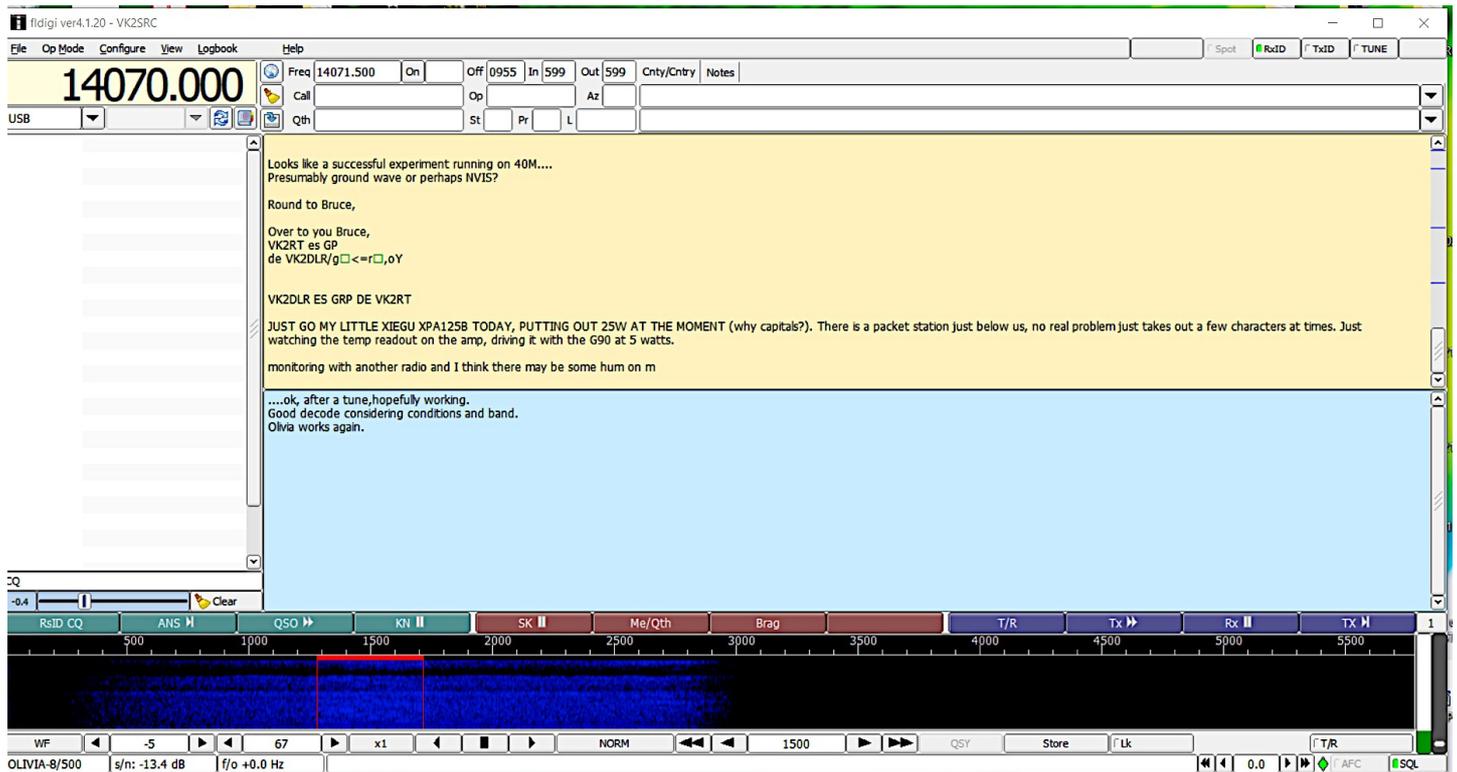


gap between overs, enough to allow an operator to put in a CQ call. That's difficult if transmissions follow each other like a string of sausages. I am just as guilty of doing that as anyone! I would welcome operators outside our group to drop in, but we must allow enough time for that to happen. An excellent experiment in spite of gremlins affecting Andrew and I. Thanks to all who participated.



