

Ham Hum

November 2009



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



Next General Meeting

18 November : Clubrooms

21 November : Astronomical Society

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From the Committee and/or Editor

Sad news this month as I mention three Silent Keys.

Cecil "Ces" Parsons (ZL1UF) passed away on the 9th October. I had the pleasure to speak with him about his memories of our club before it moved to its current location on Seddon Rd. A great insight into the early years of Amateur Radio in Hamilton.

Hugh Garnet Frizell (ex ZL1TSM) passed on the 10th October after a lengthy time spent at Eventhorpe Home.

Merv Reay (ZL1ABN) passed away on the 30th October at Trevellyn Rest Home.

All three gentlemen were active members of the club at various stages.

On a happier note :-

We will be running the National System Award in 2010 in association with the NZ Historic Places Trust. Based on the original idea by, and with permission of, the Wellington VHF Group (Branch 74). More details on pages 9 & 11

There will be two General Meetings this month. The first meeting will be on Wednesday 18th November at the clubrooms at 7:30pm with likely continuation at the Astronomical Observatory. Dr Bruce Griffiths will give a talk on precision crystal oscillators.

The second meeting will start at the Astronomical Society on Saturday 21st November.

More information will be on the clubs HF and VHF nets.

Next Committee Meetings - 4th November & 2 December

SB PROP ARL ARLP044

ARLP044 Propagation de G0KYA

The propagation bulletin this week is written by Steve Nichols, G0KYA, of the RSGB's Propagation Studies Committee in the English county of Norfolk. K7RA is out of town and will return next week for the November 6 Propagation Forecast Bulletin ARLP045.

Well, what a week it has been. The solar flux hit 82.3 on Tuesday, the highest recording yet since the first observed "new cycle sunspot" in January 2008, which was the "official" visual start of Sunspot Cycle 24.

Even as I write this, the flux is still at 80, thanks to sunspot region 1029, so let's hope that it is a sign of better things to come.

The region (1029) produced several B-class solar flare events and a single C2.2 class flare on the 28th, but luckily CQ World Wide SSB was unaffected for the most part.

NASA's STEREO "behind" spacecraft is not showing any new spots coming around the solar rim, but we live in hope. I was lucky enough to record a Podcast with Carl Luetzelschwab, K9LA at the RSGB's Convention in the UK where he talked about Solar Cycle 24 and the possible effect of galactic cosmic rays on Top Band propagation. You can hear the Podcast at, <http://www.g0kya.blogspot.com>.

In the UK a combination of sporadic-E and F2 layer propagation made 10 meters a "must have" band for contesters last weekend. The 28 MHz band was full of European stations and I personally worked more than 25 countries in two hours of casual operation. Longer DX included 4X (Israel) and ZS9 (South Africa) with signal strengths peaking at 59 with very simple antennas. I can't remember the last time 10 meters was so active, although it was interesting to note that on Monday the band was completely clear. It just shows that you should call CQ once in a while.

Putting a satellite in orbit

In case you thought they just fired the satellites into orbit. The following sequence is from Jonathons Space Report and covers the maneuverings of the Soyuz-2-1b on the 17th of September while it dispensed it's various spacecraft into the appropriate orbits.

The Soyuz-2-1b third stage reached a 185 x 198 km x 98.8 deg orbit at 1604 UTC. The Fregat stage separated and made two burns at around 1606 and 1652 UTC to an 814 x 820 km orbit, where it deployed the 2755 kg Meteor-M and the small 7 kg Blits satellite at 1653 UTC. Blits, built by NII Pritsionnogo Priborostroeniya (NIIPP) of Moscow, is a spherical glass lens to be used for laser geodesy. At 1745 UTC, three more satellites were ejected from the adapter truss on Fregat: Sterkh No. 12L, the second dedicated search-and-rescue satellite for the Russian Space Agency; Universitetskiy/Tat'yana-2, a 90 kg space physics research satellite built by students at MGU (Moscow State University); and UGA-TUSAT, a small 35 kg remote sensing satellite for the Ufimskiy Gosudarstvenniy Aviatsionniy Tekhnicheskiy Universitet (Ufa State Aviation Technical University) in Bashkortostan, a Russian autonomous republic. Fregat then made two further burns at about 1746 and 1835 UTC to descend to 490 x 504 km where it deployed Sumbandila, a South African imaging satellite, and deployed the Lavochkin/Astrium IRIS experiment, two rigidizing masts carrying dummy solar arrays, in a test of inflatable structure technology. The Fregat was expected to make a final burn to deorbit itself on Sep 18, but was still in a 491 x 503 km orbit as of Sep 23.

