



NET CHECK-INS:

Wia National News - n/a

HF Dawn Patrol – 44 for the week ending 23rd March.

Sarc Digi Net – (see full “*Digital Modes*” report below)

Wicen Net – 9 - JM field day

Wednesday Tech Net – 7 - HF propagation

Thursday 6Mtr Net – 5 - Old radios and reminiscing, strange interference stories and lightning strike adventures. De Paul PMG

Friday Night Net –

Lunch day: 8 - Cars

2018 John Moyle Field Day:(update)

This is the follow up to the John Moyle report for the SARC team activation of Vista Point.

Some pictures of the various operating positions. {see below}

Our total contacts was 250 split between HF and VHF/UHF/SHF, with a score well over 3000 points but awaiting the judges final approval.

Regards,

David Clausen VK2CDG

More things to do:

Coffee morning:

1000 on the 1st Wednesday of the month

Rous Hotel (cnr) Keen/Zadoc St. Lismore

Lunch day:

1200 on the 3rd Wednesday of the month

Ying's Chinese & Thai Restaurant
142 Keen St. Lismore



DIGITAL MODES:

Monday 19 March 2018

For tonight's net we had Paul VK2PMG/SRC as net control with Leith VK2EA, Steve VK2SLM, Ian VK2FBDX, Kris VK2MRN, Chris VK2ACD and Duncan VK2DLR logging in. Kris, Chris and Duncan were ready to join PMG/SRC for transmission. After the concentration on the image transmission mode MMSSTV in recent nets, we decided to go back to the software F1 Digi for some keyboard digi.

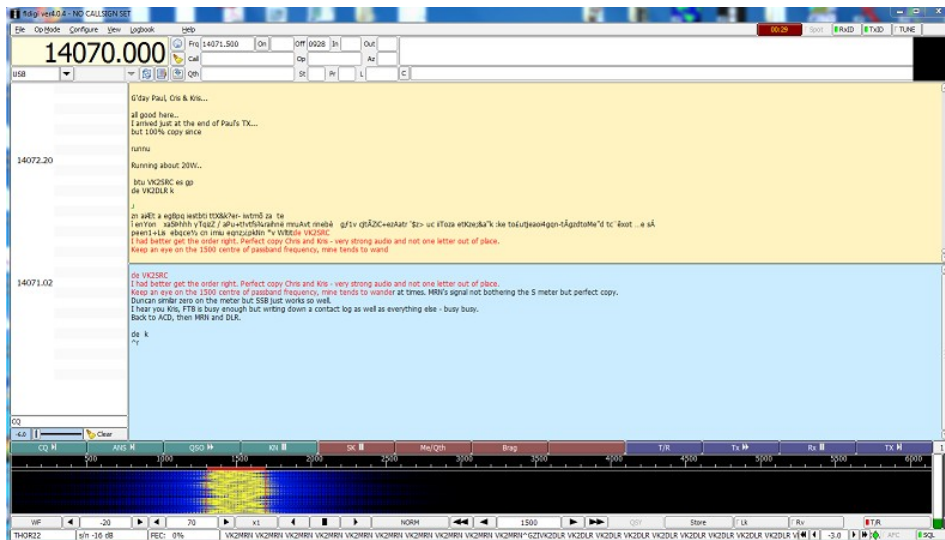
The frequency chosen was the same as last week, 2 metres on 145.1 USB. The switch to F1 Digi was made in order to encourage variety on the net, not just beam pretty pictures to each other. The modem chosen in F1 Digi was Thor 22. For a description of Thor, I can do no better than quote from this website:<http://www.w1hkj.com/FldigiHelp-3.21/Modes/THORdesc.htm>

“THOR is a family of offset incremental multi-frequency shift keyed modes with low symbol rate, closely related to DominoEX. A single carrier of constant amplitude is stepped between 18 tone frequencies in a constant phase manner. As a result, no unwanted sidebands are generated, and no special amplifier linearity requirements are necessary. The tones change according to an offset algorithm which ensures that no sequential tones are the same or adjacent in frequency, considerably enhancing the inter-symbol interference resistance to multi-path and Doppler effects.

The mode has full-time Forward Error Correction, so is extremely robust. The default speed (11 baud) was designed for NVIS conditions (80m at night), and other speeds suit weak signal LF, and high speed HF use. The use of incremental keying gives the mode complete immunity to transmitter-receiver frequency offset, drift and excellent rejection of propagation induced Doppler.”

The above description explains the technical reasons for the success of Thor 22 on the net much better than I ever could. The results were perfect with no spurious characters. All stations on the net managed perfect TX and decoding of messages. Transmit power later in the net went down to levels as low as the transceivers could manage and the results were the same – perfect decoding of all messages by all stations. A very successful experiment and I can only say that Thor 22 is as good a modem for keyboard digital as you will find. Thanks again to all who participated.

Thanks from Paul VK2PMG



WEB SDR RUNNING IN CLUB SHACK:

Rob VK2ARL has set up SDR receivers in the club shack, for 80 and 40 metres. These can be accessed on-line at www.websdr.org. On the site main page, select the location 'other' and band '40'. Then scroll down until you see the SARC logo, and click on the URL. Its quite easy to use, note that you don't get the whole band, only a segment as seen on the waterfall. You can transmit and see your own signal if it is received, from any selected SDR around the globe. You can also record any received audio. Note the requirement to have java and javascript enabled to make it work properly.

Parrot Repeater Down but Cross-band Repeater Up

An experimental cross-band repeater is running at the clubrooms. VK2DLR, ELH & PMG have set up a cross-band repeater at the clubrooms to evaluate its performance for use at horse enduro and other temporary events. It will be probably run for a week or so and any comments would be appreciated. The parrot repeater VK2SRC on 146.575 simplex will be off air during this experiment as the cross-band is using the parrot's antenna.

Basic details: Callsign: VK2SRC-X1

Uplink 433.825 MHz **Downlink** 147.425 MHz

No tone. **Output power** 20W

de Duncan

VK2DLR

SARC 2018 Calendar:

What's On For the full year's calendar visit http://sarc.org.au/	
This Month	Next Month
March 2018 Sat/Sun 03/04 Mon/Fri 05/09 Advanced Course Sat/Sun 10/11 Sat/Sun 10/11 Foundation Course Sun 11 Committee Meeting 1300 Sat/Sun 17/18 Sat/Sun 17/18 John Moyle Field Day Sat/Sun 24/25 Fri 30 Good Friday Sat/Sun 31/-	April 2018 Sun 01 Easter Sunday Sat/Sun --/01 Mon 02 Easter Monday Sat/Sun 07/08 Sun 08 Wicen AGM 1000 Sun 08 Committee Meeting 1300 Sat/Sun 14/15 Sat/Sun 21/22 Wed 25 Anzac Day (AX Prefix) Sat/Sun 28/29

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