsh Island Nursery, taking various power and hand tools, with a replacement value of at least \$2,500, plus a need for shed repairs to due to damage from the break-in.

Various members have donated tools, but there is much to still be replaced.

On a lighter note - Jo spent a couple of hours assisting the police and being eliminated from the suspect list ...

*Photo from the Hindmarsh Island  
Nursery Newsletter.*



# WETLANDS FOR OUR FUTURE



FREE  
EVENTS

## COORONG AND LAKES ENVIRONMENT FORUM

Friday January 30th 2015 9:30am - 3.30pm  
Alexandrina Council Chambers — 11 Cadell St GOOLWA  
LUNCH PROVIDED — Please RSVP by 28th January to Lakes Hub

### PAST, PRESENT AND FUTURE

*A day of sharing knowledge and ideas with presentations and open panel discussions  
with scientists, researchers and community about the health of the Coorong and Lakes.  
Come and find out more about this unique part of the world.*

## WORLD WETLANDS DAY FILM FESTIVAL

Sunday February 1st 2015 10am - 6 pm  
CENTENARY HALL— 14 Cadell St GOOLWA  
FILMS FOR ALL THE FAMILY



The Lakes Hub is an initiative of the Milang and District Community Association Inc. funded under the Coorong, Lower Lakes and Murray Mouth Program by the Australian Government and the South Australian Government's Murray Futures program.

For further information & RSVP: [info@lakeshub.com](mailto:info@lakeshub.com) or  
(08) 8537 0808. Programs available [www.lakeshub.com](http://www.lakeshub.com)

World Wetlands Day  
Monday, 2 February 2015



The Living Murray is a joint initiative funded by the NSW, VIC, SA, ACT & Commonwealth governments, coordinated by the Murray-Darling Basin Authority.



Government of South Australia  
Department of Environment,  
Water and Natural Resources



World Wetlands Day is made possible by the Danone Fund for Water.



Wetlands for our Future



# WORLD WETLANDS DAY



**SUN 1<sup>st</sup> FEB. 2015 10 am**  
**GOOLWA Centenary Hall**

**FREE EVENT: FILMS FOR THE WHOLE FAMILY**

**Come for the day or come for a session**

**Full Program available at [www.lakeshub.com](http://www.lakeshub.com)**

**Featuring International, Australian and Local Films  
exploring the World Wetlands Day theme;  
“WETLANDS FOR OUR FUTURE”**



## Murray Mouth dredging to start today

(Media Release 09/01/2014)

Dredging operations are due to begin at the Murray Mouth today in order to maintain connectivity between the river and the Southern Ocean.

The State and Commonwealth Governments announced in December that dredging would be undertaken to keep the mouth open.

A dredging contractor has been engaged to undertake the work and during the past two weeks has been mobilising in preparation for dredging.

Department of Environment, Water and Natural Resources Water Resource Operations manager Jarrod Eaton said the mouth has been at risk of closing due to lower than average flows in the River Murray and the situation has deteriorated rapidly in the past 12 months.

*"Flows within the River Murray are currently insufficient to provide for scouring flows at the mouth and the rainfall outlook for the next three months indicates dry conditions are likely to continue, which reinforces the need to dredge,"* Mr Eaton said.

*"It's important that the mouth remains open to allow the exchange of water between the Coorong and the Southern Ocean which helps to keep Coorong ecosystems healthy."*

*"Dredging was required for eight years during the Millennium Drought to keep the mouth open."*

*"During dredging operations there will be some changes to public access to the mouth, and at times there may be restrictions on passage past and through the mouth and along Sir Richard and Younghusband Peninsula next to the mouth."*

*"The northern tip of Younghusband Peninsula in the Coorong National Park will also be closed. Signage has been installed at boat ramps, along the beach, and in other public places to inform people of any changes to access."*

*"We are attempting to minimise disruption to boat operators, but at times there is likely to be restricted access to the Goolwa and/or Tauwitche Channels and along the beach."*

*"We ask that boat operators and other people in the area obey all signage and stay away from exclusions zones around dredging operations in the interests of their own safety."*

Dredging will be carried out until at least the end of June 2015.

Updates on dredging operations will be provided in the River Murray Weekly Flow Report which is available [online](#).

Further information about the Murray Mouth Dredging Project is available from [www.naturalresources.sa.gov.au/samurraydarlingbasin/projects/all-projects-map/keeping-the-murray-mouth-open](http://www.naturalresources.sa.gov.au/samurraydarlingbasin/projects/all-projects-map/keeping-the-murray-mouth-open).

For queries relating to the dredging operations, contact: Michael Shelton, SA Water. Email: [Michael.shelton@sawater.com.au](mailto:Michael.shelton@sawater.com.au). Phone 08 8555 2046.



