



THE PROPAGATOR

8 Donner St.
Holmdel, NJ 07733
Editor: Bob Buus, W2OD

DECEMBER 2007

GSARA MEETING WED. DEC. 5

The next regular meeting of the GSARA will be held on **Wednesday, December 5 at 8:00 PM** at the MARS building in Fort Monmouth. You are encouraged to come early to enjoy the refreshments and the informal eyeball conversations. We look forward to seeing YOU at the meeting!

FORT MONMOUTH PASSES

If you have not yet renewed your Fort Monmouth pass, send Frank, W2XYZ the required data which Frank will forward to Charlie Sleight of the Physical Security Office who will have it entered into the Ft. Monmouth computer. It is only after the data is in the computer that you can pick up the pass at the Oceanport visitor center. The passes are good for six months.

THE GSARA WEBSITE NEEDS YOU

Bruce McLeod is getting tired after being the GSARA webmaster for ten years. He says he wants to let someone else have that pleasure. Just think – you can be your own boss and at the same time you can have the freedom to put your own creativity into action. You don't have to know HTML nor do you need sophisticated web page creation software. You can create pages in Microsoft Word and save them as HTML files. We already have an Internet Service Provider who gives us free space for our pages. Then you need is an FTP program to ship the pages off to the site. If you are interested in grabbing this opportunity or learning more about it, email Bruce at k2qwx@yahoo.com.

GSARA HOMEPAGE

<http://www.monmouth.com/~gsara>

GSARA FIELD DAY RESULTS

The final results of Field Day 2007 are published in the December QST, pages 82-91. Our K2USA 1A station came in 22nd out of 167 1A stations nationally. K2USA was the top 1A station for the Northern New Jersey section. We did very well for being in the bottom of the sunspot cycle.

We made 1024 QSOs and our 12 participants racked up a final score of 3380. Congratulations to all who participated. With a few more participants, we can do even better next year.

If you haven't participated in Field Day, you have missed a very enjoyable aspect of amateur radio. I particularly encourage newcomers to come out and try your hand at logging and operating. There are always a few old timers around who will be glad to show you the ropes and help you get your feet wet.

IRAQ BACK ON THE AIR

Diya Sayah, YI1DZ, President of the Iraqi Amateur Radio Society (IARS), announced November 13 that effective November 20, all Amateur Radio activity will be "back to normal" in Iraq. Sayah said, "All Amateur Radio operators in Iraq who carry a valid Iraqi license will be able to use their radios according to regulations of IARU Region 1 and the IARS." Amateur Radio activity in Iraq was suspended in March of this year, with the suspension affecting both Iraqi citizens as well as any foreigners -- including military personnel and contractors -- who have been on the air from Iraq. The request to halt all ham radio activity and the issuance of licenses in Iraq originated with a letter from the Iraqi Ministry of Defense to Iraqi Prime Minister Nouri al-Maliki as part of a new security plan, Sayah said.

From *The ARRL Letter*, No. 46, November 16, 2007

GSARA OFFICERS

President	N2LXM	Jeff Harshman	922-0816
Vice Pres.	W2FA	Kevin Wagner	279-0532
Secretary	W2OD	Bob Buus	946-8615
Treasurer	W2XYZ	Frank Wroblewski	942-7705
Engineer	W2HTS	Howard Suffill	460-1885
Trustees	KG2NV	Don Pingitore	229-2925
	W2OD	Bob Buus	946-8615
	WA2FVL	Jack Keating	264-7670

PROPAGATOR AVAILABLE BY E-MAIL

Would you like to help the finances of GSARA and at the same time get your issue of *The Propagator* a few days earlier? You can get every issue e-mailed to your computer every month by simply giving your e-mail address to Bruce McLeod, K2QXW and request *The Propagator* electronically. Bruce's e-mail address is <k2qxw@yahoo.com>

BADGES AND PATCHES

All new GSARA members get a name badge. However, you may order additional ones by getting a Badge Order Form from our Secretary, **Bob Buus, W2OD**, filling it out and turning it in to Bob with your \$5.00 payment.

We also now have patches available at all meetings and they cost \$3.

OUTGOING QSL CARDS

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). We then send them as a group at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W2 incoming bureau, aren't you?

PROPAGATOR NOW ON THE WEB

The *Propagator* is available as a PDF file at:

<http://www.monmouth.com/~gsara/prop.pdf>

It is installed on the web about two weeks after the direct mailing to members.

