



The Repeater The Repeater



The Livonia Amateur Radio Club

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President's Corner	1	<p>Welcome LARC members. Well I am sure all of you feel that summer went by way too fast. It seems like only a few days ago that the last vestiges of winter were yielding to spring and plans were being formulated about what to do during the coming summer. I hope everyone had a full and enjoyable summer with lots of successful radio time.</p> <p>We will start the fall season with two events in October. The LARC Night Out is Saturday October 8th at 6:00 PM. This is a fun event and a chance for old members and their guests to visit and to get acquainted with new members. Another event this month is the annual Free Press Marathon that takes place on Sunday on the 16th. This is a major international event and both the full and half marathons have been sold out. Volunteer Amateur Radio operators are always needed to man locations along the race course to keep the command center apprised of any situations from sick or injured runners to course control and security. Volunteers only observe and report and are not required to take any other actions. This is a worthwhile event that gives one an opportunity to use their radio skills in public service. To volunteer go to www.freepmarathon.com and then scroll down the left side to the volunteers square. Hold your cursor there and a "volunteer now" window will appear. Right click and scroll down to "ham radio" select and follow the instructions.</p> <p>On November 5th, we will have our annual special event station operating at the Dossin Museum on Bell Isle to remember to loss of the Edmund Fitzgerald. This is a great event that can give both experienced operators and those with no or limited experience the chance to operate in a contest environment. Besides radio operations there is time for members and friends to explore the Dossin Museum and enjoy the view of the Detroit River and the occasional freighter.</p> <p>I truly recognize that family, work and other personal obligations can limit how much one can participate in other activities. Never the less, I can't urge you enough to try to make room in very busy lives for LARC and our activities. Everyone's presence at our events, particularly ones involving radio activities, and our meetings is appreciated and important to the success of those activities. Every one brings assets, both big and small, to the event that adds to it's success and the enjoyment of everyone participating. I want to thank all of the members of LARC for their time and energies in making this the great organization that it is.</p>	
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IMPORTANT DATES			
Sept Meeting	Sept 26		
LARC Nite Out	Oct 8		
Detroit Marathon	Oct 16		
Dossin Special Event	Nov 5		
NEXT MEETING			
7:30 pm			
Monday Sept 26, 2011			
Livonia Civic Center Library			
East Wing Meeting Room			
TOPIC: ARISSat-1			
by K8YYZ		73 John N8DXR	

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

HB9DRV Sells Rights to Ham Radio Deluxe

The ARRL Letter 09/18/2011

<http://www.arrl.org/news/hb9drv-sells-rights-to-ham-radio-deluxe>

Simon Brown, HB9DRV, has sold the rights to his popular Ham Radio Deluxe software package to a group consisting of Mike Carper, WA9PIE, Randy Gawtry, K0CBH and Rick Ruhl, W4PC. All three principals have more than 25 years of experience with radio data communications. Rick Ruhl is the president of W4PC Software, Inc whose products include the PakRatt, PKTerm and Radio Operations Center software suites. Randy Gawtry is the president of Timewave Technology Inc whose products include the PK and DSP families of data controllers and other commercial data products. Mike Carper is an experienced Fortune 500 technology executive, educator and featured speaker in the areas of wireless technologies and IT Service Management.

“Simon has done a fantastic job with this software,” Carper said. “His vision for integrating rig control, rotor control, logging, digital modes, and satellite operations into a single integrated feature-rich software suite has captivated the ham radio community. We’d like to see this product continue in a way that respects the hard work put into this package by Simon and others, maintaining that vision, while delivering timely fixes and feature enhancements in the future, will be the number one priority.”

“After many years writing the Ham Radio Deluxe software it’s necessary to take a break and hand the whole project over to another team,” said Simon Brown, HB9DRV. “The support effort required has become more than I can realistically manage, with many thousands of users, new radios and other hardware appearing all the time and unexpected changes to the infrastructure used by Ham Radio Deluxe such as QRZ.com, I no longer have any time at all for other projects. As some of you will know, I have formed a company called SDR-RADIO.com GmbH and I am now working in the Software Defined Radio arena with RFspace. This is the technology of the future; a future I want a part of. In 2012 I plan to return to England and get back on the air, something I haven’t done much during the last 25 years.”