Government  
of South Australia



Natural Resources  
SA Murray-Darling Basin



Australian Government



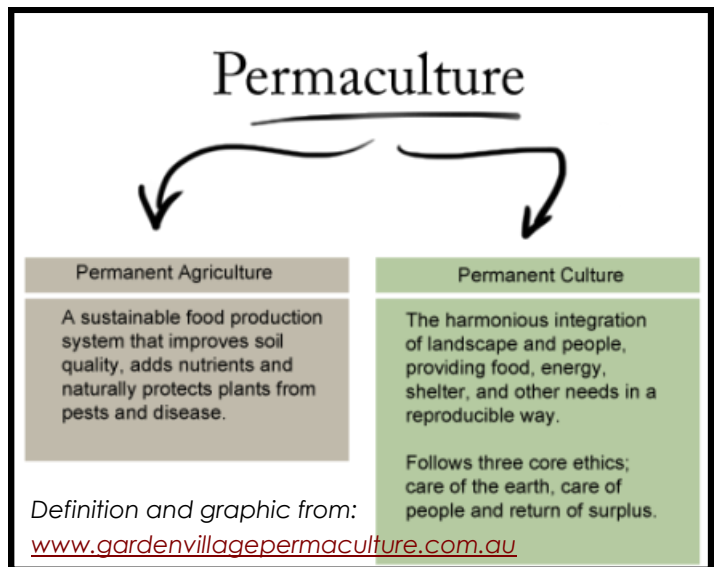
## 2015 Southern Fleurieu Permaculture Group Events

**Visit to Cindy's Garden**, 31 Katherine Drive Normanville. Friday January 23rd, 5.30pm

Cindy's three-year-old permaculture garden is set on a quarter acre in Normanville township. Incorporating chooks, worm farms and composting, the garden includes a productive vegetable patch and combined herb/fruit/ornamental gardens to save space. See imaginative recycling in action, including a worm farm in an old fridge, as well as a passive solar house that requires very little heating and cooling.

Arrive 5.30pm for a shared dinner at 6pm, followed by evening garden tour. Child friendly.

Sharing table (potted plants, fruit/veg, seeds, seedlings etc).



**Basham's Beach Tour.** Saturday April 18th, 10am. Guided tour of Basham's beach to view edible and useful coastal plants. Details of where to meet to be confirmed. Lunch afterwards for those who are interested.

Contact Desmond Ford  
[dtford24@bigpond.com](mailto:dtford24@bigpond.com)) for more information.

## HILG New Year get-together

Our annual HILG get-together is on again!

**Come along and celebrate the start of  
a brand new  
growing & planting year**

**Saturday 17th January, 5pm onwards**

**At Paula's (last gate on Grundy Road)**

*What to bring ...*

A salad or dessert to share,  
a drink (& a glass), something to sit on,  
& something to add to the entertainment!

**RSVP to Jill by Mon 12th January**

ph 0428 843 327

or email [jill-roy@bigpond.com](mailto:jill-roy@bigpond.com)

**Everyone welcome!**

## Activities Program

### Summer 2014/15

Tuesday	6 Jan	propagation / maintenance
<b>Saturday</b>	<b>17 Jan</b>	<b>New Year get-together</b>
Tuesday	20 Jan	propagation / maintenance
Tuesday	3 Feb	propagation / maintenance
Tuesday	17 Feb	propagation / maintenance
Tuesday	3 Mar	propagation / maintenance
Tuesday	17 Mar	propagation / maintenance

*Unless otherwise indicated, **all working bee activities**  
will be at the **HILG Nursery**, Ferryman's Reserve,  
from 9.30am until 12 noon.*

For further information please contact  
**Jo McPhee** ph 0497 911 419



## Spring prescribed burning

(Media Release 11/12/2014)

This season DEWNR conducted 20 prescribed burns across approximately 1400 hectares of land. In addition, three burns treating 42 hectares, and four burns treating 84 hectares, have been completed on behalf of SA Water and ForestrySA respectively.

This brings the state-wide total for spring to 27 prescribed burns which have reduced fuels across more than 1550 hectares of public land. This includes 21 burns in the Mount Lofly Ranges, treating more than 500 hectares of high-risk public land.

November set a new weather record for max and mean temperatures. This follows on from a similar outcome in October with soil dryness indexes typically two months in advance of where they should be and are more reflective of typical mid-summer figures. As a result, it has become difficult to conduct burns safely and the Spring prescribed burn program was concluded with the Mt. Osmond prescribed burn on the 4th of December.

A 42 ha burn planned for Deep Creek CP during mid-spring was postponed as it was found that the nationally endangered Southern Emu-wren was observed across the site and given the time of year may have been nesting. It was decided to not burn the area because of the potential impact on nesting birds.

A 72 ha burn planned for Mount Bold Reservoir was also postponed as a pair Wedge tailed Eagle fledglings were sighted in a nest at the site.

Both burns will be rolled over to the 2015 autumn season.

