

Ham Hum

October 2012



The official newsletter of
The Hamilton Amateur Radio Club (Inc.)
Branch 12 of NZART - ZL1UX
Active in Hamilton since 1923



BRIDGE
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BRIDGE



WATER SKI CLASSIC
27/28 OCTOBER 2012

Next Meeting :

17th October : 7:30pm at the clubrooms

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Contact Details 2012

Patron:
Fin Bruce ZL4HI (SK)

President:
"Jono" Jonassen ZL1UPJ z1lux@nzart.org.nz

Vice Presidents:
Raymond McNickle ZL1RGM 827 0304
Gavin Petrie ZL1GWP 843 0326 z1gwp@nzart.org.nz
Phil King ZL1PK 847 1320 z1pk@nzart.org.nz

Secretary:
Phil King ZL1PK 847 1320 z1pk@nzart.org.nz

AREC Section Leader:
Mike Sanders ZL2MGS

Deputy Section Leaders:

Treasurer:
Tom Powell ZL1TJA 834 3461 z1tja@nzart.org.nz

Committee:
Sutton Burtenshaw ZL4QJ 856 3832 suttonb@slingshot.co.nz
Robin Holdsworth ZL1IC 855 4786
Gary Lodge ZL1GA
Cameron Mumford ZL1CNM
Mike Sanders ZL2MGS 855 1612 z2mgs@nzart.org.nz

Ham Hum Editor:
David King ZL1DGK 847 1320 z1dkg@nzart.org.nz

Ham Hum Printer:
John Nicholson ZL1AUB 855 5435

ATV Co-ordinators:
Phil King ZL1PK 847 1320 z1pk@nzart.org.nz
Robin Holdsworth ZL1IC 855 4786

Market Day Co-ordinator: harcmday@nzart.org.nz
Robin Holdsworth ZL1IC 855 4786

Webmaster:
Gavin Petrie ZL1GWP 843 0326 z1gwp@nzart.org.nz

BBS Team:
Phil King (sysop) ZL1PK 847 1320 z1pk@nzart.org.nz
Alan Wallace ZL1AMW 843 3738 z1amw@nzart.org.nz
Doug Faulkner ZL4FS 855 1214
Gavin Petrie ZL1GWP 843 0326 z1gwp@nzart.org.nz

Club Custodian:
Alan Mowry ZL1UGM 847 7868

Equipment Officer/Quartermaster:
Colin McEwen ZL2CMC 849 2492

QSL Manager:
Sutton Burtenshaw ZL4QJ 856 3832 suttonb@slingshot.co.nz

Net Controllers:
80m net—Phil King ZL1PK 847 1320 z1pk@nzart.org.nz
2m net—Phil King ZL1PK 847 1320 z1pk@nzart.org.nz

NZART Examiners: ZL1IC, ZL1PK & ZL1TJA

From the Editor

We are running a brief session of Morse Proficiency Training at most General Meetings. A handout sheet is available at the meeting. The Gary Bold ZL1AN Morse practice programme is available from the NZART page at <http://www.nzart.org.nz/assets/exam/install-teach4.exe> This programme will send any text file in morse at the speed and character spacing that you select.

The annual Bridge to Bridge Ski Race is happening this month on the weekend of 27th and 28th October. Lots of volunteers are needed for the Long Race on Sunday afternoon that starts at Cambridge, races down to Taupiri, then turns around and heads back to Hamilton. Volunteers are also needed for Saturday and Sunday morning. Perfect for those that like skiing, boats, fast boats, operating from a jetty or a beach or operating from tricky positions. Please contact Jono z11upj@hotmail.com if you can help.



Photo by Timbo Photographic who do very good photos of the event.

**Next Committee Meetings -
3rd October & 7th November**

Propagation de K7RA 29 September, 2012 ARLP039

Average daily sunspot numbers rose this week from 56 to 81.3, and average daily solar flux increased from 101.4 to 129.7. As reported in the ARRL Letter on Thursday, September 27, the increase was expected to continue over the next few days, with solar flux peaking at 150 on September 28-29, but what a difference a single day makes.

