

Long Path



Volume 24 Issue 5

SEMDXA NEWSLETTER

February 2007



President's Report

Greetings fellow DXers!

I would like to start off by thanking Dr. Rick Dorsch for his January presentation. An excellent job as usual and we are all glad to see you could fly in on those new rugs.... After I got home I had to check and see what the Alpha 9500 is going for and I am convinced now that Rick got a better deal. I am looking forward to seeing those and the plate he purchased on his trip. The friendships you developed are worth their weight in gold and it is a trip I am sure you will always remember.

Our February presentation will be **3Y0X** put on by Don Dubon -**N6JRL**. If you missed his last presentation you won't want to miss this one. Don is an excellent speaker and I am sure will have some good stories to tell of his trip to Peter I Island. My guess is it will be colder here when he puts the presentation on than it was in the Antarctic.

Most of you by now have worked the **VU7RG** operation and from where I stand, I feel they are doing an excellent job. As I am writing this they are on 80 Meters CW and their signal lit-

erally S7 to S8 on the loop. I spoke with **K8NA** and he is hearing them loud as well. So to the ops doing **VU7RG**, thanks for an outstanding job.

Now if we can get somebody to go to 70 I can die a happy man although I must say I am in no hurry. Any volunteers.?

Ok gang, I hope to see all of you on February 9th at the Troy Elks and if you have not paid your dues make sure you bring your checkbook.

73

K8SIX, President

N7NG & LoTW

Recently your editor asked Wayne, **N7NG** about the LoTW and his abrupt departure as an ARRL staff member. Here is what Wayne had to say:

Gerald: I wouldn't worry about the basic LoTW. Although I believe Harold Kramer would turn it off if he had his way, that just isn't going to happen. I do think that under current management, development of LoTW will be slow to nil. Although Dave Sumner says he is fully supportive of the program (and I believe he is), he is strangely disconnected (from being CEO, actually). IMO, the ARRL suffers from a serious lack of leadership at the very top, and the Board is unable/unwilling to 1) see it, and 2) do anything about it.

73, Wayne, **N7NG**

More Sad News

The FCC has officially pronounced the death of Morse Testing for all future Amateur Radio licensing beginning February 23, 2007! The ARRL claims it tried to maintain a 5-WPM testing requirement for at least all Extra Class license applicants but that the FCC, in their infinite wisdom, declined declaring it was in the public interest to eliminate this requirement!

SEMDXA CLUB OFFICERS

President: Al Bailey, **K8SIX**

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BC610 Military Transmitter

Much has been written over the years about this legendary piece of military communications gear. Unnoticed to many, it survived for a good number of years after the end of World War II and continued to provide critical communications in several theatres.

By way of background the BC-610 was a 300 to 400 Watt output transmitter capable of either AM telephone or CW operation. Also, later, some units were modified which enabled RTTY operation. A very large number of these units were built during the war-years, actually over 25,000! Based on the original Hallicrafters HT-4 design, it was manufactured by not only Hallicrafters but Barker-Williamson and David Bogen and Company of New York in addition. Various models ran from the basic BC610 through the BC610J. Located in Cocoa, Florida, Barker-Williamson (B&W) has been around since 1932, now manufactures antenna and antenna components. Their product line includes the Miniductor and Airdux coil line. Bogen International still maintains it's business presense in the Audio Technology field. Hallicrafters has since been bought and merged into the Northrup Corporation in 1966. As everyone knows, Hallicrafters was founded by Bill Halligan, **W9AC** in the early 1930s. Many prolific stories can be found on the Internet about Bill. Your Editor has a QSL from him confirming an early 80 Meter QSO.

The BC610 covered the range of 2 to 18 mHz in its original design. However, coverage had been expanded to include frequencies as low as 1.2 mHz and as high as the 15 Meter Amateur band.

The final amplifier was a single neutralized triode vacuum tube type VT220 (250TH, Eimac) although some units used the VT130 (250TL,

Eimac). It was modulated by a pair of VT218s (100TH). The RF driver stage was a VT100 (807) or a pair of these in later production. The balance of the RF deck tube lineup included a VT107 (6V6) Master Oscillator and a VT107 (6L6) Buffer/Doubler.