The new owners are in the process of building a development environment for Ham Radio Deluxe and they plan to begin by addressing some of the bugs in the existing “To Do List” for an upcoming version 5.1 release. The 5.1 release will be made available at no charge to registered users when completed..

The K7RA Solar Update

The ARRL Letter 09/23/2011 (excerpts)

<http://www.arrl.org/news/the-k7ra-solar-update-183>

Compared to the uneventful past few years, sunspot activity was truly remarkable this week. The daily sunspot number for September 16 was 173. We haven’t see numbers like this in more than six years, when the sunspot number was 181, way back on July 5, 2005 in Solar Cycle 23. The solar flux reached 150.1 on September 18. Just six months ago it was slightly higher, 153 on March 7 and 155 on March 8, but prior to that the only higher number was 157.3 on August 22, 2005, about 7 weeks after the sunspot number of 181. The average daily sunspot numbers for the past reporting week (Thursday through Wednesday, September 15-21) we up over 45 points from the previous week to 137, and average daily solar flux rose nearly 22 points to 144.

Sunspot numbers for September 15-21 were 167, 173, 138, 144, 128, 101 and 108, with a mean of 137. The 10.7 cm flux was 140.7, 143.1, 144.8, 150.1, 140.9, 144.3 and 144.2, with a mean of 144. The estimated planetary A indices were 5, 2, 32, 5, 3, 6 and 2, with a mean of 7.9. The estimated mid-latitude A indices were 4, 2, 14, 5, 2, 6 and 2 with a mean of 5.

Currently, the solar flux and planetary A index forecast from USAF/NOAA calls for a solar flux of 155, 160, 165 and 170 on September 23-26, 175 on September 27-30, 130 on October 1, and 135 on October 2-5. These flux values through September 30 are quite a bit higher than the values predicted a day earlier in The ARRL Letter. The planetary A index is predicted at 5 on September 23, 15 on September 24-25, 5 and 8 on September 26-27, 5 on September 28-30, 8 on October 1 and 5 on October 2-7. Geophysical Institute Prague sees quiet conditions September 23-25, quiet to unsettled September 26-27 and quiet again on September 28-29.

Today is the fall equinox in the Northern Hemisphere, in fact I am writing these words at the exact time of the equinox, right at 0905 UTC on September 23.

Rob Steenburgh, KA8JBY, says the Space Weather Prediction Center now has a Facebook page

New Date for LARC Nite Out: Saturday, Oct. 8, 2011

Payment is due on September 26, 2011 at the general meeting.

See Page 3 for more details.

(<http://www.facebook.com/pages/NOAA-NWS-Space-Weather-Prediction-Center/232532740131296>). NW7US has a similar Space Weather and Radio Resources page here (<https://www.facebook.com/spacewx.hfradio>).

Jeff Hartley, N8II, of Shepherdstown, West Virginia, wrote: "I knew September 16 was probably going to be a good day when 4W6A was the first signal I heard on 21.295 MHz at around 1200; he was not workable, running Europeans I couldn't hear. Twenty meters sounded fair, logging BP100 (Taiwan) and BA8AG. Then a quick check of 15 meters at 1245 showed 4W6A up to about S-4-5 and looking for 'North America only'; after several tries, he was in the log, he was busy. By 1300, European signals were loud on 15, and 12 meters was opening up to Europe. I logged 4K9W, OM5DP and OE3GCU on 12 meters, then checked 10 meters at 1314 and found YL2SM S7 running 4/4 Yagis and a KW; he was getting very few CQ answers. At 1416, I found E21EJC in Thailand signing with a station on 28.005 MHz CW. Kob was about S-5-6 and gave me a '599, very loud' report -- what a surprise! Eventually at 1418, I had a nice CW run of stations on 10 meters as far as the Ukraine and as far north as Poland and Hungary and west as The Netherlands. I found good signals on 12 meters from RA3CQ and SK2AT. Starting at 1457, I was able to run Europeans on 10 meter phone, with some having S9+ signals as far west as EI3JS, north to DJ8CG and east to 9A1HDE. After a long break, I returned to some of the best late-day 12 meter conditions to Europe I can ever remember. Between 1856 and 1933, I ran off about 25 European SSB QSOs, including SM5FQQ and six Polish stations. Everybody was loud; I never got down to the weak ones until right at the end. Then, a check of 10 meters yielded a SSB QSO with EC1KR at 1935 who was S-7.

