



# Scout Radio & Electronics Service Unit

## **Agenda - November Monthly Meeting**

**Tuesday 8th November 2022, 7.30pm**

**BATCave, Legana Street, Mount Waverley**

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**Chair:**

**Minutes:**

**Meeting Opened:**

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**Attendees**

**Absentees**

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# Action Items Summary

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<b>Expected Delivery</b>	<b>Reference</b>	<b>Description</b>	<b>Lead</b>	<b>Assist</b>
Sep-22	Sep-22 JOTA	Order JOTA Badges from Scout Shop	Andy	Kent
Oct-22	Aug-22 Program Planning	Carlton Rover Unit Plan night	Murray	Kent, Neil
Nov-22	Oct-22 Program Planning	Heany Park Joey Unit Plan night	Andy	

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# Meeting Items

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## Administration

### Chair's Comments

- Well done to all who made something of a challenging JOTA Season.
  - Thank you to all for your contribution to the massive success we've seen in 2022. Take a break, spend time with friends and family, and get ready for a massive 2023.
  - Congratulations to our very own Andy King on his new appointment effective 21/11/2022.
  - It's taking 3 people to replace Andy's contributions to the team to allow him to focus on his new role.
  - Executive meetings will be introduced in 2023 to take some of the business pressure off these meetings.
  - Planning for 2023 will begin, please contact me if you'd like to add something to the agenda/calendar for 2023.
  - December meeting - end of year wrap up dinner - suggestions welcome.
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### Previous Minutes

Adoption of minutes of meeting held Tuesday 11th October.

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### Finance

Account	Balance on Monday 7th November 2022
STEM - State Radio (Bendigo Bank)	\$5,374.63
Cheque Account (ANZ)	\$0.00
Savings Account (ANZ)	\$0.00
<i>Total</i>	<i>\$5,374.63</i>

- Further details are included in the finance report attached as *Appendix 1*.
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### Work Health & Safety (WHS)

- Please ensure you remain on top of eLearning modules including WHS as they become due.
  - First Aid Course arrangements for the team to be made over coming months.
  - Access to powerpoints, doorways, etc. at the BATC.
    - Luke will following this up in 2023.
  - Child Safety - we are all responsible for reporting suspect activity; this can be done anonymously through Scouts Victoria or directly through the Scouting hierarchy.
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## Program Review

**Formation** Heany Park Joeys

**Section** **Joeys**

**Date** Thursday 3rd November, 5.45pm to 6.45pm

**Location** Heany Park, Rowville

**Lead** Andy

**Assist** Murray

**Overview** Fox hunting with puzzle pieces

**Formation** Heany Park Cubs

**Section** **Cubs**

**Date** Thursday 3rd November, 7pm to 8.30pm

**Location** Heany Park, Rowville

**Lead** Andy

**Assist** Murray

**Overview** Fox hunting with puzzle pieces; phonetic activities and radio overview

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# Program Planning

## Program Activities - Dates Confirmed

### Energy Breakthrough Expo - Sarah Thom

STEM is working in collaboration with Scouts Vic Marketing to run an expo at the Energy Breakthrough Human Powered Vehicle competition for schools in Maryborough (VIC) on Friday 18th and Saturday 19th November. There will be over 7000 school aged participants camping onsite for the event and many more (up to 20,000) visiting over the course of the event. Marketing are running abseiling tower, rope bridge etc. and STEM will be doing a variety of drop in and try activities similar to VicJam TechWorld. I am in need of people who are available to help on those dates and have the skills to run activities such as soldering. There is also scope to include radio-based activities if there are enough people available to staff them. Expressions of interest to Sarah this week please.

- Let Andy or Sarah know if you're interested in helping out with this.
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## Program Activities - Dates/Details TBC

<b>Formation</b>	Berwick
<b>Section</b>	Cubs
<b>Date</b>	
<b>Location</b>	Berwick
<b>Lead</b>	
<b>Assist</b>	
<b>Contact</b>	Vanessa Percy
<b>Overview</b>	We are a Cub Scout group and have not done any of this before. We have 26 Cubs in our group. I am a mother of one of the Cubs and was looking to send him to a day to learn about Communications please all so we can discuss what can be done

- Luke, Glenn, and Alli may be available to assist with a weeknight activity. The Unit meets on Thursday nights.
- Potential to integrate bushwalking OAS items.
- Glenn has drafted a program and will send it through to Luke.

### No action required currently

<b>Formation</b>	Bayside District Cubs
<b>Section</b>	Cubs
<b>Date</b>	<i>TBC, morning/afternoon weekend activity</i>
<b>Location</b>	
<b>Lead</b>	
<b>Assist</b>	Kent (PA equipment)
<b>Contact</b>	Karl Donald
<b>Overview</b>	See Appendix 2

- No further planning required by our team at this stage.
- Looking like occurring during Term 1, 2023

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## Amateur Events

None this month.

