

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

The next ARNSW Foundation and assessment weekend is in July on Saturday the 22nd and Sunday the 23rd. Bookings can be made by email, to education@arnsw.org.au. Places are limited, so register your interest as soon as possible.

If you are interested in obtaining a US amateur licence, there is a group of ARRL recognised Volunteer Examiners in Sydney. They are planning to hold an exam session in July, tentatively around the Bankstown area in Sydney.

There is a range of online, printed, and audio learning resources available.

Note that candidates need to study all grades up to the one which they wish to obtain, but the examinations for as many papers as necessary can be sat for the one flat fee.

For more information, contact Julian VK2YJS, or look up the Facebook group "USA Amateur Radio Licence Exams in Australia"
[<https://www.facebook.com/usahamsinoz/>]

.

ARNSW Radio Homebrew and Experimenters Group

At the meeting of the group on July 30th, the ARNSW Radio Homebrew and Experimenters Group will be holding a build-a-thon for a high powered dummy load.

The group has a limited number of "kits" available for construction on the day. These include a 250 Watt 50 Ohm RF resistor, a massive aluminium die cast heatsink, a copper heat spreader and other bits. There will be tools available including a drill press, taps and soldering irons.

The dummy load will be a copy of one made several years ago, with a VSWR measured of 1.1 to 1 at 70cm, and 1.2 to 1 at 23cm.

There are only a very limited number of kits and they are only available for building on the day.

For more details, send an email to <homebrew@arnsw.org.au>

At the last Homebrew meeting, an amateur spoke with Peter VK2EMU with an offer of a presentation on "lightning protection". Peter has mislaid his details, so could that person contact Peter at homebrew@arnsw.org.au or via the office.

*Advised by Peter VK2EMU
Coordinator, ARNSW Radio Homebrew and Experimenters Group*

Weekly Solar and Geophysical Report

For the period of the 16th to the 22nd of June.

First, the summary;

| Dates across the columns are | 16 th | 17 th | 18 th | 19 th | 20 th | 21 st | 22 nd |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 10cm flux | 74 | 75 | 75 | 74 | 74 | 74 | 74 |
| Fredericksburg Index (Afr) | 18 | 12 | 9 | 7 | 3 | 3 | 6 estimated |
| Australian Index (Aaus) | 15 | 8 | 8 | 3 | 1 | 1 | 1 estimated |
| T index | 4 | 14 | 15 | 13 | 6 | 3 | 14 |

Solar flare activity was very low all week.

Geomagnetic activity in the Australian region, was at quiet to Minor storm levels on the 16th, quiet to unsettled on the 17th and 18th, then quiet for the rest of the week.

F2 critical frequencies in the southern Australian region, started out near predicted monthly values on the 16th. The 17th was depressed 15% during local day but at night returned to near predicted values. The 18th was near predicted throughout, then the 19th was near predicted during local day, but enhanced up to 15% during local night. The 20th and 21st remained at near predicted values, then the 22nd was again near predicted during local day, then enhanced 15% during local night.

Now, the forecast for the 23rd to the 29th of June;

Solar flare activity is expected to be very low to low.

Geomagnetic activity is expected to be at Quiet to Active levels on the 23rd and 24th with some Minor Storm periods possible. Quiet to unsettled conditions are expected on other days.

Maximum Usable Frequencies might be mildly depressed on the 24th and 25th, but should be near predicted monthly values on other days.

Data courtesy of Space Weather Services.

Solar Flux Index update

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

Firstly, the figures for May were;

Minimum 69 Average 74 Maximum 82
With peak dates between the 1st and 4th, and the 25th to the 30th.

Now neat the end of June, the figures so far;

Minimum 74 Average 75 Maximum 79
With peak dates between the 2nd and the 8th, and the 24th to the 29th.

And looking ahead to the prediction for July;

Minimum 70 Average 74 Maximum 77
With peak dates between the 6th and 10th, and the 16th to the 18th.

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>]

[Play Evening ID2]

ARRL DX news

VIETNAM, 3W. Megumu, JA6QGF, is active as 3W9A from Ho Chi Minh City. Activity has been on 17 and 6 metres SSB.

MONTENEGRO, 4O. Giuseppe, IK5WWA is active as 4O7GD until June 28. Activity is on 80 to 6 metres using SSB.

JAMAICA, 6Y. Ali, EP3CQ is now licensed as 6Y5CQ. He plans to be active in the Jamaica Amateur Radio Association annual Field Day exercise.