OTHER INTERESTING BITS Click on (2) images below to open.



Managing Interstation Interference

Coaxial Stubs and Filters PDF

W2VJN George Cutsogeorge

Locating RF Interference at HF

A proven and practical approach to dealing with RFI from grow lights and more.

Tom Thompson, W8IVJ

Radio frequency interference (RFI) increased dramatically in my neighborhood recently. Locating the sources was not easy, due in part to the distances involved. The typical range for a consumer device that meets the applicable FCC Part 15 or 18 emissions limits is usually no more than a few hundred feet. Some of the sources in my area, however, were more than a half-mile away. The usual "sniff" methods weren't practical, and without an initial heading, the sources were difficult to find. Furthermore, they were primarily HF sources. I needed a radio direction finder, but an HF handheld Yagi was not an option!

longer ranges, however, the noise might be heard only at HF. So, HF RDF to get you in the VHF range can be a real time saver. See www.arrl.org/power-line-noise-faq for more information.

I also found that RFI from consumer devices can be problematic. While FCC Part 15 and Part 18 rules define emissions limits for most consumer electronics, the limits are high enough to allow interference to nearby radio receivers. FCC rules protect all licensed radio services from harmful interference, and the operator of an offending device must correct the problem. Therein lies the rub — someone must first find the device in order to identify the operator. Since the FCC generally does not provide RFI locating services, the burden became mine by default.

ing set to LINE, the RFI might be power line related.

RFI from consumer devices that appears at regular intervals across the band likely comes from a switching-mode power supply. If the noise is pulsing it could be a battery charger. Sharp periodic ticks could be from an electric fence. Variable speed motors in appliances, like washing machines, increasingly rely on electronic speed controls and switching power supplies. See also *Light Bulbs and RFI — A Closer Look* for an additional discussion on FCC rules and interference from modern energy-saving light bulbs!

Locating the Noise Source

Power-line noise, especially if it affects only the lower frequency HF bands, can

Looking for Noise Sources

Hi from Chris VK2ACD.

An email has been sent to all SARC members who we have listed as financial, except for a few with no email address listed.

If you think you are a member but haven't received the email, it could be that the email address in the club database is incorrect or you are not recorded as being paid for 2021.

Any problems, please use the SARC email vk2src@gmail.com to contact me and I will look into it.

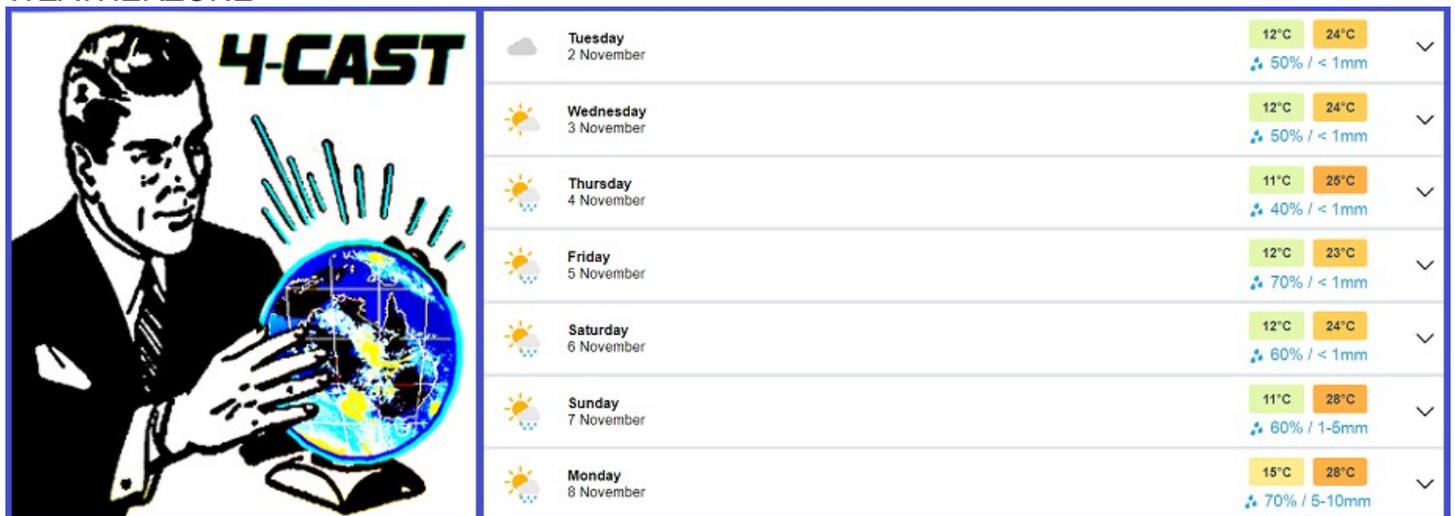
6-DAY LISMORE WEATHER (FORECAST)