EDITOR'S NOTES

This issue of *The Propagator* is a bit later than usual. I made an unplanned trip out to Oregon to see my dying sister for the last time and didn't get back until Thursday, November 29. That left little time to get this issue together and in the mail before the end of the month. Hopefully, you will still get it before the December 5 meeting.

The Field Day results were published in the December QST (see page 1) and GSARA did very well operating K2USA as a 1A station. Hats off to the dozen or so GSARA members who made this success possible. We could do even better next year with a better sunspot cycle and more helpers.

The open house at Fort Monmouth on Nov. 7 went quite well. The MARS studios were cleaned up better than they have been for years and we had a nice flow of visitors. Special thanks to Frank, W2XYZ and Howard, W2HTS for making this clean-up happen and for helping with the tours.

You will find a copy of the latest GSARA Roster included with this issue of *The Propagator*. I hope that there are no serious errors in it but if you do find something wrong, please let me know so I can change my records.

Finally, as the year draws to a close, you might start thinking about renewing your membership in GSARA. Dues will be due on January 1 and Frank, W2XYZ won't mind one bit if you pay them a bit early. A year's membership is only \$15 (\$20 if you want *The Propagator* mailed to you) so start saving your pennies and renew ASAP.

Remember if you change your e-mail address; please be sure to inform Bruce McLeod, K2QXW.

As always, I appreciate feedback or material for *The Propagator*. The deadline for the January issue is December 15.

73 de Bob, w2od@arrl.net

GSARA CALENDAR

<http://www.monmouth.com/~gsara/calendr.htm>

HUDSON DIVISION HOME PAGE

<http://www.hudson.arrl.org>

MINUTES OF NOVEMBER 7 MEETING

By Bob Buus, W2OD, Secretary

The meeting was called to order at Fort Monmouth by President Jeff Harshman, N2LXM, at 8:06 PM. After the pledge to the flag, all members present introduced themselves. There were 13 members and one guest present. The guest was Bill Shockley, NJ2H from Tinton Falls.

Treasurer's Report

Treasurer Frank Wroblewski, W2XYZ made a report for October. A motion was made by Peggy Struening and seconded by Nena, N2WAY to accept the report. It was unanimously accepted.

Secretary's Report

A motion was made by Tom, N2VFK and seconded by Howard, W2HTS to accept the minutes of the October meeting as published in the November Propagator. The motion was unanimously accepted.

A letter was received from the Monmouth County Park System requesting a donation. We will not respond to it.

Old Business

Jeff, N2LXM reviewed the success of the Infoage haunted hotel for three weekends in October. Thanks to lots of volunteer effort, it raised money to support Infoage.

Ray, W2NXG presented the following slate of candidates for office for 2008:

President: Jeff Harshman, N2LXM
Vice President: Kevin Wagner, W2FA
Secretary: Bob Buus, W2OD
Treasurer: Frank Wroblewski, W2XYZ
Chief Engineer: Open

After gentle arm twisting, Howard Suffill, W2HTS agreed to run as Chief Engineer. Nominations were then opened to the floor. A motion was made by Tom, N2VFK and seconded by Ray, W2NXG to close the nominations. There being only one candidate for each position, the secretary was authorized to cast the vote electing all of the above officers for 2008 terms of office.

Jeff, N2LXM had determined that the market price for a clean, working HW101 was around \$200 to \$250. Since the condition of the HW-101 owned

by GSARA is unknown and it is being sold with no guarantee, a motion was made by Bruce, K2QXW and seconded by Bob, W2OD to sell the HW-101 for \$100. The motion passed unanimously.

In the interest of reducing expenses, it was decided to no longer send JSARS a complimentary issue of The Propagator each month and to change honorary member Steve Mendelsohn, W2ML from mailed copy to an electronic copy via e-mail.

New Business

Jim, K2EI asked Jeff, N2LXM to see if there would be interest in operating the November SSB sweepstakes from the MARS station on November 17 and/or 18. Both Nena, N2Way and Ray, W2NXG expressed an interest.

Kevin, W2FA brought information about the battleship New Jersey (www.nj2bb.org) in Camden and wondered if there was interest in GSARA arranging a trip. Some members of the Neptune club are planning to go on November 17. Tom, N2VFK advised that there is ferry service across the river to Philadelphia where one could also visit the Olympic. Kevin will look into it further.

