

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

ARNSW is reintroducing in-person activities at VK2WI Dural, in line with current public health guidance. The next event planned is a Foundation course and licence examination weekend, on the 9th and 10th of July. For more information, or to make a booking for a course, contact our education team via email to; education@arnsw.org.au.

As always, you can direct any general enquires to the ARNSW office via email, to 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 – 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, and recordings of previous bulletins are also available.

Weekly Solar and Geophysical Report

For the period of the 10th to the 16th of June;

This report issued on the 17th of June.

First, the summary;

Dates across the columns are	10 th	11 th	12 th	13 th	14 th	15 th	16 th
10cm Flux	111	112	121	132	146	140	147
Fredericksburg Index (Afr)	6	10	12	14	10	18	8 observed
Australian Index (Aaus)	2	5	6	5	5	13	7 estimated
T index	60	51	59	70	64	69	69

Solar flare activity reached R1 warning levels three times this week; with an M1.2 flare at 1054UTC on the 10th, an M3.4 at 0407UTC on the 13th, and an M1.6 at 0353UTC on the 16th. Otherwise, activity remained at low levels.

Geomagnetic activity remained mostly at quiet levels, except for the 15th, where there was an isolated period reaching G1 level; SWS magnetometer data showed a weak impulse of 14 nanoTesla, at 0435UTC.

F2 critical frequencies in Southern Australia, were generally near predicted monthly values, with some enhancements during local night; of 20% on the 13th, 15% on the 14th, 30% on the 15th, and 15% on the 16th.

The forecast for the 17th to the 23rd of June;

Solar activity is expected to be low to moderate, possibly reaching R1 warning levels. Geomagnetic conditions are expected to remain quiet, with a chance of isolated G1 level activity between the 23rd and 24th.

Maximum Usable Frequencies are likely to remain near predicted monthly values, with isolated shortwave fadeouts possible.

Data courtesy of Space Weather Services.

Solar Flux Index update

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

Having finished May, we had a;

Minimum of 98, Average of 135 and a Maximum of 180
With peak dates from the 14th to the 26th.

So far for June, we are expecting a;

Minimum of 96, Average of 118 and a Maximum of 146
With peak dates from the 13th to the 25th

And looking ahead to July, we are expecting a;

Minimum of 100, Average of 108 and a Maximum of 125
With peak dates from the 8th to the 20th.

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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Duration 1m59s

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

Out: "I'm Onno VK6FLAB"

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

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ARRL DX news

MADAGASCAR; Bernard, F9VO is currently active as 5R8BM from Nosy Be Island, IOTA AF-057.

LESOTHO; Mark, KW4XJ, and Arina, KO4PZT are active as 7P8AB and 7P8NB, respectively, from Maseru. Activity is on the HF bands using CW, SSB, and various digital modes.

ALGERIA; Special event stations 7R19MG and 7Y19MG will be active from June 25 to July 5 for the 19th edition of the Mediterranean Games to be held in Oran.

OGASAWARA; Harry, JG7PSJ will be active as JD1BMH from Chichijima Island, IOTA AS-031, until June 26. Activity will be on 40 to 10 metres using CW, SSB, and RTTY.

ARGENTINA; Members of Radio Club QRM Belgrano will be active as LU4AAO until June 20, to commemorate Argentine Flag Day. Activity is on the HF, VHF and UHF bands using CW, SSB, SSTV, FT8, and V/UHF FM.

GREECE; Alex, SQ9UM is active as SV2/SQ9UM from Poliouri until June 24. In addition, Chris, OE5CFH is active as SV8/OE5CFH from Corfu Island, IOTA EU-052, until June 21.

SOMALIA; Ali, EP3CQ is active as 6O1OO from Mogadishu and is there for about a month. Activity is in his spare time on 160 to 6 metres, mainly FT8.

FALKLAND ISLANDS; Radio station VP8GGM at the Goose Green Military Museum will be active during International Museum Weekends on June 18 and 19, and again on June 25 and 26.

MEXICO; Special event station 4A2MAX is active until November 1 to commemorate Saint Maximilian Maria Kolbe.

INDONESIA; Indra, YB8QT is active from Siau Barat, IOTA OC-210, and is there while working for the next two to three years.

ZIMBABWE; Members of the Russian DX Team are active as Z21RU from Harare until June 29. Activity is on 160 to 6 metres, and Satellite QO-100, using CW, SSB, and various digital modes with several stations active.

GIBRALTAR; Kevin, ZB2GI is active with special event callsign ZQ2GI until June 30 to celebrate her Majesty Queen Elizabeth II's Platinum Jubilee that marks 70 years of service to the people of the United Kingdom.

THIS WEEKEND ON THE RADIO. ARRL Kids Day, All Asian DX CW Contest, Stew Perry Topband CW Challenge, International Museum Weekend, NCCC RTTY Sprint, NCCC Sprint, K1USN Slow Speed CW Test, Battle of Carabobo International Contest, IARU Region 1 50 MHz Contest, West Virginia QSO Party and the Feld Hell Sprint are all scheduled for this weekend.

The Run for the Bacon QRP CW Contest, K1USN Slow Speed Test, ICWC Medium Speed CW Test, OK1WC CW Memorial, Worldwide Sideband Activity Contest, RTTYOPS Weeksprint, SKCC CW Sprint, Phone Weekly Test, A1Club AWT, CWops Test, Mini-Test 40 and Mini-Test 80 are coming up from June 20 to 22.

WICEN News

WICEN NSW is providing communications support for several events this month, starting with this weekend's Glow Worm Tunnel Marathon.

Later in the month is True Grit, a military-inspired obstacle course race, on Saturday the 25th at Dargle Farm, Lower Portland. A small number of volunteers are still required; contact Nic VK2KXN at nicholas.mclean@vrarescue.org.

