



The Repeater The Repeater



The Livonia Amateur Radio Club

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On behalf of the Club I want to thank everyone who participated or stopped by the W8F, Edmund Fitzgerald Memorial Special Event station at Dossin Great Lakes Museum on Belle Isle on November 5th. We had great member participation in an event that showcased amateur radio and the Livonia Amateur Radio Club, not only to the pages of hams we contacted, but also to all of the locals who stopped by to see us in action. Remember, the greater the member participation in an event the better the event and all the more fun it is for all.

The Edmund Fitzgerald Special Event was the last major club operating activity for the 2011 season and it was everything it could have been. Mother Nature cooperated with dry, sunny, mild temperatures, accompanied by a moderate breeze off the Detroit River. The G5RV was erected in an inverted V along with the 6BTV multi band vertical by the time the museum opened - record time! The club's new Yaesu 450D was given its first shake down on the CW station while our original 450AT took care of business on phone. Everything was put in place by noon, and a great operation was started by a phone contact with a station in Germany. The operators of both modes did a great job of compiling nice lists of contacts by the end of operations.

This year we had a welcoming table set up at the entrance of the room, which we used for displaying Amateur Radio and LARC literature. The table was manned by members encouraging visitors passing by to come in and visit our operations. They explained our hobby and our special event station, and what it all represented. Because of the welcoming table we saw an increase in visitors to the event, many of whom stopped to ask questions about Amateur Radio and the Club. We even had a videographer stop by to capture our operation. There are photos of the 2011 Edmund Fitzgerald Special Event on Pages 7 and 8.

IMPORTANT DATES

General Meeting Nov 28
DUES ARE DUE!!
Christmas Party Dec 10

When we have an event open to the public with lots of identifiable members participating we present a much better image. And while image is not everything it certainly helps when we are trying to showcase amateur radio and bring new members to hobby and LARC.

There is no meeting in December but I really hope to see many of you at the LARC Christmas party at John (KN8B) and Judy Dellinger's home on Saturday December 10th. Everyone is asked to bring a covered dish to pass and to RSVP with the Dellingers by Friday December 2nd. See Page 2 for more information.

NEXT MEETING

7:30 pm
Monday Nov 28, 2011
Livonia Civic Center Library
TOPIC: QSLing by N8MR

To everyone, I send the best of wishes for a happy and safe Holiday Season, a Very Merry Christmas and the very best of everything in the coming New Year.

73
John, N8DXR

**LIVONIA REPEATER ▪ 145.35 PL 100HZ ▪ ECHOLINK W8WQU-R
LARC 2-METER NET EVERY THURSDAY 8:00PM LOCAL TIME**

FCC Releases New Rules for 60 Meters

The ARRL Web Site 112/1/2011

<http://www.arrl.org/news/fcc-releases-new-rules-for-60-meters>

On November 18, the FCC released a Report and Order (R&O), defining new rules for the 60 meter (5 MHz) band. These rules are in response to a Petition for Rulemaking (PRM) filed by the ARRL more than five years ago and a June 2010 Notice of Proposed Rulemaking (NPRM). In the R&O, the FCC replaced one of the channels in the band, increased the maximum authorized power amateur stations may transmit in this band and authorized amateur stations to transmit three additional emission designators in the five channels in the 5330.6-5406.4 kHz band (60 meters).

The Amateur Radio Service in the United States has a secondary allocation on 60 meters. Only those amateurs who hold General, Advanced or Amateur Extra class licenses may operate on this band. Amateur stations must not cause harmful interference to -- and must accept interference from -- stations authorized by any administration in the fixed service, as well as mobile (except aeronautical mobile) stations authorized by the administrations of other countries.

Here is a summary of the changes. Please note that these changes have not yet taken effect. These new rules will take effect 30 days after they are published in the Federal Register. The ARRL will announce on its website when the rules are published.

The frequency 5368.0 kHz (carrier frequency 5366.5 kHz) is withdrawn and a new frequency of 5358.5 kHz (carrier frequency 5357.0 kHz) is authorized.

