

## **Silent Key.**

It is with regret that we begin this week, with news of a silent key.

We have advised of the passing of Tutu Noel Pakihi VK2CAO, on the 31<sup>st</sup> of March.

Noel was a passionate lifelong radio enthusiast with many interests, especially in CW operation.

A service for Noel will be held at 9:30am on Monday the 11<sup>th</sup> of April, at Rookwood Cemetery.

Please pause with us now, while we remember Noel.

[pause 5 seconds]

Vale [va-LAY] Tutu Noel Pakihi VK2CAO.

## **In the news from Amateur Radio New South Wales for this week;**

The 2022 AGM of Amateur Radio NSW was held yesterday, as a hybrid meeting; a number of members attended in-person at VK2WI Dural, though several more decided to avoid Sydney's wet weather and join in via Zoom.

As always, you can contact the ARNSW office via email, to [office@arnsw.org.au](mailto:office@arnsw.org.au), or by leaving a phone message on 02 9651 1490.

Later in this bulletin, we have a summary of on-air activities from both Sydney, and across New South Wales. We would welcome any updates from club and groups; simply email [news@arnsw.org.au](mailto:news@arnsw.org.au) – we don't need full items, just the details of the activity and contacts. Don't forget, we always welcome reports on the outcome of recent activities, as well.

Tonight, we again welcome listeners on the EchoLink "HAM" conference, and the Australian & New Zealand EchoLink Network. Callbacks will also be taken after tonight's bulletin; our thanks to John VK3HJQ, and the Australian & New Zealand EchoLink Network team, for making this relay available.

VK2WI news bulletins are streamed live from our website, [arnsw.org.au/audio](http://arnsw.org.au/audio), and recordings of previous bulletins are also available.

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## DMR Update

This week, we have a couple of reports on recent developments with DMR. First up, an update on ARNSW RadNet, with Matt VK2FLY;

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**[Play File: 15-B-RNT-1.wav]**

*Duration: 1m07s*

*In: The network consists ...*

*Out:....Matt VK2FLY for ARNSW RadNet.*

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...and with some news on the FreeDMR network, here's Jared VK2WAY;

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**[Play File: 16-B-FDR-1.wav]**

*Duration: 1m06s*

*In: The FreeDMR network ...*

*Out:....the FreeDMR network.*

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# Weekly Solar and Geophysical Report

For the period of the 1<sup>st</sup> to the 7<sup>th</sup> of April;

This report issued on the 8<sup>th</sup> of April.

First, the summary;

Dates across the columns are	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>
10cm Flux	147	143	140	128	122	117	96
Fredericksburg Index (Afr)	12	19	7	8	6	6	13* observed
Australian Index (Aaus)	14	13	4	6	4	4	11 estimated
T index	88	69	77	95	88	89	94

Solar flare activity was low this week, except on the 2<sup>nd</sup> of April where it reached warning level R1, with 3 M-class flares; an M2.9 at 0256UTC, M3.9 at 1356UTC, and an M4.3 at 1744UTC.

Geomagnetic activity was mostly quiet to unsettled. On the 1<sup>st</sup> of April, SWS magnetometer data recorded a weak impulse of 15nanoTesla at 1250UTC.

F2 critical frequencies in Southern Australia, saw some enhancement compared to predicted monthly levels. The 1<sup>st</sup> was enhanced 30% during local night; the 3<sup>rd</sup> was enhanced 30% after local dawn. The 4<sup>th</sup> and 5 were both enhanced by 30% during local day and 25% at night. The 6<sup>th</sup> was enhanced 25% during local day and 20% during local night; and the 7<sup>th</sup> was enhanced 25% during the day and 30% at night.

The forecast for the 8<sup>th</sup> to the 14<sup>th</sup> of April;

Solar activity is expected to be at low with a slight chance of R1 level activity.

Geomagnetic activity is expected to be at quiet to unsettled levels with a chance of minor storm conditions on the 9<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup>.

Maximum Usable Frequencies are likely to from near predicted monthly values, up to 20% enhanced.

*Data courtesy of Space Weather Services.*

## **Solar Flux Index update**

Here are the updated Solar Flux Index (SFI) figures for this week.