This year's Navshield is on the weekend of the 16th and 17th of July. Organised by the Bush Search and Rescue Unit of the SES, its a remote bushland navigational exercise involving many of the emergency services. WICEN NSW will be assisting with communications and if you would like to volunteer, email wicen.ops@vrarescue.org.

WICEN NSW 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.

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. WICEN Victoria has a weekly net on Tuesday at 8:30pm, on 3.6MHz. More details on the web at vic.wicen.org.au.

Club News

We start this week with news from the Oxley Region Amateur Radio Club; Last weekend saw the Club's annual field day; with 99 registrations and perfect weather, everyone had a most enjoyable weekend with all the usual Field Day activities, and bargains in the disposals; traders were kept busy, and the food was excellent. The DMR clinic and demonstrations were very popular. Diane VK2DNE ran the ALARA stand. Gerard VK2IO was Foxhunt Champion with Chris VK2YMW the runner up. Andy VK2AAK won the homebrew contest with his very innovative radio repeater.

Saturday night's Field Day Dinner at the Port Macquarie Golf Club was an excellent opportunity to relax with fellow Field Day attendees over a great meal in very comfortable surroundings. Both the Wauchope Showground Hall and the Port Macquarie Golf Club Function Room have already been booked for next year's Field Day.

The next monthly meeting will be a 7pm on the 2nd of July, at the SES Building in Port Macquarie. It will be held in accordance with the club's COVID-19 Safety Plan.

The VK2RCN repeaters are off air, following the lightning strike in March; repairs to the power line to site have been delayed by recent wet weather. 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, 146.7MHz with a 91.5Hz sub-audible tone for access. VK2RPM is also available via EchoLink.

For more information about the Oxley Region Amateur Radio Club, visit the website at orarc.org. The site contains a wealth of Amateur Radio items in addition to the club information. The May 2022 web edition of the club's bimonthly newsletter "Oxtales" is now online; it's a 40-page issue with all the Field Day information, as well as a comprehensive introduction to the Nano VNA by Bob VK2ZRE. 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.*

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Central Coast Amateur Radio Club

The Clubrooms at Kariong are open every Saturday. Members are reminded that Annual Membership is now due.

The Club currently has a raffle running until June 30; for information on prizes, terms, and conditions; see the link on the club web page, ccarc.org.au.

At VK2RAG Somersby, the issue with the 6-metre repeater has been resolved. 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 is currently configured to listen on 6 metres, 2 metres, 70 centimetres and 23 centimetres.

The Club's daily Morning Tea continues 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, Friday the 24th of June 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; 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.*

Blue Mountains Amateur Radio Club

The Club's Annual General Meeting will be held on Friday the 1st of July starting from 7:30pm at the clubhouse in Glenbrook.

Nominations for the following positions are open; president, vice-president, secretary, treasurer, and ordinary committee members. The sub-committee positions of repeater manager, publicity officer, education officer and Projects manager are also open as well.

This weekend was a Foundation Course was held at the clubhouse, and Applications for the next Foundation Course, on the second weekend in August, are now open.

For those wish to upgrade their licence, courses continue to be run every Wednesday night via zoom.

For more information or to register for any courses or examinations at the Club, you can contact the club Secretary, Irene VK2VAN – her email address is 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. The next open days are Saturday the 4th and 18th of June.

More information about the club can be found on the website, at 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.

You can call in 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.*

Hornsby and Districts Amateur Radio Club

A reminder about the special guest speaker at the Monthly General meeting coming up on the 28th of June. Brett Savill, who has broad experience in telecommunications in Australia, will be talking about the changes in the communications industry and the latest developments in 5G networks.

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.

Both HF nets are plus or minus QRM; Listen for VK2MA.

The Club's website has up to date details on club activities; it's at 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.*

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Activities on the air

Daily;

The **CCARC Morning Tea net** is on at 10am, and after VK2WI News on Sundays. VK2RAG, 146.725MHz with 91.5Hz tone, also on EchoLink.

Amateur Radio Central West Group lunchtime net 1pm daily on VK2RCW.

Monday;

Westlakes ARC nets 9:30am, now on 40 metres, 7115kHz, VK2ATZ Portable.

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

Hunter Radio Group VK2AWX News 7:30pm, 146.9Mhz and 438.025MHz.

Sydney ATV Group net 7:30pm; call in on 2m repeater 147.325MHz.

Amateur Radio Central West Group net at 8pm on VK2RCW.

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

HADARC net 8pm on VK2RNS, 147.25MHz

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

Tuesday;

Blue Mountains ARC net from 8pm on 3543kHz.

Illawarra ARS 80m net at 8:30pm, 3666kHz.

Wednesday;

Westlakes ARC net 9:30am on 7115kHz. 2 Metre nets, see website for details.

HADARC 8pm on 3608.5kHz

Blue Mountains ARC 8pm on VK2RBM, 147.05MHz with 123Hz tone.

Amateur Radio Central West Group from 8pm on 3653kHz.

Thursday;

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

Oxley Region ARC from 7:30pm on VK2RPM 146.7Mhz with 91.5Hz tone.

St George ARS 8pm on VK2RLE 146.8MHz.

Central Coast ARC net 8pm on VK2RAG.

Friday;

Morning tea with HADARC at 9am on 7106kHz.

Westlakes at 9:30am on 7115kHz1.

Amateur Radio Central West Group at 8pm on VK2RCW.

The next **CCARC SSTV Net** at 7:30pm on the 24th of June, 147.125MHz with 91.5Hz tone.

Saturday;

Illawarra ARS net 9:30am on VK2RMP 146.850 and VK2RUW on 146.675.

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

Sunday;

Oxley Region ARC from 9am, VK2RPM 146.7Mhz with 91.5Hz tone.