## Training Courses

- Upcoming:
  - Foundation courses to be planned for 2023 to accommodate:
    - Interest from the 4x4 Team to host a course.
    - Interest from Mallee Mud Kamp attendees (x2)
    - Interest for Western Vic JOTA to have another course at Cooina Burrong
    - Interest from MRP team members
    - Interest from Hurstbridge Scouts and Venturers
    - Follow up with registrants from previous course in Geelong who were unable to attend.
- General:
  - The Camp Warringal course reinforced that the residential model is good. We do not recommend day courses going forward for amateur assessments unless we know for sure that the pre-study level is there.
  - We may look at standard/advanced exams in 2023 by demand. These would work best by participants following one of the available courses (such as Ron Bertrand's CD) prior to the weekend, then having a 'cram and exam' weekend rather than attempting to cover all content in a course.

## Program Support

<b>Event</b>	Cuboree 2023
<b>Section</b>	<b>Cubs</b>
<b>Date</b>	25 - 29 September 2023
<b>Location</b>	Gilwell Park, Gembrook
<b>Lead</b>	
<b>Assist</b>	

- Looking for some form of radio activity for 30 min sessions with 3 sessions each evening for 4 evenings. Cubs in Patrols of up to 10 with leader would book to complete the activity.
- *Update from Murray*
  - Half hour activity to run four times in an evening - Tuesday, Wednesday, Thursday.
  - Numbers anywhere from a Unit (36) down to a Patrol
  - Murray needs a team to run the activity, as he'll be busy in another capacity.
  - Maree Pascoe is one to reach out to. Bibby is happy to help. Alan K would be happy to be a remote station or similar from home.

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### JOTA-JOTI (Friday 14th to Sunday 16th October 2022)

- We sold 432 badges.
- 12 Activity Sites registered on VKJOTA

Review of activities.

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## **Support Development**

### **ScoutHike Collaboration**

Preliminary meeting held with ScoutHike. Operators will be required for 2023, likely to use a Commercial DMR network to facilitate data transfer. Conversations started with a representative from Motorola who approached us who has previously worked with Scouts NSW to deliver comms solutions for their ScoutHike event. Confirmed they have VHF DMR equipment available, price to be determined.

Advised Scouthike that a proper EOC is required to effectively manage the event across the remote sites to comply with a Scouts Vic Major Event requirements.

### **New Licencee 'Welcome pack'**

- Lead: Neil
- Thanks to Daniel for preparing some resources. Please provide any feedback you have directly to Daniel.

## **Scout Radio Victoria Assets**

### **Proposal: Purchase & Subscription to StarLink for Scouts Victoria**

Many of our events are providing opportunities to use more technology to integrate the great outdoors and adventurous activities with technical support and technical program opportunities simultaneously. To support this, obtaining a StarLink Service for hire to events throughout the year will allow "drop in" internet wherever skies are available to provide quality internet facilities.

There is currently a 50% sale until NYE on required infrastructure, making this an appropriate time to purchase assets, in addition to network extension accessories. Total initial investment ~\$700 for a \$1200 asset.

In a brief overview of events being held in 2023, we'd be able to recover the monthly cost of \$140 by charging \$150 for an event, and a cheaper hire fee for smaller activities to supplement costs. With approximately 9 events that could/would make use of these services, we'd have a sustainable source of income and provide a quality piece of equipment.

Potential Events include:

- Surfmoor
- ScoutHack
- Anything Goes\*
- Hoadley Hide
- ScoutHike
- Mudbash
- StarTrek Survival
- Mt Dandenong Fantastic Race
- Cuboree/Kangaree
- Vic Gathering
- Amateur/Marine Courses
- Other Training Courses/hire requests

This product would very likely run at a profit based on the use outlined here.

### **Filters**

Next steps for purchasing?

### **New Equipment received**

Motorola have kindly donated 2x VX-1700's to Scout Radio Victoria. These units are commercial HF and are capable, yet not locked to Amateur frequencies between 1.6 MHz and 30MHz. These are available to borrow, but the unit should consider purchasing a FC-30 and FC-40 for reliable autotuning (~\$800). These units would make great kits. To be explored in 2023.

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# Program Enrichment

## Youth Net

Bibby and Juliet have suggested running a monthly "Youth Net" to give our youth members an opportunity to have their own conversations.

With targeted advertising, this could be a great opportunity to encourage regular Scouting membership engagement. Best starting point would be to make a Youth mailing list to allow coordination and reminders of the net timing.

Bibby is interested in being net controller, assisted by Juliet where required – fortunately, Bibby is a really good operator and will probably be able to manage effectively solo with little guidance and support required.

It is suggested to have it on a specific week night (i.e. 1st Tuesday of the month or something similar) and running over ScoutNet & the VKSCOUT echolink conference server.