Having finished March, we had a;

Minimum of 94, Average of 115 and a Maximum of 156  
With peak dates from the 6<sup>th</sup> to the 15<sup>th</sup>, and the 27<sup>th</sup> to the 31<sup>st</sup>.

So far for April, we are expecting a;

Minimum of 100, Average of 125 and a Maximum of 149  
With peak dates from the 1<sup>st</sup> to the 5<sup>th</sup>, and the 21<sup>st</sup> to the 30<sup>th</sup>.

And looking ahead to May, we are expecting a;

Minimum of 110, Average of 124 and a Maximum of 140  
With peak dates from the 1<sup>st</sup> to the 6<sup>th</sup>, and the 16<sup>th</sup> to the 24<sup>th</sup>.

*Update with thanks to Noel, VK2FUL.*

[using daily data updates from:

<http://www.swpc.noaa.gov/products/usaf-45-day-ap-and-f107cm-flux-forecast>]

## What use is an F-call?

Tonight, we continue with this series, written and produced by Onno VK6FLAB. Each episode looks at different aspects of the diverse hobby of Amateur Radio.

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### **[Play File: 17-FCAL066.wav]**

*Duration 1m27s*

*In: "What use is an F-call?"*

*Out: "I'm Onno VK6FLAB"*

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For more information about this series, including transcripts and useful resources for F-calls, Onno's website is; [vk6flab.com](http://vk6flab.com), or follow him on Twitter, @VK6FLAB.

## **ARRL DX news**

GUYANA; Esmond, 8R1AK has been active on 10 metres using FT8.

PORTUGAL; Philippe, EA4NF will be active as CT7/EA4NF from April 13 to 16. Activity will be on various linear and FM Satellites.

SOUTH COOK ISLANDS; Bob, E51BQ is active from Rarotonga, IOTA OC-013, and is normally using FT8 on 30 and 20 metres from 0500 to 0600UTC daily.

NEW CALEDONIA; Jean-Louis, F5NHJ is active as FK/F5NHJ from Noumea until June 11. Activity is holiday style on the HF bands using CW, SSB, and various digital modes.

HUNGARY; Members of the Szollosi Jozsef Radio Club are active as HG1222BA to celebrate the 800th anniversary of the first constitutional document in continental Europe, called the Aranybulla.

GALAPAGOS ISLANDS; Rick, NE8Z and Maria, HC1MM are active as HD8MD and HD8MM, respectively, from Santa Cruz, IOTA SA-004, until April 14. Activity is on 40 to 6 metres using CW, SSB, FT8, and FT4.

SARDINIA; Bodo, DF8DX will be active as IS0/DF8DX until April 16.

JAN MAYEN; Rune, LA7QY and Helge, LB4MI are active as JX7QY and JX/LB4MI, respectively, until October while on work assignment. Activity is in their spare time on the HF bands using CW and SSB.

AUSTRIA; Jo, OE6VIE is active as OE0MORSE during April to commemorate the death of Samuel F. B. Morse.

NETHERLANDS; Members of VERON District A17 are active as special event station PI750GAZ until September 30 to celebrate the 750<sup>th</sup> anniversary since Gouda was granted city rights in the year 1272.

BRITISH VIRGIN ISLANDS; Operators N2IEN, WW2DX, W2RE, WW1X and KB2HZI will be active as VP2V/N2IEN from Tortola, Grid Square FK78, until April 16. Activity will be holiday style on 160 to 6 metres, and possibly Satellite, using CW, SSB, and FT8, with 2 to 3 stations active.

FALKLAND ISLANDS; Amateur radio operators in the Falklands can affix the suffix /40 to their call signs until June 14 to mark the 74 days of the Falklands war that took place 40 years ago.

MEXICO; Ramon, XE1KK is active as XI0X during all of 2022. Activity is on the HF bands using mostly digital modes.

BURKINA FASO; Max, DK1MAX is active as XT2MAX from Ouagadougou until April 20. Activity is on the HF bands using CW, some SSB, and various digital modes.

ST. HELENA ISLAND; Barrie, ZD7MY has been active using FT8 on 6 metres around 0400 to 0800UTC.