IARU regional conference hailed a success

The **International Amateur Radio Union** (IARU) Region 3, 14th Triennial Conference was held on 12-16 October, hosted by the NZART in Christchurch, New Zealand.

Delegates from 10 member societies (ARRL, ARSI, CRSA, HARTS, JARL, KARL, NZART, ORARI, SARTS and WIA), with RAST, RSGB and VARC being represented by proxy. Also attending was the IARU President Tim Ellam VE6SH and Vice President Ole Garspetad LA2RR, from Region 1 President Hans

Timmeman PB2T and Secretary Dennis Green ZS4BS and Region 2 Secretary Ramon Santoyo XE1KK.

The IARU R3 Directors had identified two topics, the IARU Monitoring System, and emergency communications, as being highly important, and major decisions were made on both of them.

Three working groups were established:

- The IARU Monitoring System (MS)
- Policy matters that included education, training, development of amateur radio and international and regional conferences involving radio administrations
- Operational and Technical Matters, including emergency communications, the IARU R3 Award and band plans

The Conference agenda included five documents on the IARU MS that generally sought a review and reinvigoration of this important activity. A special working group was established with Peter Young VK3MV appointed chairman and Rod Stafford W6ROD as secretary.

The amateur services must take action to protect their bands, the Conference heard, because without complaints about an intruder causing harmful interference, it may be claimed that there is no breach of the ITU Radio Regulations.

There was keen interest and participation in that working group. As a result of its work, the Conference resolved to acknowledge the contributions over many years of the IARU MS Region 3 Coordinator Arasu Monohar VU2UR.

The Conference identified the need to update and modernise the IARU protocols and procedures to effectively deal with intruders causing harmful interference in the amateur radio bands.

A package of proposed measures adopted by the Conference included greater co-ordination between the IARU MS coordinators in the three IARU regions, a single website to more effectively collect data on intruders and to record action being taken on them, and to provide information to assist those submitting intruder observation reports.

The Conference confirmed the importance of participation in regional telecommuni-

cation organisations, which are setting directions on regulatory matters that could impact on amateur services. IARU member societies are encouraged to be involved in that activity, where possible.

The regional telecommunication organisation's decisions significantly influence the decisions taken by the ITU World Radiocommunication Conference (WRC), with the next being in January 2012.

The NZART received praise for a number of its initiatives. One was its "ZL3 Buildathon" project that involved the encouragement of electronic project construction in schools and elsewhere in the community to lift the profile of amateur radio. Another was the 'Radio WAVE' project that demonstrates the principles of radio frequency propagation, polarity and effective radiated power.

The Conference heard that the Amsat-ZL's KiwiSAT amateur satellite project was undergoing final development. Some difficulties have arisen because of the US restrictions on the export of technology. KiwiSAT was expected to be ready for launch in 2010, although no decision has been made on launching it into orbit.

A total of nine documents on the agenda referred to emergency communications and amateur radio. ORARI and CRSA were highly commended on the role that they and radio amateurs had played in Indonesia and China after major natural disasters.

The Conference considered the concept of emergency centre of activity (CoA) frequencies worthwhile, and adopted 3.600, 7.110, 14.300, 18.160 and 21.360 MHz. These have been immediately included in the IARU R3 Band Plans.

CoA are not spot frequencies, but starting points + or - 5 kHz, are not the only frequencies to be used, and are not mode specific and should be considered as being 'all modes'.

The Conference also encouraged radio societies and emergency groups to include in their planning and training, how best to publicise the role of radio amateurs during emergencies and make it known internationally.

Among the other agenda items considered were ARDF, better utilisation of all allocated amateur bands, BPL/PLT, EMC, visitor licensing, liaison between societies and the radio administrations in their nations, operating ethics and standards, and support for the development of amateur radio in the region.