For this activity to get the most entry point opportunities to access it, consider:

- if IRLP linking to ScoutNet can be done simultaneously with Echolink
- Possibly, even linking to TG1921 on DMR too down the track?

## Planning for 2023

- a date Date.

## Hamfests

- Revisit in February 2023
    - Sell old surplus equipment
    - Moorabbin - 6th May 2023
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## **Additional Business**

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**Meeting Closed:**

**Next Meeting: End of Year Dinner, Tuesday 13th December**

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# Appendix 1

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## Scout Radio Victoria - Finance Report

### November 2022 Meeting

Prepared Tuesday 13 September 2022

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#### Account Balances

Account	Balance on Monday 7th November 2022
STEM - State Radio (Bendigo Bank)	\$5,374.63
Cheque Account (ANZ)	\$0.00
Savings Account (ANZ)	\$0.00
<i>Total</i>	<i>\$5,374.63</i>

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#### Savings Account (013599 268169069) - ANZ

Date	Description	Debit	Credit	Balance
11 Oct '22	Opening Balance			\$0.00
7 Nov '22	Closing Balance			\$0.00

#### Cheque Account (013599 268166933) - ANZ

Date	Description	Debit	Credit	Balance
11 Oct '22	Opening Balance			\$0.00
20 Oct '22	Peter Chaplin VK3SAJ Callsign 12 months		\$55.00	\$55.00
26 Oct '22	Transfer to Bendigo Bank Account	\$55.00		\$0.00
7 Nov '22	Closing Balance			\$0.00

**Scouts Victoria STEM - State Radio (633000 190363002) - Bendigo Bank**

<b>Date</b>	<b>Description</b>	<b>Debit</b>	<b>Credit</b>	<b>Balance</b>
11 Oct '22	Opening Balance			\$5,995.08
11 Oct '22	Transfer to STEM Purchases Postage on Foundation Manual	\$17.00		\$5,978.08
11 Oct '22	Scout Shop JOTA Badges (300)	\$360.00		\$5,618.08
11 Oct '22	Transfer to STEM Purchases Postage on AR Badges to National	\$8.10		\$5,609.98
11 Oct '22	John Zach JOTA Badges and Callsign VK3SCP 12 months		\$125.00	\$5,734.98
12 Oct '22	Mark Perkins Purchase Radio		\$10.00	\$5,744.98
13 Oct '22	Transfer to STEM Purchases Parts for Fox Hunting Key	\$2.90		\$5,742.08
13 Oct '22	Transfer to STEM Purchases Fluro Starters for BATC	\$4.50		\$5,737.58
14 Oct '22	Transfer to STEM Purchases Prepaid Internet	\$30.00		\$5,707.58
15 Oct '22	Philip Adams Reimburse Amateur Exams	\$630.00		\$5,077.58
15 Oct '22	1st Mont Albert/9th Box Hill JOTA Badges and VK3SBH Callsign 12 months		\$123.00	\$5,200.58
18 Oct '22	Camp Warringal Venue Hire for Amateur Course	\$70.00		\$5,130.58
20 Oct '22	Keysborough Scout Group		\$30.00	\$5,160.58
20 Oct '22	Philip Adams Reimburse Callsign Recommendations	\$200.00		\$4,960.58
21 Oct '22	Western Vic JOTA VK3SAW Callsign 12 months		\$55.00	\$5,015.58
21 Oct '22	Rachel Edwards JOTA Badges		\$68.00	\$5,083.58
26 Oct '22	Okindu W. SPOT Hire		\$50.00	\$5,133.58
26 Oct '22	ANZ Bank Account Transfer from ANZ - VK3SAJ Callsign 12 months		\$55.00	\$5,188.58

<b>Date</b>	<b>Description</b>	<b>Debit</b>	<b>Credit</b>	<b>Balance</b>
1 Nov '22	Interest		\$0.05	\$5,188.63
4 Nov '22	Western Vic JOTA JOTA Badges		\$118.00	\$5,306.63
7 Nov '22	1st Mt Evelyn JOTA Badges		\$50.00	\$5,374.63
7 Nov '22	Closing Balance			\$5,424.63

## Appendix 2

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### Outstanding Program Requests

<b>Formation</b>	Moreland Darebin District Joeys Day/1st Reservoir
<b>Section</b>	<b>Joeys</b> <b>Cubs</b>
<b>Date</b>	
<b>Location</b>	
<b>Lead</b>	
<b>Assist</b>	Andy, Alli, Luke, Kevin, Neil
<b>Contact</b>	Alison (District Leader)
<b>Overview</b>	Activity day for 12 Joey Units in Moreland Darebin District.

- Andy will touch base to gauge interest in revisiting this activity request, and to see if they are on board to assist with organising the day.

