



# OXTALES

First published 1980

Club Nets on VK2RPM  
146.700MHz  
(CTCSS 91.5Hz)  
Sundays 0900  
Thursdays 1930

Newsletter of the Oxley Region Amateur Radio Club Inc.,

PO Box 712 Port Macquarie 2444

Club email address: vk2bor@orarc.org also on Facebook as Oxley

Region Amateur Radio Club

Club Website: <http://www.orarc.org>



ORARC's forty ninth Anniversary Year

## September 2020

PRESIDENT: Henry Lundell VK2ZHE 6582 0534  
VICE PRES: Paul Colledge VK2ICQ 6580 9912  
TREASURER: Dennis Meade VK2DAM 6582 2998  
SECRETARY: Henry Lundell VK2ZHE 6582 0534

### ORARC VHF/UHF Repeaters

#### MIDDLE BROTHER

VK2RPM 2 metre (Voice - CTCSS 91.5Hz)  
O/P 146.700MHz - I/P 146.100MHz

VK2RPM 70 cm (Voice - CTCSS 123Hz)  
O/P 438.525MHz - I/P 433.525MHz  
C4FM digital mode capability

VK2RPM-1 (APRS Digipeater)  
SX 145.175MHz 1200bps

#### TELEGRAPH POINT

VK2RCN 2 metre (Voice)  
O/P 147.000 MHz - I/P 146.400 MHz

VK2RCN 70 cm (Voice - CTCSS 123 Hz)  
O/P 438.425MHz - I/P 433.425MHz

VK2RCN (6m Repeater)  
O/P 53.800 MHz - I/P 52.800 MHz

VK2RCN-1 (APRS Digipeater)

### President's Report

September 2020



### COVID-19

Unfortunately, the continuing mandatory restrictions imposed to reduce the spread of infection by the COVID-19 virus have greatly impacted on club activities. The cancellation of the club's face to face activities is but a small part of the world wide disruption to social and business life.

The ORARC Monthly General Meetings, Friday night get togethers and the Wednesday morning working bees are cancelled until further notice.

Fortunately, Amateur Radio is a hobby which can still be enjoyed in these difficult times. It is very pleasing to see the increasing amount of on-air activity and workshop construction being undertaken. The retailers of Amateur Radio equipment

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### Down The Coax

Monthly meetings & Friday Nights held in the S.E.S. Building  
Central Road, Port Macquarie.

Annual General Meeting  
Saturday 5 September 2020 2:00 pm  
Video Conference

September Monthly General Meeting after AGM \*

Friday Night Get-Together  
Friday 18 September 2020 7.00 pm Cancelled \*

Monthly General Meeting  
Saturday 3 October 2020 2:00 pm Cancelled \*

Friday Night Get-Together  
Friday 16 October 2020 7.00 pm Cancelled \*

The 63rd Jamboree On The Air will take place on 17 and 18  
October 2020

VK2BOR JOTA Participation Cancelled \*

Beechwood Billycart Classic  
Sunday 25 October 2020 Cancelled \*

Monthly General Meeting  
Saturday 7 November 2020 2:00 pm Cancelled \*

Friday Night Get-Together  
Friday 20 November 2020 7.00 pm Cancelled \*

Spring VHF UHF Contest  
Sat & Sun 28 & 29 November 2020  
VK2BOR Participation Cancelled \*

White Ribbon Coastal Walk Against Domestic & Family  
Violence

Tacking Point to West Port Park Port Macquarie  
Sunday Nov/Dec 2020 To Be Advised

ORARC Christmas Party  
And Monthly General Meeting  
Saturday 5 December 2020 Pending COVID-19  
Long Point Winery Picnic Area

\* Event cancelled due to COVID -10

### Net Controllers' Roster

Nets on Voice Repeater VK2RPM 146.700 MHz

Sundays  
(0900 Local)

Thursdays  
(1930 Local)

#### September 2020

VK2FMGM	Sept 6	VK2ICQ	Sept 3
VK2FMGM	Sept 13	VK2EM	Sept 10
VK2FMGM	Sept 20	VK2ZHE	Sept 17
VK2FMGM	Sept 27	VKICQ	Sept 24

#### October 2020

VK2FMGM	Oct 4	VK2ZEM	Oct 1
VK2FMGM	Oct 11	VK2ZHE	Oct 8
VK2FMGM	Oct 18	VK2ICQ	Oct 15
VK2FMGM	Oct 25	VKZEM	Oct 22
		VK2ZHE	Oct 29

#### November 2020

VK2FMGM	Nov 1	VK2ICQ	Nov 5
VK2FMGM	Nov 8	VK2EM	Nov 12
VK2FMGM	Nov 15	VKZHE	Nov 19
VK2FMGM	Nov 22	VK2ICQ	Nov 26
VK2FMGM	Nov 29		

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and electronic equipment and components have reported more than double their usual business. For example the sales of the newly released Icom IC-705 all mode HF/VHF/UHF QRP transceiver (pictured below) have been extraordinary. It is tremendous to see the Amateur Radio equipment market so buoyant.



A great many Amateurs have joined the ranks of those communicating via the various digital voice and digital data modes. The popularity of digital voice hotspots is growing at an exponential rate. Not only are Amateurs setting up digital voice hotspots at home but many are also setting up mobile hotspots so that they can operate from their vehicles as well. Many local Amateurs are sporting new DMR hand held and mobile transceivers to complement the C4FM Yaesu Fusion capabilities which many already had. D-Star is also popular as many of the recent Icom transceivers including the IC-7100, IC-9700 and the newly released IC-705 have D-Star capability. APCO P25 and NXDN digital voice are also supported by the various hotspots. One big advantage of the digital voice technology is that most of the various digital voice protocols can be accessed by radios running any other digital voice protocol via the hotspots. For example, C4FM Yaesu Fusion radios are able to connect to any of the DMR talk groups this way.

Despite the less than ideal HF propagation during the present sunspot minimum, there has been unprecedented use of the digital data modes such as the discrete multi-tone modulation modes such as Multi Tone 63 (MT63) and multiple frequency-shift

keying (MFSK) modes such as FSK441, JT6M, JT65, and FT8, Olivia MFSK, as well as Amateur teleprinting over radio (AMTOR), D-STAR (Digital Data) data-only mode, Hellschreiber, also referred to as either Feld-Hell, or Hell, a facsimile-based teleprinter. Yes, good old fashioned radio teletype (RTTY) is still popular too. In addition to the digital data modes, HF contacts are being made using the various digital voice modes such as D-Star and Free DV amongst others. Perhaps you have wondered what the increasing number of HF digital sounding transmissions are. Some of those digital transmissions such as WSPR at first seem to sound like just carriers whereas the digital voice modes sound like just noise.

It is hoped that an article explaining the mysteries of digital voice and digital data modes will be included in November Oxtales.

## AGM

Due to the COVID-19 pandemic the AGM which was originally scheduled for the 1st of August 2020 had to be postponed to Saturday the 5th of September 2020 as a Microsoft Teams video conference which was permitted by NSW Fair Trading. The virtual meeting ran very smoothly although the number of members who took advantage of participating was smaller than expected.

An informal Microsoft Teams meeting was held on the evening of Friday the 21st of August 2020 in place of the cancelled August Friday Night Get Together to give those who were not familiar with Microsoft Teams an opportunity to try it out. Quite a few members took the opportunity to join this informal meeting which ran smoothly and proved that the video conference was easy to join and was very user friendly with good quality audio and video.

Thank you to Michael Ward VK2FMDW for setting up and moderating the Microsoft Teams meetings.