An election was required for the five-member IARU R3 Directors, with Michael

Owen VK3KI, Shizuo Endo JE1MUI, Peter Lake ZL2AZ, Gopal Madhavan VU2GMN and Joong-Guen Rhee HL1AQQ being re-elected. The Directors then nominated Michael VK3KI as their chairman, which was endorsed by Conference. The Secretary, Jay Oka JA1TRC, was elected unopposed.

Michael VK3KI described the Conference as one of the most constructive and friendly he had attended. He said the credit for that goes to all who participated in the meaningful discussions resulting in productive outcomes.

All in attendance were in praise of the NZART organising committee, headed by Terry Carrell ZL3QL, who also took on the role of Conference Chairman, contributing greatly to its success. Sue Carrell and Mary Rogers ran a full women's program during the week for the wives of delegates and visitors.

The IARU recognised the work of Bob Knowles ZL1BAD on his retirement as the IARU MS Coordinator, a position he held for more than 20 years.

The Conference elected Peter Young VK3MV as the IARU R3 Regional IARU MS Coordinator. All other regional coordinators were reappointed.

The Conference received two invitations, one from ORARI for Bali, Indonesia, and another from VARC for Ho-Chi-Minh City, Vietnam to host the next Conference. The delegates voted in favour of accepting the VARC invitation for the 15th Conference in late 2012.



Silent Key: Henri Hugh Garnett-Frizelle ex ZL1TSM

Hugh passed away on 8 October 2009 at Eventhorpe Rest Home, Hamilton.

Born in 1924 in Birmingham, UK, the third of six children, he worked for a firm making surgical instruments, and for the BPO, and during WW II was engaged in evaluating captured German radio and radar equipment.

Hugh came to NZ in 1953, worked in the Stout Street telephone exchange in Wellington, and then in the Wellington carrier room. He moved, in the 1960s, to Transmission Section HQ in Taranaki Street. For many years he looked after carrier equipment supply and distribution, and was renowned for his ability to supply hard-to-get parts for technicians around New Zealand.

Hugh also had a keen eye for hard-to-find radio parts; from tuning capacitors to complete transmitters and receivers; he started collecting them. Hugh gained great pleasure from helping a friend with a needed part. His collection soon filled his Haitaitai house and basement, and overflowed into warehouse accommodation. Many people were amazed at the amount of radio gear in Hugh's house, and even more amazed that he could so quickly locate any part that they wanted.

When Hugh moved to Hamilton in the 1970s, the massive two day auction sale of his radio parts was the biggest seen in Wellington.

In Hamilton, Hugh was an instructor in the Technicians Training Centre, and later moved to Hamilton Transmission. He continued with amateur radio, mostly on 2 metres, and started a new collection of radio parts. He retired in December 1984.

With failing health around 2005, he again sold up, and moved into a resthome.

Hugh is remembered for many things; building swings for children, showing us how to put plastic coatings on our sidecutter handles using old biro cases and trichloroethylene, his knowledge of British Post Office engineering practices, the training sessions he ran for young trainee technicians, his huge collection of radio parts, the flavours of his exotic brews of home made wines - Rose petal, Dandelion, and Onion. And his encyclopaedic knowledge of radio and radar equipment, instruments, and British valves and CRTs. If you had a valve that had lost its markings, Hugh could tell you it's type, it's name and what equipment it was used in.

Hugh was a kind hearted gentleman who would do anything for his friends. He will be sadly missed in Hamilton and around New Zealand.

-Ron Badman ZL1AI

Comment from Terry Stanwell

If you had a valve that had lost its markings, Hugh could tell you the its type, its name and where it was commonly used. It was really amazing, and we tried to 'trip him up' with some old ones but he knew most of them.

Another thing I remember was him showing me how to put a plastic coating on the handles of pliers/side cutters. First you got several ball-point pen cases (preferably the same colour), then you broke them up into small pieces and put them in a suitable container. Next you added an appropriate amount of trichloroethylene and waited till it dissolved the plastic. When the mixture was nice and goeey, you immersed the handles and got a good coating and left them to dry. This last part was

repeated several times until you achieved the desired thickness of plastic. It works, I've tried it several times.