The effective radiated power limit in the 60 meter band is raised by 3 dB, from 50 W PEP to 100 W PEP, relative to a half-wave dipole. If another type of antenna is used, the

station licensee must maintain a record of either the antenna manufacturer's data on the antenna gain or calculations of the antenna gain.

Three additional emission types are authorized. Data (emission designator 2K80J2D, for example, PACTOR-III), RTTY (emission designator 60H0J2B, for example, PSK31) and CW (150HA1A, i.e. Morse telegraphy by means of on-off keying). For CW, the carrier frequency must be set to the center frequency. For data and RTTY the requirement to transmit "only on the five center frequencies specified" may be met by using the same practice as on USB, i.e. by setting the suppressed carrier frequency of the USB transmitter used to generate the J2D or J2B emission to the carrier frequency that is 1.5 kHz below the center frequency.

Automatic control on data and RTTY is not permitted; a control operator must be in a position to exercise either local or remote control over the transmitter. The FCC noted that "amateur operators must exercise care to limit the length of transmissions so as to avoid causing harmful interference to Federal stations." This is a very important caveat: If a Federal station requires amateurs to cease using a frequency, the amateur station must be able to do so without delay.

A reasonable person might wonder what the difference is between data and RTTY. According to former ARRL Chief Technology Officer Paul Rinaldo, W4RI, there used to be a difference, but there's not much of one today. "Years ago, a B designator (telegraphy for automatic reception [i.e. narrow-band direct-printing telegraphy emissions]) meant decoding and display on a teletypewriter (TTY) or other mechanical machine," he explained. "A D designator signified transmission of data, telemetry or telecommand intended for data processing or just storage for possible future use. When computers or computer-like devices were introduced to emulate RTTY transmission and/or reception, the line

(Continued on page 3)

LARC Christmas Party !!!

John, KN8B, and Judy Dellinger invite you to attend the annual LARC Christmas Party, Saturday, 10 December, at their home in Plymouth. You are asked to bring a covered dish. Please respond by Friday, 2 December, if you plan to attend at 734-454-5661.

DUES ARE DUE !!!

Dues for 2012 are due! You can pay your dues at the November General meeting or mail them to either the club's post office box (LARC, P.O. Box 51532, Livonia, MI 48151) or to Doris, KD8DXJ. LARC Dues expire on January 1st, so make sure you pay 2012 dues by the end of this year.

(Continued from page 2)

between telegraphy and data transmission blurred to the point of little or no practical distinction.”

PACTOR-III and PSK31 are cited in the new rules as examples of data and RTTY emissions, respectively, that will be authorized; however, in paragraph 28 of the R&O, the Commission states that amateur stations will be permitted to use “any unspecified digital code, subject to the requirements of Section 97.309(b).” Therefore, as a practical matter it appears that any J2D data emission is to be permitted up to a bandwidth of 2.8 kHz, provided that care is exercised to limit the length of transmissions.

Hams Invited to Participate in a Research Project on the ISS

The ARRL Web Site 11/21/2011
<http://www.arrl.org/news/hams-invited-to-participate-in-a-research-project-on-the-iss>

The Central Research Institute of Machine Building (TSNIIMASH) in Russia is conducting a series of space plasma experiments in order to evaluate the shape of previously observed “dead” zone, or shadowing due to the firing of an onboard arcjet plasma source. Radio amateurs are invited to participate in the space plasma experiment “Shadow” onboard the International Space Station (ISS) on November 25-28 and December 2-5.

According to the AMSAT-UK website, integrating of Electric Thrust (ET) onboard a spacecraft poses a certain set of problems, including electromagnetic compatibility of ET. One matter of interest is that highly ionized exhaust plumes of ET may scatter RF signals, producing large “dead” zone for communications. This plasma screening effect should be thoroughly studied before electric thrusters become standard onboard equipment. This experiment will help designers of future electrically

SpEX Time On	SpEX Time Off
November 25 at 1650 UTC	November 28 at 0825 UTC
December 2 at 1650 UTC	December 5 at 0825 UTC

propelled spacecraft to minimize the hazard of communication disruption by ET plasma plumes.