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Thank you to Michael for also being the Returning Officer and conducting the AGM elections. The meeting recorded it's thanks to Michael by sustained acclamation which worked surprisingly well when every one unmuted their microphones for a round of applause.

Written nominations were received for the Committee positions. This was most encouraging and got the AGM elections off to a good start.

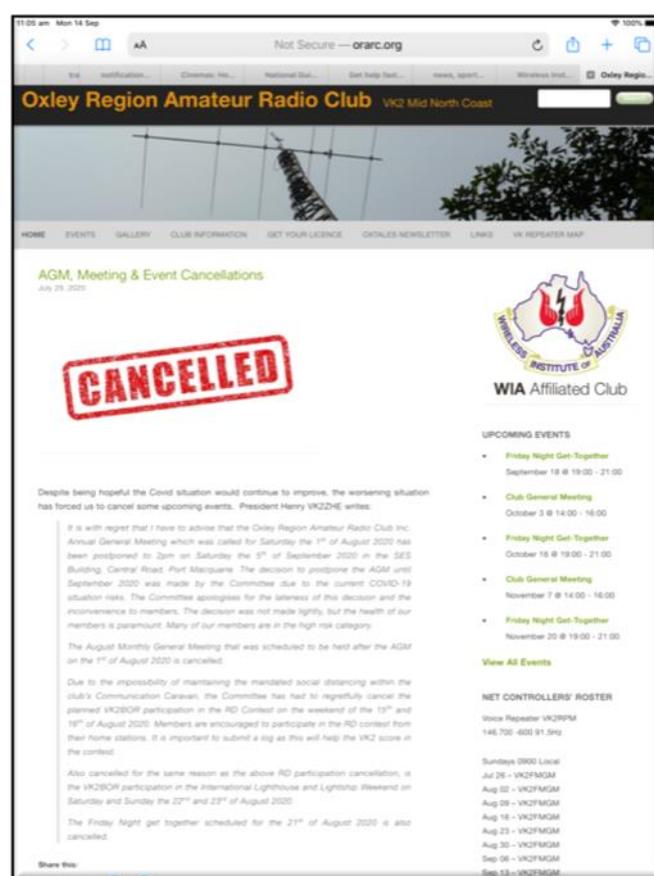
I am most honoured to have been re-elected as President, Secretary and Public Officer for the 2020 – 2021 year. Congratulations to Paul Colledge VK2ICQ on being re-elected Vice President. Congratulations to Dennis Meade VK2DAM on being re-elected as Treasurer.

Congratulations to the elected Committee members, Larry Lindsay VK2CLL, Rob Frost VK2CRF and Ian Lindquist VK2IDL. Arthur Monck VK2ATM decided to stand down from the Committee but will still remain active on the VK2RCN Telegraph Point Repeater Site Relocation Project sub-committee. Thank you to Ian Lindquist VK2IDL for joining the Committee. Ian brings a wealth of experience and technical expertise to the Committee.

Larry Lindsay VK2CLL is continuing in his long serving role as Education Officer. Many members have obtained their licences and upgrades through Larry's classes over a great many years. Anyone thinking of obtaining a licence or upgrading should contact Larry. While training and assessments are currently suspended due to the COVID-19 situation, the training and assessments will recommence as soon as circumstances permit. Larry, together with Bob Ecclestone VK2ZRE and Steve Wynn VK2ZSW have AMC accreditation to conduct assessments so the club is well placed to run assessments locally. Steve Wynn VK2ZSW as a level 3 assessor reminds members that remote assessments can be set up through AMC so anyone who

is ready for assessment does have this option if they would like to be assessed now. However, Steve points out that AMC have been overwhelmed by applications from Foundation licensees seeking 3 letter call signs so delays are to be expected.

Paul Colledge VK2ICQ was re-elected as Webmaster. Paul has built the ORARC website to an extremely high standard and continues to regularly update it with both club news and breaking Amateur Radio news. The website is a great ambassador for the club, and for the Amateur Radio service as a whole. Thank you, Paul.



*Screen shot of ORARC website*

ORARC is on Facebook. Congratulations to John McLean VK2KC on being re-elected as Facebook Administrator. The ORARC Facebook continues to be very popular, especially during the continuing social upheaval caused by the COVID-19 pandemic. Thank you to John for continuing to run the site.

A screen shot of the opening page may be found on the next page of this report.

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*Screen shot of Facebook page*

Congratulations to John Hansen VK2AYQ on being re-elected as Oxtales Editor. The club is indebted to John for his tireless work in continuing to publish Oxtales to a very high standard. Thank you and congratulations to Arthur Monck VK2ATM on being re-elected as Assistant Oxtales Editor. Also, thank you to Ian Lindquist VK2IDL and Darren Froggatt VK2MIA for their ongoing work as Oxtales proof readers. Thank you to Sue Meade for joining the production team as a proof reader. A lot of work goes on behind the scenes in publishing each issue of Oxtales.

John Bailey VK2KHB was re-elected as Club Historian. Congratulations and thank you to John for continuing to maintain the ORARC history. Next year will be the club's 50th anniversary year. A lot of water has flowed under the bridge in the last half century. Readers can look forward to a look back at some of that history in Oxtales issues next year.

A full list of all the Office Bearers elected at the 2020 AGM is included in this issue of Oxtales.

One position that was not filled at the AGM is that of Social Director. There haven't been any face to face social activities since March this year due to the restrictions imposed by the COVID-19 pandemic. Everyone is looking forward to those restrictions being lifted and a return to the normality that we had always taken for granted. When that happens we will

definitely need a Social Director. Please consider taking on this role. The Committee looks forward to someone stepping forward. Please contact the Committee.

At the virtual AGM, John Hansen VK2AYQ was recognized as Clubman of the Year for his dedicated valuable contribution to the club as the long serving Editor of Oxtales. Congratulations, John. John will have the 2020 Clubman of the Year certificate and the very distinctive 2020 Clubman of the Year badge to remind him of the esteem in which he is held by club members. Normally the presentation of this annual award is a photo opportunity but members will have to wait to see John sporting the badge when we are able to meet face to face again.

### **Project to Establish a New Repeater Site at Telegraph Point**

The major Club project is the establishment of a new repeater site for the VK2RCN Repeaters at Telegraph Point. The proposed site is a few kilometres along the ridge line from the existing VK2RCN site. The club has enjoyed a very generous usage of the existing site excellent for many years. While the current informal arrangement will happily continue for the time being under the present circumstances, the club must establish a new site with a formal site lease.

Much work has been done towards the establishment of the proposed new site. The project sub-committee has been busy. The formal lease is about to be signed and the application for Development Approval from the Port Macquarie Hastings Council is currently in progress. The club is very pleased that the application to the Council to waive the fees for the DA was successful.

The club was fortunate in obtaining a partial grant towards the establishment of the new site but the funding requires

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satisfying all the criteria of the Funding Deed.

The club has made application for an additional grant towards the cost of connecting mains power to the site. The success or otherwise of this application will not be known until March 2021.

The success of the project to establish this major asset can only be achieved through the efforts of club members. As well as fund raising there are many tasks which need to be completed.

If you would like to contribute to the work of the project sub-committee please contact the ORARC Committee.

### **RD Contest**

This year the Remembrance Day contest and the International Lighthouse and Lightship Weekend both took place on separate weekends in recognition of the RD weekend being part of the celebration of the 75th anniversary of Victory in the Pacific known as VP Day, the 15th of August 2020. The RD contest ran over the weekend of Saturday and Sunday the 15th and 16 of August 2020. The ILLW took place on the following weekend on Saturday and Sunday the 22nd and 23rd of August 2020.