The modulator section consisted of a pair of VT95s (2A3) and a pair of VT218s (100TH, Eimac). The power supply included a pair of VT145 rectifiers (5Z3) and a string of voltage regulators VT139s (VR150).

An RTTY adapter was later added and carried the designation O-39/TRA-7. It allowed FSK communications which was very useful in many battlefield situations.

The RF deck was located in the upper portion of a very heavy duty steel cabinet. The modulator was located in the middle section and the power supply at the bottom. Overall weight of the BC610 was nearly 400 pounds.

The BC610 had a separate speech amplifier carrying the model number BC614 as well as an antenna tuner model number BC939. This antenna tuner was a fantastic source of parts for the home-brewer because beside an excellent rotary inductor and variable capacitor, it contained a vacuum capacitor, antenna selector switch and RF ammeter. A dusty BC939 complete but without it's cabinet went for over \$500.00 on eBay in recent times!

The final amplifier used a series of plug-in coils in the tank circuit. Early coil kits included three coils while later kits carried as many as five. A series of eight tuning units were also available covering the range of 2 to 18 mHz. These carried the designations TU-47 through TU-54. Up to three of these units could be stored in the BC610 console. Thus either VFO (in those days referred to as "Master Oscillator or just "MO") or crystal operation was possible. For Radio Amateurs the TU-49, 52 and 54 were the most popular since they covered the 80/75, 40

and 20 Meter bands. Nowadays, the tuning units are available very inexpensively on eBay. One recent assortment manufactured by Hallicrafters which included five different units sold for \$10.00. Crystal control was also possible using the huge FT171B Crystals. Most old timers have a drawer full of surplus crystals including these monsters.

Your Editors experience with the BC610 began in Korea in 1952. While serving with the 8th Army, I ran across a close friend from my civilian life who was with a Signal Corp Battalion located near Chorwon. Claude was a Radioman who had access to the main communications setup for the IV Corp. While visiting with him one day he took me on a tour of the installation which included three BC610s with all of their accouterments. Claude put on a demonstration of Ham Radio which was described in an earlier issue of the Long Path ("The First P5").

Armed Forces Radio Service (AFRS) had a series of AM broadcast stations scattered throughout Korea which provided programming for the troops. These stations were located at the high end of the BC band for reasons that I discovered later. These stations did not have actual call signs but identified themselves as "Gypsy Radio", "Vagabond Radio" and "Nomad Radio" etc. Claude steered me to one of these stations where I found out that the BC610 Transmitter was the source of their signals! Still later I ran across another Ham, John Harmer, **W8WRS** who was responsible for the setup and maintenance of these stations. He was attempting to upgrade the equipment used but was stymied due to low priorities. I was a frequent listener to these stations and carried my battery-operated portable Hallicrafters S72 Radio wherever I traveled. East/West travel near the forward areas could be highly dangerous as the NKA had most of the roads -poor as they were- in reg-

isteration by their field artillery units so we usually traveled late at night which added another dimension to danger because most of the East/West roads were carved out of the side of mountains with sheer drops on one side.

After leaving the service in 1954, I attended Electronics Institute of Technology (EIT) on Henry Street just West of Woodward Avenue in downtown Detroit. There I ran across another BC610 complete with all tuning units, tank coil plug-ins antenna tuner and speech amplifier. The BC610 was used as a teaching tool but also used in the Amateur Radio Station setup - call sign **W8AJO**. Dr. Head was our fearless leader at EIT and also was the custodian of the station. Myself -then **W8UCI** -, Angelo DiMantoni, **W8TRL** and Lab Instructor Bob Kolb, **W8LSF** frequently operated the station during our lunch period on 40 Meter AM phone and CW. At that time we had a 40 Meter Dipole strung up on the roof the building.

Still later, while teaching in the Laboratory at EIT, I was witness to a careless student suffering serious RF burns on the palm of his hand while trying to load up a bank of incandescent light bulbs using the BC610 and BC639 antenna tuner. Several present day **SEMDXA** club members were students at EIT during those years.

BC-610s have modified for linear operation. Richard, **W8SJ** tells of his experiences with one during his 1961 tour as an AP with the USAF at Loring AFB, Limestone, Maine. The MARS station there (**K1FCV**) had a BC610 modified for SSB operation and used an Eldico SSB Exciter for drive with 300 to 400 Watts output.. This setup plus a huge Rhombic antenna provided outstanding coverage in favored directions.