The experiment will use the ISS Amateur Radio 145.825 MHz FM AX.25 1200 bps packet radio downlink. The amateur packet radio technology in the SpEx “Shadow” -- as proposed by astronaut Alexander Kaleri, U8MIR -- will use the AX25 packets transmitted by “master stations” and reported by receiving Amateur Radio ground stations to track the effect of the plasma shadow.

If you would like to participate, you must register in advance. You can download any needed software here (AMSAT-UK web site - <http://www.uk.amsat.org>).

ARISSat-1 May De-Orbit in April 2012

The ARRL Web Site 11/15/2011
<http://www.arrl.org/news/arissat-1-may-de-orbit-in-april>

According to predictions from Mineo Wakita, JE9PEL, the ARISSat-1 satellite is due to re-enter Earth's atmosphere in early April 2012.

Launched from the International Space Station on August 8, the satellite is traveling in a low orbit and is steadily losing altitude. The rate of orbital decay may be accelerated by increasing atmospheric density caused by increased solar activity. With that factor in mind, some ARISSat-1 decay predictions suggest re-entry as early as February 1.

ARISSat-1 remains quite active, sending voice messages, digital telemetry and Slow Scan TV images. Amateurs have also been able to enjoy contacts through ARISSat-1's linear transponder despite the fact that the UHF antenna was apparently damaged prior to (or during) deployment.

Last month, AMSAT-NA announced a competition to see who can record the last bits of telemetry as ARISSat-1 makes its final plunge. To decode the CW or BPSK telemetry you must use the ARISSATTLM software for Windows or Mac OS. The CW signal is transmitted at 145.919 MHz and the BPSK signal appears at 145.920 MHz, plus or minus Doppler.

Fox News - Radio Days Are Back: Ham Radio Licenses at an All-Time High

<http://www.foxnews.com/scitech/2011/11/17/radio-days-are-back-ham-radio-licenses-at-all-time-high/>

[Ed: Enter the above link for an interesting story regarding the high number of amateur radio licenses. Includes video as well as print.]

Elmer Hotline!

Starting out on a particular mode or stumped by technical problems with your equipment? Are you hesitant to bring up their problems at meetings or breakfasts? Bring your questions regarding a piece of equipment or a new mode to the Elmer Hotline: (President@livoniaarc.com). We will get you connected to someone who has the expertise you need.

Hamfests and Conventions

12/04/2011 | [L'Anse Creuse Amateur Radio Swap](#)

Location: L'Anse Creuse High School, Harrison Twp, MI

Sponsor: L'Anse Creuse Amateur Radio Club

Website: <http://www.n8lc.org/>

01/15/2012 | [Hazel Park 46th Annual Hamfest](#)

Location: Hazel Park, MI

Type: ARRL Hamfest

Sponsor: Hazel Park Amateur Radio Club

Website: <http://hparc.org>

02/05/2012 | [Winter Hamfest](#)

Location: Lorain, OH

Type: ARRL Hamfest

Sponsor: Northern Ohio Amateur Radio Society

Website: <http://www.noars.net>

02/19/2012 | [Livonia ARC's 41st Annual Swap & Shop](#)

Location: Livonia, MI

Type: ARRL Hamfest

Sponsor: Livonia Amateur Radio Club

Website: <http://www.livoniaarc.com/Swap.htm>

Livonia Amateur Radio Club Officers 2011

President - John Copeland, N8DXR

Vice President - John Mathey, K8AZT

Treasurer - Doris Kelterborn, KD8DXJ

Recording Secretary - Tas Foley, K8TAS

Public Information Officer - Mike Rudzki, N8MR

Repeater Trustee - Jerry Kaufka, W8WQU

2-Meter Net Manager - Dave Randall, KC8YWT

Equipment Manager - Al Clifford, NW8E

Safety Officer - Art Mumaw, W2EQX

ARRL VE Liaison - Bruno Walczak, WA8DHP

Volunteer Examiners;

K1QD, K8LCR, K8LU, KN8B, N8DXR, N8MR, NW8E, WA8DHP

DX NEWSCONTESTS

SABLE ISLAND, CY0. VE1AWW will be QRV as VE1AWW/CY0 from Oct 5 to Dec 31. Activity will be sporadic, as he will be operating in his spare time.

