



MANAWATU AMATEUR RADIO
SOCIETY (Inc) BRANCH 20 NZART
2KO TIMES SEPTEMBER 2009



Hi Folk 's & welcome to Spring. Things are starting to warm up now, the grass is getting greener and there are plenty of Spring Lambs and Bobby Calves around our neck of the woods.

As some of you are aware, Lee Jennings ZL2AL has resigned as an NZART Councillor effective from last month.

Because of Lee's resignation the next nominee from the 2009 NZART ZL2 Electorate will take Lee's place on the NZART Council. This means that congratulations are in order for Max Wheatley ZL2MAX who is Lee's replacement. I know you all will join with me in wishing Max all the best with his representation on the NZART Council, and for the first time in many years, Branch 20 has a Council Representative which is good to see. Max is also looking for ideas for putting up an HF antenna. Max has 8 Gum trees which were pulled out last year, they are all about 10 metres long. He is figuring on putting them 3 metres in to the ground which will give him 7 metres above ground. Max would be interested in hearing your thoughts on what to put up, feedlines, baluns etc. You will find Max's contact details on page 10 of this issue.

The guest speaker for the October General Meeting on Wednesday the 7th will be Chester Clark ZL2AFJ who will show a video of the wind effects on cellphone towers followed by a talk and photo display of his recent trip to Scotland. At the time of going to print I was unable to find out from John ZL2ADN who the guest speaker will be for the afternoon meeting on Wednesday October 28th. Therefore please listen in to the Branch nets on the 7125 repeater at 8pm on Thursdays and on 3570 KHz at 9am on Sunday mornings for more details.

The 2009 Branch 20 Activity Contest starts this Saturday September 19th and runs through to Friday September 25th inclusive. A copy of the rules can be found on page 6 of this issue and a sample log has also been attached to this issue.

It is only a little over 2 weeks until the Branch 20 Table Sale. We have some good prizes in the raffles up for grabs. If you are able to help out on the day please do so as we need to make this a successful day, and the more helpers we can get the better it will be for everyone. Details about the sale can be found on page 5 of this issue.

After a very long quiet period, Bob Manley ZL2ATE is finally back on the air on both 2 metres and HF thanks to a lot of help from Pete ZL2AUB. If you hear Bob about do go back to him and have a chat. There's nothing worse than being on air and having nobody come back to you when you put a call out.

Finally the next NZART Official Broadcast will be on Sunday September 27th at 8pm and repeated at 9pm on 3900 KHz and the National System 439.975 MHz.

73 de Allan Chandler ZL2SKY, Editor 2KO Times.

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Manawatu Amateur Radio Society

Branch 20 NZART

P O Box 1718

Palmerston North 4440



Editor: Allan Chandler ZL2SKY
Email: zl2sky@zl2ko.org.nz

Branch Website: www.zl2ko.org.nz

Branch Contact Officer: Stan Russell
Email: stanruss@inspire.net.nz
Phone: 06-358-6683

NZART Website: <http://nzart.org.nz>
NZART Email: nzart.hq@clear.net.nz

NZART QSL BUREAU INFORMATION

Recently I had the need to look up some information regarding sending QSL cards through the NZART QSL Bureau. My first port of call to find out what I wanted to know was the 2008—2009 NZART Callbook. Well this was of no use as there was no listing in it for the QSL Bureau. I was not surprised at this as that particular issue was not a FULL Callbook in that sense.

So I decided to check my 2007—2008 NZART Callbook, yet again I got the same result. I know that the NZART Callbook has had some issues over the past few years with information being out of date etc, along with the accuracy of the current licensee information, which has seen no Callbook being printed for the 2009—2010 year.

I would have thought though, at least the information for sending QSL's via the bureau, would have been included in at least one of the previous two issues of the Callbook. Never to mind, I decided to wander off to the NZART website in search of the information that I required. It did not take me long to find the information that I wanted and I went away a happy chappy.