2014 started off the year with several significant bushfires across the state. The Bangor bushfire in Northern and Yorke region, and Billiatt (pictured above, 6 months post-fire), Calperum and Ngarkat bushfires in SA Murray Darling Basin region have been selected for ongoing post-fire monitoring. Fire monitoring is used to observe changes in the landscape to learn and therefore improve future management practices on public land.

DEWNR have undertaken, and will continue to undertake fire severity mapping; fuel accumulation monitoring; bushland condition monitoring; and flora vital attribute monitoring.

Stay informed about prescribed burns by signing up for email notifications on the Fire Management website.

Alternatively contact the Fire Management Team on 09 8124 4833 or email [DEWNRFireManagement@sa.gov.au](mailto:DEWNRFireManagement@sa.gov.au)



## NRM SA MDB Agricultural and Fishing Innovation Grants Now Open.

Natural Resources SA Murray Darling Basin has called for applications for its 2015 NRM Agricultural and Fishing Innovation Grants. This program includes, but is not limited to the following activities:

- \* Trials and demonstrations of innovative agricultural or fishing practices and technologies
- \* Development of innovative agricultural or fishing practices and technologies
- \* Increase on farm adoption of innovative agricultural or fishing practices and technologies
- \* Promotion of innovative agricultural or fishing practices and technologies.

In addition, to be successful projects must demonstrate the following:

- \* Located within or for industry within the SAMDB NRM Region
- \* Innovation will provide increased profitability and a resource sustainability benefit.



### How much can be applied for?

The total amount of funding available through the NRM Agricultural and Fishing Innovation Grants Program is \$200,000. There are two tiers of grants.

Tier 1 - Up to \$10,000 (GST Exc.). These are intended for smaller projects and will make up to \$50,000 of the total amount of funding

Tier 2 - From \$10,000 to \$25,000 (GST Exc.). These will make up the remainder of the total available grant monies

### What is the opening and closing date for applications?

Applications are open from 9am on Monday 5 January 2015 and close at 5pm on Thursday 19 February 2015.

### When do projects need to be completed by?

Projects must be completed, all funding acquitted, and project final reports completed and submitted on or before Friday 25 March 2016. There will be no opportunities for project extensions.

### How to apply?

Grant guidelines and application form can be obtained from the [Natural Resources SAMDB Website](#).

For more information or to test your idea for a project please contact Tony Randall, Sustainable Farming Program Coordinator, on [tony.randall2@sa.gov.au](mailto:tony.randall2@sa.gov.au) or phone (08) 8532 9101 or 0427 834 396.





## Natural Resources South East News

### Aboriginal Grants

Natural Resources South East is inviting applications to their Aboriginal Community Grants Program with funding of up to \$5000 for eligible projects.

The Aboriginal Community Grants Program offers funding for projects that engage Aboriginal people or groups in awareness raising, education or on-ground activities that will positively impact our regions natural resources and increase awareness of Aboriginal Culture.

This could include small on-ground projects, events, training, workshops and other community engagement activities.

Applications are invited from individuals and community groups within the South East Region. Applications must be received by 28th February 2015. Details and application forms available on their [website](#).



Cultural water and education day, South East NRM Board.

### Frog Census

Frogs play a crucial role in developing and maintaining a healthy environment. To help understand frogs better, where they are living, where they are declining and other factors, community members are being asked to get out and count frogs.

It is easy and fun and you will make a positive difference. Any age can do it. All you need to do is visit our recording [website](#) and:

1. Register (you will get an email saying you have registered and then another when you are approved)
2. Find frogs
3. Log into the website with your username and password and say where you found the frog and what type of frog it is.

If you don't know a lot about frogs, the website has pictures and descriptions to help you, plus maps to pin-point its location. You can even listen to their croaks and calls on the website to help you with identification.

If you take a picture or recording of the frogs in question, Steve Clarke ([steve.clarke@sa.gov.au](mailto:steve.clarke@sa.gov.au)) can help you identify it.

*For those in the South Australian Murray Darling Basin Region, the Goolwa to Wellington LAP also undertakes frog monitoring. Natural Resources SA MDB have a [community monitoring portal](#).*

### Natural Resources Sponsorship program

The Natural Resources Sponsorship program offers funding for short projects to engage groups or the wider community in awareness raising, education or on-ground activities that will positively benefit our Natural Resources. This includes events, small on-ground projects, field days, training and workshops, exhibitions or other community engagement activities. Any community group, volunteer group, service club, sporting club or school can apply for funding of up to \$2000 (GST exclusive) per project. Sponsorship is available all year round.

To apply, read the [application guidelines \(165kb pdf\)](#) and complete the [application form \(180kb doc\)](#).





## Living Memorials program

Conservation Volunteers (CV) is developing a new program to commemorate the centenary of the First World War.

During the coming four years CV will play an important role in the centenary commemorations. In honour of the courage and sacrifice shown by our forebears during this turbulent period in our history, CVA is launching a programme called *Living Memorials*.