[click on images to open WEATHER stations](#)

Weatherzone has changed their website layout, and its forecast overview is sparse in comparison to what we are used to. The Australian Government Bureau Of Meteorology (BOM) is another alternative weather forecast site. Below I have shown both possible layouts to explore and navigate via the hyperlinks provided.

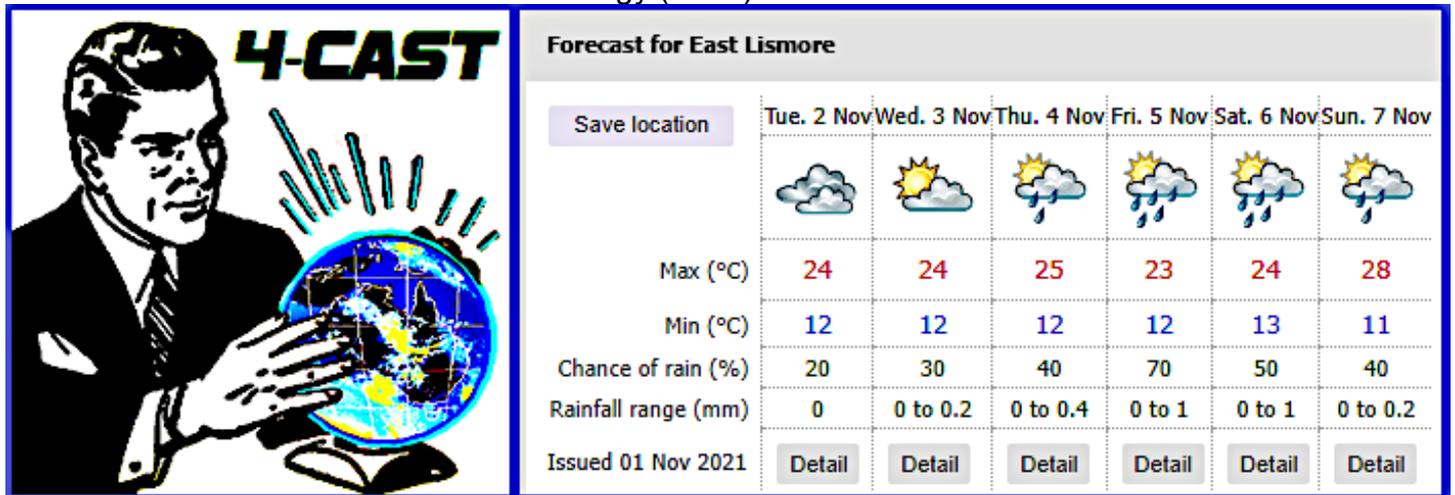
SARC Committee members will be the ones to decide which layout serves them best; or perhaps a completely new weather station may be used. So, stay tuned to see what unfolds.