This experience got me thinking, what if I was a newly licensed amateur, or perhaps someone new to DXing and sending QSL's, and I had a copy of the last issue of the Callbook, and the biggie, I did not have internet access? We have had a few newly licensed amateurs within our Branch over the past couple of years, and I know that some of them are starting to get in to working DX, so inevitably the day will come when these operators are going to receive QSL cards, and are going to want to reply, possibly by the NZART Bureau. It is with this in mind that I am including the information below from the NZART websites QSL Bureau page. Please note, this is not all of the information available on the page, but just a guide for those new to QSL Card sending via the Bureau. For the complete help that is available please visit the website at: <http://www.nzart.org.nz/nz/qsl.html>

Outward QSL cards

The service is **free** to both **transmitting and non-transmitting** members of NZART — non-members may make use of this service at a cost of 25c per card. All QSL cards for forwarding to radio amateurs and listeners in New Zealand and overseas countries should be posted to:

The QSL Manager,

NZART QSL Bureau

PO Box 857

Wanganui Mail Centre

WANGANUI 4540

The call-sign of the station to whom the card is addressed should be printed clearly on both sides of each card. Are you sending your card to a DX-station's Manager? If so, please write the Manager's call on the back of the cards. (Cards are sorted using the call printed on the back of the card.) If you see fit not to write the recipients' call-signs on the back of your cards, it is pointless to carry out the last instruction—we are not clairvoyants! When writing call-signs onto your cards, please take care with the forming of the letters and numbers. Make sure that the letter V will read V, not U, an "S" looks like an ess and not the figure "5" and vice versa, etc. This will greatly help the Bureau staff in their sorting! Remember also that English is not the first language of everybody handing and receiving your cards!

Please sort your QSL cards into New Zealand call-district order (i.e. ZL1-ZL2-ZL3-ZL4, etc), USA and Australian call-district order and all others in alphabetical order:

e.g. A3, EA, ES, EU, G, I, OK, S5, SM, UA, UN, UR, VK1-2-3, etc, W1-W2-W3, etc (USA prefixes are kept together—A-K-N-W1 cards all go to their First District Bureau; likewise all A-K-N-W2 cards go to the Second District Bureau and so on), VU, ZL1-ZL2-ZL3-ZL4, 3D, 5W, 9A etc.

Please do not separate countries with rubber bands, strips of paper etc. Members must enclose a current year *Break-In* label with each posting. After complying with the above, sit back and be patient!



Alternate Power Source for QRP radios By KD9KC Mike Olbrisch

This project began because my wife, Monika, N5NHC, shows dogs, and we often travel to distant places for the shows. The full dog show info is at <http://www.vonbonehenge.com>

When the show is over, we get to go out exploring or hiking which is what I enjoy. But sometimes the dog show goes on all day long, and I get bored. So in order to reduce my boredom, she bought me a Yaesu FT817 QRP radio. I have a wonderful wife! In short order I had a complete portable station in a brief case. Radio, mic and key, antenna and tuner, balun and feed line, charts and logbook all ready to go.

Very quickly I noticed that the internal battery in the Yaesu was only good for an hour or two of steady use so I started investigating alternate power sources. A tip from a friend led me to a local Alarm Company where they change batteries on the alarm systems every year. A "please" and a smile got me a box full of nice gel-cell batteries in assorted sizes, since they were happy to dispose of the old batteries.

This was better, and I began carrying a 12 V 5 Ah gel-cell along in the briefcase. It was a good battery for a day trip, but not big enough for a 4 day outing. And now I needed a charger too. Shortly thereafter, I got to thinking about Field Day. I would like a power source good enough to power a QRP station for Field Day. My first step was to decide how much battery I would really need, and I wanted to err on the conservative side.

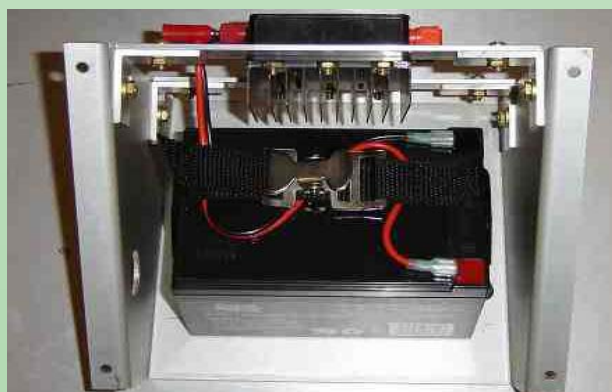
The FT-817 uses about 380 mAh in receive, and about 1.9 amps in full key-down transmit at 5 watts CW. Considering that CW is 50% duty cycle, and assuming 40% transmit and 60% receive operation, this will average about 600 mA an hour. Using headphones will keep the volume down and save the battery even more.