WEST MALAYSIA, 9M2. Tak, JE1SCJ and Tex, 9M2TO will be active as 9M4DXX/p from Pulau Perhentian Kecil, IOTA AS-073, until June 26. Activity will be on 40 to 10 metres using CW and JT65.

CHINA, BY. Members of the Chinese Radio Amateur Club will be active as B7CRA from Yongxing Island, IOTA AS-143, from June 26 to July 2. Activity will be on 80 to 6 metres using CW, SSB and various digital modes with two to three stations active.

FEDERAL REPUBLIC OF GERMANY, DA. Special event station DB125PTB celebrates the 125th anniversary of the Pressnitz Valley Narrow Gauge Railway running between Steinbach and Joehstadt.

SVALBARD, JW. Peter, LA7QIA will be active as JW7QIA from Spitsbergen Island, IOTA EU-026, from June 24 to July 1. Activity will be on the HF bands and 6 metres using CW, SSB and various digital modes.

SLOVAK REPUBLIC, OM. Special event station OM2017WYAC will be active from June 26 to July 9 during the 1st World Youth ARDF championship.

ST. MAARTEN, PJ7. Operators David, W9DR, John, W9KXQ, Kenneth, KK9N, David, K9UK and Thomas, W9AEB are active as PJ7/home calls until June 28. Activity is on 80 to 6 metres using CW and SSB.

GREECE, SV. Dave, GM0LVI is active as SV8/GM0LVI from Zakynthos, IOTA EU-052, until July 6. Activity is holiday style on the HF bands using QRP power.

PALAU, T8. Yutuka, JH1MLO and Chusuke, JR1FKR will be active as T88HR and T88TJ, respectively, from Koror Island, IOTA OC-009, from June 28 to July 2. Activity will be on 80 to 6 metres using SSB and RTTY.

EUROPEAN RUSSIA, UA. During the 2017 FIFA Confederations Cup being held in Russia, special event stations R17RUS, R17DEU, R17AUS, R17CHL, R17MEX, R17NZL, R17PRT and R17CMR are active until July 2.

KALININGRAD, UA2. Special event station UE08F is active during the 2017 FIFA Confederations Cup.

BELIZE, V3. David, KG5CI is active as V31CI from San Pedro on Ambergris Caye Island, IOTA NA-073, until June 27. Activity is holiday style on the HF bands, including 6 metres and various satellites. He will also be active during ARRL Field Day.

MICRONESIA, V6. Hid, JA3KGF, Tosy, JA3FGJ, Sanny, JJ3CIG and Mami, JP3AYQ will be active as V6J from Mwoki Island, IOTA OC-226, until June 29. Activity will be on 40 to 15 metres using CW, SSB, RTTY, PSK and JT65.

CHRISTMAS ISLAND, VK9X. Operator HL1AHS will be active as VK9AA until July 1. Activity will be on 80 to 6 metres using CW, SSB and various digital modes.

OPERATIONS APPROVED FOR DXCC CREDIT. The following operations are approved for DXCC credit: Libya, 5A5A, April 2017 operation; Andaman Islands, VU4YC, 2017 operation.

THIS WEEKEND ON THE RADIO. ARRL Field Day, NCCC RTTY Sprint, NCCC CW Sprint, Battle of Carabobo International Contest, UFT QRP CW Contest, Ukrainian DX DIGI Contest and His Majesty King of Spain SSB Contest will certainly keep contesters busy this weekend.

The CWops Mini-CWT CW Test, Phone Fray and SKCC CW Sprint are scheduled for June 28.

WICEN News

This weekend saw Navshield, the NSW Emergency Services Wilderness Navigation Shield, organised by Bush Search and Rescue New South Wales. It was held in Marramarra National Park, on the Hawkesbury River.

The weekend of 21 to 23rd July will be a recce for the VH-MDX SAREX, with the event on the 15th to 17th September. This is a search and rescue exercise built around the search a light aircraft missing since 1981, in the rugged Barrington Tops.

The tentative date for the WICEN AGM is Saturday the 26th of August.

In October, the Trek for Timor in Kangaroo Valley is on 7th and 8th, and the Hawkesbury Canoe Classic is held overnight, subject to confirmation, on the weekend of the 28th and 29th of October.

The WICEN New South Wales website, at nsw.wicen.org.au - includes that printable membership form you've been meaning to download, a web contact form, other contact details, and some useful links. Facebook users will find the official WICEN NSW page, and an informal national WICEN group, and hopefully, some photos on the NavShield setup.