You can see the radical change in forecasts by going to <http://www.swpc.noaa.gov/ftpmenu/forecasts/45DF.html> and selecting the September 26 prediction, then compare it to the September 27 prediction. Instead of a solar flux on September 28 to October 1 of 150, 150, 145 and 145, the latest prediction for those days is 130, 130, 125 and 125. Each day shows a 20 point lower solar flux than the earlier prediction.

So as it is now, from the September 27 prediction, we see solar flux of 130 on September 28-29, 125 on September 30 through October 2, 120 on October 3-4, 130 on October 5, 125 on October 6-7, 120 on October 8, 115 on October 9-10, 120 on October 11, 115 on October 12-13, and 120 on October 14-15. It is then expected to rise to a peak of 150 on October 20 and 150 again on October 25-26, with the average solar flux on October 21-24 around 141.

The average planetary A index dedined from 7.4 last week (September 13-19) to 4.3 this week (September 20-26). The predicted planetary A index values are 5 on every day through October 4, 8 on October 5, 5 on October 6-11, then 10 and 12 on October 12-13, and 5 on October 14-16, followed by 10 on October 17, 8 on October 18-20, and 5 on October 21-25.

As always, we get a different perspective from the Czech Propagation Interest Group and Petr Kolman, OK1MGW. They see quiet to unsettled geomagnetic conditions on September 28-29, quiet to active on September 30 and October 1, active to disturbed on October 2, quiet to active on October 3, quiet to unsettled October 4-5, mostly quiet October 6-8, then quiet to unsettled October 9-12, mostly quiet October 13-14, quiet to unsettled October 15, and quiet to active on October 16-17.

John Parnell, K7HV has enjoyed working DX with low power, and then documenting each new country worked on video, for what he refers to as YouTube DXCC. Check out his videos at <http://www.youtube.com/playlist?list=PL677A093C75EB5C55>. John also reports from K7SS some great conditions on 10 meters last weekend (September 22-23). Check John's QRZ.com listing at <http://www.qrz.com/db/k7hv>.

We also heard of great 12 meter conditions last weekend from Chris Callicott,

G4DJJ of Northumberland in England. Chris reports: "Between 1810-1850 UTC on September 22 I worked 15 stations across IL, IN, MN, OH and WI. On September 23 from 1600-1620 UTC the band opened from UK to central and SW USA, giving easy SSB QSOs with 35 stations in AZ, CA, NV, WA, IL, IN, OH, MI, WI, MN, and Mexico. All loaded up to LoTW of course!"

A little solar activity helps, and of course we have transitioned to Fall conditions, which makes a big difference. The Autumnal Equinox was last weekend on September 22 at 1449 UTC.

Angel Santana-Diaz, WP3GW of Trujillo Alto, Puerto Rico reports, "I suppose you had a big report on 10 meters this weekend! Saturday September 22 in the afternoon was really busy on 10. Got to work around 1534 UTC V5/DL3ZAD and at 1556 UTC VP9LP. Later at 1951 and 2001 UTC 7Z1TT, EA9BW and EA7QC, who told me it was around 10pm his local time. The band was teaming with life! Then on Monday, got to work JX9JKA on 12m at 1915 UTC, which is a new DXCC entity for me.

On other bands worked ZB2B, T77NM, 8P6CF and OX3KQ. And the bands still are interesting, hope they are great for the CQ WW SSB."

John Kelley, K4WY of Fairfax Station, Virginia sent a tip about an article claiming that we actually reached a sunspot cycle peak last year, but that was just for the Sun's northern hemisphere. The peak for the southern hemisphere may not occur until 2014. Although the article talks about the disconnect between the two hemispheres suggesting a grand minima in our future, note the comment from Michael Proctor, a solar physicist at the University of Cambridge, who is not convinced that this will happen. "This present cycle is similar to the weak one that ended in 1913, and that was followed by a strong cycle," he says.

Read the article at,

<http://www.newscientist.com/article/mg21528843.700-solar-maximum-oh-you-just-missed-it.html>.

John Campbell, K4NFE of Huntsville, Alabama also gave us a tip about this article.

If you would like to make a comment or have a tip for our readers, mail the author at, k7ra@arrl.net.