This means a 7 Ah battery would last most of the night. So I checked the box of Gel-Cells from the Alarm Company, and there were a dozen or more 12 v 7 Ah batteries in it. There were also a few 12 V 12 Ah gel-cells in there too. Perfect. A 12 Ah battery would certainly last all night. They all tested good, so I picked the best one and put it on the battery reconditioner.

Now I needed to see just how large a solar panel I would need. Solar panels are rated in watts. So, $13.8 \times 0.380 = 5.25$ watts for RX, and $13.8 \times 1.9 = 26.2$ watts for TX. Again figuring CW at 50% duty cycle, and assuming 40% transmit and 60% receive operation.

I need at least a 14 watt solar panel just to meet the drain on the battery. This would not recharge the battery, but only keep it from draining further. A friend who works for the local gas company has been changing out all the metering stations. Some of the items being replaced were the batteries and the solar panels, and all the old stuff was getting scrapped. The batteries were 12 V 75 Ah batteries, very large and heavy. The solar panels were 25 watt panels. The panels were a perfect size, and I began assembling my Field Day Alternate Power Source.

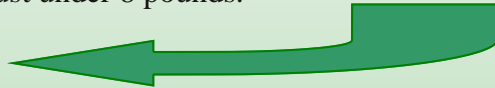
This first photo shows a 12Volt 12Ah battery mounted inside the solar panel frame. The battery is strapped in using footman's loops and a nylon strap. Double-sided tape is placed on the bottom of the battery to keep it from slipping around. The 14 gauge jumper from the battery goes to the charge regulator. The black box with the heat sink above is the solar charge regulator. The open-lead output of the panel is 18 volts. That would cook the battery, so the regulator is necessary. *(Continued on next page)*



Alternate Power Source for QRP radios (Cont)



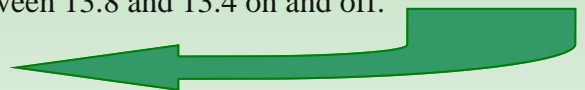
The next photo is a look at the charge regulator. The solar panel connects to the terminals on the left, and the battery connects to the terminals on the upper right. The load (radio) connects to the terminals on the lower right. If you look carefully, you can just make out the green CHARGE LED is lit. The battery is visible tucked in behind and below the charge regulator. The wire from the panel to the regulator is 18 gauge. The 15 foot output wire is 12 gauge, but anything with banana plugs can be used. The battery weighs just under 8 pounds.



Here is a full rear view. The 15 foot 12 gauge wire to the radio is clearly visible.



This is the front view. The system is set up to float the battery at 13.8 Volts. The battery fully charged sets at about 13.4 Volts. After a few minutes in the sunlight the Charge Regulator started pulsing on and off and the green CHARGE and the red OVERCHARGE LED's were alternating on and off as it charged and bypassed. When I snapped the photo the voltage was at 13.54 Volts. It would jump between 13.8 and 13.4 on and off.



Thanks to friends and scrounging, I have only put about \$30 into this project. The complete package weighs 24 pounds. Not backpack portable, but surely not too much for camping, field day, dog shows, etc..... This is really a simple project, but I will be glad to answer any questions. Email me at my QRZ.com email address. Vy73. Mike KD9KC.

El Paso, Texas. USA.

Thanks to HAM-MAG for this article (Ed).





MANAWATU AMATEUR RADIO SOCIETY
BRANCH 20 N.Z.A.R.T (Inc).



Used Radio Equipment Table Sale

**Saturday October 3rd at the Longburn Hall
State Highway 56 next to the Rail Overbridge**
Doors open for Sellers at 8.00am
Sale starts at 9.00am

Cost of tables: Full Table \$20. Half Table \$10. A \$5 surcharge will apply if not booked by Friday October 2nd. If you pre-book your table you can pay for it on the sale day.