WICEN Northern Rivers has a weekly net on Tuesdays at 8:00pm local time, on the Lismore repeater VK2RSC on 146.8 MHz, requiring a 123 Hz tone. Listen for VK2WIR. Members will be providing communications for the Jackadgery Horse Enduro on July 29 and 30.

WICEN ACT is part of the Canberra Region Amateur Radio Club, supporting events in the ACT and Capital Country. July 22 is penciled in as the BMSC Narooma Rally, September 2nd and 3rd is the ACTERA Brookvale Horse Enduro on the north-west border of the Territory. For more information visit: www.crarc.ampr.org.

WICEN Victoria holds a net every Tuesday at 8:30pm, on or near 3.6 MHz. Sunday the 6th of August is the Rainbow Desert Rally, which is an off-road buggy event in the state's west. Their website is: vic.wicen.org.au.

*Submitted by Julian VK2YJS
on behalf of the WICEN NSW State Management Committee.*

[Play Evening ID3]

Club News

We start this week with news from the Central Coast Amateur Radio Club.

The clubrooms are open every Saturday from 10am and are located at Dandaloo St Kariong, next to the RFS facility. Business meetings are held at 1pm on first Saturday of each month, with a BBQ sausage sandwich from midday, for a \$2 donation. Visitors are always welcome.

The club holds a 2 metre Net on Thursday nights starting at 8pm, on the Somersby repeater 146.725MHz, which has a 91.5Hz tone for access. The net is not restricted to club members - visitors are also welcome. Shortwave listeners who would like to participate can do so by email to the net controller Bob, at vk2aor@bigpond.com. The net already has one regular SWL who participates every week, and a few casuals.

For more information on the clubs visit the website, ccarc.org.au. News Bulletins from VK2WI are also relayed by through the Club's 2 metre and 6 metre repeaters, live from 10am on Sunday morning and 7:30pm in the evening.

Bob VK2AOR

Publicity Officer, Central Coast Amateur Radio Club.

Oxley Region Amateur Radio Club

The next meeting of the Club is the July monthly general meeting, at 2pm on Saturday the 1st of July, in the SES Building in Port Macquarie.

Candidates for the Foundation, Standard and Advanced Licences should contact the club via PO Box 712 Port Macquarie NSW 2444 as soon as possible. The next training courses and assessments for the Advanced, Standard and Foundation licences will be run when sufficient candidates have registered.

The club conducts two nets each week; the mid-week net starts at 7:30pm on Thursday nights, and the weekend net takes place from 9am on Sunday mornings. Both nets are on the VK2RPM 2 metre repeater, 146.7MHz. This repeater requires a 91.5Hz sub-audible tone for access.

Visitors are always made very welcome at monthly general meetings, at 2pm on the first Saturday of the month, as well as at Friday night gatherings, at 7pm on the third Friday of the month. The venue for all club meetings is the SES Building in Port Macquarie.

For more information about the Club, visit the website at orarc.org. The site contains a wealth of Amateur Radio items in addition to the club information. The May 2017 web edition of the club's bimonthly newsletter "Oxtales" is now online, and past issues are available on the website as well.

*Submitted by Henry VK2ZHE
for the Oxley Region Amateur Radio Club.*

Hunter Radio Group

The next meeting of the group is coming up in July, on Friday the 14th. Location is as usual, the NBN TV Studios in Mosbri Crescent, Newcastle, and the meeting starts at 8pm.

At the meeting there will be a "Do it yourself" discussion, so bring along your current technical project and give a short presentation.

The mid-year Social Luncheon of the Group will be held on Saturday, 15th July, 2017. Its at the Windale Bowling Club, at Windale, Lake Macquarie, starting at 11:30am. Please contact our President Len, VK2ZFD for bookings.

*Submitted by Rodney VK2CN
Secretary, Hunter Radio Group.*

Westlakes Amateur Radio Club

Westlakes ARC in lakeside Teralba New South Wales, is once again holding a car boot sale.

This will be held at the Club grounds on July 15th, these car boot sale days were introduced to bring locals together and are for the sale of any items, not just radio related gear.

Always interesting to see what is on offer, setup is free, grounds are free, tea and coffee on site is free, camaraderie and goodwill are free! Generally start time is around 9am but some buyers/sellers may be early! Any enquiries please contact the Club Secretary via email, to secretary@westlakesarc.org.au

Advised by Jeff VK2MCD

Secretary Westlakes Amateur Radio Club

Waverley Amateur Radio Society

It's now just under two weeks until the clubs Annual Auction on Saturday, July 8th. Gates open at 8:30am, with the auction commencing at 10am. Come along and sell some of your no longer needed gear or buy something you really need for the shack. Full details and auction rules can be found on the club's website.