Interest was also expressed in arranging a trip to ARRL headquarters in Newington, CT in the spring. Jeff, N2LXM mentioned the failed attempt last fall by OMARC but will look into it again.

Public Service

Tom, N2VFK summarized the Public Service events for 2007. All organizations asking for amateur radio communications were supported. Tom expressed his thanks to all who helped this past year. He suggested that if every member would participate in at least one event per year, it would spread the effort out so no one person would be burdened with several events.

Announcements

Nena, N2WAY reminded member to not leave any food in the building. We have evidence of rats or mice getting into some condiments and leaving a big mess. These rodents will be taken care of, but we must not leave any food to attract others.

Jeff would like to see Twin Lights activated next year for Lighthouse/Lightship weekend. Although we are not as welcome to go there as in the past, perhaps by starting early, proper permission could be obtained.

Closing

A drawing was held for the main door prize which was won by Nena, N2WAY. Subscriptions to World Radio Magazine were donated to Ray, W2NXG; Bruce, K2QXW; Tom, N2VFK; and Frank, W2XYZ.

There being no further business, a motion was made by Tom, N2VFK and seconded by Lou, W2HAM to close the meeting which was closed at 9:02 PM.

ARRL ON-LINE AUCTION SUCCESSFUL

The Second Annual ARRL On-Line Auction <<http://arrl.auctionanything.com/>> came to a close. This year's Auction had more than 180 items to gawk at, gaze on and drool over. ARRL Business Services Manager Deb Jahnke, K1DAJ, said that she was thrilled with the responses the Auction received during its 10 day run. The 181 items offered on the Auction received more than 1100 bids. She said she was surprised at "the vastly increased number of diverse donation items we've received from our members. These donations were greatly appreciated and added to the flavor of the event."

Items in this year's Auction included a 1971 ARRL publication "Operating an Amateur Radio Station," which had an opening bid of \$3 and went for \$11, to an ICOM IC-7800 HF and 6 Meter Transceiver with an opening bid of \$6865, eventually going for \$8830 in 11 bids.

There were many one-of-a-kind items in the auction. Joe Walsh, WB6ACU, guitarist for the rock band the Eagles, donated an autographed copy of the new Eagles album, "Long Road Out of Eden"; each member of the band will autograph the album cover. This is the Eagles' first album of all new material since 1979. The album had an opening bid of \$50 -- 24 bids later, it sold for \$980. Another rock-and-roll legend was part of this year's Auction: Peggy Sue Gerron, K5PSG, the "Peggy Sue" from the famous Buddy Holly song. This item, a framed 45 RPM record of "Peggy Sue," signed by the real Peggy Sue, had a starting price of \$50, and sold for \$477.

One of the most popular items from last year's ARRL On-Line Auction made another appearance this year -- the famous ARRL Lab Junque Boxes. These boxes had a starting bid of \$50 and have

almost anything you could ever possibly imagine in them. No one except the ARRL Lab staff knows what exactly is inside each box, but each is guaranteed to be full of things that the Lab staff consider valuable (but keep in mind that they collect just about anything). Together, these five Junque Boxes raised \$800 in the Auction.

John Dilks, K2TQN, author of QST's "Old Radio" column, donated a Tuned-Grid Tuned-Plate 75 W Transmitter that eventually sold for \$575. This is truly a collector's piece with its restored new knobs, new 52 tube, tube socket and new trim moldings. See his Nov. 2007 "Old Radio" column <http://www.arrl.org/public/prodrev/pdf/oldrad.pdf> to read about this great piece of vintage equipment.

If you are interested in Emergency Communications, then the ARRL On-Line Auction had a great deal for you: Emergency Starter Go Kits. These kits include an abundance of everything today's amateur needs when heading out to assist served agencies. Each kit contains an ICOM IC-V82 Sport handheld transceiver, package of six AA batteries, a black tote bag to hold all your gear, a reflective vest, an "ARRL Repeater Directory" and an "ARES Field Resources Manual." Opening bids for each of the 13 kits was \$105, and together raised \$1941.