To book a table please contact us via one of the following modes:

By Post: Manawatu Table Sale P O Box 1718 Palmerston North 4440

Email: zl2aub@inspire.net.nz

Phone: 06-354-7861

Refreshments, Spot Prizes & Raffle Tickets will be available.

RAFFLE PRIZES: \$2.00 Per Ticket

- | | |
|--|--------------------|
| 1st Prize: Diamond W8010 HF Trapped Dipole Antenna | Value \$270 |
| 2nd Prize: Gas Soldering Iron/Torch Kit | Value \$48 |
| 3rd Prize: Cat II 4000 Count Digital Multimeter | Value \$42 |
| 4th Prize: 10 Metre Roll of Self Amalgamating Tape | Value \$29 |



Jaycar Electronics Palmerston North will be in attendance at the sale and we look forward to seeing you at our stand.

Manawatu Amateur Radio Society

2009 Activity Contest Rules

The Manawatu Amateur Radio Societies Activity Contest has been running each year for the past 20 years. This year will be the 21st running of the contest. Originally the contest was designed for those who had passed the old examination format which saw the amateur exam taking place twice a year, in March & September.

To enable those new to amateur radio to get on the air and get some experience, the contest was held in September each year and had two categories. Those categories were 2 metres only and a combined 2 metres/80 metres section.

The 2 metres section was run on the Manawatu repeater of 147.125 and the 80 metre section was run on the Manawatu Branch 20 Sunday morning net frequency of 3570 KHz.

In the past, the first place winners in each section took on the job of organizing and running the contest for the next year which included determining the rules and format of the contest. This has over the past 3 or so years become standardised, and this years organiser is last years winner, David ZL2MA.

The activity contest includes operators who are members of not only Manawatu Branch 20, but also members of Tararua Branch 06, Marton & Districts Branch 23, Wanganui Branch 48 and Feilding Branch 70.

These days with the "One Licence for All" the organizers have decided that there will only be one category. However operation will still be on the same frequencies as in the past, namely, 3570 KHz on 80 metres and the Manawatu Branch 20 repeater on 147.125 MHz. A trophy will be awarded to the winner as well as certificates for the top three places.

TIMES & DATES:

Hours of operation are to be between 6.00 pm & 9.00 pm each day. The only exception to this is for the duration of the Thursday night Branch 20 net which takes place on the 7125 repeater at 8.00 pm. The dates for the contest are Saturday September 19th to Friday September 25th inclusive. *Please observe these frequencies & times.*

SCORING: For your first contact you will give the number "10", for each subsequent contact you have this number will reduce by "1". There is a log sheet attached to this newsletter for you to copy and use during the contest. As you will see by the log sheet once you have issued the number "1" you then start again at "10" and repeat the process throughout the contest.

When you start a new day just carry on from where you left off with the next number to be issued. **Do not** start a new day on "10" unless your last number issued the previous day was "1".

MULTIPLIERS: As this is the 21st running of the contest all of the numbers "2 & 1" that you receive are your multipliers. Add up all of the points that you have received, and then multiply this total by the number of "2's & 1's" that you received. Thus if your total number of points received equals 300 and you had a total of 8 multipliers, your overall score will be 2,400.

Please send all logs to:

Activity Contest

Manawatu Amateur Radio Society

P O Box 1718

Palmerston North 4440

or hand them in at the Branch 20 Trading Table at the table sale on October 3rd.

PLEASE NOTE: All logs should be received no later than October 18th 2009.

Good luck and happy contesting.

DX NEWS

From the Web (tnx to opdx, 425 dx news, arrl zldxc...)



8Q, MALDIVES Andrew, G7COD, will once again be active as 8Q7AK from Embudu Village, Embudu Island (AS013, WLOTA L3911), between October 12-25th. Activity will be on 80-12 meters including 30/17/12m using CW and SSB. Operating schedule (everyday) is as follows: 0730-0830z, 0900-1030z, 1300-1500z and 1730-1800z. Suggested frequencies are:

CW 3503, 7003, 10103, 14003, 18073, 21003 and 24893 kHz.

SSB 3795, 7063, 14147, 18133, 21253 and 24953 kHz.

QSL via his home callsign, direct or by the bureau. Look for complete details at QRZ.com under 8Q7AK.