At this late date, many Radio Ama-

160 and 75 Meters and enjoy this old relic. With high-level plate modulation, they sound great. Take a listen sometime for yourselves.

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## January Minutes

Meeting called to order at 7:55 p.m. by our President **K8SIX**. Thirty-five members and guests present. Al bid us all welcome to the first meeting of the new year.

Michigan will be receiving new white background license plates this year. President Al wondered if anyone had tried to get a new Amateur Radio Operator plate and experienced the same frustration as he did at his local Secretary of State office. It took him over one and a half hours. Tell the staff to reference the memo about ARO plates. Discussion showed other club members were having similar experiences.

**K8NA's** Five Band WAZ plaque and **W1SKU's** DX Challenge plaque were shown and passed around. These awards can be quite expensive when QSL costs and application fees are considered. The DX Challenge represents 3,000 QSO/QSLs. Great work both members!

Our Treasurer **N8SNM**, was not present, thus President Al reports that our Treasury began the month with \$573.69. After dues were collected and expenses taken out we had a ending balance of \$1,044.41. He further noted that dues are due!

Secretary **AC8W's** minutes were as printed in the *Long Path*. Members were asked to sign the attendance sheet.

Hank, **K8DD**, related that Buck, **N8CQA**, had another trip to the hospital,

but is home once again on oxygen.

**WD8S**, delivered the final two 2006 Michigan QSO Party plaques. MQP is sponsored by the Mad River Radio Club. **K8DD**, received a beautiful plaque for working the most Michigan counties. **KK8I**, received a beautiful plaque for High Score Single-op. Congrats to both.

**K8KHZ**, tells us the Hazel Park Swap is next weekend Sunday, January 21, 2007. Details at: *HPARC.org*

**KC8OBH** says that the Motor City Radio Club is offering a 10-week Technician class at Henry Ford Community starting January 18. Details at: *w8mrm.org*

**AC8W** and **K8DD** are going to Hamcation in Orlando and then on to Cartagena, Colombia to operate in the ARRL CW test. Look for them and spot them often.

**KK8I**, has a new short version Carolina Windom antenna for sale.

President Al introduced our own **NE8Z** who showed a PowerPoint and video of the Mediterranean cruise that he and Maria, **HC1MM**, took during October 19 through November 10, 2006. Rick took along an FT-817 QRP rig, an Outbacker antenna as well as a Miracle Whip for HF. He also brought along a VX-5 for VHF and found that most contacts were done on simplex.

From London Heathrow they flew to Madrid where he operated as **EA4/NE8Z/QRP**. Although they had rainy weather the did manage some sightseeing including flamingo dancing and an experience with pick pockets in the Metro.

Leaving Spain they flew across C31, F, HB9 to Athens. Before boarding the cruise ship they saw many famous sights in Athens and visited Cliff,

**SV1JG**, and Mano, **SV1IW** and had a great dinner where Maria got a chance to show off her Greek language skills. Rick used the VX-5 on 145.510 simplex as **SV1/NE8Z** and made thirteen Q's in twenty minutes standing on top of the Acropolis.

They boarded the MV Rotterdam of the Holland America line and set sail for Turkey. When they arrived during early morning prayers in Kusadasi, Turkey they experienced the flavor of this Moslem country. A long ride into the mountains brought them to the home of the Virgin Mary at Efesis. Mary lived there from 32 to 47 AD. A recent forest fire in early October had spared all the trees close to the house. A highlight of the trip was Maria's purchase of two Turkish rugs. Rick didn't say how much they cost, but suffice it to say a new Alpha amp may be in the works at Dayton. The employees laughed when Rick inquired if, for the price paid, "do they fly?" Operation was done from a small island as **TA4/NE8Z/QRP**.

They boarded again and cruised toward Malta. All of the countries visited have CEPT agreements except Malta, but a fairly easy process resulted in Rick receiving **9H3EE** which he used briefly on 17M.