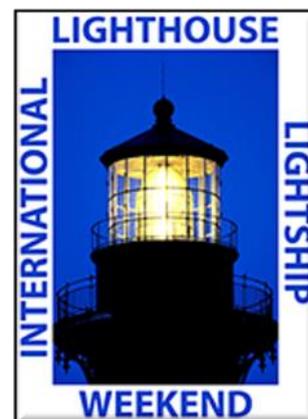
As in past years when the RD contest and the ILLW have been on separate weekends it was planned that the club station VK2BOR would participate in the RD Contest from the club's communication caravan to be located in camping area of the Camden Haven Airfield. Sadly, this had to be cancelled due to the COVID-19 restrictions. It was not possible to maintain the required mandatory social distancing within the confines of the communications caravan. In any case, due to the COVID-19 restrictions the 2020 RD Contest rules only permitted single operator stations but the social distancing requirements would have

made the logistics of setting up the station difficult and would have greatly detracted from the enjoyment of the weekend.

Home stations participating in the RD Contest were more numerous than usual this year. It was pleasing to see the on-air activity. Stations in VK5 and VK7 were particularly active and this is reflected in the RD Contest results which have been posted to the WIA website contest page. CW was a popular mode with some excellent scores noted. Club member David Pilley VK2AYD reported that he was very pleased with his CW score.

Given the special significance of the 75th anniversary of Victory in the Pacific it was very disappointing that this year's RD Contest participation by the Club had to be cancelled. VK2BOR has only missed out on participating in the RD Contest a small number of times. The club is looking forward to participating in the 2021 RD Contest, hopefully without restrictions arriving from COVID-19.

### **International Lighthouse and Lightship Weekend 2020**



The ILLW took place on the weekend after the RD Contest on Saturday and Sunday the 22nd and 23rd of August 2020. This year with the Tacking Point Road roadworks being complete, club members were looking forward to club station VK2BOR operating from the Club's Caravan at Tacking Point Lighthouse.

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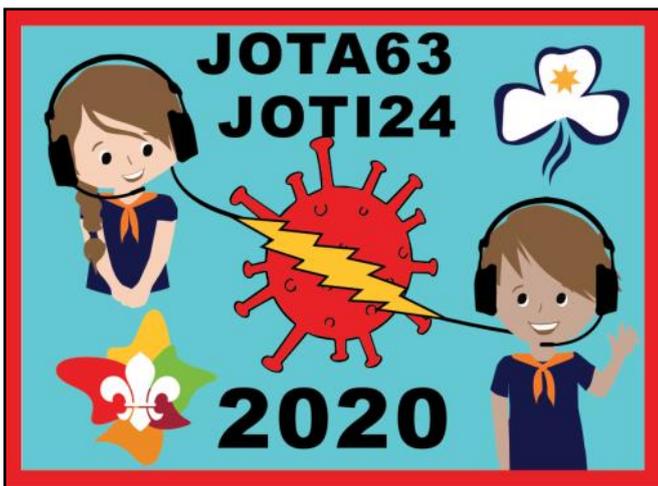
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However, as with the RD contest, the ILLW participation had to be cancelled as the mandatory social spacing was impractical in the confines of the caravan.

It was especially disappointing that the cancellation of the ORARC participation in 2020 ILLW meant that the club's otherwise perfect record of annual participation in the ILLW every year since the weekend commenced in 1998 was now broken.

We look forward to participating in the 2021 ILLW on the 21st and 22nd of August next year when hopefully the current COVID-19 restrictions will be only a memory.

### **JOTA 2020**



The 63rd annual Jamboree on the Air will take place over the weekend of the 17th and 18th of October 2020. It is also the 24th annual Jamboree on the Internet.

Sadly, the annual ORARC participation in JOTA is another victim of the ongoing COVID-19 restrictions. It was a very hard decision to cancel the VK2BOR JOTA 2020 participation but the nature of the hands-on JOTA radio contacts makes it impossible to maintain the mandated social separation.

The club is very apologetic to the 1st Port Macquarie Sea Scouts who have keenly run JOTA and associated activities every year

for most of the history of ORARC. 2020 will be the first year that club members have not been able to set up a station for JOTA. It is most upsetting to break with such a long tradition but the 1st Port Macquarie Sea Scouts have been very understanding.

Tracey Walsh, Group Leader of 1st Port Macquarie Sea Scouts has asked that her thanks on behalf of the Group be conveyed to all those ORARC members who normally participate in setting up running the VK2BOR JOTA station each year and were intending to do so again this year. The 1st Port Macquarie Sea Scouts greatly appreciates the ongoing support of JOTA by ORARC club members and looks forward to a successful 64th annual Jamboree on the Air in 2021.

In preparation for JOTA 2021 club members are reminded that it is a requirement of the Scouting Association that all volunteers must have a Working With Children (WWC) check number. An extension has been granted to those whose numbers are about to expire but they will need to renew their checks for next year. Anyone who does not already have a WWC number can easily obtain one on line at <https://www.kidsguardian.nsw.gov.au/child-safe-organisations/working-with-children-check>. Renewals can also be accessed using the same link. For volunteers there is no cost. Simply complete the on line form and you will receive an email. Print out the email and take it the RMS NSW Government Service Centre (In Port Macquarie it is in the building in Central Road that was originally the Motor Registry) where you will have to show your Drivers Licence for identification. The counter staff will verify the identification and you will receive the WWC number shortly afterwards by email.

We look forward to being able to participate in JOTA again next year.

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## Beechwood Billycart Classic



The 41st annual Beechwood Billycart Classic was to take place on the morning of Sunday the 25th of October 2020.

Sadly, the event is another victim of the COVID-19 restrictions and the 2020 Beechwood Billycart Classic has been cancelled.

ORARC members have provided safety communications for the Beechwood Billycart Classic every year. We look forward to continuing the Club's involvement in next year's Classic when hopefully the current COVID-19 restrictions will have been lifted.

The Beechwood Billycart Classic is normally a great family day out with plenty of entertainment and food stalls in the finish area adjacent to the Beechwood Hotel.

## White Ribbon Coastal Walk



The annual White Ribbon Coastal Walk Against Domestic & Family Violence from

the Tacking Point Surf Life Saving Club to West Port Park in Port Macquarie normally takes place on a Sunday in late November or early December. In previous years, members of the Oxley Region Amateur Radio Club have provided the safety communications for the event. The club has been invited to do this again for the 2020 event.

There will be more news regarding the 2020 walk in November Oxtales when the impact of COVID-19 on the event will be known.

## Christmas Party



Don't forget that the club's Christmas party is planned to take place on the normal December monthly general meeting date of Saturday the 5th of December 2020. The very popular Long Point Art Gallery and Vineyard picnic area covered deck venue has been booked.

Mark your calendar now. It is hoped that the current COVID-19 restrictions will be eased sufficiently by December so that the Christmas Party can take place but this will be confirmed together with more details in November Oxtales.

## 2021 Field Day

The 2021 Field Day is only 9 months away. This will be the 45th Annual Field Day. The 2020 Field Day was to have been the 45th Annual Field Day but

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unfortunately had to be cancelled due to the COVID-19 pandemic.

The dates of the 2021 Field Day are Saturday and Sunday the 12th and 13th of June during the 2021 Queens Birthday Holiday long weekend. Planning is already in progress. It is certainly hoped that the current COVID-19 restrictions will no longer be in effect by June next year so the Field Day can go ahead as planned.