For more information concerning radio propagation, see the ARRL Technical Information Service at

<http://arrl.org/propagation-of-rf-signals>.

For an explanation of the numbers used in this bulletin, see

<http://arrl.org/the-sun-the-earth-the-ionosphere>.

An archive of past propagation bulletins is at

<http://arll.org/w1aw-bulletins-archive-propagation>.

Find more good information and tutorials on propagation at <http://myplace.frontier.com/~k9la/>.

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arll.org/propagation>.

Instructions for starting or ending email distribution of ARRL bulletins are at <http://arll.org/bulletins>.

Sunspot numbers for September 20 through 26 were 68, 74, 46, 57, 90, 121, and 113, with a mean of 81.3. 10.7 cm flux was 117.4, 116.9, 124.5, 133.6, 136.6, 139.8, and 139.2, with a mean of 129.7.

Estimated planetary A indices were 9, 5, 4, 2, 2, 2, and 6, with a mean of 4.3. Estimated mid-latitude A indices were 10, 5, 3, 1, 2, 2, and 6, with a mean of 4.1.

Source: [The American Radio Relay League](http://www.theamericanradiorelayleague.org)



CALL FOR PAPERS TECHNOLOGY CONVENTION EASTER AUCKLAND 2013

Planning for the Technology Convention to be held at the Western Springs Garden Community

Hall, Auckland, during March 30th and 31st (Easter) 2013, is well under way. The time has

come to call for papers for presentation at this convention.

At this stage a brief synopsis of no more than two paragraphs (approximately 150 words) about

the proposed subject is required. The subject content should be about developing technology in

communications, be it voice, data, control technology, or anything relevant to modern electronic

communication techniques. Synopsis can be sent by Email to conventionpapers at aucklandvhfgroup.

org.nz no later than September 30th 2012.

Note: Not all synopses received may be accepted for the convention. This will be decided by

the number received and how much time is available through the Easter weekend, and the relevance

of the subject proposed. A more detailed proposal of the presentation could also be required

at the beginning of November 2012 for the purposes of allocating time slots during the

Easter weekend and planning of facilities.



List of Call Signs of Amateurs that RSM has been unable to contact and callsigns that RSM has been informed were held by Silent Keys.

As members will be aware (see HQ Infolines 221 and 243), Radio Spectrum Management have been attempting to contact all the Amateurs listed in SMART to see whether the information held is correct and up-to-date. (Under the Radio Communication Act 1989, Section 24A, Amateurs are required to update changes of address within 1 month of the address change.)

RSM have managed to contact most Amateurs but there are over 150 (see below) who they have not been able to contact either by email or post. The call signs of these amateurs, many of whom are Silent Keys, have been moved into a special "reserved" category in SMART and will become available for reallocation in about a year's time unless the holder contacts RSM.

ZL1:

ZL1ABM, ZL1ACD, ZL1AFE, ZL1AHP, ZL1AIF, ZL1AK, ZL1ALX,
ZL1ANE, ZL1ANP, ZL1AOH, ZL1AOI, ZL1AQU, ZL1ASY, ZL1AWX,
ZL1AXZ, ZL1AZX, ZL1BCN, ZL1BDE, ZL1BDQ, ZL1BDT, ZL1BF,
ZL1BFH, ZL1BJN, ZL1BNJ, ZL1BPA, ZL1BQO, ZL1BRS, ZL1BWS,
ZL1BXX, ZL1BYY, ZL1CAD, ZL1CCJ, ZL1COD, ZL1CWD, ZL1DGD,
ZL1DW, ZL1FL, ZL1GAD, ZL1HY, ZL1JBM, ZL1JF, ZL1KZ,
ZL1LFA, ZL1NY, ZL1PJR, ZL1RAW, ZL1RRV, ZL1SV, ZL1TAL,
ZL1TBL, ZL1THG, ZL1TIF, ZL1TOQ, ZL1TS, ZL1TZS, ZL1UDZ,

ZL1UED, ZL1UEL, ZL1UF, ZL1UJW, ZL1ULS, ZL1UND, ZL1UNS,
ZL1UUN, ZL1VAH, ZL1VIM, ZL1WA, ZL1WEN

ZL2:

ZL2AAO, ZL2ADM, ZL2AGC, ZL2AGM, ZL2AJJ, ZL2AKE, ZL2AKN,
ZL2ALC, ZL2AOA, ZL2AQI, ZL2ARY, ZL2ATM, ZL2ATO, ZL2AVR,
ZL2AWA, ZL2BBA, ZL2BEK, ZL2BGI, ZL2BHM, ZL2BLO, ZL2BN, ZL2DM,
ZL2EST, ZL2GA, ZL2GMP, ZL2IO, ZL2JC, ZL2JR, ZL2JT,
ZL2KAS, ZL2LU, ZL2LUK, ZL2MNZ, ZL2NH, ZL2OG, ZL2OT, ZL2SS,
ZL2TAK, ZL2TAS, ZL2THX, ZL2TJO, ZL2TK, ZL2TKL, ZL2TNM,
ZL2TOO, ZL2TPS, ZL2TRT, ZL2TUI, ZL2UAJ, ZL2UBU, ZL2UCD,
ZL2UDO, ZL2UT, ZL2VCM, ZL2VJW, ZL2WI

ZL3:

ZL3AAB, ZL3ABU, ZL3AFS, ZL3AGB, ZL3AIX, ZL3BRB, ZL3DYL,
ZL3GN, ZL3GV, ZL3GW, ZL3JMC, ZL3JW, ZL3KV, ZL3MO, ZL3OD,
ZL3PD, ZL3RC, ZL3RD, ZL3RE, ZL3SO, ZL3TAN, ZL3TCK,
ZL3TGN, ZL3TK, ZL3TUM, ZL3UPS, ZL3VAB, ZL3WEJ

ZL4:

ZL4BI, ZL4ECD, ZL4GT, ZL4KH, ZL4KU, ZL4KV, ZL4MX, ZL4QG,
ZL4SR, ZL4TAD, ZL4TDT, ZL4TFY, ZL4TKK, ZL4UPB, ZL4WF, ZL4WZ

There is a chance that some of these callsigns belong to active Amateurs. If you know anybody on the list who is still active, please ask them to contact RSM at rsmlicensing@med.govt.nz or phone the Business Service Centre on 0508 776 4636 ASAP as otherwise they will lose their callsign!

Jeff Hicks Manager Licensing RSM

Lorne Douglas ZL2AHB NZART Call Book Compiler

Don Wallace ZL2TLL Administration Liaison Officer

Debby Morgan ZL2DL ARX NZART Business Manager

IARU Electronic Newsletter

15 September 2012

In this Issue:

WRC-12: A Review and A Look Ahead to WRC-15

WRC-12 (World Radiocommunication Conference 2012) is history and with the passage of several months it is appropriate to look back at the results achieved for and on behalf of amateur radio worldwide and to look ahead at what WRC-15 has in store for amateur radio.

Agenda Item 1.23. An important amateur radio agenda item for WRC-12 was “to consider an allocation of about 15 kHz in parts of the band 415-526.5 kHz to the amateur service on a secondary basis, taking into account the need to protect existing services.”

In 2007, when the agenda items were tentatively set for WRC-12 and later when they were finalized by the ITU Council, there seemed to be much resistance to such an allocation by other radio spectrum users. All through the many preparatory meetings leading up to WRC-12 the resistance remained more or less steadfast. There were a number of administrations who were determined to oppose an amateur allocation in order to protect aeronautical navigation operating within the band in question.

However, as WRC-12 began there were a sizable number of administrations who were in favor of granting an amateur allocation in the band and there were 3 methods proposed to “satisfy” the agenda item. Two of the proposals provided for a secondary allocation and the third was NOC, or No Change.

At the end of the first week of the WRC, little progress within the sub-working group (SWG 4C3) dealing with the agenda item seemed to have been made on arriving at a solution to the conflicting points of view of granting an allocation and No Change. A drafting group was formed with the idea of consolidating the proposals in favor of an allocation and at the same time trying to accommodate some of the concerns of the administrations in favor of NOC. A compromise draft proposal for a secondary allocation at 472-479 kHz with footnote provisions to protect existing services resulted in a few of the NOC administrations approving the compromise. Not all of the NOC administrations changed their view however and the output of the sub-working group produced 2 options: a secondary amateur allocation at 472-479 kHz in a large portion of the world with EIRP limit of 5 watts and further limited to 1 watt within 800 km of specified countries (Option 1) and the still present NOC (Option 2).