<b>Formation</b>	Pascoe Vale
<b>Section</b>	<b>Cubs</b>
<b>Date</b>	<i>Monday nights</i>
<b>Location</b>	Cumberland Road, Pascoe Vale
<b>Lead</b>	
<b>Assist</b>	Kent
<b>Contact</b>	Wu Phie
<b>Overview</b>	"I would like to introduce our Cubs to the world of amateur radio, its potential and how it fits in with Scouts and the wider world. Do you have activities/ services which fit this? How do book some of SRESU time and resources? When is the earliest time I can book in? What is required on our end? I look forward to discussing with you."



**Formation** 1st Glen Iris

**Section** Scouts

**Date** *Wednesday evenings*

**Location**

**Lead** Luke

**Assist** Murray?

**Contact** Mike Lukins

**Overview** 50 scouts. "What do you offer that would be interesting / fun for a scout troop such as ours?"

**Formation** 4th Brunswick Scouts

**Section** Scouts

**Date** *Monday evenings, 7pm - 9pm*

**Location**

**Lead**

**Assist**

**Contact** Kim Anderson

**Overview** 30 - 40 scouts. "We'd love to run a fox hunting night or electronics kit building night."

**Formation** 1st Wheelers Hill Scouts

**Section** Scouts

**Date**

**Location**

**Lead**

**Assist**

**Contact** Brooke Whiteside

**Overview** Looking for "a few radio activities" on a Saturday. "How long do these activities take?"

<b>Formation</b>	1st Alfredton
<b>Section</b>	Scouts
<b>Date</b>	Term 4?
<b>Location</b>	Ballarat District
<b>Lead</b>	TBA
<b>Assist</b>	
<b>Contact</b>	Sarah Brackenridge, AGL/SL
<b>Overview</b>	Request for Radio Team visit to a Scout night, details to follow

- Ideally we would aim for an activity pre-JOTA with involvement from the Ballarat Amateur Radio Group to build on this relationship.

# Appendix 3

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## Resource Pack

Prepared by Daniel Gutsell.

# JOTA Youth Operators Guide

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To make a radio call, work through these steps in order. If you get stuck, then the operator will help you out.

## Call CQ

Call the following on the radion " CQ CQ CQ , THIS IS { your callsign } CQ CQ CQ THIS IS { Your call sign phonetics}

## No reply?

Call again

## Reply?

Then quickly write down the calling callsign in the logging form attached and call them back!

## If they ask

MY QTH IS \_\_\_\_\_

My radio is a \_\_\_\_\_

## Logging

Now that you have made a contact, LOG IT! Your operator will be able to help, they will have a log running either in a notebook or digitally.

Remember that nothing is guaranteed with radio, and you may not get a reply, or may get many. Sometimes you'll be able to hear a station, but they won't be able to hear you. You just have to keep trying, and you'll get contact with someone eventually.

# Q Codes

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These are used by operators to give a standardised and fast way to ask or answer a question. Even operators who don't speak english will usually understand these. We have listed the most common ones below.

<b>Q CODE</b>	<b>MEANING</b>
QRZ	WHO IS CALLING ME
QSL	ACKNOWLEDGED
QRM	INTERFERENCE
QRP	DECREASE TRANSMIT POWER
QRO	INCREASE TRANSMIT POWER
QSY	CHANGE FREQUENCY TO .....
QTH	LOCATION
QRX	STANDBY
QRV	ARE YOU READY?

# What's a callsign?

Amateur radio operators use callsigns to uniquely distinguish themselves from each other. Each country has a pool of callsigns from which they can allocate.

A callsign is used rather than names because they are unique due to being issued by the government. They are also able to be used regardless of what language you speak.

In Australia, all callsigns you will hear during JOTA weekend will be of the following format

VK#XXX

Where VK is the prefix, this is the prefix all Australian callsigns will use.

The “#” indicates a number, this will indicate the state that the callsign was issued in.

The “XXX” will either be two or three letter, being the operators unique callsign. These are sometimes randomly assigned, but are often picked out by the operator for a reason, IE their initials, or to indicate the name of a group or site.