The venue will be the same as last year, the hall at the Wauchope Showground. The hall has been booked for 2021 and already paid for. The hall provides a spacious indoor venue with excellent access and parking in the showground. There is a separate alcove in front of the kitchen which provides a quiet area to sit down and enjoy the tasty food from the barbeque and the free tea, coffee and biscuits.

The Wauchope Showground permits camping and the rates are very reasonable but those wishing to stay on site in their own caravans or motor homes (\$20) or tents (\$10) should book ahead as the number of campsites is limited and the June Long Weekend is always a popular weekend. After the COVID-19 restrictions of 2020 it is expected that the showground will be even more popular than usual in 2021. For bookings see the website at <http://www.wauchopeshowociety.com.au/camping.html>

The phone number for the on site caretaker is 0475 111 074 . The campsites have mains power and the amenities include toilets and hot showers. The Showground is pet friendly and you can even stable your horse for \$10 a night.

The Field Day Dinner will be at 6pm on Saturday night the 12th of June 2021 in the Seaview Room at the Port Macquarie Golf Club. Thank you to Gary Ryan VK2ZKT of Radio Supply Pty Ltd at

Bellingen for the generous sponsorship of the function room hire which has already been paid for. The Seaview Room is a very pleasant venue for the Field Day dinner. As in past years the excellent full dinner menu of the Aspire Restaurant will be available at club prices.

More details in the November 2020 issue of Oxtales.

### **WICEN (NSW) Mid North Coast Group**



WICEN (NSW) Mid North Coast Region normally holds its monthly meetings after the conclusion of the ORARC Monthly General Meetings in the SES Building in Port Macquarie. Current and prospective WICEN members are invited to attend the meetings when the COVID-19 restrictions are eased they are able to be run again. Anyone interested in joining WICEN should contact Larry Thompson VK2LJT or Rob Frost VK2CRF. For more information, visit the WICEN NSW website <http://www.nsw.wicen.org.au/>

The WICEN (NSW) Mid North Coast Region group conducts a net on the WICEN 80 metre frequency of 3600 kHz LSB at 7 pm local time on Thursday nights. The nets finish in time for members to participate in the ORARC Thursday night net at 7:30 pm on the VK2RPM 146.7 MHz 2 metre repeater.

WICEN NSW conduct a number of nets using DMR which

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can be accessed by those who have access to DMR or other digital radio hotspots. On the 2nd and 3rd Sundays of each month there is a net on the DMARC Talkgroup 3810, Timeslot 1, at 1830 hours local time.

The annual VH-MDX SAREX in the Barrington Tops was to have taken place in September 2020 but was cancelled due to COVID-19. It is expected that the annual SAREX will resume again in 2021.

A significant number of WICEN and ORARC members are also SES members. As well as membership of local SES Units, there are opportunities in SES to join regional Capability Units and also the Operational Support Unit. Please contact Larry Thompson VK2LJT if you would like more information. The Capability Units and the Operational Support Unit offer opportunities for those with technical and communications skills to use those skills in various interesting and challenging SES activities. One example which some members will be familiar with is the deployment of the SES Forward Command Vehicle. Thank you to Bob Ecclestone VK2ZRE for deploying the Forward Command Vehicle on two recent ground searches in the Northern Rivers. Bob is an active member of both WICEN and the SES Capability Unit.

## Membership Renewals

Thank you to all the members who have renewed their memberships this year. Only a couple of membership subscriptions are still outstanding. Please see the club Treasurer Dennis Meade VK2DAM. Your continuing membership is greatly valued by the Oxley Region Amateur Radio Club. Payments may be made by direct deposit to the club's Regional Australia Bank account.

Bank Name: Regional Australia Bank  
BSB: 932000  
Account Number: 500032744

Account Name: Oxley Region Amateur Radio Club Inc.

Please quote your Callsign as the reference when you make the direct deposit.

The annual membership subscription rates remain unchanged as confirmed at the 2020 Virtual AGM. Ordinary Membership is \$40.00 per annum, Associate Membership is \$20.00 per annum, and Distant Membership is \$10.00 per annum. The Family Membership discount continues to apply.

## Donation by David Harding VK2AIF Jaycar Morse Code Decoder Kit For Sale

Thank you to Life Member David Harding VK2AIF for donating a complete kit for the Jaycar real time Morse Decoder. The kit is similar in basic design to the Morse Decoder project designed by Ian Lindquist VK2IDL and published in Oxtales. Ian's design incorporates a couple of additional enhancements.



The Jaycar kit donated by David VK2AIF is for sale with the proceeds going to Club funds. The price of the kit is \$59.95 which represents a 40% saving on the kit's price of \$102.35. David paid full price for the kit but it is being offered for sale for same price as the discounted price that Jaycar sold the kit for

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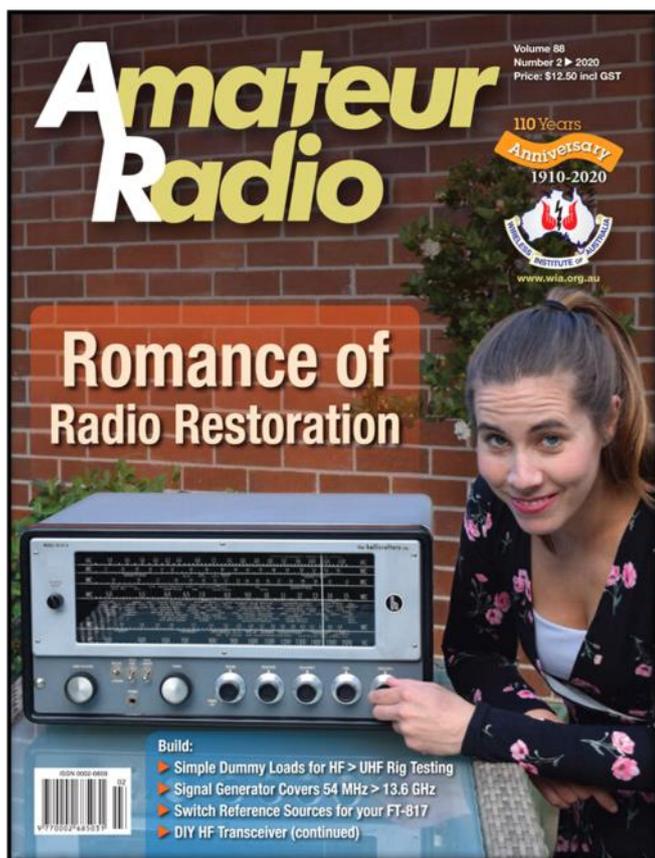
as “Kit of the Month” in January 2020 as per the copy of the advertisement. If you were considering building the decoder designed by Ian VK2IDL but were put off by having to source the parts here is an opportunity to obtain a complete kit for a similar Arduino based decoder with an OLED screen. An NE567 tone decoder is used to detect the Morse Code audio tone.

The construction manual for the Jaycar kit is available on line at <https://www.jaycar.com.au/morse-code-decoder>

If you would like to purchase the kit, please contact club president Henry Lundell VK2ZHE via the contact details in Oxtales. Payment of the \$59.95 may be made by direct deposit to the club’s Regional Australia Bank account as detailed in the “Membership Renewal” paragraph above. Contact VK2ZHE first though as the club has just the one kit donated by VK2AIF.

Thank you, David, for your kind donation.