"Jon Pollock, K0ZN, of De Soto, Kansas writes: "I was on 17 meters this evening (September 18) and found signals were extremely strong to both east and west late into the evening. I worked WA2MDF at about 9:30 PM CDT and he was running well over S-9 with 100 W and a 170 feet end-fed long wire. About 30 minutes later, I worked K6GVG in San Diego at about 10:15 CDT. He was peaking 20 dB over S-9 at times! These are some of the strongest signals I have heard in a long time on 17 meters at this hour of the night -- and from both coasts nearly simultaneously. The band was very quiet (low noise), which usually means very long skip. I also heard some weak Japanese and Australian stations in the CW band. My antenna is nothing fancy: a 128 foot center-fed Zepp at 40 feet. Conditions tonight reminded me of the 'good old days', the previous sunspot peaks."

Reg Beck, VE7IG, of Williams Lake, British Columbia (at 52.13 degrees north latitude), wrote: "I was up in the middle of the night and checked 12 meters around 0930 on September 17 here in VE7. It was wide open over the North Pole into Europe and Central Asia. I logged a lot of Europeans and some Asians in Zone 17. I couldn't get through the big pileup to JT1DX, but he was loud at times. The band was up and down with very loud signals suddenly dropping down, then coming up with flutter, then clearing, then flutter again, and then weak. The opening lasted past 1000 then went out."

Julio Medina, NP3CW, of San Juan, Puerto Rico, wrote: "Today (September 16) we had a good opening to Europe with signals from 559 to 579 on 28.050 MHz from 1445-1737. Stations worked: OH1ND, IK1RGK, SP1KQR, DF9KF, DL1KUR, DL7UAG, DL7HC, OK1DKO, 4X4FW, DL6DCD, DL1DAW, DJ3EF, DL5MGH, DJ2RG, DL/KJ4HFR, DJ1YU, G0TBD, DF8BY, DL6HRW, HB9US, F8GFA, F8PEU, DH8IAB, EI7CC, F6GVC, EA4RU/M, F5DM, M0BAU, G4GGZ, OK1BN, GU4HUY, M0CYR and G4EVR."

All times listed are UTC, unless otherwise noted.

Ed: What all this means is, for the past week or two, the high bands (20 through 10 Meters) have provided good openings around the world. If you haven't been on these bands lately, definitely check them out.

New Date for LARC Nite Out **Saturday, October 8th**

Starting this year, LARC Nite Out is being moved to Saturday, October 8th at 6pm at Subu's Leather Bottle on 20300 Farmington Road (just south of Eight Mile Road). You have your choice of Filet Mignon, Chicken Marsala or White Fish Filet. Cost per person will be \$15 and all payments will be due by the LARC general meeting on September 26th. Doris will collect the RSVP and payments.

This is a great get-together with fellow LARC members and their families. Hope to see you there.

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

Other Functions

Repeater Trustee - Jerry Kaufka, W8WQU

2-Meter Net Manager - Dave Randall, KC8YWT

ARRL VE Liaison - Bruno Walczak, WA8DHP

Volunteer Examiners -

K1QD, K8LCR, K8LU, KD8NWE, KN8B, N8DXR, N8MR, WA8DHP

Edmund Fitzgerald Special Event November 5th at Dossin Museum

On Saturday, November 5th, from approximately 11am till 4pm, the Livonia Amateur Radio Club will be hosting special event station W8F at the Dossin Great Lakes Museum on Belle Isle. Setup will start at approximately 10am. Come on down and help us set up, operate or tell the public about our avocation. We will have both Phone and CW stations set up.

Also, Bruno has arranged it through the ARRL that the callsign W8F is available for all club members to use from Friday Nov. 4th through Sunday Nov. 6th. You can use the callsign to operate from home or elsewhere. Please send all W8F logs to Bruno after the event.