*Living Memorials* aims to support locally driven activities that engage the community in commemorative events that are linked to our shared

ANZAC heritage. Through the financial and in-kind support of the corporate community, we will create over 100 living memorials across Australia and New Zealand during the next four years. In doing so, we will provide an enduring legacy that future generations can behold and cherish.

CV is now seeking expressions of interest, to help creating a suite of suitable projects for further scoping. These could be new or existing projects that require additional support. Projects may include the restoration of existing Avenues of Honour, community memorials or the creation of new living memorials such as walkways, community or native gardens.

Projects aimed at restoring the environmental health or 'fitness' of our land will also be considered if they have clear links to the commemoration. Such projects link us back to the soldier settlements of the day and the intention of governments to provide 'Land fit for Heroes'. Examples may include planting a named section of bush with one hundred trees, or even planting trees over an area of 100 hectares.

If you have a project that you would like to nominate for this programme, please complete the [Project Nomination Form here](#).



Any individual or community group is welcome to nominate a project for consideration as part of *Living Memorials*. The first round of successful applicants will be notified by January 31<sup>st</sup>, 2015 and their projects will be supported by the large regional network of the CV organisation across both Australia and New Zealand.



## Australia cooked through the third hottest year on record.

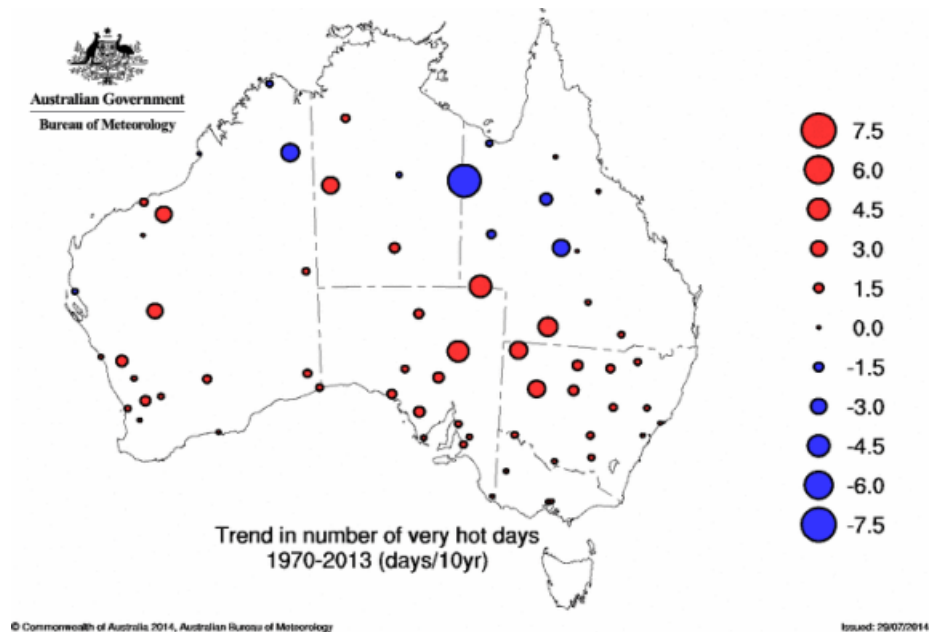
(Extracted from [article](#) by David Twomey, 02/01/2015)

It is likely that 2014 will go down as the planet's hottest year on record, at least since scientists started keeping track of global temperature.

Even with the planet pushing for new global heat records, not all regions sweltered year-round in 2014. Scientific American reports for instance, parts of North America suffered from extreme cold in January and February. That said, there were plenty of places where heat records fell this year.

Here is a look at five places that will help push 2014 into the global warming record books.

**Australia:** 2014 was the third hottest year on record for Australia. For the second year in a row, Australians saw heat records topple from the Gold Coast to the Coral Coast. The country kicked off January with an extreme heat wave; temperatures soared higher than 49.0°C. Heat waves in the autumn (March to May) and spring (September to November) also drove temperatures into the record books.



**Eastern Pacific Ocean:** Toasty temperatures developed in the eastern Pacific Ocean, despite an El Niño that never appeared. The heat was especially notable off the western coast of the United States. Fishing boats spotted species well north of their range, such as a giant ocean sunfish offshore of Alaska.

**Siberia:** Central Siberia defrosted in spring and early summer under temperatures more than 5.0° C above its 1981 to 2010 average. Ice on the Ob River began to break up two weeks earlier than normal. The heat may have unleashed methane gas trapped in previously frozen permafrost, triggering underground explosions that formed spectacularly deep holes.

**California:** The long-running drought in California was made worse in 2014 by record heat. The first 10 months of 2014 were the warmest in California's history since 1895, further burdening the state's water demands.