A lucky bidder won the chance for a little DX with the vacation spot on St Croix, donated by Vicky Thorland Oster and George Oster, NP2N (air and ground transportation not included). This premier Amateur Radio station is equipped with multiple transmitters/receivers, amplifiers, antennas and on-site electrical generation capability and is located about 100 meters above sea level with wonderful antenna views to EU, USA and Asia. There are three operating stations with a triband beam for 10, 15 and 20 meters, and a dipole on 40, 80 and 160 meters. The "Pro Station" is a station for the serious operator and contesters; it features an ICOM 757 and Ameritron AL1280. The "DX Station" is a fun station for the operator who wants ease of operation, combined with the fun of operating as DX and features a Kenwood TS-440. The "Fun Station" features an Alinco DX70 and is the place to be if you just want to have fun, try out QRP from a DX location or spend as many hours as you wish rag chewing around the world.

From The ARRL Letter, No. 44, November 2, 2007

FCC “ADMONISHES” AMBIENT re BPL

The FCC, in a letter to Yehuda Cern, Chief Engineer for Ambient Corporation, concluded their investigation into whether Ambient's BPL operation caused "harmful interference" to Amateur Radio stations in Briarcliff Manor, New York. The Commission found that "Ambient's BPL operation has violated the radiated emission limits of Section 15.109" of the FCC Rules "and the terms of its experimental license, call sign WD2XEQ." The FCC's letter went on to say that "we hereby admonish Ambient." No findings were made, however, as to whether or not the system actually caused interference to Amateur Radio, and the Enforcement Bureau left open the issue of future experimental BPL operations at Briarcliff Manor.

Since Ambient's Briarcliff Manor facility is operating under an experimental license, the FCC says Ambient "is subject to the operating conditions contained on its license." Condition 4 of its license requires that Ambient file a progress report six months from the date of the grant. Additionally, Condition 5 provides that the progress report '... should include, but is not limited to, a description of measurements and results demonstrating compliance...' with the radiated emissions limits of Section 15.109."

Ambient submitted a progress report on February 5, 2007. The report indicated that Ambient "[h]as notched out its signals on the Amateur Radio bands, demonstrating significant advancements..." but the report did not address Condition 5, according to the FCC.

The FCC's Spectrum Enforcement Division sent letters to Ambient in March and May 2007, directing Ambient to "provide the results of any measurements made prior to the filing of its February 5, 2007 report to demonstrate compliance with the radiated emission limits of Section 15.109."

Ambient's attorneys filed responses to the FCC's March and May letters in June. Ambient's response, the FCC said, indicated that Ambient "had made compliance measurements as required by the Division." Ambient's response further stated that they had found "an older, first generation BPL unit in its network was malfunctioning, causing the device to exceed the applicable Section 15.109 emission limits," and that it "immediately took the

equipment out of service." Ambient, the FCC said, "indicated that [they] would soon replace the remaining first generation equipment in its network with newer equipment." In August, Ambient told the FCC that it has replaced all its first generation BPL equipment with second generation equipment.

The FCC found that Ambient's BPL operation in Briarcliff Manor "has operated in violation of Section 15.109 of the Commission's Rules. Accordingly, we admonish Ambient for violating Section 15.109 of the Commission's Rules and the terms of its experimental license, call sign WD2XEQ." The FCC cautioned Ambient that any violations of future license provisions "may result in additional sanctions."

ARRL first filed a complaint with FCC concerning the radiated emission violations at Briarcliff Manor on October 12, 2004. Subsequent complaints were filed on December 17, 2004; January 7, 2005; March 17, 2005; January 6, 2006; March 29, 2006, and June 1, 2007 each of which reported ongoing harmful interference caused by the unlawful operation of Ambient's BPL system at Briarcliff Manor. The complaints included technical reports on the result of tests conducted by ARRL staff. Each of the complaints requested that the Ambient system be required to cease operation immediately. The FCC took no action on any of these complaints, and it did not address any of them in its letter to Ambient.

Still before the Commission is the question of whether or not Ambient's experimental authorization should be renewed for a further period. Ambient has had an experimental authorization in Westchester County, New York since June of 2002. The most recent experimental authorization expired August 1, 2007. On July 24, Ambient filed an application to extend their authorization for an additional two-year period. ARRL filed an informal objection to that application on July 25, arguing that Ambient should be held to the same standard as the other BPL companies that are subject to the rules governing BPL, such as inclusion of the BPL system in the public database, so that victims of BPL interference can determine its source.