When Hughie was in Hamilton he started making home-made wine. The local Technicians Social Club started a Home Brew club and Hughie was an avid member. He would come along on the tasting nights with exotic brews - rose petal, Dandelion and ---- Onion !!!!! I tasted the onion brew and it was bloody awful, I'd never tasted such a putrid drop but Hughie thought the result was reasonable - needless to say he didn't win the prize that night.

AMATEUR RADIO IN SPACE: SUMBANDILASAT NOW OSCAR 67

The South African Amateur Radio satellite SumbandilaSat <<http://www.arl.org/?artid=9183>> has been officially designated SumbandilaSat-OSCAR 67, or simply OSCAR 67. Last weekend, the satellite was successfully activated and tested with a number of contacts made through its transponder, but it is not yet open for routine use. The satellite was launched from the Baikonur Cosmodrome <<http://www.russianspaceweb.com/baikonur.html>> in Kazakhstan on September 17. The main payload is a multi-spectral imager, but the satellite also carries an Amateur Radio component consisting of a 2 meter/70 cm FM repeater. After SumbandilaSat is fully commissioned, the repeater will be activated with an uplink at 145.880 MHz and a downlink at 435.350 MHz; there will also be a voice beacon at 435.300 MHz. The transponder mode will be controlled by a CTCSS tone on the uplink frequency. SumbandilaSat was sponsored by the Department of Science and Technology and was built at SunSpace <<http://www.sunspace.co.za/>> in cooperation with the Stellenbosch University <<http://www.sun.ac.za/>>. In addition to the SA-AMSAT amateur module, the satellite carries Stellenbosch University's radiation experiment and software defined radio (SDR) project, an experiment from Nelson Mandela Metropolitan University and a VLF radio module from the University of KwaZulu-Natal.

National System Award 2010

OPERATORS WANTED!

The National System Award is being run by Hamilton, Branch 12, from Friday, 1 January 2010 to Sunday, 7 February 2010. To make this a success, we need amateurs to operate as ZL1UX, the branch callsign, on the National System daily, to give out points to those who make contact. The times when this happens during

the day can be varied and at a time that is convenient to the operator, but we should have somebody on between 7pm and 9pm (may be on two occasions) for those who have to work during the day. This is not an onerous task, as it can be done from your home and each occasion should only last for about 10 minutes. There are however two criteria, that you hold an Amateur Operators Licence and that you are a member of Branch12. If you are able to assist please send an email to (Gavin ZL1GWP) - zl1gwp@nzart.org.nz - with your name, callsign and the day/s you are able to participate. If you would like to know more please also contact Gavin at the previous email address.



Annual Club BBQ

Saturday 5th December,
at the clubrooms,
with the BBQ being fired up at 12 noon.

BYO drinks & food to eat.

All club members and others welcome to attend.

Hamilton Amateur Radio Club

National System Award 2010 - Historic Places

Award Notification

National System Award 2010 - Historic Places, is presented by The Hamilton Amateur Radio Club, Branch 12 NZART in association with the New Zealand Historic Places Trust. Based upon the original idea by Wellington VHF Group this is a FUN award available to all amateurs to demonstrate the coverage and use of the National System, to promote our history and category 1 Historic places.

The award will run from 1 January 2010 to 7 February 2010.

Points will be allocated for:

1. Contact any Amateur in each NZART Branch area (excluding Branches in recess) via the National System **1 point**.
2. Contact ZL1UX, official station of Hamilton Amateur Radio Club, Branch 12 via the National System **3 bonus points**.
3. Contact any Amateur operating from a Category 1 Historic Place (as listed in the Historic Places Trust Register, available from www.historic.org.nz approx 940 sites) via the National System **1 point**.
4. Contact any Amateur whilst operating from a Category 1 Historic Place (as listed in the Historic Places Trust Register, available from www.historic.org.nz approx 940 sites) via the National System **1 point**.

Points are cumulative and each site may only be listed once. Only one branch or historic site may be logged per contact. As evidence of contact the log must record the registry number of the site available from the Historic Places Trust Website www.historic.org.nz. See document 'NS2010 Award Notes' for accessing the Register available from <http://z11ux.tripod.com/nsaward.htm>.