THIS WEEKEND ON THE RADIO. The ARRL SSB Rookie Roundup, Japan International CW Contest, NCCC RTTY Sprint, NCCC Sprint, K1USN Slow Speed Test, QRP ARCI Spring QSO CW Party, SKCC Weekend CW Sprintathon, OK/OM DX SSB Contest, FTn DX Contest, IG-RY World Wide RTTY Contest, DIG QSO CW Party, Nebraska QSO Party, New Mexico QSO Party, Texas State Parks on the Air, Georgia QSO Party and North Dakota QSO Party, Yuri Gagarin International DX CW Contest, International Vintage HF Contest, WAB 3.5/7/14 MHz Data Modes, Hungarian Straight Key 80-Metre CW Contest and the RSGB SSB RoLo SSB will certainly keep operators, and the bands, busy this weekend.

The 4 States QRP Group Second Sunday Sprint, OK1WC Memorial, 144 MHz Spring Sprint, RSGB FT4 Contest, Worldwide Sideband Activity Contest, RTTYOPS Weeksprint, NAQCC CW Sprint, Phone Weekly Test, A1Club AWT, CWops Test, VHF-UHF FT8 Activity Contest, Mini-Test 40 CW and Mini-Test 80 CW are scheduled for April 11 to 13.

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## WICEN News

Hunter WICEN will be holding its Annual General Meeting on the 19<sup>th</sup> of April 2022.

The date for the Watagan Horse Enduro is now the weekend of the 4<sup>th</sup> and the 5<sup>th</sup> of June. Hunter WICEN will be providing communications and if you would like to participate, please contact Dan VK2GG at [daniel.joyce@vrarescue.org](mailto:daniel.joyce@vrarescue.org).

WICEN NSW is providing communications for several events over the next couple of months, including the safety communications for two Memory Walk and Jogs; at Cronulla on Saturday the 21<sup>st</sup> of May and Sydney on Sunday the 22<sup>nd</sup> of May.

WICEN NSW is also providing communications for a Camp Quality fund-raising Trek; It will be 50km, from Bobbin Head to Balgowlah Heights on the weekend of the 21<sup>st</sup> and 22<sup>nd</sup>.

If you are interested in participating in either of these events, please email [wicen.ops@vrarescue.org](mailto:wicen.ops@vrarescue.org).

WICEN weekly voice nets are on Sunday evenings, starting at 6pm, on either the Chatswood 2 metre repeater, or the Kurrajong 70cm repeater. Please check the website for details.

WICEN NSW, is a communications support squad of VRA Rescue NSW. For more information on upcoming events, or how to join, visit the website at [nsw.wicen.org.au](http://nsw.wicen.org.au).

For information about other WICEN groups; WICEN ACT is part of the Canberra Region Amateur Radio Club. Their website includes WICEN and general Club information and can be found at [www.crarc.org.au](http://www.crarc.org.au). WICEN Victoria has a weekly net on Tuesday at 8:30pm, on 3.6MHz. More details on the web at [vic.wicen.org.au](http://vic.wicen.org.au).

## Club News

We start this week with news from the Oxley Region Amateur Radio Club; there's a Friday night get-together planned for 7pm on the 22<sup>nd</sup> of April, in the SES Building in Port Macquarie. The meeting will be held in accordance with the club's COVID-19 Safety Plan.

The club's Telegraph Point repeater site suffered a major lightning strike on the evening of Friday the 25<sup>th</sup> of March. All VK2RCN repeaters are currently off-air until a new underground power line can be run to the site and damaged equipment is repaired or replaced. Repairs are expected to take several weeks.

Now is the time to plan to attend the Oxley Region Amateur Radio Club's annual field day on Saturday and Sunday the 11<sup>th</sup> and 12<sup>th</sup> of June, during the Queen's Birthday Long Weekend. The Field Day will be at the spacious Wauchope Showground Hall, with the Field Day Dinner at Port Macquarie Golf Club on Saturday night.

Candidates for the Foundation, Standard and Advanced Licences can contact the club via PO Box 712 Port Macquarie NSW 2444. Assessments and training for Advanced, Standard and Foundation licences will run once sufficient candidates have registered their interest and public health restrictions permit.

There are two club nets each week; the mid-week net starts at 7:30pm on Thursday nights, and the weekend net starts at 9am Sunday mornings. Both nets are on the VK2RPM 2 metre repeater, on 146.7MHz with a 91.5Hz sub-audible tone for access. VK2RPM is also available via EchoLink for those outside the repeater coverage area. Members and visitors are encouraged to participate in the club on air nets as often as possible.