**Northern Europe:** The same weather pattern that froze North America in early 2014 brought an unusually warm spring to countries including Denmark, Norway and Turkey. The sultry spring was the warmest in a century or more in these countries. In addition, January to October was the warmest 10-month period on record for Central England since 1659, and the warmest such period for the Netherlands since 1706.



## Would you like to help with anti-venom research?

In 1956, the Commonwealth Serum Laboratories developed a red back spider anti-venom to prevent people dying from their bites. Fourteen deaths from Redback bites have been recorded. Only one suspected death has occurred since anti-venom was introduced and this was from an untreated bite ([Booth, C. 2008](#)).

A concern has been expressed that the anti-venom does not appear to neutralise the toxin(s) that cause pain during red back spider bite treatment. This is controversial among toxinologists. Whilst the pain is discomforting to patients, it is not life threatening.

Venom Science Pty Ltd have been working for eight years, to find analgesics in snake venom. This has been a fascinating field of research. When this issue with the Redback anti-venom arose, Venom Science decided to investigate the issue, with assistance from researchers in Brazil.

Initially, Venom Supplies sent some venom gland preparations to Brazil, which were tested on rats but produced no pain even a high doses. This was puzzling.

In some of the immunochemical studies carried out in South Australia, it was noticed that venom produced by making the spiders bite on various targets yielded a slightly different venom to that produced by the gland extract. This needs investigation, but this requires a lot of spiders to produce these different venom types. Venom Supplies has access to enough gland extracted venom, but they will need hundreds of spiders to produce the other types of venom.



Red Back spider *Latrodectus hasselti*



Jeff Abraham (Venom Supplies) dissecting the venom glands from red back spiders

Venom Supplies have asked if community members could help with this research by collecting Redback spiders from around your homes. **Only adults should collect spiders - They are poisonous.**

If you would like to assist, Redback spiders need to be placed into a small jar or vial (around the same size as a urine collection bottle), with a small hole in the lid for air. One spider per bottle.

To get a spider into a container, make sure you wear gloves. Either get the spider to crawl into the container, place the container over the spider then slide a piece of paper under it, or use a stick, cotton wool swap, pop stick or tweezers to lift it into the vessel.

### **Never use your hands, even with gloves on.**

For those who are afraid of spiders, holding the vial with a pair of pliers and using a long handled screw driver to encourage the spider into the vial can help.

The spiders will survive in these containers for a week or more, but you can drop a slightly moist cotton wool ball or a fly in, if you want to give it some comfort.

Deliver the captured spiders to the Lakes Hubs at either Meningie or Milang, where they will be picked up by the guys at Venom Supplies. If you leave your details, the guys at Venom Supplies can keep you up to date with progress.



Venom glands extracted from red back spiders

Remember that venom from Redback spiders is dangerous if you get bitten. While no-one has been bitten collecting Redbacks for research, it always pays to be careful and seek medical assistance immediately if you believe you have been bitten.

More information on spider collection can be found at [www.reptilepark.com.au/spider-ids-and-drop-offs/](http://www.reptilepark.com.au/spider-ids-and-drop-offs/)

## **Young Farmers, sustainable food production...**

I was sent an interesting 'Start Some Good' campaign last week, where a group of young farmers are raising the funds to start a market garden at Aldinga.

Village Greens is a team of young farmers passionate about sustainable food production. They have access to prime farming land at the Aldinga Arts Eco-Village. Funds raised will allow them to purchase essential tools and infrastructure in order to achieve our vision of a productive, organic market garden growing food for our local community. For more information, check out: [http://startsomegood.com/venture/village\\_greens/campaigns/show/lets\\_get\\_growing](http://startsomegood.com/venture/village_greens/campaigns/show/lets_get_growing)



**\$16,222** pledged of \$30,000 goal

Tipping Point: **\$10,000**      Ultimate Goal: **\$30,000**

**126** **\$16,222**  
backers pledged of \$30,000 goal

**0**  
days to go

This Campaign has ended



## Milang Happenings...

**Cape Barron Geese** have arrived, with one wandering along the footpath out the front of the Hub in December.

The **Milang Railway Museum** is redeveloping their cream shed as a Light Railway Centre and is applying to be a registered museum and is looking for volunteers to assist with these projects. Peter Lucas 041 4232060 or [pjlucas@bigpond.com](mailto:pjlucas@bigpond.com).

The Alexandrina Council has commissioned a group of architects, who have completed a plan for the **Milang Foreshore**, which will soon be available for public comment.

**Milang Community Garden** will be having a trading table of garden produce the first and third Tuesday of each month, from 9-10:30 (Corner Coxe and Rivers Streets).

The **Milang to Goolwa Freshwater Classic** is on the 25th of January 2015. For more information on this sailing race, check out:

[www.goolwaregattaweek.com.au/index.php?clD=84](http://www.goolwaregattaweek.com.au/index.php?clD=84)

## Old farm catalogues sought by National Library

*Extract from article by Michael Cavanagh (ABC Rural )*

The farm catalogue, which may once have hung behind the dunny door, is now sought after by one of Australia's major national cultural institutions.