Discussions within Working Group 4C failed to resolve the divergent views and the 2 options moved to the next higher level, Working Group 4. Owing to the effective and strong leadership skills of the WG 4 Chairman, Option 1 was adopted by WG 4 and was passed on to the Plenary for 2 mandatory readings before adoption. Option 1 ultimately passed through the required 2 readings and was declared adopted.

So as a result of the Final Acts of WRC-12, amateur radio has a new secondary allocation as set out in Option 1 above. The new allocation becomes effective on January 1, 2013 but amateurs will have to await action by their own national telecommunication authorities to establish when access will be given to the band.

There was another agenda item that could have had a negative impact or effect on amateur radio worldwide depending on how the WRC decided the issue. WRC-12 Agenda Item 1.15 was "to consider possible allocations in the range 3-50 MHz to the radiolocation service for oceanographic radar applications."

Quite a lot of preparatory work had been done in ITU-R WP5A over the last 4+ years to prove that HF radars are not compatible with operations of the amateur radio service. As a consequence, no proposals were approved at WRC to place the oceanographic radar into any of the amateur radio bands. Proposals for radiolocation services in the 5250-5450 kHz portion of the bands was finally squeezed into 5250-5275 kHz.

WRC-12 was a very successful WRC from the amateur radio perspective. Within 45 days, the IARU Administrative Council will meet and will address the WRC-15 agenda items with an eye to building the best strategy to deal with those agenda items in a way most favorable to amateur radio worldwide.

WRC-15 Agenda Item 1.4 is "to consider possible new allocation to the amateur service on a secondary basis with the band 5250-5450 kHz in accordance with Resolution 649 (WRC-12)." A great deal of IARU time and effort will obviously be expended in support achieving this agenda item.

With seemingly everyone around the world gaining some degree of broadband access, the search for radio spectrum to satisfy the needs for mobile connectivity will become even more intense as we draw closer to WRC-15. Agenda Item 1.1 is "to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233 (WRC-12)." National telecommunication authorities around the world and the ITU are in search of spectrum to fill these mobile connectivity requirements. As this agenda item develops, the IARU will be there to maintain the amateur radio spectrum.

Other WRC-15 Agenda Items the IARU will be closely monitoring include the fol-

lowing:

AI 1.6.1: "to consider possible additional primary allocations to the fixed satellite service (Earth-to-space and space-to-Earth) of 250 MHz in the range between 10 GHz and 17 GHz in Region 1."

AI 1.10: "to consider spectrum requirements and possible additional spectrum allocations for the mobile-satellite service in the Earth-to-space and space-to-Earth directions, including the satellite component for broadband applications, including International Mobile Telecommunications (IMT), within the frequency range from 22 GHz to 26 GHz, in accordance with Resolution 234 (WRC-12)."

AI 1.18: "to consider a primary allocation to the radiolocation service for automotive applications in the 77.5-78.0 GHz frequency band in accordance with Resolution 654 (WRC-12)."

A lot of radio amateurs are aware of the increasing use of amateur spectrum by small satellites, mainly by universities. It is becoming an increasingly difficult situation to accommodate the number of small, non-commercial satellites within the amateur bands. These education based satellites do not really fit within the definition of the amateur service but have been accommodated there. These small satellites are categorized as nanosatellites (between 1 and 10 kg) and picosatellites (less than 1 kg). The ITU is trying to deal with this issue in an orderly manner and a "preliminary" WRC-18 agenda item is to consider whether these satellite operations can be accommodated in an already crowded radio spectrum.

As these issues develop, the IARU will keep Member-Societies aware of developments and how the Member-Societies can assist for the benefit of amateur radio.

Distribution Of This E-Letter

This electronic newsletter is sent to many IARU member-societies headquarters around the world. Individual amateurs should encourage their IARU national society to forward the newsletter to its own members. The newsletter can also be read and downloaded from the IARU web site at www.iaru.org.