VK0 -- Australian Antarctica, Heard Island, Macquarie Island

VK1 -- Australian National Capital - Canberra

VK2 --New South Wales

VK3 --Victoria

VK4 --Queensland

VK5 --South Australia

VK6 --Western Australia

VK7 --Tasmania

VK8 --Northern Territory

Some callsigns you may hear over the weekend

VK3MRP/SCM Mafeking rover park

VK3SCP Clifford Park

VK3SAW Western Vic JOTA Group

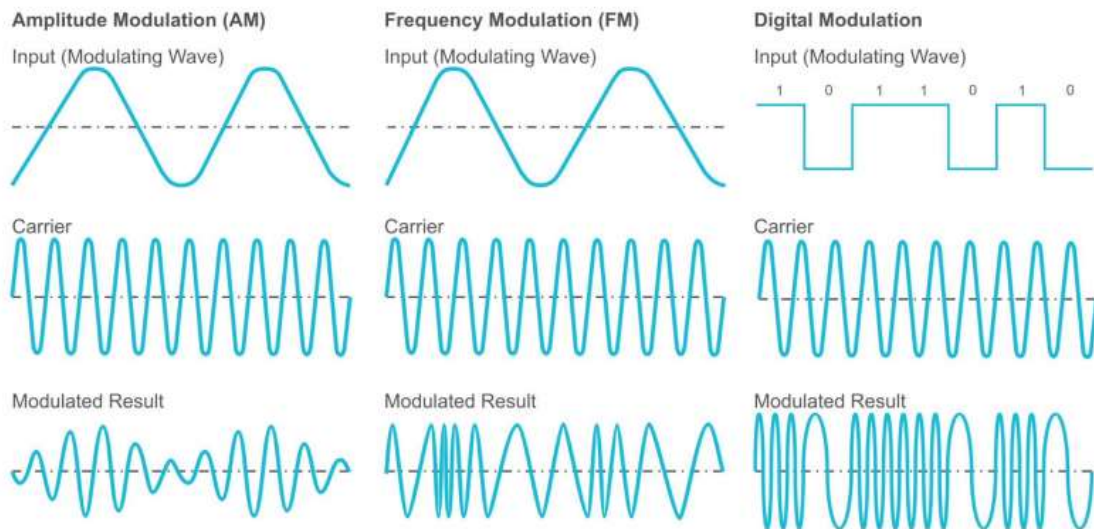
VK2WMT Western Sydney JOTA Group

VK3SCH Sydney Scout Regatta

VK6HC WA JOTA Site

You will hear a few weird terms thrown around this weekend, but one of the most basic ones you might hear is “Modulation” This describes how the sound from your voice gets mixed with the radio waves and transmitted. The operator should be able to describe to you how this works, but if you can’t follow along, that doesn’t matter anyways, just have fun.

The diagram below explains the various ways that radio waves are modulated to send a signal. Not shown are two very common methods, Morse Code, also known as CW, and Single Side Band, usually abbreviated to SSB. Morse is basically AM, but rapidly switched on and off. SSB is effectively AM, but divided in half.