Hamfests and Conventions

10/16/2011 | [Kalamazoo Hamfest](#)

Location: Kalamazoo, MI

Type: ARRL Hamfest

Sponsor: Kalamazoo ARC & Southwest Michigan AR Team

Website: <http://www.KalamazooHamFest.com>

10/23/2011 | [USECA Hamfest](#)

Location: Sterling Heights, MI

Type: ARRL Hamfest

Sponsor: Utica Shelby Emergency Communication Association

Website: <http://www.usecaarc.com>

11/19/2011 | [Fort Wayne Hamfest](#)

Location: Fort Wayne, IN

Type: ARRL Convention

Sponsor: Allen County Amateur Radio Technical Society

Website: <http://www.fortwaynehamfest.com>

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/>

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>

Free Press Marathon Needs Volunteers

Sunday, October 16th is the date of the annual Free Press Marathon. Runners will be making their way through the streets of downtown Detroit, Windsor and Belle Isle. Ham Radio volunteers are needed for health and safety communications throughout the course and the sponsors are asking local ham radio operators for their assistance.

You can volunteer by going to the marathon web site: <http://www.freepmarathon.com/volunteers.htm> and click on "Click Here To Volunteer Now" at the bottom of the page. On the Volunteer Signup Page, go to the bottom of the list and under "Event Day - Sunday, October 16, 2011" choose "Ham Radio." Please note that the time slot is between 7:00am and 2:00pm. Be sure to include your callsign when signing up.

For more information, the contact is Kevin Gilday (greventradio@gmail.com)

This is not an event specific to the Livonia Amateur Radio Club, but brings together hams from across the tri counties. If you can spare the time, volunteer and help out a worthy cause.

2-Meter Net Notes

During the open discussion period of our 2-Meter Net on Thursdays is also a great time to contact someone that could help answer a question or give you a hand with a problem you might be having with your equipment.

Please remember to that Net Control Operators are always needed. Contact Dave KC8YWT to get your name on the list and for more information. It's fun and you will help maintain our 2-meter Net.

For those wanting to get an introduction to traffic handling tune into the SE Michigan Traffic Net 10:15 pm nightly on 146.760 Mhz The Spirit of 76 repeater.

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.

DX NEWSCONTESTS

SURINAME, PZ. PA1LP will be QRV as PZ5LP from Sept 18 to Oct 15. Activity will be on 40 to 10 Meters using BPSK and some RTTY. He will be using a G5RV and 100 watts. QSL to home call direct, via the bureau or via eQSL.

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.

MARIANA ISLANDS, KH0. W6HGF is QRV as W6HGF/KH0 until Sept 30th. Activity is mainly on RTTY. QSL to home call.

VANUATU, YJ., N6MUF will be QRV as YJ0ABP from Sept 26 to Oct 14. QSL via DJ0YI. Also NQ7R will be active from at the same time. QSL to his home call.

ROTUMA, 3D2R. Large DXpedition will be QRV from Sept 27 to Oct 7. They will on 160 - 10 Meters using CW, SSB, RTTY, PSK31 and SSTV. QSL direct to YT1AD.

MARKET REEF, OJ0X. DXpedition will be QRV from Sept 27 to Oct 11. Two stations will be on 160 - 10 Meters using CW, SSB and RTTY. QSL direct to OH2BH.

EAST KIRIBATI, T32C. Five Star DX Association will be QRV from Sept 28 to Oct 26, operating from Christmas Island. Focus will be on the low bands (30 - 160 Meters) QSL direct to G3NUG.

VANUATU, YJ0VK. DXpedition by group of Australians will be operating 160 through 10 Meters from Sept 30 to Oct 12. They will operate on CW, SSB, RTTY and PSK31. Focus will be on WARC bands. QSL via VK2CA direct of via the bureau.

REUNION, FR. DJ7RJ will be operating as FR/DJ7RJ from Oct 4 - 26, using 500 watts and an inverted L. Focus will be on low bands. QSL direct via DJ7RJ.

TEMOTU, H40. SP5DRH will be active as H40KJ from Oct 8 - 21. Focus will be on 80 and 160 Meters, and possibly higher bands such as 15 and 17 Meters. CW and RTTY. QSL via ARRL Logbook of the World (LoTW).

TAHITI, TX3T Team of Ukrainian ops will be on the air as TX3T from Oct 16 - 19. They will be on 160 - 6 Meters, on CW, RTTY and SSB. They will set up an Online QSL Reporting System (OQRS).