MAYOTTE, FH. Philip, F6GNT is QRV as FH8NX and will be on the island until March 2013. Activity is on 20 to 10 Meters SSB. QSL direct only to Philip Ward, 36 Totorosa 2, Labattoir 97610, Mayotte or eQSL.

NIUE, ZK2V. GM3WOJ will operate from Oct 21 to Dec 31. QSL via N3SL.

CHAD, TT8PK. F4EGS will be on the air in his spare time from Oct 25 to Dec 23. QSL to F4EGS direct or via the bureau.

TUVALU, T2. Six operators will be on 160 - 6 Meters as T2T from Nov 11 to Dec 6. They will be using CW, SSB, RTTY and PSK31. QSL via their OQRS.

MADAGASCAR, 5R8IC. F6ICX will be on the air from Nov 15 to Dec 17. e will be operating CW, SSB, RTTY and PSK63 with 100 watts. QSL to F6ICX either direct or via the bureau.

SOMALIA, 6O0DX. E70A will be operating from Nov 21 through Nov 30, 80 through 10 Meters CW, SSB and RTTY. QSL via K2PF.

SIERRA LEONE, 9L. German DX team will be signing 9L0W on 160 - 10 Meters from Nov 22 to Dec 4. They will be using CW, SSB, RTTY and PSK. QSL via DK2VW.

KENYA, 5Z. 5Z4HW will be the call sign used between Nov 23 and Dec 6. DL7DF will be on 160 - 10 Meters from Nov 22 to Dec 4. QSL direct to DL7DF or via the bureau.

UGANDA, 5X. G3RWF will be on the HF bands from Nov 23 to Dec 14. QSL direct to G3RWF or via the bureau.

JERSEY, GJ6UW. English and Japanese team will focus on the low bands (160, 80 and 40 Meters) from Dec 2 till Dec 7. QSL via M0BLF or LoTW.

ETHIOPIA, ET3AA. DXpedition that will be active from Dec 8 to Dec 13. They will be on 160 - 10 Meters, CW and SSB. QSL direct via N2OO.

BURUNDI, 9U3TMM. IV3TMM will be on the air from Dec 28 to Jan 4 on the HF bands using SSB and RTTY. QSL to IV3TMM via the bureau.

OGASAWARA, JD1BMH. JG7PSJ will be QRV from Dec 30 through Jan 7, 160 through 6 Meters, on CW, SSB and RTTY. QSL direct to JG7PSJ.

PALAU, T88OW. RA0FF will be on HF, focusing on 160 and 80 Meters and CW. QRV from Dec 30 to Jan 8. QSL direct to RA0FF.

FRENCH GUYANA, TO5G. French DXpedition team will be on the HF bands from Jan 2 to Jan 7. QSL via F5KDR.

TUVALU, T2HA. HA5AO and HA5UK will be on the air from Jan 12 through Jan 26 on 160 through 10 Meters, CW, SSB, RTTY and PSK. QSL via LoTW.

EAST KIRIBATI, T32AU. VO1AU will be QRV from Jan 17 to Feb 4. He will be on the HF bands. QSL via VO1MX.

PITCAIRN ISLAND, VP6T. Team lead by G3TXF will be QRV as from Jan 20 to Jan 29. They will be operating CW, SSB, RTTY on 160 through 10 Meters. QSL via LoTW or G3TXF.

SENEGAL, 6W7SK. F6BLP will be QRV from Jan 20 till Feb 3. Focus will be on the low bands. QSL via F6BLP.

MALPELO ISLAND, HK0NA. Multi-national DX team will be on 160 - 10 Meters. Dates of operation will be sometime between Jan 22 and Feb 22. Exact start date and duration are unknown..

WALLIS & FUTUNA ISLANDS, FW0R. HA0NAR and others will be on 160 through 6 Meters from Jan 24 to Feb 23. Focus will be on the low bands. Modes of operation will be CW, SSB, RTTY. QSL route is unknown at this time.