ARRL Chief Executive Officer David Sumner, K1ZZ, said, "It is gratifying that the FCC finally has recognized that Ambient's BPL operation in Briarcliff Manor violated both the FCC rules and

the terms of its experimental license, has made these violations a matter of public record and has admonished Ambient; however, this action comes three years and one month after the ARRL first brought Ambient's violations to the Commission's attention. This is hardly the speedy resolution that the Commission has promised, and to which its licensees are entitled."

ARRL General Counsel Chris Imlay, W3KD, concurred with Sumner, saying "The FCC's admonishment to Ambient was 'too little, too late' from the FCC's Enforcement Bureau. It continues the disappointing inaction that we have come to expect from FCC in addressing blatant cases of harmful interference. Must Amateur Radio operators wait more than three years for some relief after filing legitimate complaints of harmful interference? The FCC has consistently refused to even acknowledge, much less investigate, the complaints of harmful interference at Briarcliff Manor, because it wants no bad news about BPL."

From *The ARRL Letter*, No. 46, November 16, 2007

DXCC APPROVES NEW OPERATIONS

ARRL DXCC Manager Bill Moore, NC1L, reports that the 2007 9U0A DXpedition to Burundi and the 2007 D2DX DXpedition to Angola have been approved for DXCC credit. "If you had cards rejected for either of these operations, please send an e-mail to the ARRL DXCC Desk <DXCC@arrl.org> and you will be placed on the list for update," Moore said.

All operations from Vlad Bykov's, UA4WHX, last trip have been approved for DXCC credit. These operations include, but may not be limited to, the following: 5X1VB -- Uganda; 9U0VB -- Burundi; 9X0VB -- Rwanda; D20VB -- Angola; D60VB -- Comoros, and J20VB -- Djibouti. Other operations include: 3DA0VB -- Swaziland; 5R8VB -- Madagascar; A25VB -- Botswana; C91VB -- Mozambique; ST2VB -- Sudan; Z2/UA4WHX -- Zimbabwe; V51VV -- Namibia, and OD5/UA4WHX -- Lebanon.

If you have any questions concerning these operations, or any questions about the ARRL DXCC program, please e-mail the DXCC Desk <DXCC@arrl.org>.

From *The ARRL Letter*, Nos. 44, 45; November 2, 9; 2007

IRISH AMATEURS GET 5 MHZ FREQS.

Four 3 kHz channels at 5 MHz are being granted to Irish amateurs, according to the Irish Radio Transmitters Society (IRTS), Ireland's IARU Member-Society. These frequencies are centered on 5.280, 5.290, 5.400 and 5.405 MHz (the suppressed-carrier frequency for USB is 1.5 kHz lower). This follows extensive contacts with the military authorities and with the Commission for Communications Regulation (ComReg -- Ireland's equivalent of the FCC) by the IRTS. The facility will be available for an initial trial period of a year and individual application is required. The power allowed will be 23 dBW (200 W) to an antenna with not more than 0 dBd gain (e.g. a dipole). Some or all of these channels are also in use in the UK, Iceland, Finland, Norway, Canada and the US. Some administrative details remain to be attended to by ComReg but it is anticipated that the first variations of licenses could be issued at the end of November or early December. The IRTS stresses that individuals must apply to operate at these 5 MHz frequencies. Permission for a 5 MHz beacon has been granted; a call sign and frequency are in the works.

From *The ARRL Letter*, No. 46, November 16, 2007

AARP ENDORSES AMATEUR RADIO

Amateur Radio and the ARRL received a significant public relations boost from the AARP. Promoting life-long learning for their members, Susan Ayers Walker wrote "Finding Your Hobby Online" for the AARP Web site. What's the first and most prominent activity listed to keep the mind active and functional? Amateur Radio! Here's what the article had to say: "Long before the internet was created, the Amateur Radio network was the way people from all over the world could connect. Amateur, or ham, Radio operators created vast social networks by talking long distances to other radio enthusiasts, making distant friends and exchanging calling cards. It is this linkage of radio enthusiasts that is ready to help communication flow in case of a disaster or weather emergency. The ARRL has an informative website with lots of news and information, plus info on getting started or finding a chapter in your area." See http://www.aarp.org/learntech/computers/life_online/finding_your_hobby_online.html.

From *The ARRL Letter*, No. 45, November 9, 2007

NOTES ON CALENDAR (see reverse side)

Large call letters denote birthdays e.g., **N2TQG** December 1. All times in EST.