SOUTH COOK ISLANDS, E51NOU. N7OU will be on Roratonga Is from Oct 17 to Nov 7 on CW. QSL via N7OU.

GUINEA. 3XY1D. DXpedition will be using five stations on the HF bands from Oct 18 to Nov 1. QSL DL7DF direct or via the bureau.

MARQUESAS, TX7M. DXpedition will be QRV from Oct 19 to Nov 1, operating from Nuku Hiva Island. Bands of operation will be 160 - 6 Meters. Modes will be CW, SSB and RTTY. QSL via their Online QSL Reporting System (OQRS).

COCOS KEELING ISLAND, VK9CX. DJ7ZG and DL7AFS will be on the air from Oct 19 till Nov 9, mainly SSB. QSL via DL7AFS.

SAO TOME, S9. K0KKO and K0GUV will be operating as S92DX, S9CW and S9SX on HF thru 6 Meters from Oct 21 to Oct 27.

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

FIJI, 3D2T. Americans and Australians will be on the air from Oct 24 to Nov 9. They will be on 160 - 6 Meters, CW, SSB and RTTY. QSL via VK4FW.

CENTRAL AFRICAN REPUBLIC, TL0CW. DK7PE will be focusing on 80 and 160 Meters CW from Oct 26 to Nov 3. QSL via 9A6AA.

IVORY COAST, TU2T. Italian DX team will be on the HF bands from Oct 27 to Nov 11. QSL direct to I2YSB or via the bureau to IK2CIO.

TARA PSK Rumble Contest - 0000Z-2400Z, Oct 1

Oceania DX Contest, Phone - 0800Z, Oct 1 to 0800Z, Oct 2

California QSO Party - 1600Z, Oct 1 to 2200Z, Oct 2

German Telegraphy Contest - 0700Z-0959Z, Oct 3

YLRL DX/NA YL Anniversary Contest - 1400Z, Oct 7 to 0200Z, Oct 9

Makrothen RTTY Contest - 0000Z, Oct 8 to 1559Z, Oct 9

Oceania DX Contest, CW - 0800Z, Oct 8 to 0800Z, Oct 9

Scandinavian Activity Contest, SSB - 1200Z, Oct 8 to 1200Z, Oct 9

Pennsylvania QSO Party - 1600Z, Oct 8 to 0500Z, Oct 9 and 1300Z-2200Z, Oct 9

Arizona QSO Party - 1600Z, Oct 8 to 0600Z, Oct 9 and 1400Z-2359Z, Oct 9

North American Sprint, RTTY - 0000Z-0400Z, Oct 9

CQ SA SSB Contest - 0000Z, Oct 15 to 2400Z, Oct 16

10-10 Int. Fall Contest, CW - 0001Z, Oct 15 to 2359Z, Oct 16

New York QSO Party - 1400Z, Oct 15 to 0200Z, Oct 16

Worked All Germany Contest - 1500Z, Oct 15 to 1459Z, Oct 16

Illinois QSO Party - 1700Z, Oct 16 to 0100Z, Oct 17

ARRL School Club Roundup - 1300Z, Oct 17 to 2400Z, Oct 22

CQ Worldwide DX Contest, SSB - 0000Z, Oct 29 to 2400Z, Oct 30

Ukrainian DX Contest - 1200Z, Nov 5 to 1200Z, Nov 6

ARRL Sweepstakes Contest, CW - 2100Z, Nov 5 to 0300Z, Nov 7

High Speed Club CW Contest - 0900Z-1700Z, Nov 6

SPECIAL EVENTS

Lum and Abner Radio Program 80th Anniversary

Oct 1, 1400Z-2200Z, W5HUM, Mena, AR. Ouachita Amateur Radio Association. Gen portion 20 40 80 m. Certificate. Don Thomas, 117 Dallas Ln, Mena, AR 71953. CD of Lum and Abner to first 25 contacts.