CQ Worldwide DX Contest, CW 0000Z, Nov 26 to 2400Z, Nov 27

South African Radio League Digital Contest 1300Z-1600Z, Nov 27

ARRL 160-Meter Contest (CW) 2200Z, Dec 2 to 1600Z, Dec 4

Troy (NY) Amateur Radio Association RTTY Melee 0000Z-2400Z, Dec 3

ARRL 10-Meter Contest 0000Z, Dec 10 to 2359Z, Dec 11

RAC (Canada) Winter Contest 0000Z-2359Z, Dec 17

OK (Czech) DX RTTY Contest 0000Z-2400Z, Dec 17

Amateur Radio Lighthouse Society (ARLHS) Christmas Lights QSO Party 0001Z, Dec 17 to 2359Z, Jan 1

Croatian CW Contest 1400Z, Dec 17 to 1400Z, Dec 18

Stew Perry Topband Challenge (160 Meter CW) 1500Z, Dec 17 to 1500Z, Dec 18

ARRL Rookie Roundup, CW 1800Z-2359Z, Dec 18

SARTG (Scandinavian Amateur Radio Teleprinter Group) New Year RTTY Contest 0800Z-1100Z, Jan 1

ARRL RTTY Roundup 1800Z, Jan 7 to 2400Z, Jan 8

DARC (Germany) 10-Meter Contest 0900Z-1059Z, Jan 8

North American QSO Party, CW 1800Z, Jan 14 to 0600Z, Jan 15

North American QSO Party, SSB 1800Z, Jan 21 to 0600Z, Jan 22

Hungarian DX Contest 1200Z, Jan 21 to 1200Z, Jan 22

CQ 160-Meter Contest, CW 2200Z, Jan 27 to 2159Z, Jan 29

SPECIAL EVENTS

Celebration of the 50th Anniversary of the Launch of OSCAR 1 Ham Sat

Nov 26-Dec 17, 0000Z-2300Z, W9O, Louisville, KY. Louisville Astronomical Society Radio Club. 14.260 14.030 7.245 7.030. QSL. Mark S. Williams, K9GX, POB 5973, Elizabeth, IN 47117. Various Amateur Radio clubs in Kentucky and southern Indiana also participating. www.stargeezerastronomy.com or louisville-astro.org

USS Wisconsin-Pearl Harbor Special Event

Dec 3-Dec 4, 1500Z-2130Z, N4WIS, Virginia Beach, VA. USS Wisconsin Radio Club. 14.264. QSL. N4WIS-USS Wisconsin Radio Club, PO Box 6682, Virginia Beach, VA 23456. www.n4wis.org

Sinking of the USS West Virginia, 70th Anniversary

Dec 3, 1300Z-1900Z, W8VA, Huntington, WV. Tri State Amateur Radio Association. 14.290 7.290. QSL. TARA, PO Box 4120, Huntington, WV 25729. USS West Virginia, Pearl Harbor, December 7, 1941.

2nd Annual Bethlehem Christmas Special Event Station

Dec 3-Dec 4, 1700Z-1700Z, WR4BC, Bethlehem, GA. Barrow Amateur Radio Club. 28.465 14.265 7.265 3.875. QSL. Barrow Amateur Radio Club, PO Box 951, Auburn, GA 30011. barrowhamradio.org

Pearl Harbor Commemoration

Dec 4-Dec 7, 1400Z-2200Z, W2W, Baltimore, MD. National Electronics Museum (K3NEM). 14.241 14.041 7.241 7.041. Certificate & QSL. W2W, PO Box 1693, MS4015, Baltimore, MD 21203. Other bands/modes possible, K3NEM will spot W2W. k3nem.org

Pearl Harbor Day

Dec 7, 1500Z-2245Z, W5KID, Baton Rouge, LA. Baton Rouge and USS Kidd Amateur Radio Clubs. Gen bands CW in QRP freqs 20 m SSB 40 m CW preferred other bands possible. QSL. W5KID, 305 S River Dr, Baton Rouge, LA 70802. www.lsu.edu/brarc/uss_kidd.htm