## Amateur Radio Magazine Back in Production



Amateur Radio magazine, the journal of the Wireless Institute of Australia is back in production with Roger Harrison VK2ZRH as Editor in Chief. Issue 2 for 2020 was published on the 12th of August 2020 with copies downloadable by members via the WIA website. The printed copies were mailed to WIA members in late August. Issue 3 was published on the 12th of September 2020 for electronic download by WIA members and the printed copies will be mailed to members shortly.

Amateur Radio is published bimonthly with 6 issues per year. With the hiatus in publishing the remaining 3 issues for 2020 should appear monthly with a return to bimonthly publication in 2021.

It is very welcome news that this important journal is back in publication. Printing “Press” shown below.

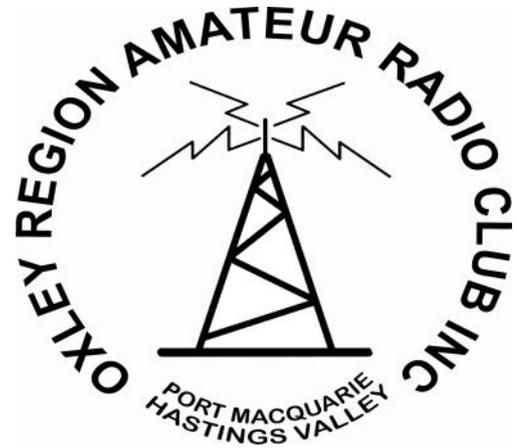


## Stay Safe

Stay safe. Hopefully there will be better news regarding face to face meetings and activities to report in November 2020 Oxtales.

Henry Lundell VK2ZHE  
President





### Information Regarding Amateur Radio Examinations

From Steve VK2ZSW AMC Level 3 Assessor and Marine Invigilator.

There is currently no impediment to anyone wishing to sit for an Amateur Radio examination since 17 June 2020 when face to face examinations were restarted.

There are special conditions for the conduct of face to face examinations that cover the current COVID-19 situation. In addition remote examinations are also available.

People who wish to sit for an examination should access the Australian Communications and Media Authority (AMC) website for further details and also an email address to arrange a set up for a remote examination with a Level 3 Assessor or arrange a face to face sitting.

The AMC will appoint an assessor, or you may choose your own accredited assessor.

Expect long delays as AMC have been overwhelmed with F call applications for 3 letter calls.

73, Steve Wynn VK2ZSW  
 AMC Level 3 Assessor and Marine  
 Invigilator.

### Elected Office Bearers of the Oxley Region Amateur Radio Club Inc.

At the Virtual Annual General Meeting of the Oxley Region Amateur Radio Club Inc. held on Saturday the 5<sup>th</sup> of September 2020, the following office bearers were elected:

- President: Henry Lundell VK2ZHE
- Vice President: Paul Colledge VK2ICQ
- Secretary: Henry Lundell VK2ZHE
- Treasurer: Dennis Meade VK2DAM
- Committee Member 1: Larry Lindsay VK2CLL
- Committee Member 2: Rob Frost VK2CRF
- Committee Member 3: Ian Lindquist VK2IDL
- Public Officer: Henry Lundell VK2ZHE
- Repeater Chairman: Henry Lundell VK2ZHE
- Oxtales Editor: John Hansen VK2AYQ
- Oxtales Co-Editor: Arthur Monck VK2ATM
- VK2BOR Station Mgr: Henry Lundell VK2ZHE
- QSL Manager: Ian Lindquist VK2IDL
- Welfare Officer: Henry Lundell VK2ZHE
- Publicity Officer: Paul Colledge VK2ICQ
- Education Officer: Larry Lindsay VK2CLL
- Club Historian: John Bailey VK2KHB
- Social Director: Vacant until after COVID-19
- Webmaster: Paul Colledge VK2ICQ
- Facebook Administrator: John McLean VK2KC
- WIA Liaison Delegate: Bob Ecclestone VK2ZRE
- Member Liaison Officer: Paul Colledge VK2ICQ

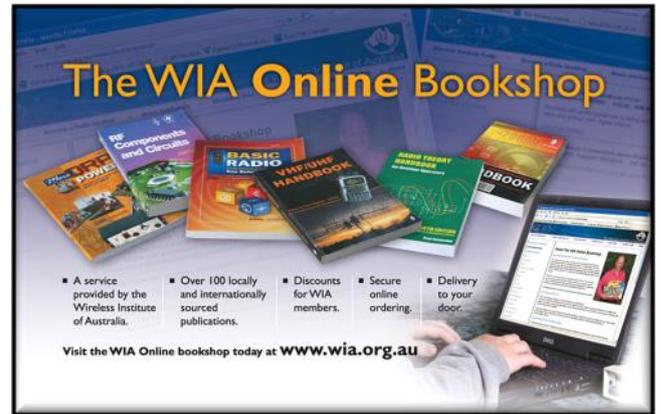
Blue indicates members who make up the Executive Committee.



This award compliments dozens other awards available to WIA members and non-VK DX members via the WIA Awards system.

73 from Graham Alston, VK3GA, Awards Manager, on behalf of the Awards Committee.

## The WIA Online Bookshop



## Oceania DX Award



The WIA online bookshop is a member service provided by the Wireless Institute of Australia for all Australian Amateurs.

In April 2019 the bookshop made a radical change to its business model. The bookshop will still stock and sell WIA publications and merchandise. These are available at member and non-member prices. The bookshop, however, will have no physical stock of books. It will provide links to large online bookstores. These offer the amateur the best possible pricing, and also usually offer a choice of new, hard-cover, paper-back, second-hand and eBook options.

It will be necessary for you to create an account at the book vendor if you wish to purchase a book.

## Our Range Of Books

The online bookshop is now a "curated list" of recommended books. We will not be building a list of all AR books possible, but a list of those that are popular and good value for money.

*Continued on next page*

Date : 22 / 08 / 2020

Author : Graham Alston VK3GA - WIA Awards Manager

The WIA DX Awards Committee is pleased to announce a new award - Oceania DX Award.

This award recognises participants who have worked and confirmed at least 25 of the 60 DXCC entities in Oceania.

This award is targeted towards Foundation and beginner DX'ers who may have modest stations, particularly wire antennas and/or low power.

Contacts can be made on any band and any mode, with endorsements for 30/35/40/45/50/55 plus Honour Roll (57) and Excellence (all 60).

*Continued from previous page*

The links to bookshops are affiliate links, which means that if you purchase books by following our links, the WIA will receive a small commission. Using these links means you can help the WIA earn a small income stream, at no cost to you.

If you believe a particular book should be on the list, but is not, we'd love to hear from you. Please send an email with the details of the book to addressed to [bookshop@wia.org.au](mailto:bookshop@wia.org.au)

### **Purchasing From The Bookshop**

Both WIA members and non members are able to purchase from the WIA online bookshop. For online books, follow the link to the book vendor, and select your book. You may have a choice of new, used or eBook. You will have to create an account at the vendor. Upon ordering, all delivery will be handled by the vendor.

**For WIA publications and merchandise, see section below "How to Proceed . . ."**

#### **How To Proceed With Your Purchase (of WIA publications and merchandise)**

If you wish to proceed with the purchase of the books selected and placed in your cart, then from the shopping cart page click the button labelled "Go To Payments". You will be presented with an online form which you are required to complete, you will need to enter both your WIA membership number and the shipping and delivery details.

If you are not a WIA member please leave the membership number blank.

Once complete click "continue" and you will be taken to our secure ecommerce site. You will be shown a summary of your order for your confirmation and you will be able to select your preferred payment method. We offer two payment options, Credit Card or Cheque.

If you are happy with your order, then please select your preferred method of payment and click "continue".