DP3, GERMANY (Special Event) Members of the Waldkirchen Radio Club will activate special event station DP3SSKW on CW and SSB through to December 31st. Activity is to celebrate the 3rd Shitoryu Shukokai Karate 2009 World Cup being held in Waldkirchen. QSL via the Bureau; direct QSL's only via DK7FK. Skeds for 40 and 80 meters are possible via email to DK7FK b.barth@pensionmonika.de



5Z - KENYA Steve, W8SMH, is working in Nairobi for the next three years and has now a licence for 5Z4/W8SMH. Steve is using an IC-718, dipoles and a multiband vertical. QSL's direct to his home call (see QRZ.com) or via LoTW or eQSL.



3D2, FIJI Operators Jacek/SP5EAQ and Jacek/SP5DRH will be active as 3D2MJ and 3D2KJ, respectively, from Viti Levu (OC-016), starting October 1st for four weeks. Activity will be on all bands, but with an emphasis on the lower bands. They plan to use two stations with small amps and vertical antennas. QSL via their home callsigns.



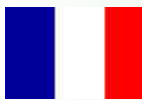
9M6, EAST MALAYSIA Operator Miki, JJ2CJB/AC2AI will be active as 9M6/JJ2CJB from "Langkah Syabas Beach Resort" located near the city of Kota Kinabalu on the Island of Borneo (OC-088) for the CQWW DX SSB Contest (October 24-25th). He plans to run 400 watts into a Force12 C4 beam. QSL via LoTW, eQSL or the JA Bureau.



EA6, BALEARIC ISLANDS (EU-004) Adrian, AA5UK, will be active as EA6/AA5UK from Ibiza (JM09tb), October 14-29th. Activity will be holiday style on 160-10 meters using mostly SSB and various Digital modes. Also, look for satellite activity on various birds. He will also be active during CQWW DX SSB Contest (October 24-25th). QSL via his home callsign, by the bureau, LoTW or eQSL.



SN120, POLAND (Special Event) Look for special event station SN120OSP to be active between now and October 31st. Activity will be on all bands and modes. Operations are to celebrate the 120th anniversary of the auxiliary fire brigade of the Polish City "Gorowo Ilaweckie". QSL via SP4CUF.



FT/G, GLORIOSO ISLAND Update as at 15/09/09. Hi friends The Transall plane, carrying the TAAF and Mayotte authorities, the French Foreign Legion detachment and the FT5GA crew has landed on Grande Glorieuse at 1330 GMT (1630 local). At this moment all the Servicemen, including the FT5GA Op's are busy unloading all the Military and dpedition gear and supplies. The night falls very quickly so, when the plane is completely unloaded, it will be too late to set up the antennas. It will be done tomorrow just after sunrise. The team of FT5GA will live in the anticyclonic shelter and will have a special room for the Ham Station. This evening and sometime in the night, they will spend as long as possible setting up the indoor parts of the stations – (rigs, pa's, laptops, band-filters etc). After more then five years, some hours to wait again is undoubtedly the best achievement we would had hoped for, isn't it?

73 Didier, F5OGL, Team leader, Lee ZL2AL Australasian Pilot FT5GA

DX NEWS (Cont)

From the Web (tnx to opdx, 425 dx news, arrl zldxc...)



ET - ETHIOPIA Jim, WU0I, is staying in Addis Abeba momentarily and hopes to show up as ET3JD at least in October. He prefers the bands 40m/30m/20m/17m/15m and the modes CW SSB/PSK31 (in contests also RTTY). QSL only direct to: ET3JD, Jim DeLoach, 2030 Addis Ababa Place, Dulles, VA 20189-2030, USA. For more information and updates please visit his website at: www.deloach.net/ET3JD.html



FH - MAYOTTE, AF-027 Willi, DJ7RJ, will be active as TO7RJ from Mayotte (AF-027) between Sep 22 and Oct 25. During the last three days of this activity he will sign FH/DJ7RJ. Willi will work in CW and SSB on all bands from 160m-10m and maybe also on 6m. Willi confirms QSL's very reliably direct or via bureau to his home call.



ST - SUDAN Robert, S53R, has begun working for the "World Food Program" (WFP) in Sudan by the start of September. He has applied for the callsign ST2X and hopes to show up by the end of September or beginning of October. His amateur radio equipment is still in Slovenia and waits to be shipped to Sudan.