For more information about the Oxley Region Amateur Radio Club, visit the website at [orarc.org](http://orarc.org). The site contains a wealth of Amateur Radio items in addition to the club information. The March 2022 web edition of the club's bimonthly newsletter "Oxtales" is now online, and past issues can be viewed on the website as well. You can also find the Club on Facebook; just search for Oxley Region Amateur Radio Club.

*Advised by Henry VK2ZHE  
For the Oxley Region Amateur Radio Club.*

## **Westlakes Amateur Radio Club**

The next car boot sale is on Saturday the 23<sup>rd</sup> of April. Its in the Club grounds, 6a York Street Teralba, starting at 8am.

You can set up a stall at no charge; but bring your own table. There will also be a BBQ and hot and cold drinks available.

All are welcome. For more information, contact the club on 0478228983.

Westlakes has a net every Monday, Wednesday and Friday at 09:30am on 3565kHz.

*Advised by Barrie VK2QG  
For the Westlakes Amateur Radio Club*

## Central Coast Amateur Radio Club

It's only three weeks until Mayham, on Sunday the 1<sup>st</sup> of May. Examinations will be held for both Australian and US qualifications; there will also be fox hunts and a Meet & Greet on the Saturday.

An MMDVM hotspot will also be on offer as first prize in the fox hunt, which is now open for pre-registration through the Mayham web page. The pedestrian fox hunt will be a four-transmitter event!

You can find out more about all the activities at Mayham, including raffle prizes, terms and conditions, and how to pre-pay entry and avoid the queues; on the web at [mayham.org.au](http://mayham.org.au).

At VK2RAG Somersby, the D-Star, RadNet DMR and 2m EchoLink services are fully functional. Brand Meister DMR and 70cm EchoLink and IRLP are still having problems.

The Somersby WebSDR, [websdr.ccarc.org.au](http://websdr.ccarc.org.au) is currently configured to listen on 6 metres, 2 metres, 70 centimetres and 23 centimetres.

The Club's daily Morning Tea is on at 10am and after VK2WI News on Sunday mornings. The Thursday night net starts at 8pm. Both nets are on the VK2RAG 2m repeater – 146.725 MHz with 91.5Hz tone, and on EchoLink HAM and CCARC conferences.

The fortnightly SSTV net is hosted by Adrian VK2ABS. It's usually 2-3 rounds on the Club's 2 Metre WICEN repeater; 147.125 MHz with 91.5Hz tone. Adrian has had a large amount of support from other members and would love to see you drop in on the next net, this Friday the 15<sup>th</sup> of April at 7:30pm.

SSTV and Weekly nets are also video streamed live to the club's Facebook page, and recordings of past nets can be found, in the "Videos" section. You can find out more about the CCARC on the web at [ccarc.org.au](http://ccarc.org.au); by phone on 02 43402500 or on social media by searching for Central Coast Amateur Radio Club; remember to "like" to follow for updates.

*73 Alan VK2MG*

*Publicity Officer, Central Coast Amateur Radio Club.*

## US Licence exams at Mayham

Julian VK2YJS has provided more information about Exams for US Amateur licences which will be available at Mayham, on May the 1<sup>st</sup>.

The US licence allows operation in the US without the restrictions which apply to reciprocal operation, as well as operation of remote stations in the US. The grades are: Technician, with access to all bands from 6 metres up, CW, data, and SSB on 10, and CW on 80, 40 and 15. General gains access to part or all of every HF band; and Extra gets all Amateur spectrum.

Each grade requires a separate exam paper, but 1, 2 or 3 papers can be sat for the one fee.

After the 19<sup>th</sup> of April, licence applications are subject to the new FCC fee structure, under which the licence is valid for 10 years. An upgrade is a fee exempt "administrative update", however a vanity callsign application is subject to the fee.

Those under 18 may take advantage of the ARRL "Youth Licensing Grant Program".

For details and bookings email Julian at [vk2yjs@gmail.com](mailto:vk2yjs@gmail.com).

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## Illawarra Amateur Radio Society

The next meeting of the Society is on this coming Tuesday evening the 12<sup>th</sup> of April. The general meeting starts at 7:30pm, directly following the Society's Committee Meeting which starts at 6:30pm. Attendees are most welcome to arrive from 6.30 onwards to enjoy a pre-meeting chat and cuppa in the foyer.