If you selected payment by cheque: You will be presented with a order confirmation screen which will display your order number. It is important that you either print a copy of this screen -or- write down the order number as it is displayed. Please include this order number along with a cheque made out to the Wireless Institute of Australia mailed to the National WIA office at P.O. Box 2042 Bayswater 3153. Upon receipt of your cheque and order number, your order will be dispatched.

If you selected payment by credit card: You will be presented with a secure credit card processing form. Please enter your credit card details on the form then hit continue to complete the transaction. You will be presented with an order confirmation screen again we suggest you print this screen for your records. Your bookshop order will be dispatched by our bookshop team within seven working days.

#### **Delivery of WIA publications and Merchandise**

Bookshop orders will be despatched within seven days from the date your order is placed on the WIA online bookshop system. If you have chosen to pay by cheque, then please note that despatch will not occur until your cheque has reached the WIA office.

#### **Further Inquiries**

For all inquiries regarding the WIA bookshop, contact our bookshop staff by email [bookshop@wia.org.au](mailto:bookshop@wia.org.au)



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## Foundation Online Assessment - Check your knowledge - Instant results

Date : 29 / 08 / 2020

Author : Lee Moyle - VK3GK



The WIA is pleased to announce that we now have the new Online Foundation Trial Exams available to use by all potential candidates.

Each trial exam consists of 25 Questions, randomly selected from a vast question pool with answers randomly arranged each time for the candidate, incorrect answer choices are shown with the correct answer highlighted for reference.

The WIA has received many requests of late from newly interested parties into where to find trial exams to help improve their success with their Foundation Licence studies.

The WIA recommend purchasing the

"Foundation Licence Manual Rev 3" from the WIA bookshop or from your local radio club.

Don't forget to apply for your FREE 12 month WIA membership on completion of your successful AOC(x) Certificate.

The WIA fully support and encourage you to study hard, be successful and enjoy your new hobby of Amateur Radio.

*The online Assessment can be found under the "Your Amateur Radio Licence" dropdown menu on this website, select "Foundation Licence" .*

## WWROF seeks youth oriented grant applications

Date : 09 / 09 / 2020

Author : Philipp - DK6SP

Tim K3LR, Chairman WWROF, says:

"The World Wide Radio Operators Foundation "WWROF" encourages youth Amateur Radio grant applications. WWROF is looking for worthy projects that can help shape the future of Amateur Radio."

The WWROF grant application form is here: <https://wwrof.org/grant-application/>

More information about WWROF can be found here: <https://wwrof.org/>

Feel free to apply now!

73 de Philipp, DK6SP

Director on the Board  
World Wide Radio Operators Foundation,  
Inc.



## Equipment from the Past

### ICOM IC 7000



The **Icom IC-7000** was in production from 2005 to 2015. It represented the next generation in all-mode HF/VHF/UHF mobile transceivers. DSP at the IF level was the cornerstone of this multi-bander. The 7000 had two DSP chips to control bandwidths providing 41 bandwidths available as standard. Including being able to select sharp or soft filter shape.

The radio featured a 2.5 inch (6.3 cm diagonal) TFT colour display, presenting numbers and indicators in bright, concentrated colours for easy recognition, with a choice of three background colours and two font styles. The display also supported a two-mode band scope.

Eight of the most-used radio functions were controlled by dedicated function keys grouped around the display for easy visibility. An internal memory keyer provided four memories for station information or contest exchanges. The radio incorporated a Digital Voice Recorder (DVR) function has a front panel REC control that allowed the recording of up to 25 minutes worth of signals.

Other features included a detachable control head (which required and optional separation cable), 503 memories, S/PWR/SWR meter, RIT, Preamp, RTTY Demodulator, attenuator, adjustable SSB bandwidth, NTSC video output, DTMF memory, VOX,

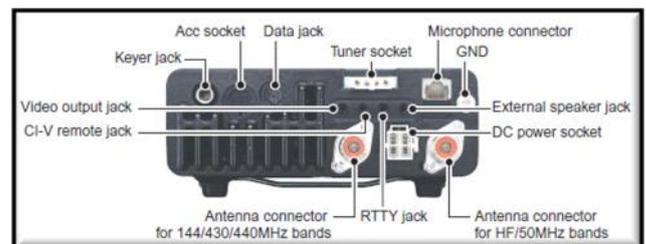
full break-in and adjustable CW pitch. Power output was up to 100 Watts depending upon the output frequency.

The ICOM IC 7000 also had a large range of options such as antenna tuners, remote operation cables, mounting kits for mobile operation, external speakers and additional microphones. Depending upon the options selected price usually exceeded \$2,000. Production was discontinued around 2015. Asking price for used sets today can be up to \$1,000 depending upon options supplied.

The ICOM IC 7000 was quite popular with amateurs due to being very compact and relatively low weight at around 2.3 Kg. For maximum power output it required a power supply of 13.8 Volts DC at 22 Amps. Power output reportedly fell off quickly as the input voltage fell below 12 volts. Some amateurs reported a problem with oxidation around the fuse holders contacts with a fuse that would lead to resistance creating heat which caused the voltage to slowly drop over time.

The radio was also considered to have quite a heavy current drain on batteries when operating mobile; even in the receive mode current draw was more than 1.5 amps.

Acknowledgements: [www.universal-radio.com](http://www.universal-radio.com), [eHam.net](http://eHam.net), <http://www.icomamerica.com/>



## Blast from the Past

Blast from the Past' is the section of Oxtales where we reflect on what the club was doing in years gone by. This months 'Blast' is taken from the 2010 September edition of Oxtales.

In September 2010, Henry VK2ZHE President, Bruce VK2HOT was Vice President Secretary John VK2KC and John VK2KHB Treasurer. The club had 42 financial members.

The three main activities reported on was the International Lighthouse Event, the Remembrance Day Contest and a very successful education session.

John VK2KC also had a very interesting constructional project of a 'Home Brew Mobile HF Antenna'. Photographs below.



Full construction details may be found in the September 2010 edition of Oxtales.

Reproduced below is the report of the successful Education Session conducted by Larry VK2CLL and Eric VK2ES

### *Education Session Brings New Members*

*'On August 21st 2010, Larry (VK2CLL) our club's Education Officer and WIA Accredited Assessor, together with Eric Shaw (VK2ES) from the Coffs Harbour Club, conducted a training and examination session for Foundation Licence candidates.*

*Three of the four candidates attempting the examination, passed and are now awaiting their call signs.*

*The successful candidates were Lyle Smith, (son of the late Dave Smith - VK2DAL),*

*Josh Holmes (SES member from Bonny Hills) and Richard Barlow from Bellingen. Lyle and Josh have both joined ORARC Inc.*

*A previous session, held prior to August, saw Michael Ward (an SES member from Port Macquarie), together with his father, Kelvin Ward of Morisset, successfully gain their Foundation Licences. Michael is now VK2FMDW, and Kelvin is VK2FKJW. Michael has also joined our club membership ranks.*

*These specially conducted courses are encouraging younger interested members of the community to take their first step into the hobby. Success at this level can then lead to further study, practice, and participation in amateur activities, all of which enhances their progress towards the Advanced Licence.*

*A further "Plus" is that candidates who are successful in gaining their Foundation Licences via ORARC's training & assessment sessions, also qualify for Ordinary membership of our club, under a very attractive condition for their first year. The first year's membership subscription is free! Congratulations to all, and a sincere "Welcome aboard!" to the new members of the AR hobbyists.'*



*Michael Ward (VK2FMDW) receiving his ORARC membership badge from Henry (VK2ZHC) during our June 2010 meeting at the Port Macquarie Hastings SES HQ in Central Road Port Macquarie.*