WEATHERZONE



	 Tuesday 2 November	12°C 24°C 50% / < 1mm
	 Wednesday 3 November	12°C 24°C 50% / < 1mm
	 Thursday 4 November	11°C 26°C 40% / < 1mm
	 Friday 5 November	12°C 23°C 70% / < 1mm
	 Saturday 6 November	12°C 24°C 60% / < 1mm
	 Sunday 7 November	11°C 28°C 60% / 1-5mm
	 Monday 8 November	15°C 28°C 70% / 5-10mm

Below is a view of the Bureau of Meteorology (BOM)



Forecast for East Lismore		Tue. 2 Nov	Wed. 3 Nov	Thu. 4 Nov	Fri. 5 Nov	Sat. 6 Nov	Sun. 7 Nov
Save location							
Max (°C)		24	24	25	23	24	28
Min (°C)		12	12	12	12	13	11
Chance of rain (%)		20	30	40	70	50	40
Rainfall range (mm)		0	0 to 0.2	0 to 0.4	0 to 1	0 to 1	0 to 0.2
Issued 01 Nov 2021		Detail	Detail	Detail	Detail	Detail	Detail

Weatherzone link is easier to navigate than BOM, but BOM shows more details. With BOM, you have to fill in the location. Lismore 2480 is not a location according to BOM, but 2480 East Lismore is.

Find the 'search words' and 'clue words' in the grid. Words can go horizontally, vertically and diagonally in all eight directions. Words within words are not counted. Hyphens, gaps and strikethrough words are not used in the grid. When you are done, the unused letters will spell out a hidden message.



09. INTERFERENCE (Fnd)



F S D I L T N S E N O H P E L E T E A
 R P L O O P S O F E E D L I N E S S M
 D U E S H O Y T I L I B I T A P M O C
 E R I C O N N E C T I O N P O W E R A
 T I H B A L U M U L C G N I T A O L F
 A O S Y A W H T A P E U S T I M I L T
 I U S I T I N G E O D Q D M A I N S R
 D S T O R O I D B L V E U N F O I T A
 A F T E D A I N U S C E C I I L O S N
 R I R E T X E F T O O I R S P E T S S
 P L E E O H M A N E N Y S L T M C E M
 U T K N C R C D R C R I T I O I E E I
 K E O A A E U F R T M F R I N A T N T
 C R H H R C P E F S H R E O N A D R T
 I S C A T E A T N C E I M R C U O O E
 P T M I E S D A I F D R N O E T M D R
 E I O V E I R C E O A A L G S N O M S
 C N S D P T O M U H N E S I S M C I I
 G R O U N D I N G B R L D N O I S E E

SEARCH WORDS

- ACMA
- BALUM
- CERAMIC MATERIAL
- CHOKE
- CONDUCTION
- DISTORT
- EARTH CONNECTION
- EARTHING
- EMC
- FEEDLINES
- FERRITE
- FLOATING EARTH-
- GROUNDING
- HARMFUL
- HARMONICS
- HUM
- INDUCTION
- IRON OXIDE
- EMISSION LIMITS
- GROUND LOOPS
- MAINS EARTH
- MODE
- NOISE
- OVERLOAD
- RF+ PATHWAYS
- PICKUP
- REDUCED POWER
- RADIATED RF+
- TV- RECEPTION
- RELOCATE ANTENNA-
- RFI
- FERRITE- ROD
- SHIELD
- SITING
- SPURIOUS SIGNALS-
- TELEPHONES
- TOROID
- TRANSMISSION

CLUE WORDS

1. Radiocommunication _____ S (12) can cause interference to other radiocommunications services.
2. RF transmitters can be the source of interference to nearby electronic and radio _Q_____ (9).
3. The 'C' in EMC. _____ (13).
4. The ability of radio equipment to operate properly, without interference, in the presence of electromagnetic radiation, is also known as the equipment's radio frequency _____ (8).
5. Immunity of most types of equipment can be _____ CR _____ (9) by fitting suitable _____ S (7) in external cabling.
6. _____ (12) is the reception of unwanted signals.

HIDDEN MESSAGE

ANS: https://drive.google.com/file/d/1F9fQsKq8_jLi3rEqppHUrqk2Z5leq2YN/view?usp=sharing

SARC Newsletter Archives: <https://sarc.org.au/weekly-newsletters/>

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