The National Library in Canberra is gathering a variety of the catalogues for its ephemera collection.

Catherine Aldersey, who grew up on a farm, is responsible for finding the assorted brochures and booklets. She says ephemera is what many would describe today as junk mail and includes catalogues which go back to the early 1900s.

With the passage of time, ephemera becomes rare and a bit more difficult to locate. Library staff keep an eye on auctions and clearing sales and also on collectors.

"We also have very generous members of the public who think this material is important and share the value that we put on it and donate it to us," Ms Aldersey said.

So the next time you are in an outback toilet contemplating life and you notice a farm catalogue hanging by a well-worn piece of string behind the door, it may be just the thing that the National Library wants to get a hold of.

**SCHOOL HOLIDAY FUN**  
The SA Whale Centre  
NEW Coastal Birds

**Holiday Program**  
\$8 per child  
Primary school aged children Tues, Thurs & Fri of the school holidays 1.30-2.30pm

**Science Rocks!**

**NEW COASTAL BIRDS**  
Find out about amazing birds that visit our coast and make your own dream catcher!  
Every Tues, Thurs and Fri  
1<sup>st</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 13<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup>, 20<sup>th</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>  
January, spaces limited  
Bookings Essential 8551 0750

SOUTH AUSTRALIA  
Whale Centre



# Encounter Marine Park

Encounter Marine Park offers some of Australia's best-preserved ocean wilderness and includes the coastline of the Fleurieu Peninsula and the east coast of Kangaroo Island. There are lots of activities for kids in the Encounter Marine Park including swimming, beachcombing, fishing, surfing, rockpools and whale watching.

## Reef Ramble for Families

**Aldinga Reef**

7 January at 11 am  
18 January at 10am

Enjoy a fun time learning about the weird and wonderful creatures that live at Aldinga Reef. Take a guided ramble and discover the amazing world of life between the tides.

## Intertidal Beach Combing Activity

**Oliver's Reef, Victor Harbor**

12 January at 11am

Enjoy a fun time beachcombing at Oliver's Reef. Learn about the amazing world between the tides.

## Coastal Birds Workshop

**SA Whale Centre, Victor Harbor**

Every Tuesday, Wednesday and Friday at 1.30pm

Find out about the birds that visit the Victor Harbor Coast and make your own dream catcher!

## SA Whale Centre Interpretive Centre

**SA Whale Centre, Victor Harbor**

Open throughout January

Visit the SA Whale Centre and take an interactive journey through amazing displays to learn about marine creatures.

## Beach Cricket and Family BBQ

**Port Elliot Surf Life Saving Club**

Every Sunday afternoon  
throughout January

Play beach cricket on the Horseshoe Bay foreshore and stay for a family BBQ.

## Sandcastle Building Competition

**Second Valley Beach**

1 January

Take part in (or just enjoy) the sandcastle building competition at Second Valley Beach!

## Snorkelling, scuba-diving and SNUBA

**Port Noarlunga**

Throughout January

Go snorkelling, scuba-diving or SNUBA-ing at Port Noarlunga reef and see fishes and dolphins! Activities and equipment hire available from Port Noarlunga SNUBA.

## Encounter Bike Trail

**Victor Harbor, Goolwa, Middleton**

Throughout January

Enjoy a scenic coastal bike ride along the Encounter Bike Trail.