Steaming away they passed the tip of the "boot" of Italy and got close to Stromboli Island (ID9) which is an active volcano. The Lipari Island (EU-017) is part of the Volcano Islands. Rick related that he threw a plastic water bottle with a QSL card and \$1 over the stern during this phase of the trip. About a month later he received an email from a girl from Rome. Her parents were in Sicily and their Rottweiler brought them the bottle so she answered. Interestingly, she works for the Department of Environmental Cleanliness!

On to Rome where they saw 1A0,

Sovereign Military Order of Malta, Vatican City including the Radio Vatican log periodic.

Monaco was the next port and Rick contacted Laura, **3A2MD**, and had a nice visit and tour. Laura's QTH is just inside the city limits and has a mountain and buildings between 3A2 and the US. The club, **3A2ARM** has a much better take-off for North America.

The remainder of the trip included Barcelona, EA3; Cadiz, EA7; and finally Lisbon, CT1. All of these held many adventures, churches and tourist sights. After a nine-hour train ride they arrived once again in Madrid where a highlight was a visit to **EA4URE**, Spain's national headquarters. A very nice building with operating stations. They even visited the EA QSL bureau where **NE8I** QSL cards are well known. A short layover in London preceded their flight home.

Great trip and great stories!

**NE8I**, will be on as a rover during the January VHF QSO Party.

Meeting adjourned at 9:45 p.m. to general fellowship.\par

**AC8W**, Secretary

## DX Prospects

These past two months have provided some outstanding DX-peditions to rare and semi-rare spots. For example, we had **VU7LD**, **XT2C**, **1A4A**, **VU7RG**, **VU7MY** and **BX0ZR** active within this short period of time. For many DXers, **VU7** wrapped up their long climb to the Top of the Honor Roll. For others, it was within shouting distance. With the exception of **VU7LD** and **VU7MY**, the low bands of 80 and 160 were given special attention by these stations. With solar activity at a near minimum (Solar Flux in the 70s and low 80s), propaga-

tion was still decent overall. Here is a summary of what some of our club members experienced:

**VU7LD**: A learning experience for the VU operators which was very visible during the **VU7MY** operation. Handling huge pileups -especially the Europeans- was a very difficult challenge for the VU ops. They learned and picked up the pace quickly.

**VU7RG**: An outstanding operation mostly by German ops. If there was a weak link here it was their 40 Meter signal (antennas?) and RTTY operation. What was truly amazing was their 80 Meter signals into North America. Several evenings just before their sunrise, signals here peaked near S9 at times. 30 Meter Long Path QSOs to North America -especially the Western portion- were plentiful. What made RTTY tough going here was the European crowd barging in even when repeatedly told to standby!

**XT2C**: Another outstanding operation with a much less challenging propagation path to North America. You name the band or mode, they were there! The low band operators were dedicated and very patient.

**1A4A**: Also an excellent operation mostly by Italian ops. They made frequent standbys for North America. Their 160 Meter signals were marginal at best however. Too bad because this is a much needed prefix on Top-Band.

**BX0ZR**: This is a very difficult path on the low bands. George and his crew were truly up against it otherwise. The ice storm here in Michigan came at the worst of times. Most of us were stymied by ice buildup and had a very tough time trying to work this group.

**W8GF**

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Paid up *SEMDXA* members in alphabetical order:

| <u>CALL SIGN</u> | <u>E-MAIL</u>          | <u>CALL SIGN</u> | <u>E-MAIL</u>            |
|------------------|------------------------|------------------|--------------------------|
| AC8W             | AC8W@COMCAST.NET       | N4JQQ            | CROWNHAVEN@BELLSOUTH.NET |
| AD4UU            | AD4VU@COMCAST.NET      | N8CQA            | N8CQA@ARRL.NET           |
| K8BB             | K8BB@COMCAST.NET       | N8HZM            | MLS1@COMCAST.NET         |
| K8CC             | K8CC@COMCAST.NET       | N8JV             | N8JV@COMCAST.NET         |
| *K8CW            | K8CW@ARRL.NET          | N8KF             | N8KF@ARRL.NET            |
| K8DD             | K8DD@K8DD.COM          | N8KIE            | N8KIE@AOL.COM            |
| K8ESQ            | K8ESQ@SBCGLOBAL.NET    | N8LJ             | N8LJ@USOL.COM            |
| K8FT             | JIM.KUHNS@IEEE.ORG     | N8MOJ            | N8MOJ1@AOL.COM           |
| K8GT             | K8GT@ARRL.NET          | N8MR             | N8MR@ARRL.NET            |
| K8IY             | DFWOOD@OAKLANDCC.EDU   | N8OZ             | N8OZ@ARRL.NET            |
| K8JM             | K8JM@USOL.COM          | N8QGC            | N8QGC@ARRL.NET           |
| K8KHZ            | K8KHZ@K8KHZ.COM        | N8SHZ            | N8SHZ@COMCAST.NET        |
| K8MSU            | K8MSU@JUNO.COM         | N8SNM            | BNOWAK@SPEAKEASY.NET     |
| *K8NA            | K8NA@WIDOPENWEST.COM   | N8ZX             | N8ZX@TDS.NET             |
| K8NWD            | K8NWD@COMCAST.NET      | NE8I             | NE8I@ARRL.NET            |
| K8SIA            | K8SIA@ARRL.NET         | NE8Z             | NE8Z@YAHOO.COM           |
| K8SIX            | K8SIX@COMCAST.NET      | W1SKU            | W1SKU@ARRL.NET           |
| K8UP             | JOHN@FLEMING-PHOTO.COM | W4CEO            | SCAT42@EARTHLINK.NET     |
| K8UT             | K8UT@ARRL.NET          | W8AP             | BEAGOLDSTONE@MAC.COM     |
| K8VJV            | K8VJV@ARRL.NET         | W8GF             | W8GF@AOL.COM             |
| K8ZE             | K8ZE@CHARTER.NET       | W8LU             | W8LU@W8LU.NET            |
| K8ZZU            | K8ZZU@SBCGLOBAL.NET    | W8PP             | W8PP@COMCAST.NET         |
| KC8JAY           | KC8JAY@ARRL.NET        | W8SJ             | W8SJ@AOL.COM             |
| KC8OBH           | KC8OBH@AOL.COM         | W8SYR            | JDBUHL@AOL.COM           |
| KC8PKY           | KC8PKY2004@YAHOO.COM   | W8UA             | W8UA@MYVINE.COM          |
| KK8I             | DL2HBX@DARC.DE         | WA8BIJ           | WA8BIJ@ARRL.NET          |
| KP4E             | KP4E@AMSAT.ORG         | WD8S             | WD8S@ARRL.NET            |
| KQ8D             | ROGER49201@YAHOO.COM   | WQ8T             | WQ8T@ARRL.NET            |
| KT8X             | KT8X@PRODIGY.NET       | WZ8K             | WZ8K.SEMDXA@MIQRP.NET    |
| K8YTO            | K8YTO@ARRL.NET         |                  |                          |
| LZ4GU            | LZ4GU@YAHOO.COM        |                  |                          |

\*Indicates perpetual membership. 60 Total Call signs

Note: If your call sign does not appear on the above list, you will not receive further issues of the *Long Path* until your dues are brought up to date. Check with Brad, N8SNM *SEMDXA* Treasurer. If you have paid your 2005/2006 dues and your call is not indicated, check with Brad to resolve any issues.

Our perpetual roster contains a total of 236 call signs. Of these 14 are Silent Keys (SK).

*SEMDXA* Membership Silent Keys include the following: **KB8IO, KC8OB, KM8Y, N8EOA, N8FGH, NG8S, W8BXM, W8KPL, W8KZM, W8LZV, W8QFR, W8URM, WB8OHO and WD8CRY**

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# SEMDXA MEMBERSHIP RENEWAL

## South Eastern Michigan DX Association (SEMDXA)

Date: \_\_\_\_\_

Application for new membership \_\_\_\_\_ or Application for renewal \_\_\_\_\_ (check one)

Full membership \_\_\_\_\_ or Associate membership \_\_\_\_\_ (check one) Dues: \$20.00 annually

(See SEMDXA website for membership requirements)

Present Call Sign: \_\_\_\_\_ Previous Call Sign: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State/Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail address: \_\_\_\_\_

***MAKE CHECK PAYABLE TO SEMDXA***

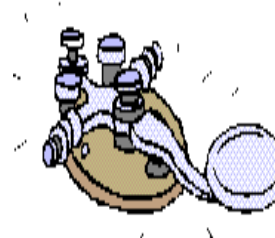
***Make payment at next SEMDXA meeting or mail with remittance to:***

