

The Dummy Load

Official Bulletin of The Cambridge A.R.C. (Swarc Inc)
-serving the community since 1964

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Meetings

Meetings held at 8:00 P.M. on the second Monday of the month, Board Room Preston Arena (Bishop St at Hamilton St.) No meetings in July and August. Visitors always welcome.

Club Net

VE3SWR repeater 146.790 Mhz every Wednesday at 2100R (9PM local)

Issue No. 150 Nov. 2014



**VE3SWA
DXCC HONOR ROLL
(335/335)
WAZ, WAC, WAS.**

Next Meetings

Second Monday of every month
Preston Arena Boardroom at
8:00pm

Mon June 09, 2014

Mon Sep 08, 2014

Mon Oct 20, 2014

Mon Nov 10, 2014

Mon Dec 08, 2014

CLUB NEWS

The meeting began at 20:02 with 14 members present.

- Minutes read by Bob, VE3MF
Accepted by Clarence, VA3FC
and Gerry, VE3NXV

Treasurer's report presented by Hugh VE3IHM.

Report accepted by Jeff, VA3WIF and seconded by Scott, VE3ANT.

Old Business:

- Tom VE3MAH has ordered 2 more 6803's for stock for the repeater.
- Past contest results are being retrieved. Steve VE3USP will supply some old contest results.
- Club Contest Coordinator discussed resulting in a motion by Gerry VE3NXV and Shawn VE3PSV to approach Robin VE3OAV for his interest in the volunteer position.

New Business:

- Motion to continue annual donation to CNIB for \$25. Steve VE3USP and Gerry VE3NXV
- Hall rental renewal for \$81.98, changes will be needed for some dates.
- Tom reported expenses of \$12.83 for archival file folders.
- Fraser Cooper resistor assortment available
- Dell Dimension computer available from Tom VE3MAH
- Scott VE3ANT offered 2- 3 amp, 4 amp surge power supplies.

Bob VE3MF relayed offer by Eric VE3EI to come to a meeting to give a presentation, he has a number of topics that he can present. Bob will approach him for a list of topics.

New Business—continued...

Note: Ontario Phone Net on Nov. 2. 7 P.M. will return to the fall and winter frequency of 3.745 MHZ. They have been operating for the spring and summer on 7.065 MHZ.

Meeting was closed at 20:37 by a motion from Brian, VE3ESW.

Present at Meeting-: Members:

VACBE Calvin Benoit
VE3IHM Hugh Martin
VA3MP Mike Pap
VA3WIF Jeff Rombough
VE3USP Steve Nyul
VA3CF Clarence Fatt
VE3ESW Brian Lowery

VE3MF Bob Kernohan
VE3MAH Tom Franks
VE3NXV Gerry Allen
VE3SKX Ken Meihm
VE3JWK Joe Ketchabaw
VE3PSW Shawn Gartley
VE3ANT Scott Buell

Guests:

None



RADIO NEAR SPACE: AUSTRALIAN FLOATER PICO BALLOON HERD IN THE UNITED STATES

A light weight micro power ham radio floater balloon launched in Australia has been heard in the United States as we hear from WIA Newsman Graham Kemp, VK4BB:

A party-type Pico balloon carrying a payload was launched from Melbourne on Saturday October the 18th and tracked to Tamworth News South Wales, between Sydney and Brisbane.

It was launched by Andy Nguyen VK3YT who says that during that flight solar powered Pico balloon PS-23 balloon payload was heard on WSPR as far away as the United States by W8AC James Martin in Ohio.

The tracking of the 25-Milliwatt balloon involved stations in VK1, VK2, VK3, VK5, VK6, VK7 and ZL1 using Olivia and JT65 on 30m and 20m.

Andy VK3YT says PS-23 landed near Tamworth to be recovered by a team of Scouts from the local JOTA, lead by Ashley VK2XSO and Ron VK2HRD.

It was launched again on Sunday but this time with Payload number 2 using JT9. That flight landed in the Tasman Sea on Sunday night.

Andy VK3YT says the tests performed by the two payloads proved the viability of using JT9 and JT65 types of weak signal digital modes for balloon telemetry.

15 year old HAM Works Cyclone HUDHUD EMCOMM

Taking time off from school, Tom K. Jose, VU3TMO was stationed in the emergency response control room set up at Visakhapatnam Police Commission. There he spent hours collecting messages from other team members spread over the cyclone affected areas that he passed on to the administrators in charge of relief measures.

VU3TMO who is a first year student at Little Flower Junior College received his amateur radio license at the age of 13. Together with the first response team he operated under adverse conditions, often skipping meals and spending long hours on the radio, waiting for messages. Some days VU3TMO and the others in the team handled upward of 500 health, welfare and direct relief messages directly related to the cyclone.

Tom K. Jose, VU3TMO comes from a ham radio family. According to his page on QRZ.com, his parents are VU2JOS and VU3LMS, his brother is VU3TNI and his grandfather is VU2ACN. He is a member of India's National Institute of Amateur Radio and the Dayton Amateur Radio Association and one of the youngest active radio amateurs in his nation

4M Moon Orbiter Signals “Quite Weak,” Onboard Messages to Loop

10/27/2014

It’s getting to be more challenging to receive the JT65B transmissions from the recently launched 4M (Manfred Memorial Moon Mission) lunar payload. The 13-character onboard messages posted from around the world prior to launch were expected to be transmitted this week and will be repeated. On October 25 Ghislain Ruy, LX2RG, of LUXspace said signals from the 4M payload were quite weak.