The Branch List being used for the Award is available from <http://zllux.tripod.com/nsaward.htm>.

Participants are requested to note the following key points:

- A number of the Historic Places are private property; therefore participants MUST respect the private property. It is not necessary to enter any private property to log the contact. Participants are expected to be in near proximity to the Historic Place, not on the site.
- There are no definitive boundaries between branches, so participants need to determine which branch they are in, to log the point. This distance will vary for different parts of the country. Only one branch can be logged per contact. Branches in recess DO NOT count.
- Participants are encouraged to learn about the NZART branches and the places that define our history through visiting the Category 1 Historic Places.
- Have FUN, a safe and enjoyable holiday period.
- The award is available in electronic format or hard copy.

Send a log of contacts with; date, time, Callsign and first name of contacted person, NZART Branch name or Historic Places Trust Register Number of the site, for each contact, and preferred award format (electronic or hard copy) to;

The Award Custodian

Hamilton Amateur Radio Club

PO Box 606

HAMILTON 3240

or E-mail <branch.12@nzart.org.nz> with NS2010 in the subject. Applications close 7 March 2010.

Upcoming Happenings & Events

| <i>Date</i> | <i>Happenings & Events</i> |
|-------------------------|--|
| 31st Oct-1st Nov | Bridge to Bridge (AREC) |
| 31st Oct—8th Nov | Rhododendron Festival Award |
| 1st November | Straight Key Night |
| 2nd November | HF Net, 3.575 MHz, 19:30 |
| 3rd November | VHF Net, 146.525 MHz, 20:00 |
| 8th November | NZART HQ Info-Line |
| 9th November | HF Net, 3.575 MHz, 19:30 |
| 10th November | VHF Net, 146.525 MHz, 20:00 |
| 10th November | Break-In copy due |
| 14th November | Boat Anchor Sprint |
| 14th November | GlobalSET (AREC) |
| 16th November | HF Net, 3.575 MHz, 19:30 |
| 17th November | VHF Net, 146.525 MHz, 20:00 |
| 18th November | General Meeting at clubrooms |
| 21st November | NI Secondary Schools Cycle Champion- |
| 21st November | General Meeting at Astronomical Society |
| 22nd November | NZART HQ Info-Line |
| 23rd November | HF Net, 3.575 MHz, 19:30 |
| 24th November | VHF Net, 146.525 MHz, 20:00 |
| 29th November | NZART Official Broadcast |
| | |
| | |

5th December—Annual Club BBQ
5th December—KDMG Twin Sprint Digital Contest
5-6 December—VHF+ Field Day Contest
6th December—NZART HQ Info-Line
16th December—General Meeting
20th December—NZART HQ Info-Line
20th December—NZART Official Broadcast
1 Jan-7 Feb 2010—National System Award 2010
17th January 2010—NZART HQ Info-Line
7th February 2010—NZART HQ Info-Line
17th February 2010—Club AGM
21st February 2010—NZART HQ Info-Line
27-28 February 2010—Jock White Memorial Field Days
28th February 2010—NZART Official Broadcast
March 2010—VHF mini-convention
6 March 2010—Paengaroa Junk Sale
13th March 2010—Colville Connection (AREC)
27th March 2010—Wellington Radio Expo
6-9 May 2010—WRC Rally New Zealand (AREC)
5-7 June 2010—NZART Conference (Auckland)
August 2010—Hamilton Market Day
21-22 August 2010—Lighthouse Weekend—ILLW
September 2010—Kairangi Hillclimb (AREC)
22-25 April 2011—VHF Convention (Wellington)
4-5 June 2011—NZART Conference (Upper Hutt)

Hamilton AREC Section News

The bridge to bridge

On the 31st of October and the 1st of November, a great bunch of amateurs took the challenge of the bridge to bridge, for some it was just another year, for a couple of amateurs it was a new challenge. This year saw the use of 5 start boats during the event, I'm sure Raymond ZL1RGM was getting good at dismantling and re-establishing his station, on the start boats.