Upcoming Happenings & Events

<i>Date</i>	<i>Happenings & Events</i>
1st October	HF Net, 3.575 MHz, 19:30
1st October	NZART Doug Gorman Frequency Measuring Contest
2nd October	VHF Net, 146.525 MHz, 20:00
5th October	NZART HQ Infoline
6-7 October	NZART Microwave Contest
8th October	HF Net, 3.575 MHz, 19:30
9th October	VHF Net, 146.525 MHz, 20:00
13th October	Western Suburbs Used Equipment Sale
15th October	HF Net, 3.575 MHz, 19:30
16th October	VHF Net, 146.525 MHz, 20:00
17th October	Hamilton Club General Meeting
19th October	NZART HQ Infoline
22nd October	HF Net, 3.575 MHz, 19:30
23rd October	VHF Net, 146.525 MHz, 20:00
27-28 October	Bridge to Bridge (AREC)
28th October	NZART Official Broadcast
29th October	HF Net, 3.575 MHz, 19:30
30th October	VHF Net, 146.525 MHz, 20:00
31st October	Hamilton Section AREC Meeting (AREC)

4th November—NZART Straight Key Night
4th November—NZART HQ Infoline
10th November—Break-In copy deadline
10-17 November—Silver Fern Rally-North Island (AREC)
18th November—NZART HQ Infoline
21st November—Hamilton Club General Meeting
27th November—NZART Official Broadcast
30th November—AREC Section meeting
1st December—NZART VHF+ Field Day
30-31 March 2013—NZART Technology Conference - Auckland
1-3 June 2013—NZART Conference—Masterton

For more information on any of the above please contact myself or any committee member.

AREC Event Operators Page

WRC Rally NZ/ Possum Bourne Rally	June 2013	Organiser : ZL1DK
Please contact the Section Leader with your team information and he will pass it on to Auckland.		

Rollo's Marine Bridge to Bridge Water-Ski Race	26-28 October 2012	Organiser : ZL1UPJ
<u>Position</u>	<u>Saturday Operator</u>	<u>Sunday Operator</u>
Base		
Start Boat		
Rescue Boat		
X-Band		
A.	Ngaruawahia/ Taupiri	
	Start/Finish at Point	
B.	Ngaruawahia Ramp	
C.	Ngaruawahia W/S	
D.	Horotiu	
E.	Pukete Ramp	
F.	Days Park	
G.	Fairfield Bridge	
H.	Malcolm St	
I.	Narows	
J.	Field Days	
K.	Between Pipe and F/Days	
L.	High Level Bridge	

Kairangi Hill Climb	September 2013		Organiser : ZL1IC
<u>Position</u>	<u>Operator</u>		
1.			
2.			
3.			
4.			
5.			
School C ycling	July 2013		Organiser : ZL1IC
<u>Position</u>	<u>Operator</u>	<u>Position</u>	<u>Operator</u>
1.		5.	
2.		6.	
3.		7.	
4.		8.	
Colville Connection	March 2013		Organiser : ZL1PK
<u>Position</u>	<u>Primary Operator</u>	<u>Secondary Operator</u>	<u>Other Operator</u>
Base			
Stony Bay			
Fletcher Bay			
Hill 1			
Hill 2			
Fantail Bay			
Stand B y			

For Details about and to help w ith these events, contact the person indicated as the organiser for the event. See Page 1 for their contact information.

Club Information



Contacts :-

Business Meeting: 1930 First Wednesday of each month
88 Seddon Road, Hamilton

General Meeting: 1930 Third Wednesday of each month (except Jan)
88 Seddon Road, Hamilton

Homepage: <http://z1ux.tripod.com>
eMail: branch.12@nzart.org.nz

HF Net: 3.575MHz LSB 1930 Mondays
VHF Net: 146.525MHz simplex 2000 Tuesdays

2m Repeater: 145.325MHz -600kHz split
STSP 146.675MHz -600kHz split
Repeaters: 438.725MHz -5 MHz split
ATV Repeater: 615.250 Ch39 (off air)

Cover Photo: 2012 Bridge to Bridge Ski Race image

Sender	Hamilton Amateur Radio Club (Inc) PO Box 606 Hamilton 3240
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