Meetings are at the BlueScope Steel Visitors Centre, on the southern side of the Wollongong CBD. After turning off Springhill Road into the BlueScope main entrance road, attendees then turn immediately right before the security gates, following the large signs towards the Visitors Centre.

Tuesday's meeting features a presentation by IARS Members Mal VK2DXM and Shane VK2HCO on SDR – Software Defined Radio. This presentation was planned for the March meeting, but since many members were unable to attend last month due to flooding around Wollongong, the presentation has been moved to the April meeting.

Mal and Shane have been experimenting with various SDRs, from \$10 USB dongles through to expensive full-blown rigs. If you are interested in this subject or are looking at purchasing a SDR dongle or radio, come along to the BlueScope Visitor's Centre for an informative and enjoyable evening. Following the presentation there will be the usual tea, coffee, biscuits, and cake.

The Society has two weekly Nets. The Saturday morning net starts at 9:30am, run by Steve VK2BGL. You can join on the 2 metre repeaters, VK2RMP on 6850 or VK2RUW on 6675, or from out of town via EchoLink, VK2BGL-R. The second weekly Net is on 80 metres on Tuesday evenings, except for meeting nights, at 8:30pm; the usual frequency is 3666kHz, plus or minus for other usage; the next 80m net will be on the 19<sup>th</sup> of April.

You can find out more about the Illawarra Amateur Radio Society, including details on Amateur Radio training and examination activities, on the web at [iars.org.au](http://iars.org.au), and the society is also on Facebook. The website again; [iars.org.au](http://iars.org.au). To conclude, all listeners are invited to attend the next meeting of the Illawarra Amateur Radio Society, at 7.30pm this coming Tuesday the 12<sup>th</sup> of April, at the BlueScope Steel Visitor Centre in Wollongong.

*Advised by Rob VK2MT  
President of the Illawarra Amateur Radio Society.*

## Blue Mountains Amateur Radio Club

On Friday 1st April, the club was privileged to have Mr Ian Cunningham from the NSW Ambulance Service deliver a talk on radio communications in the Ambulance Service. Ian was a senior communications technician with the NSW Ambulance Service. The club would like to thank Ian for his time to present to the club.

On Saturday the 23<sup>rd</sup> of April, the Club will have an auction and sausage sizzle at the clubrooms, 4 Moore Street Glenbrook. The event will start at 12 noon, with gates opening at 9am for viewing and the sausage sizzle. Reserve prices are set on many items, others are open to offers. For more details contact club secretary, Irene VK2VAN on 0438 606 740.

Wednesday night Standard and Advanced upgrade courses are taking a short break, resuming on the 27<sup>th</sup> of April.

For more information, on upcoming Foundation weekends or licence upgrade classes; contact the club Secretary, Irene VK2VAN – her email address is [secretary@bmarc.org](mailto:secretary@bmarc.org).

On the first and third Saturday of the month, the clubhouse is open for any members wishing to work on a technical project, seek advice from an expert or drop in for a cup of coffee and a chat.

More information about the club can be found on the website, at [www.bmarc.org](http://www.bmarc.org).

*73 from James VK2GOH  
Publicity Officer, Blue Mountains Amateur Radio Club.*

## Sydney ATV Group

The Group's ATV repeater at Lawson in the Blue Mountains, transmits high-definition TV on 445.50MHz, with analogue and digital inputs on 23cm.

Reception is possible over the Sydney Metro area, or via the British Amateur TV Club streaming web site; on the site, select the VK2 callsign and if requested, the HTML5 option. You can also text to say that you're watching – just enter /nick, a space then your name, your following text will appear in the column above.

Regular nets are on Monday evenings starting at 7:30pm. We regularly have technical talks, show our latest projects, general interest videos and much more.

Give us a call during the net on the Lawson repeater, 147.325 MHz with positive offset, with reports, questions or help with receiving Amateur Television. Why not join in and find out more about this fascinating and fast-growing aspect of digital amateur radio.

*Advised by John VK2ATU  
on behalf of the Sydney ATV Group.*



## St George Amateur Radio Society

In 2021, the Society established the Don Edwards Memorial Slow Morse Contest to honour the contribution of Don Edwards (VK2NV-SK) to Morse code operation and proficiency.