The next Shack night is on Wednesday July 5th, commencing at 7:30pm. Its a good time to bring along that new rig, to get some help to program it, learn how to use it or test it on the club's antennae.

There is a working bee at the clubhouse from around 10am until 4pm, on most Tuesdays. A quick call on one of the club repeaters will confirm that the club is open.

The next Project Day is scheduled for Saturday, July 1st, commencing around 1:30pm and usually running through to about 4:30 to 5pm.

The club runs a weekly net every Monday evening, commencing at 8pm on its VK2RBV Fusion repeater, in FM mode on 438.1125MHz. A listening watch is still kept on the Paddington repeaters.

Skip's Morse sessions are continuing on Thursday evenings, see the club website for details.

The next Foundation course and assessment weekends at the club, is scheduled for the weekend of September 16th and 17th. To book your place, see our website under Education and Training, for details.

Waverley's clubhouse is located in the Scout Hall in Vickery Avenue, Rose Bay with parking available in the grounds. Visitors are always welcome at any club activities.

There is full information about the club on its regularly updated website at vk2bv.org. It includes the capability to renew membership, purchase items or book and pay for courses or assessments online. There is also an enquiry form on the webpage.

*73 from Eric VK2VE
Broadcast Publicity Officer*

St George Amateur Radio Society

The next gathering of the Society is on Wednesday evening, the 5th of July.

There will be a presentation on digital voice. There is an evolution in voice communications in amateur radio - it started with AM, which was largely replaced by SSB and FM, and now there is digital voice. Digital voice has a number of advantages over the older formats, including narrower bandwidths and working with noisy environments.

There are a number of different digital voice packages, suitable for VHF & UHF as well as HF.

As well as the presentation, there will be the usual refreshments. All members, local amateurs and others interested are invited to attend.

The meeting rooms are at Donnelly Park, Kyle Parade, Connells Point – near South Hurstville. The gathering starts at 7.30pm.

The What Three Words address for the club is "torch bath frosted".
[<http://map.what3words.com/torch.bath.frosted>]

*Advised by Peter VK2EMU
For the St George Amateur Radio Society*

Hornsby and Districts Amateur Radio Club

The next meeting of the club is the monthly general meeting coming up this Tuesday. It is at the Mount Colah Community Centre from 8:00pm. The centre is near the northern end of Pierre Close, close to Mount Colah Railway Station.

The meeting will feature several short presentations: First is Colin VK2JCC on the Beechworth Telegraph Station, in north-east Victoria; then Peter VK2PX aka VK2TTP on achieving the US Worked All States award, and last is "IP addresses, mask numbers, port numbers, and what do all the numbers mean" with Rob.

The club runs three nets each week; Monday nights at 8pm on the VK2RNS 2 metre repeater. Its on 147.25MHz, No tone is required, but a 91.5Hz tone is sent. The Wednesday evening net is on 3608.5 kHz, also from 8pm; And Morning Tea with HADARC – is on or near 7104kHz from 9:00 am on Fridays.

HADARC's website is at: www.hadarc.org.au. The club has a group on Facebook, which can be found by searching for VK2MA.

*Submitted by Julian VK2YJS
HADARC Publicity Officer.*

[Play Evening ID 4]

Summary of coming events;

June

HADARC monthly general meeting on the 27th

July

Oxley Region ARC Meeting on the 1st

Waverley ARS project day also on the 1st

St George ARS meeting on the 5th

Waverley ARS Auction on the 8th

Hunter Radio Group meeting on the 14th

Hunter Radio Group social lunch at Windale Bowling Club, on the 15th

Westlakes Car boot sale also on the 15th

Manly-Warringah lecture night – on Digital Radio Broadcasting - on the 19th

ARNSW Foundation and assessment weekend on the 22nd and 23rd

Also this weekend, Canberra Region ARC has a Foundation course as well.

ARNSW Trash and Treasure, and Homebrew group on the 30th

August

St George ARS meeting on the 2nd

Blue Mountains ARC foundation weekend, on the 12th and 13th

Manly-Warringah Flagpole Contest on the 19th and 20th

St George ARS Foundation weekend, also on the 19th and 20th

Shahzada Horse Enduro, 21st to the 25th