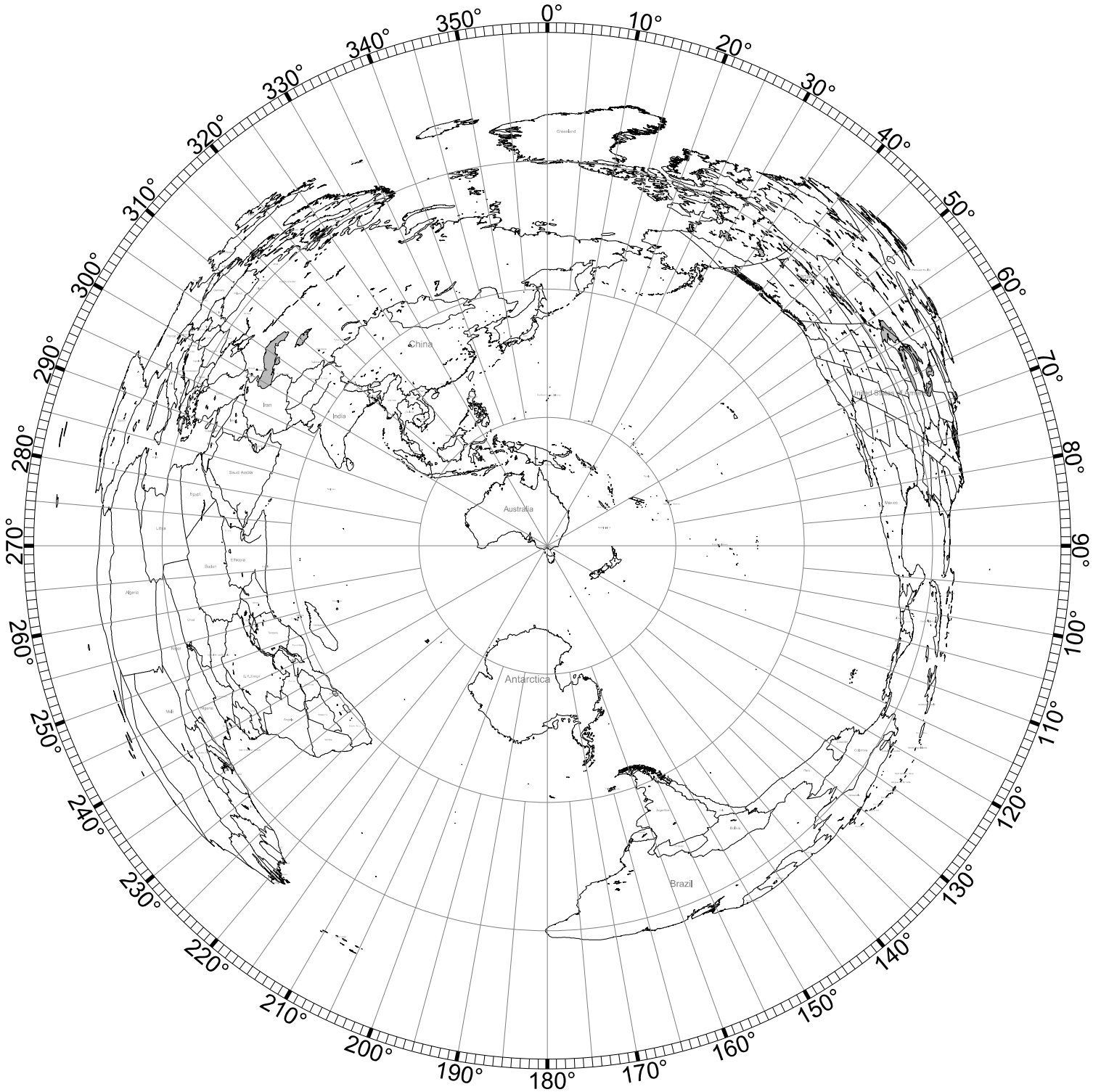
AAA-ALZ: United States  
AMA-AOZ: Spain  
APA-ASZ: Pakistan  
ATA-AWZ: India  
AXA-AXZ: Australia  
AYA-AZZ: Argentina  
A2A-A2Z: Botswana  
A3A-A3Z: Tonga  
A4A-A4Z: Oman  
A5A-A5Z: Bhutan  
A6A-A6Z: United Arab Emirates  
A7A-A7Z: Qatar  
A8A-A8Z: Liberia  
A9A-A9Z: Bahrain  
BAA-BZZ: China  
BVA-BVZ: Used by Taiwan  
CAA-CEZ: Chile  
CFA-CKZ: Canada  
CLA-CMZ: Cuba  
CNA-CNZ: Morocco  
COA-COZ: Cuba  
CPA-CPZ: Bolivia  
CQA-CUZ: Portugal  
CVA-CXA: Uruguay  
CYA-CZZ: Canada  
C2A-C2Z: Nauru  
C3A-C3Z: Andorra  
C4A-C4Z: Cyprus  
C5A-C5Z: The Gambia  
C6A-C6Z: Bahamas  
C7A-C7Z: World Meteorol Org  
C8A-C9Z: Mozambique  
DAA-DRZ: Germany  
DSA-DTZ: South Korea  
DUA-DZZ: Philippines  
D2A-D3Z: Angola  
D4A-D4Z: Cape Verde Islands  
D5A-D5Z: Liberia  
D6A-D6Z: Comoros  
D7A-D9Z: South Korea  
EAA-EHZ: Spain  
EIA-EJZ: Ireland  
EKA-EKZ: Armenia  
ELA-ELZ: Liberia  
EMA-EOZ: Ukraine  
EPA-EQZ: Iran  
ERA-ERZ: Moldova  
ESA-ESZ: Estonia  
ETA-ETZ: Ethiopia  
EUA-EWZ: Belarus  
EXA-EXZ: Kyrgyzstan  
EYA-EYZ: Tajikistan  
EZA-EZZ: Turkmenistan  
E2A-E2Z: Thailand  
E3A-E3Z: Eritrea  
E4A-E4Z: Palestine  
E5A-E9Z: Not allocated  
FAA-FZZ: France  
GAA-GZZ: Great Britain  
HAA-HAZ: Hungary  
HBA-HBZ: Switzerland  
HCA-HDZ: Ecuador  
HEA-HEZ: Switzerland  
HFA-HFZ: Poland  
HGA-HGZ: Hungary  
HHA-HHZ: Haiti  
HIA-HIZ: Dom Republic  
HJA-HKZ: Colombia  
HLA-HLZ: South Korea  
HMA-HMZ: North Korea  
HNA-HNZ: Iraq  
HOA-HPZ: Panama  
HQA-HRZ: Honduras  
HSA-HSZ: Thailand  
HTA-HTZ: Nicaragua  
HUA-HUZ: El Salvador  
HVA-HVZ: Vatican City  
HWA-HWZ: France  
HZA-HZZ: Saudi Arabia  
H2A-H2Z: Cyprus  
H3A-H3Z: Panama  
H4A-H4Z: Solomon Islands  
H6A-H7Z: Nicaragua  
H8A-H9Z: Panama  
IAA-IZZ: Italy  
JAA-JSZ: Japan  
JTA-JVZ: Mongolia  
JWA-JXZ: Norway  
JYA-JYZ: Jordan  
JZA-JZZ: Indonesia  
J2A-J2Z: Djibouti  
J3A-J3Z: Grenada  
J4A-J4Z: Greece  
J5A-J5Z: Guinea-Bissau  
J6A-J6Z: St. Lucia  
J7A-J7Z: Dominica  
J8A-J8Z: St. Vincent  
J9A-J9Z: Not allocated  
KAA-KZZ: United States  
LAA-LNZ: Norway  
LOA-LWZ: Argentina  
LXA-LXZ: Luxembourg  
LYA-LYZ: Lithuania  
LZA-LZZ: Bulgaria  
L2A-L9Z: Argentina  
MAA-MZZ: Great Britain  
NAA-NZZ: United States  
OAA-OCZ: Peru  
ODA-ODZ: Lebanon  
OEA-OEZ: Austria  
OFA-OJZ: Finland  
OKA-OLZ: Czech Republic  
OMA-OMZ: Slovak Republic  