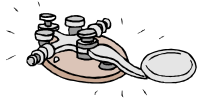
***Brad Nowak, Treasurer***

***4665 Melanie Lane***

***White Lake, Michigan 48383***

***NOTE: TO RECEIVE THE CLUB NEWSLETTER "THE LONG PATH" YOU MUST PROVIDE YOUR E-MAIL ADDRESS!***





# February 2007

## SEMDXA Monthly Planner

| Sunday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Monday                                                                                                          | Tuesday                | Wednesday                                                                                                                               | Thursday                                                                                                                                   | Friday                                                                                                     | Saturday                                                                                                          |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
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| <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p>January</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td></td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p>March</p> <table border="1"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td></tr> </table> </div> </div> |                                                                                                                 |                        |                                                                                                                                         | S                                                                                                                                          | M                                                                                                          | T                                                                                                                 | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 |  | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  | S | M | T | W | T | F | S |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2<br>Full Moon<br><br>Ground Hog Day | 3<br>10-10 SSB Party<br>DE QSO Party<br>FYBO QRP FD<br>MI Antique Radio<br>MN QSO Party<br>VT QSO Party<br>XE RTTY Test<br>YL/OM CW Test |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | M                                                                                                               | T                      | W                                                                                                                                       | T                                                                                                                                          | F                                                                                                          | S                                                                                                                 |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                               | 3                      | 4                                                                                                                                       | 5                                                                                                                                          | 6                                                                                                          |                                                                                                                   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                                                                                                               | 9                      | 10                                                                                                                                      | 11                                                                                                                                         | 12                                                                                                         | 13                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15                                                                                                              | 16                     | 17                                                                                                                                      | 18                                                                                                                                         | 19                                                                                                         | 20                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22                                                                                                              | 23                     | 24                                                                                                                                      | 25                                                                                                                                         | 26                                                                                                         | 27                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 29                                                                                                              | 30                     | 31                                                                                                                                      |                                                                                                                                            |                                                                                                            |                                                                                                                   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | M                                                                                                               | T                      | W                                                                                                                                       | T                                                                                                                                          | F                                                                                                          | S                                                                                                                 |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
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| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                                                                                                               | 6                      | 7                                                                                                                                       | 8                                                                                                                                          | 9                                                                                                          | 10                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12                                                                                                              | 13                     | 14                                                                                                                                      | 15                                                                                                                                         | 16                                                                                                         | 17                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 19                                                                                                              | 20                     | 21                                                                                                                                      | 22                                                                                                                                         | 23                                                                                                         | 24                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 26                                                                                                              | 27                     | 28                                                                                                                                      | 29                                                                                                                                         | 30                                                                                                         | 31                                                                                                                |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 4<br>DE QSO Party<br>NA SSB Sprint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                                                                                                               | 6<br>Spartan CW Sprint | 7<br><br>W1AW Qualifying Run                           | 8                                                                                                                                          | 9<br><br>SEMDXA Meeting | 10<br>CQ RTTY WPX Test<br>LA QSO Party<br>NH QSO Party<br>NNY QSO Party<br>RSGB 160 CW Test<br>Traverse City Swap |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 11<br>NA CW Sprint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12<br><br>Lincoln's Birthday | 13                     | 14<br>K6YR Qualifying Run<br><br>St. Valentine's Day | 15<br>Flag Day - Canada                                                                                                                    | 16                                                                                                         | 17<br>AM QSO Party<br>ARRL CW DX Test<br>New Moon<br>NO LARC<br>SWAP THIS YEAR!                                   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 19<br><br>President's Day    | 20                     | 21<br><br>Ash Wednesday                              | 22<br>W1AW Qualifying Run<br><br>Washington's Birthday | 23                                                                                                         | 24<br>CQ 160 SSB Test<br>CQC QSO Party<br>MS QSO Party<br>NA RTTY QSO Party<br>REF SSB Test<br>UBA CW Test        |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |
| 25<br>NC QSO Party                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 26                                                                                                              | 27                     | 28<br><br>JMF Birthday                               |                                                                                                                                            |                                                                                                            |                                                                                                                   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |                                                                                                                         |                                                                                                                                          |