## Port Elliot Coastal Walks Harbormaster's Trail and Maritime Heritage Trail

**Port Elliot**

Throughout January

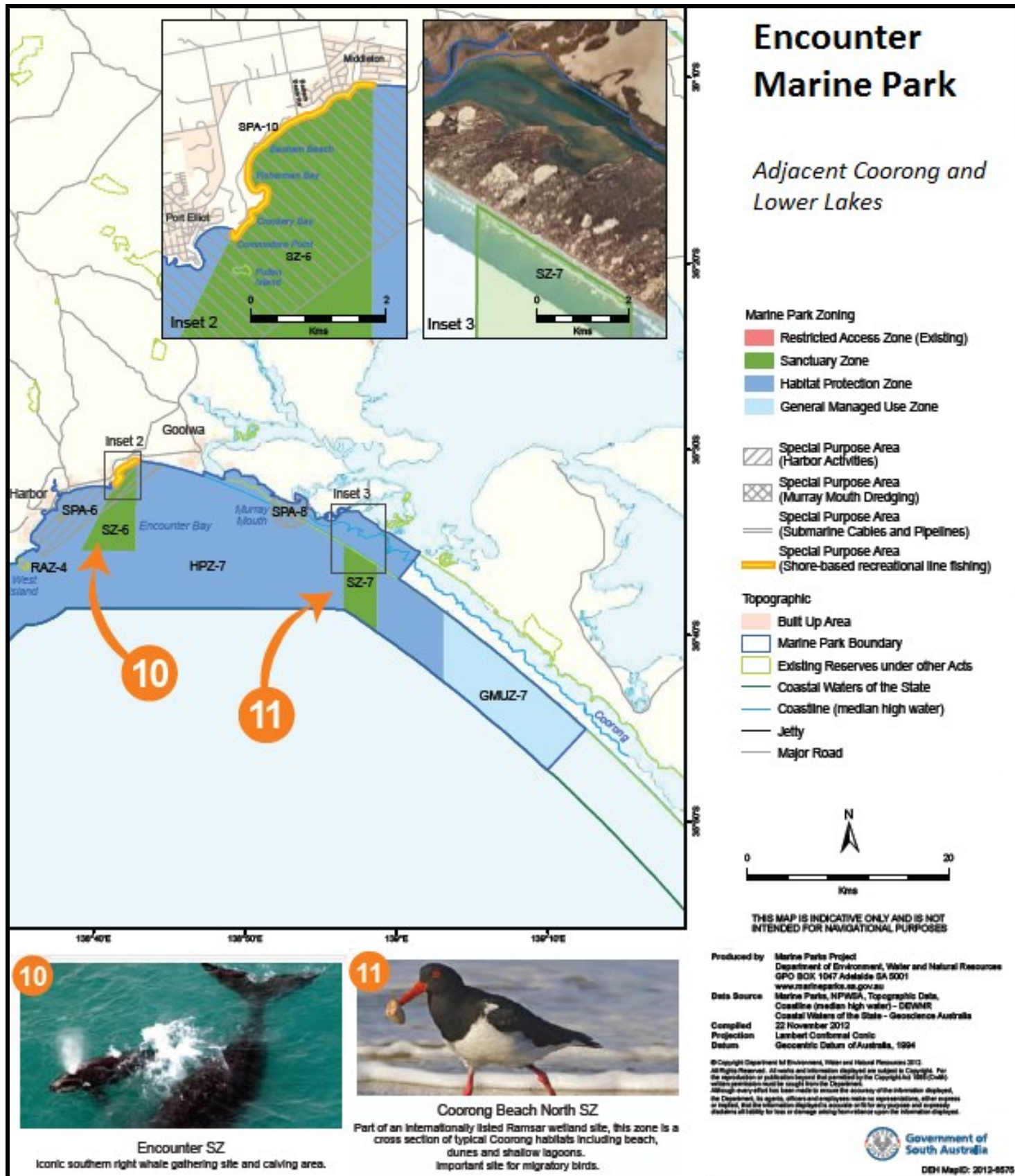
Enjoy short walks with stunning coastal views and learn about shipwrecks on the maritime heritage trail!

## Here are 10 activities to do at your local beach!

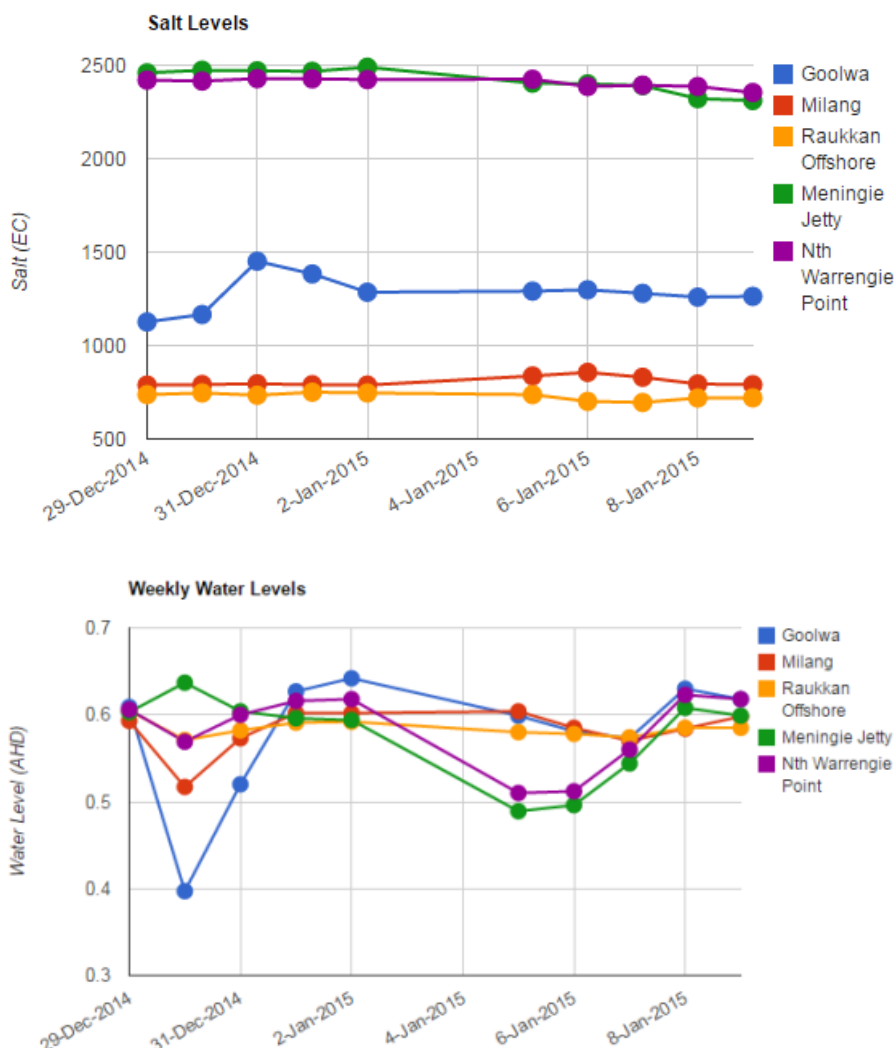
- ☒ 1 Go fishing from a jetty
- ☐ 2 Create a giant seaweed word
- ☐ 3 Go snorkelling at a reef
- ☐ 4 Try surfing or go boogie boarding
- ☐ 5 Go sea kayaking
- ☐ 6 Check out some rock pools
- ☐ 7 Carve your name into a Cuttlefish bone
- ☐ 8 Go beachcombing (collect any rubbish you find)
- ☐ 9 Spot five different coastal birds
- ☐ 10 Build a sandcastle with a moat