TJ - CAMEROON TJ3SL is Lionel, F5PSA, who prefers to work in SSB on 20m, 17m, 15m, 12m and 10m. The length of his stay is not known. QSL's via his home call.



ZL7 - CHATHAM ISLANDS, OC-038 Bill, ZL7/N7OU, is going to activate Chatham Island (OC-038) only in CW on 80m-10m from Sep 18-30. His equipment consists of a 100 watt radio and a vertical antenna. QSL cards should be sent via his home call.



7Q - MALAWI Harry, 7Q7HB (G0JMU), is back again in Malawi and will stay there for three months. Harry is working mainly on CW and digital modes. QSL's ONLY direct via his QSL manager G0IAS.



GREAT BRITAIN, SPECIAL EVENT STATION

The British Amateur Radio Teledata Group (BARTG) has existed for fifty years now. The "Golden Jubilee" special event station GB50ATG will be activated by several OP's until June 2010. The first one will be John, GW4KSA, in September. If you are working GB50ATG in a contest this month remember to check Wales as a multiplier. A special "Golden Jubilee Award" will be issued as well. More information can be found online at: <http://www.bartg.org.uk>

Many thanks to the following contributors for this issues bulletin: Carl Smith (QRZ DX), 425DXNews, OPDX Bulletin, HAM-MAG Sept 09, DF6EX (WINQSL), DJ5AV, DK8JB, DL1SBF, DL3IE, DL7HKL, DL7VOA, DM1TT, F5NQL, JI5RPT, NG3K, ZL2TZE, ZL2AL, ZLDXC and others. (Ed).

International Space Station Observation Passes Viewable from Palmerston North

The tables below will give you an indication of when the International Space Station will be visible over Palmerston North from September 16th to October 5th. The next Space Shuttle mission will be STS-129, currently targeted to launch on November the 12th.

Date	Mag	Starts			Max. altitude			Ends		
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.
16 Sep	-2.2	04:29:58	43	ENE	04:29:58	43	ENE	04:32:32	10	ESE
17 Sep	-2.9	04:53:50	46	WSW	04:54:13	50	SSW	04:57:10	10	SE
18 Sep	0.2	03:46:07	13	ESE	03:46:07	13	ESE	03:46:34	10	ESE
18 Sep	-1.5	05:17:36	16	WSW	05:19:02	22	SSW	05:21:27	10	SSE
19 Sep	-1.0	04:09:47	23	SSE	04:09:47	23	SSE	04:11:09	10	SE
19 Sep	-0.8	05:42:28	10	SW	05:44:00	13	SSW	05:45:33	10	SSE
20 Sep	-1.3	04:33:23	20	SSW	04:33:23	20	SSW	04:35:24	10	SSE
21 Sep	-0.7	04:56:55	11	SW	04:57:59	13	SSW	04:59:28	10	SSE
22 Sep	0.0	03:48:57	12	SSE	03:48:57	12	SSE	03:49:18	10	SSE
22 Sep	-0.3	05:22:44	10	S	05:23:04	10	S	05:23:23	10	S
23 Sep	-0.4	04:12:24	12	S	04:12:24	12	S	04:13:19	10	SSE
23 Sep	-0.3	05:47:24	10	S	05:48:10	11	S	05:48:55	10	SSE
24 Sep	-0.2	04:36:38	10	S	04:36:57	10	S	04:37:16	10	S
25 Sep	-0.2	05:01:12	10	S	05:02:01	11	S	05:02:51	10	SSE