ONA-OTZ: Belgium  
OUA-OZZ: Denmark  
O2A-O9Z: Not allocated  
PAA-PIZ: Netherlands  
PJA-PJZ: Netherlands Antilles  
PKA-POZ: Indonesia  
PPA-PYZ: Brazil  
PZA-PZZ: Surinam  
P2A-P2Z: Papua New Guinea  
P3A-P3Z: Cyprus  
P4A-P4Z: Aruba  
P5A-P9Z: North Korea  
QAA-QZZ: Service Abbreviations  
RAA-RZZ: Russia  
SAA-SMZ: Sweden  
SNA-SRZ: Poland  
SSA-SSM: Egypt  
SSN-STZ: Sudan  
SUA-SUZ: Egypt  
SVA-SZZ: Greece  
S2A-S3Z: Bangladesh  
S5A-S5Z: Slovenia  
S6A-S6Z: Singapore  
S7A-S7Z: Seychelles  
S8A-S8Z: South Africa  
S9A-S9Z: Sao Tome e Principe  
TAA-TCZ: Turkey  
TDA-TDZ: Guatemala  
TEA-TEZ: Costa Rica  
TFA-TFZ: Iceland  
TGA-TGZ: Guatemala  
THA-THZ: France  
TIA-TIZ: Costa Rica  
TJA-TJZ: Cameroon  
TKA-TKZ: France  
TLA-TLZ: Cntrl African Republic  
TMA-TMZ: France  
TNA-TNZ: Congo  
TOA-TQZ: France  
TRA-TRZ: Gabon  
TSA-TSZ: Tunisia  
TTA-TTZ: Chad  
TUA-TUZ: Cote d'Ivoire  
TVA-TXZ: France  
TYA-TYZ: Benin  
TZA-TZZ: Mali  
T2A-T2Z: Tuvalu  
T3A-T3Z: Kiribati  
T4A-T4Z: Cuba  
T5A-T5Z: Somalia  
T6A-T6Z: Afghanistan  
T7A-T7Z: San Marino  
T8A-T8Z: Palau  
T9A-T9Z: Bosnia-Herzegovina  
UAA-UIZ: Russia  
UJA-UMZ: Uzbekistan  
UNA-UQZ: Kazakhstan  
URA-UZZ: Ukraine  
VAA-VGZ: Canada  
VHA-VNZ: Australia  
VOA-VOZ: Canada  
VPA-VQZ: Great Britain  
VRA-VRZ: China  
VSA-VSZ: Great Britain  
VTA-VWZ: India  
VXA-VYZ: Canada  
VY0: Terr of Nunavut, Canada  
VZA-VZZ: Australia  
V2A-V2Z: Antigua-Barbuda  
V3A-V3Z: Belize  
V4A-V4Z: St. Kitts-Nevis  
V5A-V5Z: Namibia  
V6A-V6Z: Micronesia  
V7A-V7Z: Marshall Islands  
V8A-V8Z: Brunei  
V9A-V9Z: Not allocated  
WAA-WZZ: United States  
XAA-XIZ: Mexico  
XJA-XOZ: Canada  
XPA-XPZ: Denmark  
XQA-XRZ: Chile  
XSA-XSZ: China  
XTA-XTZ: Burkina Faso  
XUA-XUZ: Cambodia  
XVA-XVZ: Vietnam  
XWA-XWZ: Laos  
XXA-XXZ: Portugal  
XYA-XZZ: Myanmar  
X2A-X9Z: Not allocated  
YAA-YAZ: Afghanistan  
YBA-YHZ: Indonesia  
YIA-YIZ: Iraq  
YJA-YJZ: Vanuatu  
YKA-YKZ: Syria  
YLA-YLZ: Latvia  
YMA-YMZ: Turkey  
YNA-YNZ: Nicaragua  
YOA-YRZ: Romania  
YSA-YSZ: El Salvador  
YTA-YUZ: Yugoslavia  
YVA-YVZ: Venezuela  
YV0: Aves Island, Venezuela  
YZA-YZZ: Yugoslavia  
Y2A-Y9Z: Germany  
ZAA-ZAZ: Albania  
ZBA-ZJZ: Great Britain  
ZKA-ZMZ: New Zealand  
ZNA-ZOZ: Great Britain  
ZPA-ZPZ: Paraguay  
ZQA-ZQZ: Great Britain  
ZRA-ZUZ: South Africa  
ZVA-ZVZ: Brazil  