### **The 2010 Lighthouse Event Results** (Bruce VK2HOT)

*'Well the Lighthouse event is over for another year. My day started with breakfast at 5.30am*

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*so that I could be fully awake when Barry VK2FBRG arrived at 6.15 am.*

*We travelled to the home of Henry VK2ZHE and hooked up the caravan for the trip to the Lighthouse and to get the van into a good position.*



*Caravan perched at the edge of the Tacking Point Lighthouse Road.*

*The additional willing participants who turned up to man the operating positions, were: Barry VK2FBRG, Bill VK2ZCW, Arthur VK2ATM, Neil VK2EI, Bill VK2ZCV, Henry VK2ZHE, Des VK9FLFI and David VK2AYD.*

*A bitterly cold wind welcomed us on arrival at the Lighthouse. We positioned the van and then set up the multi-band vertical antenna. Prior the start of the event we had a couple of contacts some within Australia and some overseas. One being to Bulgaria at around 0730 UTC on 40m which made the event look promising for good conditions.*

*Results for the event are as follows: Total contacts = 96... 94 on HF ( 40 & 20 only) and one each on 2m & 70cm simplex. 40m was the main band used (84 contacts) with only another ten on 20m. Total Lighthouses contacted were 31, with 27 being in Australia, 3 in New Zealand and 1 in Germany and 65 Home-stations made up the total of 96. Overseas countries contacted were New Zealand, Belgium, Italy, United States and Germany.*

*We also had a contact with 8J1RL operated by Tani who is located at the Japanese Syowa Base in Queen Maud Land down in Antarctica'*



*Some of the attendees at the 2010 Lighthouse event at Tacking Point.*

*L to R: Lyle Smith (new member, son of SK Dave, VK2DAL), Larry VK2CLL, Josh Holmes (new member), John VK2KC, Barry VK2FBRG*

*Note: Lyle now has callsign VK2SMI and Barry has VK2LBG.*

### **2010 Clubman of the Year**

*'At our August monthly meeting, tireless, hardworking member, Barry Gilson, VK2FBRG, was awarded the 2010 certificate and badge for "Clubman of the Year". A truly deserving token of recognition of his valued regular efforts in club activities.'*



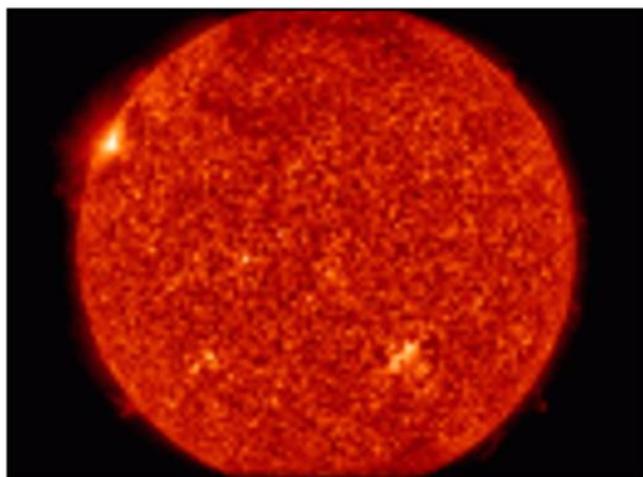
*Remembrance Day Contest  
(14th-15th August 2010)*



*Bill VK2ZCW (SK)*

*John VK2KC*

## American Radio Relay League Organization



### The K7RA Solar Update 09/11/2020

Tad Cook, K7RA, Seattle, reports: An extended lull in solar activity persists. The smoothed sunspot minimum occurred last December, but the flurry of moderate sunspot activity in August has not continued.

An event to look forward to is the autumnal equinox, which occurs at 1330 UTC on Tuesday, September 22. We should see a seasonal improvement in HF propagation around that date because the northern and southern hemispheres are bathed in roughly equal solar radiation, enhancing north-south propagation.

Thursday, September 10 was the 20th consecutive day with no sunspots, but Spaceweather.com reported a small sunspot with a Cycle 25 magnetic signature may be forming in the sun's south-eastern quadrant. As of Thursday night it was still

too small to merit numbering.

Average daily solar flux barely budged from 69.6 to 69.7. Geomagnetic indicators were very quiet, with average daily planetary A index declining from 13.1 to 4.4. As with last week's forecast, predicted solar flux is 70 on every day over the next 45 days, September 11 – October 25.

Predicted planetary A index is 5 on September 11 – 17; 8 on September 18 – 19; 5 on September 20 – 22; 8, 10, and 15 on September 23 – 25; 10, 25, 15, and 10 on September 26 – 29; 5 on September 30; 8 on October 1; 5 on October 2 – 14; 8 on October 15 – 16; 5 on October 17 – 19, and 8, 10, 15, 10 and 25 on October 20.

Frank Donovan, W3LPL shared this on September 6:

“Exactly 3 years ago, on September 6, 2017, the sun ejected the strongest solar flare and earth-directed coronal mass ejection (CME) of Solar Cycle 24. Solar region 2673 produced four X-class solar flares, including a massive X-class solar flare of magnitude 9.3, from 1153 to 1210 UTC.

Just over 8 minutes later, powerful hard X-rays from the flare increased D-layer ionization by several orders of magnitude, completely blacking out HF skywave propagation on the daylight side of Earth for about an hour — an event called a “sudden ionospheric disturbance” (SID).

Solar flares are commonly followed by CMEs. Solar region 2673 ejected powerful Earth-directed CMEs on September 6, 2017, causing visible aurora on September 7 and 8, and a severe geomagnetic storm. The planetary Kp index reached magnitude 8 on September 8.

The strongest solar flare measured in modern times was an X28 flare on October 28, 2003, which blacked out HF skywave propagation on the sunlit side of Earth for several hours.