## On the Level



Some electrical conductivity ranges	
Water type	Electrical conductivity (µS/cm)
Deionised water	0.5-3
Pure rainwater	<15
Freshwater rivers	0 - 800
Marginal river water	800 - 1600
Brackish water	1600 - 4800
Saline water	> 4800
Seawater	51 500
Industrial waters	100 - 10000

Source: Suttar S., *Ribbons of Blue Handbook*. Scitech, Victoria, 1990.

Electronic versions of these charts are available from the Lakes Hub [website](#).

A spreadsheet of data is available on request from the Lakes Hub Coordinator.

Data received from:

[www.waterconnect.sa.gov.au/RMWD/Pages/default.aspx](http://www.waterconnect.sa.gov.au/RMWD/Pages/default.aspx)

Please note: salinity levels in the Goolwa Channel can be influenced by tidal ingress.

## River Murray – Weekly Flow Advice

For weekly flow / level reports on the River Murray and Lakes go to the following website:  
[www.waterforgood.sa.gov.au](http://www.waterforgood.sa.gov.au)

Up-to-date River Murray flow and water level information can be accessed at the Department for Water, SA Water and Murray-Darling Basin Authority websites: [Water Connect](#),

### [Daily Flow Report](#), [River Murray Storage Data](#)

Details of river height and rainfall information in the River Murray within Victoria and New South Wales are available at the Bureau of Meteorology website: <http://www.bom.gov.au/vic/flood>

Information on the discharge of acid drainage water into the Lower River Murray can be accessed online at: [www.waterforgood.sa.gov.au](http://www.waterforgood.sa.gov.au)

For the latest River Murray Flow Report and Water Resources Update - 16th November 2012 visit: <http://www.waterconnect.sa.gov.au>

## Contributions to the Bulletin

The Bulletin comes out on the second and fourth Friday of each month. We are always looking for Coorong and Lower Lakes events and articles of interest. Contributions must reach the Lakes Hub Coordinator ([info@lakeshub.com](mailto:info@lakeshub.com)) by the start of business, the Tuesday prior to release.



## CALENDAR OF EVENTS *for more info contact the Lakes Hub*

If you have any relevant community event or courses that you would like added to the Calendar of Events please contact the Lakes Hub.

	January
15	
16	
17 & 18	Yesterdays Power Rally (17th and 18th). Milang Oval Goolwa Regatta Week starts (17th to 25th). Santos Tour Down Under starts (17th to 25th). Port Elliot Market (17th) Lakala Reserve, Port Elliot. Hindmarsh Island New Year Get-together (17th)
19	
20	Hindmarsh Island Propagation day Milang Community Garden Trading Table—9-10:30AM
21	
22	
23	Visit to Cindy's Garden. Southern Fleurieu Permaculture Group
24	
25	Milang to Goolwa Freshwater Classic
26	
27	
28	
29	
30	Coorong and Lakes Environment Forum, Alexandrina Council Chambers, Goolwa
31	Announcement of Living Memorials first round recipients
	February
1	World Wetlands Film Festival, Centenary Hall, Goolwa
2	
3	Hindmarsh Island Propagation day Milang Community Garden Trading Table—9-10:30AM
4	
5	
6	
7	Love Langhorne Creek (regional Cellar Door event) 7th and 8th. Entry free.
8	
9	

### Disclaimer

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