Date	Mag	Starts			Max. altitude			Ends		
		Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.
26 Sep	-0.5	05:25:08	10	SSW	05:27:00	15	SSE	05:28:52	10	SE
27 Sep	-0.1	05:14:58	10	S	05:15:49	11	S	05:16:39	10	SSE
28 Sep	-0.4	05:38:52	10	SSW	05:40:46	15	SSE	05:42:40	10	ESE
29 Sep	0.2	04:30:10	10	SSE	04:30:10	10	SSE	04:30:26	10	SSE
29 Sep	-1.3	06:02:52	10	SW	06:05:33	28	SSE	06:08:12	10	E
30 Sep	-0.4	04:53:46	15	S	04:54:29	16	SSE	04:56:24	10	ESE
30 Sep	-3.1	06:27:05	10	SW	06:30:06	79	SE	06:33:05	10	NE
1 Oct	-1.4	05:17:31	17	SSW	05:19:14	29	SSE	05:21:54	10	E
2 Oct	0.4	04:09:55	11	ESE	04:09:55	11	ESE	04:10:06	10	ESE
2 Oct	-3.3	05:41:25	16	SW	05:43:45	83	SE	05:46:44	10	NE
3 Oct	-0.7	04:34:03	22	ESE	04:34:03	22	ESE	04:35:33	10	E
3 Oct	-2.2	06:05:34	11	WSW	06:08:01	27	NW	06:10:36	10	NNE
4 Oct	-1.9	04:58:28	34	NE	04:58:28	34	NE	05:00:19	10	NE
5 Oct	-1.2	05:23:14	16	N	05:23:14	16	N	05:24:07	10	NNE

BRANCH 20 OFFICERS & COMMITTEE CONTACT LIST 2009—2010

President / 2KO Times Editor	ZL2SKY	Allan Chandler	PH: 06-374-7001	zl2sky@zl2ko.org.nz
Vice President	ZL2AFJ	Chester Clark	PH: 06-357-2829	clark.j.c@xtra.co.nz
Secretary	ZL2VCC	Cheryl Wheatley	PH: 06-326-8551	cheryl@zl2max.gen.nz
Treasurer	ZL2AUB	Pete Moore	PH: 06-354-7861	zl2aub@inspire.net.nz
Contact Officer/ Clubrooms Custodian/ QSL Manager/ Equipment Officer	ZL2BRS	Stan Russell	PH: 06-358-6683	stanruss@inspire.net.nz
AREC Section Leader Deputy Leader	ZL2LI ZL2VCC	Len Inkpen Cheryl Wheatley	PH: 06-357-1493 PH: 06-326-8551	len.janet@inspire.net.nz cheryl@zl2max.gen.nz
Beginners Classes	ZL2MAX	Max Wheatley	PH: 06-326-8551	max@zl2max.gen.nz
Repeater Trustees	ZL2FX ZL2WD	Scott Billington Hayden Sims	PH: 06-356-1555 PH: 022-04-95293	scottb@maxnet.co.nz haydensimsnz@gmail.com
Club Auditor	ZL2TN	Trevor Brighting	PH: 06-357-4603	rovertruth@xtra.co.nz
ZL2KO Trustee	ZL2KID	Allison Clarke-Chandler	PH: 06-374-7001	alli_jane93 @hotmail.com
Website Manager	ZL2WD	Hayden Sims	PH: 022-04-95293	haydensimsnz@gmail.com
Committee Member	ZL2BJA	Barrie Angland	PH: 06-356-8448	zl2bj@inspire.net.nz
Committee Member	ZL2MCG	Morrie Gore	PH: 06-358-1351	megore@xtra.co.nz
Committee Member	ZL2BBG	Barry Gosnell	PH: 06-357-4789	Bagosnell @inspire.net.nz
Committee Member	ZL2VX	Peter McLeod	PH: 06-357-7913	mcleodfamily@ callsouth.net.nz
Committee Member	ZL2IAN	Ian Thompson	PH: 06-357-4545	i.thompson@ucol.ac.nz
Committee Member	ZL2BFB	Hugh Wilde	PH: 06-356-9450	wil deh@clear.net.nz

ZL2KO SUNDAY MORNING NET ROSTER

<u>AUGUST</u>	<u>SEPTEMBER</u>	<u>OCTOBER</u>	<u>NOVEMBER</u>	<u>DECEMBER</u>
	6th ZL2SKY	4th ZL2LI	1st ZL2BPX	6th ZL2RMH
	13th ZL2KID	11th ZL2FE	8th ZL2IAN	13th ZL2ADN
	20th ZL2RMH	18th ZL2BEQ	15th ZL2BJA	20th ZL2KID
	27th ZL2ADN	25th ZL2AUB	22nd ZL2VX	25th ZL2AUB
30th ZL2AFJ			29th ZL2AFJ	27th ZL2FE