Pearl Harbor Day

Dec 7, 0000Z-2100Z, NI4BK, Wilmington, NC. Azalea Coast Amateur Radio Club. 14.250 7.250. QSL. Azalea Coast ARC, PO Box 4044, Wilimington, NC 28406. Battleship USS North Carolina will be on the air by members of the Azalea Coast ARC in the general band of 20m and 40m, SSB and CW. www.ac4rc.org

Pearl Harbor Remembrance

Dec 7, 1600Z-2100Z, N6N/KJ6LCP, Norco, CA. NSWC Corona Division Military Recreation Station. 144.230 28.400 21.310 14.310. QSL. NSWC Corona Military Recreation Station, QA11, PO Box 5000, Corona, CA 92878. www.qrz.com/db/kj6lcp

USS Lexington (CV-16) Pearl Harbor Day

Dec 7, 0200Z-1200Z, W5LEX, Corpus Christi, TX. South Texas Amateur Radio Club. 28.485 14.325 14.265 7.275. QSL. South Texas Amateur Radio Club, USS Lexington (CV-16) W5LEX, PO Box 2182, Corpus Christi, TX 78403. www.n5crp.org

WWII Battle of Wake Island, 70th Anniversary

Dec 9-Dec 11, 0000Z-2359Z, W6W, Santa Ana, CA. Anaheim Police Radio Club. 14.253 18.150 7.250. QSL. Mark McMullen, KM6HB, PO Box 27271, Santa Ana, CA 92799. www.qsl.net/w6apd

Pearl Harbor Remembrance Day; Fleet Marine Force Established 1933

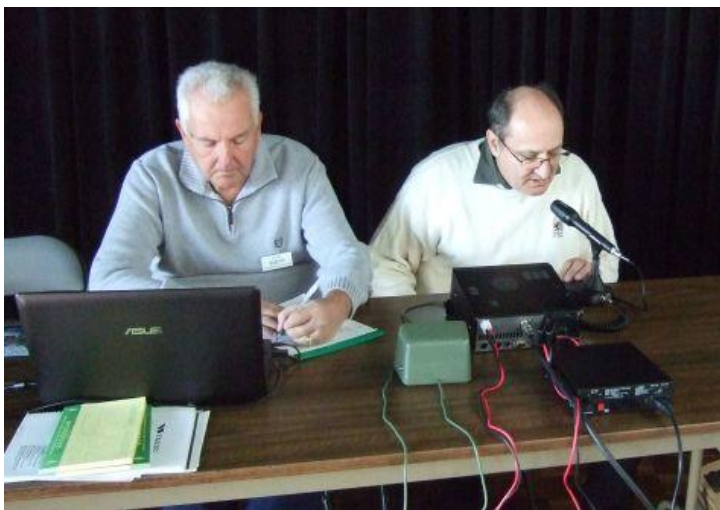
Dec 10, 1600Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Radio Operations Room. SSB 14.320 7.250 PSK31 14.070 D-STAR 012C 2 m 70 cm SOCAL rptrs. QSL. USS Midway Museum Radio Room, 910 N Harbor Dr, San Diego, CA 92101-5811. kk6fz@arri.net

Museum of Space History

Dec 10, 1500Z-2300Z, AK5D, Deming, NM. Mimbres Valley Radio Club. 21.270 18.150 14.270. QSL. Mimbres Valley Radio Club, PO Box 654, Deming, NM 88031. mimbresvalleyradioclub.com

Holidays from the Twin Christmas Cities of Nazareth and Bethlehem, Pennsylvania

Dec 10-Dec 11, 1400Z-0200Z, WX3MAS, Nazareth, PA. Christmas City and Delaware/Lehigh Amateur Radio Clubs. 21.365 14.265 7.270 3.850, PSK31 on 20 40 m, 10 15 m if conditions permit. Certificate. Christmas City Amateur Radio Club, RR 8 Greystone Bldg, Nazareth, PA 18064. www.dlarc.org or www.qrz.com/db/WX3MAS



Photos Courtesy Mike, N8MR



Photos Courtesy Mike, N8MR