## MEMBERSHIP REGISTER

## Membership List as at 1, September 2020

No.	Cat	Surname	Given Name	Spouse	Call	Location	Phone
1	O	BAILEY	JOHN	(FLORENCE)	VK2KHB	PORT MACQUARIE	02 6582 2192
2	D	BAYLISS	KEITH	(DEBBIE)	VK2FPTL	COOPERNOOK	0478 606 464
3	D	BLACKMORE	MARK	-	VK2XOF	BAULKHAM HILLS	02 9639 0663
4	L	BLYTH	BOB	-	VK2XIQ	TELEGRAPH POINT	-
5	O	BREWSTER	DAVID	-	ZL3DS	LAKE CATHIE	0407 749 748
6	D	BRICE	GRAHAM	(CYNTHIA)	VK2VW	SCONE	02 6545 0411
7	O	BRUCESMITH	SANDY	(KAY)	VK2WH	PORT MACQUARIE	0435 356 466
8	D	CAMPBELL	JAMIE	-	VK2YCJ	HAMILTON	0418 628 321
9	O/F	COLLEDGE	PAUL	(PAULA)	VK2ICQ	PORT MACQUARIE	02 6580 9912
10	O/F	COLLEDGE	PAULA	(PAUL)	VK2FPDC	PORT MACQUARIE	02 6583 8829
11	O	COOPER	GORDON	(GLENDA)	VK2GFC	LAKEWOOD	02 6559 6502
12	O	COURT	RICHARD	(LINDA)	VK2CHC	PORT MACQUARIE	02 6581 5658
13	D	DORAHY	ALEX	(ANNE)	VK2HBF	TOORMINA	0400 849 098
14	O	ECCLESTONE	BOB	(DIANA)	VK2ZRE	KEMPSEY	0419 414 412
15	D	EKERT	BRUCE	(YULIA)	VK2EM	FORSTER	0414 532 496
16	O/F	FLETCHER	CAROLINE	(PETER)	VK2CZF	PORT MACQUARIE	02 6584 5191
17	O/F	FLETCHER	PETER	(CAROLINE)	VK2HPF	PORT MACQUARIE	02 6584 5191
18	O	FROGGATT	DARREN	(KRISTY)	VK2MIA	PORT MACQUARIE	0488 01 8102
19	O	FROST	ROBERT	(SUSAN)	VK2CRF	PAPPINBARRA	02 6587 6129
20	D	GARLAND	JOHN	-	VK2CJG	JEWELLS	02 4948 1950
21	O	GILSON	BARRY	(FAY)	VK2LBG	PORT MACQUARIE	02 6583 8814
22	L	GREEN	LEWIS	(PAMELA)	VK2AG	PORT MACQUARIE	02 6584 9162
23	O	HANSEN	JOHN	-	VK2AYQ	PORT MACQUARIE	0427 407 973
24	L	HARDING	DAVID	-	VK2AIF	WAUCHOPE	02 6586 1947
25	D	HARPER	JOHN	(VIVIANE)	VK2LJ	SYDNEY	0417 254 763
26	D	HIRSCHEL	ALLAN	-	VK2OK	DOUBLE BAY	0415 259 777
27	D	HUTCHESSON	COLIN	(PAULINE)	VK5DK	MT. GAMBIER	08 8725 5527
28	D	JANES	LES	(BEVERLY)	VK5JL	SALISBURY HEIGHTS	08 8281 3878
29	D	JOHNSON	STEVE	-	VK2SJJ	BELLINGEN	0466 334 626
30	O	JONES	PAUL	(SANDRA)	VK2DEL	PORT MACQUARIE	02 6584 3772
31	D	KEIR	ANDREW	(BARBARA)	VK2AAK	DARAWANK	02 6554 3498
32	O	KOPPEL	HORST	-	VK2FHKO	LAKE CATHIE	02 6585 5992
33	O	KUCERA	PETER	-	VK2MPK	WAUCHOPE	0429 229 290
34	L	LINDSAY	LARRY	(PENNY)	VK2CLL	HUNTINGDON	02 6587 1155
35	O	LINDQUIST	IAN	(BERNADETTE)	VK2IDL	PORT MACQUARIE	0414 419 462
36	L	LUNDELL	HENRY	-	VK2ZHE	PORT MACQUARIE	02 6582 0534
37	D	MACNAUGHTON	JENNY	-	VK2BA	MUDGE	02 6372 4053
38	O	MCDONAGH	JOHN	(KARIN)	VK2VY	PORT MACQUARIE	02 6582 0020
39	O	MARE	HANS	-	VK2MRK	PORT MACQUARIE	02 6582 7080
40	O	MARTIN	CRAIG	(JENNY)	VK2CSM	SANCROX	02 6585 3452
41	D	McADAM	PETER	-	VK2EVB	COFFS HARBOUR	-
42	O	McGUIRE	MARK	-	VK2FMGM	PORT MACQUARIE	02 6583 8875
43	O	McLEAN	JOHN	(CORRINE)	VK2KC	PORT MACQUARIE	02 6584 6220
44	O	MEADE	DENNIS	(SUE)	VK2DAM	PORT MACQUARIE	02 6582 2998
45	D	MEEHAN	TERRY	-	ex-VK2KL	KEMPSEY	-
46	D	MELVILLE	STUART	-	VK2KSM	NORTHERN RIVERS	0419 043 316
47	O	MESSINA	TOBY	-	VK2XTX	PORT MACQUARIE	0417 293 377
48	L	MONCK	ARTHUR	-	VK2ATM	PORT MACQUARIE	02 6581 0960
49	O	MULLINS	RAY	(LYNNE)	VK2JU	PORT MACQUARIE	0432 559 400
50	O	NEIL	JIM	(CAROL)	VK2VIV	PORT MACQUARIE	0487 812 481
51	O	NEWHAM	LAURIE	(ROBIN)	VK2ELN	PORT MACQUARIE	02 6583 5387
52	D	NIVEN	TREVOR	(BETH)	VK5NC	MT. GAMBIER	08 8723 2432
53	D/F	O'BRIEN	GRAHAME	(JUDY)	VK2FA	CARDIFF	02 4954 8688
54	D/F	O'BRIEN	JUDY	(GRAHAME)	VK2HZV	CARDIFF	02 4954 8688
55	D/F	PETTET	JOHANNA	(STEVEN)	VK2FJMM	ILARWILL VIA MACLEAN	02 6645 5290
56	D/F	PETTET	STEVEN	(JOHANNA)	VK2ZVG	ILARWILL VIA MACLEAN	02 6645 5290
57	L	PILLEY	DAVID	-	VK2AYD	KING CREEK	02 6585 2647
58	O	PISANI	VIC	(MEREDITH)	VK2UVP	BONNY HILLS	02 6584 8361
59	D	PRATT	PETER	-	VK2PX	PENNANT HILLS	0418 965 962
60	O	RAE	THOMAS	-	VK2ATR	PORT MACQUARIE	-
61	D	RAY	ROBERT	-	VK2ZWZ	SINGLETON	0412 573 86
62	D	ROMAINE	PAUL	-	VK2UPR	PORT MACQUARIE	0428 466 075
63	O	SANDERS	BILL	(SUELENE)	VK2FWHP	REDBANK	0437 004 228
64	O	SMALL	ROBERT	(LYNN)	VK2BIG	LAKE CATHIE	02 6584 8148
65	D	SWINDLEY	RON	-	VK2DDQ	KEMPSEY	0417 299 397
66	O	SMITH	LYLE	(JEANNINE)	VK2SMI	WAUCHOPE	02 6585 2497
67	D	SMITH	MURRAY	(MARGARITA)	VK2LAT	RAINBOW FLAT	0423 781471
68	D	SMITH	STEVE	(HELEN)	VK2IS	RAWDON ISLAND	0404 612 126
69	O	SOUTHWELL	IVAN	-	VK2IJS	PORT MACQUARIE	0439 611 452
70	O	TERRY	COL	(KATHLEEN)	VK2LCT	YIPPIN CREEK	0429 002906
71	L	THATCHER	TREVOR	-	VK2TT	WAUCHOPE	02 6585 2278
72	D	THOMPSON	DES	(BETTY)	VK9FLHI	LORD HOWE ISLAND	02 6563 2152
73	O	THOMPSON	LARRY	(KATHLEEN)	VK2LJT	TUNCURRY	02 6555 7994
74	O	WALKER	BRUCE	(GWEN)	VK2HOT	PORT MACQUARIE	02 6583 8360
75	D	WALKER	STUART	-	VK2BMX	BEECROFT	02 9869 0515
76	O	WALSH	STUART	(JENNIFER)	VK2FSTU	WAUCHOPE	02 6586 4490
77	O	WARD	MICHAEL	(SEREENA)	VK2FMDW	PORT MACQUARIE	0418 291 276
78	O	WINCHESTER	JOHN	(PAULINE)	VK2NJJ	PORT MACQUARIE	02 6580 3031
79	O	WYNN	STEPHEN	(LYALLE)	VK2ZSW	YIPPIN CREEK	02 6585 3327
80	D	YORSTON	ROBERT	-	VK2CAN	ROSEVILLE	02 9426 3727

Cat Key : A = Associate D = Distant F = Family L = Life O = Ordinary