It saw the use of the realigned ST SP, which seemed to handle the radio traffic without a problem. There were a few patches that were difficult to obtain coverage, but they were the usual patches, which could be overcome by antenna direction experimentation.

Base was mostly operated by Gavin ZL1GWP, with assistance from Sutton ZL4QJ and others that dropped by, the rescue boat was manned by David ZL1TCE on Saturday, and Cameron ZL1CNM on Sunday. We had 11 operators for the Saturday and 16 on the Sunday, with the extra going in on the Cambridge to Hamilton leg of the long race.

We had a good turn out of operators, Gary ZL1GA had not long had his license, and after about 5 minutes of meeting him, I had him in a boat as well, sorry about dropping you in the deep end, but with my gear, a quick how-to from the side of the river, we had another operator on the water. Well done.

We had Dave ZL1DK and Bob ZL1BBZ from Auckland, Paul ZL1AGS from Cambridge and David ZL1DGK from Tauranga also assisting with the event.

The only incident that I was aware of was a skier had met a log just outside of grantham street.

I would like to thank all of you who assisted the section with this annual event, the organisers of the event have passed on their thanks.

Operators involved:

Raymond ZL1RGM, David ZL1TCE, Cameron ZL1CNM, Gavin ZL1GWP, Sutton ZL4QJ, Tom ZL1TJA, Robin ZL1IC, Laurence ZL1LD, Mike ZL2MGS, Grant ZL1MAN, Bob ZL1BBZ, Colin ZL2CMC, David ZL1DK, David ZL1DGK, Gordon ZL1VGL, Paul ZL1AGS, Gary ZL1GA, Phil ZL1PK.

I am sorry if I have missed anybody out.

jono

ZL1UPJ



AREC Event Operators Page

| | | |
|--|------------------------------|--------------------------|
| Rally NZ/Possum Bourne Rally | Saturday 6-9 May 2010 | 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 | Saturday 31st October and Sunday 1st November 2009 | Organiser : ZL1UPJ |
| <u>Position</u> | <u>Saturday Operator</u> | <u>Sunday Operator</u> |
| Base | ZL1GWP & ZL4QJ | ZL1GWP & ZL4QJ |
| Start Boat | ZL1RGM | ZL1RGM |
| Rescue Boat | ZL1TCE | ZL1CNM |
| X-Band | | ZL1UPJ |
| A. | Ngaruawahia/ Taupiri | ZL1TJA |
| | Start/Finish at Point | ZL1IC |
| B. | Ngaruawahia Ramp | ZL1LD |
| C. | Ngaruawahia W/S | ZL2MGS |
| D. | Horotiu | |
| E. | Pukete Ramp | ZL1BBZ |
| F. | Days Park | ZL1UPJ |
| G. | Fairfield Bridge | ZL1TCE |
| H. | Malcolm St | |
| I. | Narows | |
| J. | Field Days | ZL1VGL |
| K. | Between Pipe and F/Days | |
| L. | High Level Bridge | ZL1DK |

| | | | |
|----------------------------|------------------------------------|---------------------------|--------------------------|
| Kairangi Hill Climb | Sunday September 2010 | | Organiser : ZL1IC |
| <u>Position</u> | <u>Operator</u> | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| School Cycling | Saturday 21st November 2009 | | Organiser : ZL1IC |
| <u>Position</u> | <u>Operator</u> | <u>Position</u> | <u>Operator</u> |
| 1. | | 5. | |
| 2. | | 6. | |
| 3. | | 7. | |
| 4. | | 8. | |
| Colville Connection | Saturday 13th March 2010 | | Organiser : |
| <u>Position</u> | <u>Primary Operator</u> | <u>Secondary Operator</u> | <u>Other Operator</u> |
| Base | ZL1PK | ZL1DGK | ZL1LD |
| Stony Bay | ZL1TNO??? | Sandy??? | |
| Fletcher Bay | | | |
| Hill 1 | ZL1IC | | |
| Hill 2 | ZL1TCE | | |
| Fantail Bay | ZL1UPJ | Arthur | |
| Stand By | | | |

For Details about and to help with 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: Installation of part of The Tasman International Geospace Environment Radar (TIGER—Unwin) near Invercargill.
<http://www.tiger.latrobe.edu.au/index.html>

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