Nov. 30-Dec. 2 – **ARRL 160 Meter Contest**, CW from 6 PM Friday to noon Sunday. See Nov. QST, p. 102 or www.arrl.org/contests

December 1 - **OMARC VE Session** at 10 AM at Diana Site on Marconi Road.

December 2 and every Sunday – **InfoAge Marconi Hotel** open from 1 to 4 PM on Marconi Road in Wall. Exhibits by QCWA, OMARC, Antique Radio, Broadcaster's Hall of Fame, etc. \$5 donation requested.

December 3 - **Monmouth County ARES Net** meets on 147.045 +600 at 7:30 PM.

December 4 – **Middletown Pancake House Luncheon** at noon in back room to left. All are invited.

December 4 – **Old Barney ARC Meeting**, 7:30 PM at Ocean Acres Community Center in Manahawkin, NJ. See <http://www.obarc.org>

December 4 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 PM.

December 5 – **GSARA Monthly Meeting** at Ft. Monmouth MARS station at 8 PM.

December 6 – **Holiday City ARC meeting** at 7 PM at Holiday City South Clubhouse in Toms River.

December 7 and every Friday – **Lunch at Blue Swan Diner**, Rt. 35 South, Ocean Township at noon.

December 7-9 – **ARRL 10 Meter Contest** from 8 PM Saturday to 8 PM Sunday. See Nov. QST, p. 102 or www.arrl.org/contests

December 7 – **WIAW Qualifying Run** at 10 PM (10-35 wpm). See December QST, pp. 76 and 78.

December 8 – **OMARC Meeting**, 9:00 AM at the Diana Site on Marconi Road, Wall, NJ.

December 8 – **Middletown Amateur Radio Club meeting** at 10 AM in Union Beach Police Annex (Municipal Building) on Poole Avenue.

December 10 – **Monmouth County RACES** on 147.045 +600 at 7:30 PM. RACES members only.

December 11 – **VE Test Session** at Croyden Hall, Leonardo section of Middletown at 7:00 PM. For more information, contact Mario Sellitti, N2PVP at 732-787-7184 or n2pvp@n2pvp.com

December 13 – **Jersey Shore Amateur Radio Society (JSARS)** meeting in Riverview Park Recreation Building, Rt. 527 and Riverwood Drive in Toms River at 7:30 PM.

December 16 – **Holiday Spirits Homebrew CW Sprint** from 4 PM to 8 PM. See Dec. QST, p. 78 or www.qrparci.org

December 18 – **WIAW Qualifying Run** at 9 AM (10-35 wpm). See December QST, pp. 76 and 78.

December 20 – **JSARS VE Test Session** at 7:30 PM Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoino, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

December 22 – **Neptune Amateur Radio Club Meeting** at 9 AM at Irv's Deli, Route 33, Neptune.

December 25 – Merry Christmas!

Dec. 28-29 – **RAC Winter Contest CW/Phone** from 8 PM Friday to 7:59 PM Saturday. See Dec. QST, p. 79 or www.rac.ca/service/infocont.htm

December 31 – **Monmouth County RACES** on 147.045 +600 at 7:30 PM. RACES members only.

Dec. 31-Jan. 1 – **ARRL Straight Key Night** from 8 PM Monday to 7:59 PM Tuesday. See Dec. QST, p. 98 or www.arrl.org/contests

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					160 Mtr. Contest	N2TQG 1 OMARC VE 160 Mtr. Contest
2 160 Mtr. Contest InfoAge	3 ARES/RACES 7:30	4 Pancake House Old Barney ARC QCWA News 9 PM	5 GSARA Mtg	6 Hol. City Mtg.	7 Blue Swan 10 Mtr. Contest CW Qual. Run	OMARC Mtg. 8 10 Mtr. Contest MARC Mtg
9 10 Mtr. Contest InfoAge	10 RACES Net 7:30	11 Croyden VE 7 PM QCWA News 9 PM	12	13 JSARS Mtg.	14 Blue Swan	15
16 InfoAge Homebrew CW	17 ARES/RACES 7:30	18 CW Qual. Run QCWA News 9 PM	19	20 JSARS VE	21 Blue Swan	Neptune Mtg 22
23 InfoAge	24 RACES Net 7:30	25 Christmas Day	26	27	28 Blue Swan RAC Contest	29 RAC Contest
30 InfoAge	31 SKN	SKN				



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