“This is not due to a loss of power, as telemetry shows normal parameters, but to the attitude of the last stage that places a deep [null] of the radiation pattern in the direction of the Earth.” He expressed the hope that Earth’s movement with respect to the inertial attitude of the spacecraft’s last stage would yield better results in the days ahead.

“The 4M is becoming a real challenge now, and receiving the signals during flyby will be quite an achievement,” he said. He said those attempting to hear the 2 meter (145.980 ±Doppler shift) downlink signal will need high-gain antennas. He predicted that signals will be 4 dB weaker when 4M is in the vicinity of the moon.

Radio amateurs have been encouraged to receive and report the spacecraft’s signals at <http://moon.luxspace.lu/receiving-4m/>

There is a tracking calculator can be found here: <http://moon.luxspace.lu/tracking/> A 4M payload blog also is available here: <http://moon.luxspace.lu/blog/>

More than 2 dozen Earth stations have been capturing the 4M datastream on a near-continuous basis. Another 100 have registered to file reports with the 4M data warehouse.

A Chinese Long March 3C/G2 rocket carried the Manfred Memorial Moon Mission (4M) lunar flyby experiment into space at 1759 UTC on October 23, on its way to a lunar transfer orbit and a return to Earth in about 9 days. You can watch the video here: <https://cloud.luxspace.lu/public.php?service=files&t=c7cc065cd4757e1ba570521e3f40b4c2> and also read the description of the experiment here: <https://ukamsat.files.wordpress.com/2014/09/lxs-4m-eme2014-a4-v3.pdf>

Radio amateurs in Oceania and Europe were among the first to report hearing the JT65B signal from the onboard Amateur Radio payload. Lunar flyby is to occur, nominally, on October 28, and the Amateur Radio package will transmit continuously throughout the voyage.

During the lunar flyby, the spacecraft will be about nearly 248,000 miles from Earth and between 7440 and 14,480 miles from the Moon. The 4M Amateur Radio payload is transmitting a *WSJT* JT65B beacon and telemetry on 145.980 MHz.

The October 23 launch represents the third phase of China’s lunar exploration program. The Chang’e-5-T1 mission is aimed at validating technologies for a future lunar sample return probe. If successful, the mission will mark the first successful re-entry of a Chinese space vehicle into Earth’s atmosphere.

The mission honors the late Professor Manfred Fuchs, founder of LUXspace’s parent, the OHB group, who died earlier this year. The 4M-LXS ham radio package carries up to 2500, 13-character digital messages into space for re-transmission. The International Amateur Radio Union ([IARU](http://www.itu.int)) is a partner in the experiment.

Have you worked them? DX news for the month

7X, Algeria:

Garti/7X2RD, Noury/7X2JV, and Abder/7X4RJ will put the special call 7U60AR on the air during November on 40-10m in all modes. QSL via 7X2RD.

9N, Nepal:

Toshi, JA8BMK, will be active again holiday-style as 9N7BM between Oct. 31 and Nov. 20. He plans to focus on 160 and 80m. QSL via JA8BMK.

FG, Guadeloupe:

TO10RR will be active from Guadeloupe (NA-102) between Nov. 2 and 16, drawing attention to the 10th Route du Rhum, a 3000-mile regatta for single-handed sailors between St. Malo (France) and Pointe-a-Pitre (Guadeloupe). QSL via FG8NY (d).

FT/T, Tromelin Island:

Seb/F5UFX, Michel/FM5CD, Flo/F5CWU, Franck/F4AJQ, Fred/F5ROP, and Vincent/F4BKV plan to hand out a "new one" to all DXers from Tromelin Island (AF-031, DIFO FR-006, WLOTA 0383). QRV from Oct. 30 until Nov. 10 as FT4TA, running 5 stations. QSL via OQRS, LoTW, direct via F1NGP (d). <http://www.tromelin2014.com/en>

JW, Svalbard:

Alexander, UA3IPL, will be active again as JW/UA3PIL from Spitsbergen Island (EU-026) for 4 months, beginning on Oct. 30. QRV on HF in CW, SSB, RTTY, PSK31, and JT65, running 100W and a G5RV. QSL via RW6HS (d).

VK, Australia:

The first convoy of ANZAC troops left the port of Albany on 1 November 1914, bringing troops from Australia and New Zealand to the war in Europe. Members of the Southern Electronics Group (SEG) will honour the memory of these troops on the air with the call VI6ANZAC (sanctioned by the Department of Veteran Affairs).

Members of the South Pacific Contest Club (VK3HF) run the special event call VI16AC in the context of the 16th Asian Football Cup between Nov. 1 and 31 January 2015. QSL via VK3HF.

VU4, Andaman and Nicobar Islands: Please note that this is one of the calls VE3SWA needs for the complete DXCC

Krish/W4VKU, Chetz/VU3DMP, and Pai/VU2PAI will put the rare Campbell Bay (AS-033, WW Loc.NJ66) on the air between Nov. 3 and 13. QRV as VU4KV with two stations. For those who are after DXCC bandfills (vs the rare IOTA) the group also refers to a larger expedition to Neil Island (AS-001). QSL via W4KVU.

<http://www.vu4kv.info/>