This year, the weekend of the 14<sup>th</sup> and 15<sup>th</sup> sees the contest on 80m and 40m.

For the two weeks prior to this contest, the Society will be holding practice Morse sessions every evening on 80m. As Morse code competence is no longer required for gaining a radio amateur operator's certificate of proficiency, the sessions provide an opportunity to practice on air up to a relatively comfortable 5 words per minute.

The first practice session is on Sunday the 1<sup>st</sup> of May from 8pm, on 3520kHz +/- as necessary. The operator will be using the Society's callsign, VK2LE.

For more information about these events, along with the contest rules and general information, visit the society's website at [sgars.org](http://sgars.org).

## Hornsby and Districts Amateur Radio Club

The next mid-monthly meeting is at 8pm on Tuesday the 12<sup>th</sup> of April, at the Mt Colah Community Centre.

The club's three weekly nets are;

Monday evenings at 8pm on the VK2RNS 2m repeater, 147.25MHz. No tone is needed for access, but 91.5 Hz is sent; Wednesday's 80 metres net is also at 8:00 pm, on 3608.5kHz; and "Morning Tea with HADARC", is on Fridays from 9am on 7106kHz.

International Marconi Day is the UTC Day of Saturday, 23 April. HADARC will once again be operating VK2IMD across various HF bands, from 10 am Saturday to 10 am Sunday. So far, nearly 40 stations world-wide have registered to take part. HADARC is a participant because the first signals from the UK to Australia, which were sent from North-West Wales, were received in Wahroonga, in late 1918.

The Club's website has up to date details on club activities; it's at [www.hadarc.org.au](http://www.hadarc.org.au). The club has a group on Facebook, which can be found by searching for VK2MA, and on twitter, @VK2MA.

*Submitted by Julian VK2YJS  
HADARC Publicity Officer.*

[Jitsi Meet details:

Phone: 08 7150 1136 and enter 3145759306#

Web: <https://meet.jit.si/HADARC> ]

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## Activities on the air

**Lightning Net** 8pm Mondays on 1860kHz, Net control Steve VK2STG.

**Snowy Mountains ARC** net 7:30pm Saturday on Southeast network; VK2RFS 146.75MHz, VK2RSE 147.375, VK3RDH 146.625, and EchoLink.

**Oxley Region ARC** nets 7:30pm Thursday, 9am Sunday, VK2RPM 146.7Mhz with 91.5Hz tone.

**Great Lakes Radio Club** weekly net 7pm Monday, on VK2RGL; 147.1MHz with 91.5Hz tone, EchoLink VK2RGL-R.

**Westlakes** 80 metre nets Monday, Wednesday, and Friday at 9:30am on 3565kHz. 2m nets on 146.775MHz, see website for details.

**Hunter Radio Group** VK2AWX News 7:30pm Monday, on 146.9Mhz and 438.025MHz. Meeting net Wednesday 7:30pm on 146.9.

**Central Coast ARC** Morning tea at 10am daily – after news on Sundays; Thursday nights 8pm; VK2RAG 146.725MHz with 91.5Hz tone and EchoLink. Next SSTV net April 15.

**Amateur Radio Central West Group** lunchtime net 1pm daily; evening net Monday and Friday at 8pm, VK2RCW. HF net 8pm Wednesday 3653kHz.

**Illawarra ARS** Nets Saturday 9:30am on VK2RMP 146.850 and VK2RUW on 146.675; Tuesday 8:30pm, 3666kHz.

**Blue Mountains ARC** Nets on VK2RBM, 147.050MHz with 123Hz tone; Wednesdays from 8pm; Tuesdays from 8pm on 3543kHz.

**Waverley ARS** net 8pm Monday VK2RBV, 438.1125MHz. Activities online and on air; see website.

**Sydney ATV Group** net 7:30pm Monday; call in on repeater 147.325MHz.

**Fishers Ghost ARC net** 7:30pm Thursdays on VK2RFG, 438.65MHz with -7MHz offset and 91.5Hz tone required, also on EchoLink.

**St George ARS** net 8pm Thursday, on VK2RLE 146.8MHz.

**HADARC** Monday night 8pm on VK2RNS, 147.25MHz, Wednesday from 8pm on 3608.5kHz, Friday 9am on 7106kHz.