Z2A-Z2Z: Zimbabwe  
Z3A-Z3Z: Macedonia  
Z4A-Z9Z: Not allocated  
1AA-1ZZ: Unofficial - disputed  
2AA-2ZZ: Great Britain  
3AA-3AZ: Monaco  
3BA-3BZ: Mauritius  
3CA-3CZ: Equatorial Guinea  
3DA-3DM: Swaziland  
3DN-3DZ: Fiji  
3EA-3FZ: Panama  
3GA-3GZ: Chile  
3HA-3UZ: China  
3VA-3VZ: Tunisia  
3WA-3WZ: Vietnam  
3XA-3XZ: Guinea  
3YA-3YZ: Norway  
3ZA-3ZZ: Poland  
4AA-4CZ: Mexico  
4DA-4IZ: Philippines  
4JA-4KZ: Azerbaijan  
4LA-4LZ: Georgia  
4MA-4MZ: Venezuela  
4NA-4OZ: Yugoslavia  
4PA-4SZ: Sri Lanka  
4TA-4TZ: Peru  
4UA-4UZ: United Nations  
4VA-4VZ: Haiti  
4WA-4WZ: East Timor  
4YA-4YZ: Int'l Cvl Aviat'n Org  
4XA-4XZ: Israel  
4ZA-4ZZ: Israel  
5AA-5AZ: Libya  
5BA-5BZ: Cyprus  
5CA-5GZ: Morocco  
5HA-5IZ: Tanzania  
5JA-5KZ: Colombia  
5LA-5MZ: Liberia  
5NA-5OZ: Nigeria  
5PA-5QZ: Denmark  
5RA-5SZ: Madagascar  
5TA-5TZ: Mauritania  
5UA-5UZ: Niger  
5VA-5VZ: Togo  
5WA-5WZ: Western Samoa  
5XA-5XZ: Uganda  
5YA-5ZZ: Kenya  
6AA-6BZ: Egypt  
6CA-6CZ: Syria  
6DA-6JZ: Mexico  
6KA-6NZ: South Korea  
6OA-6OZ: Somalia  
6PA-6SZ: Pakistan  
6TA-6UZ: Laos  
6VA-6WZ: Senegal  
6XA-6XZ: Madagascar  
6YA-6YZ: Jamaica  
6ZA-6ZZ: Liberia  
7AA-7IZ: Indonesia  
7JA-7NZ: Japan  
7OA-7OZ: Yemen  
7PA-7PZ: Lesotho  
7QA-7QZ: Malawi  
7RA-7RZ: Algeria  
7SA-7SZ: Sweden  
7TA-7YZ: Algeria  
7ZA-7ZZ: Saudi Arabia  
8AA-8IZ: Indonesia  
8JA-8NZ: Japan  
8OA-8OZ: Botswana  
8PA-8PZ: Barbados  
8QA-8QZ: Maldives  
8RA-8RZ: Guyana  
8SA-8SZ: Sweden  
8TA-8YZ: India  
8ZA-8ZZ: Saudi Arabia  
9AA-9AZ: Croatia  
9BA-9DZ: Iran  
9EA-9FZ: Ethiopia  
9GA-9GZ: Ghana  
9HA-9HZ: Malta  
9IA-9JZ: Zambia  
9KA-9KZ: Kuwait  
9LA-9LZ: Sierra Leone  
9MA-9MZ: Malaysia  
9NA-9NZ: Nepal  
9OA-9TZ: Zaire  
9UA-9UZ: Burundi  
9VA-9VZ: Singapore  
9WA-9WZ: Malaysia  
9XA-9XZ: Rwanda  
9YA-9ZZ: Trinidad and Tobago



# Azimuthal Map

Center:  $37^{\circ}30'0''\text{S}$   $145^{\circ}0'0''\text{E}$

Courtesy of Tom (NS6T)



Station Log Sheet completed by: \_\_\_\_\_

**Mafeking Amateur Radio Group**  
Station Log Sheet

Station Activation Event: \_\_\_\_\_

**Log for Station:** VK3SCM FND / STD / ADV (Circle) **Station QTH:** Located at Mafeking Rover Park, Caveat VIC **Grid** QF22SW

Date	Time	Contact Callsign	RST sent	RST rec'd	Mode	TX/RX Frequency	Information	Serial	Operator
20\$\$\$###	13:13	VK#XXX	599	599	LSB	1.234mHz		0	XYZ