23rd Annual Oliver Hardy Festival

Oct 1-Oct 2, 1200Z-2000Z, W4O, Harlem, GA. Columbia County Amateur Radio Club. 28.360 21.290 14.260 7.260. QSL. CCARC W4O Special Event, PO Box 800, Evans, GA 30809. ccarc@hamradioman.com

Walt Disney World's 40th Anniversary

Oct 1, 1400Z-2359Z, WD4WDW, Orlando, FL. Disney Emergency Amateur Radio Service. 28.360 14.260 7.260. QSL. DEARS, PO Box 22346, Lake Buena Vista, FL 32830. www.wd4wdw.org

US Navy Birthday Established 1775

Oct 8, 1700Z-2359Z, Many stations across the United States will be on the air. Activations include naval ships and submarines.

Vibroplex Returns to Norcross

Oct 8, 1400Z-2000Z, N4V, Norcross, GA. North Georgia QRP Club. 14.060 7.050 7.040 3.560. QSL. Brian Page, 1717 Tidewell Trace, Lawrenceville, GA 30043. The special event from the Norcross Visitors Center runs from 10:00 AM to 4:00 PM EDT but the special event station, N4V, will be on the air all week near traditional HF QRP frequencies. QSL to N4TRB with SASE. http://groups.yahoo.com/group/vibroplex_in_norcross

Jamboree On The Air

Oct 14-Oct 16, 1400Z-1500Z, Many stations all over the world will be on the air with boy scouts operating.

US Coast Guard Auxiliary 72nd Anniversary

Oct 22, 1400Z-2200Z, Many stations across the US will be on the air.

23rd NASCAR Days Festival

Oct 29, 1400Z-1800Z, NC4AR, Randleman, NC. Tri-County Amateur Radio Club. 14.275 7.210 145.290 & 53.010 LINKED. Certificate. NC4AR, PO Box 747, Trinity, NC 27370. www.nc4ar.net

Frankenstein Halloween FunXpedition from Frankenstein, MO

Oct 30-Nov 1, 2100Z-1300Z, W0O, Frankenstein, MO. Mid-MO Amateur Radio Club. CW: +/- QRP Frequencies on 80/40/20 SSB: +/- 3963, 7.263, 14.317 . Certificate. Kent W. Trimble, K9ZTV, 2210 Heartland Ridge, Jefferson City, MO 65109. Annual Halloween Special Event Station. QSL 100%. Please DO NOT QSL us (no storage).

Remembering the Edmund Fitzgerald

Nov 3-Nov 6, 1700Z-1700Z, N8F and K8F, Whitefish Point (N8F) and Paradise (K8F), MI. Stu Rockafellow Amateur Radio Society. 21.360 14.260 7.260 3.860. Certificate. Richard A. Barker, W8VS, 264 N East St, Brighton, MI 48116. Also participating in the event are W0JH, The Stillwater Amateur Radio Association and W8F, The Livonia Amateur Radio Club. Please observe QSL routes for each club. <http://www.qsl.net/w8njh/index.htm>

Sinking Of Edmund Fitzgerald

Nov 4-Nov 6, 2200Z-1400Z, W8F, Livonia, MI. Livonia Amateur Radio Club. 21.050 21.340 14.340 14.050. Certificate. Bruno Walczak, 16601 Golfview, Livonia, MI 48154.

Remembering the Edmund Fitzgerald

Nov 5-Nov 6, 1500Z-2345Z, W0JH, Split Rock Lighthouse, Split Rock, MN. Stillwater Amateur Radio Association. 21.360 14.260 7.260 3.860. Certificate. Shel Mann, w0jh@arrl.net, Stillwater, MN 55082. Requested W0JH QSL Certificates will ONLY be sent via e-mail in PDF. W0JH operating from Split Rock Lighthouse (ARLHS: USA 783; Grid Square: EN47). Other participating clubs at different locations: N8F & K8F, Stu Rockafellow Amateur Radio Society and W8F, Livonia Amateur Radio Club. Please observe QSL route for each participating club. Instructions/Requests: <http://www.radioham.org>

Minnesota Transportation Museum / Jackson St Roundhouse

Nov 5, 1300Z-2300Z, K0AGF, Saint Paul, MN. St Paul Radio Club. 28.350 21.350 14.250 7.240. Certificate. St Paul Radio Club, PO Box 9375, Saint Paul, MN 55109. Restored Historical Trains <http://www.stpaulradioclub.org>



