

# Long Path



Volume 21 Issue 5

SEMDXA NEWSLETTER

FEBRUARY, 2004



## President's Report

Greetings Fellow *SEMDXA* Members.

I would first like to thank Ken Schang, **W8LU**, for his wonderful presentation at the January meeting. It appeared he had a great trip, and my guess is he will do it again next year. Maybe with a little luck he will have some drier weather. Thanks again Ken and I hope in March you can show us your trip to Madeira Island.

This month's presentation will feature a video on **3XY7C** Guinea 2002 by **DL7DF** & others. I only worked them on two bands but they had a great signal despite lousy propagation. I haven't seen it yet but I have heard it is a good video so I hope you can all make it out.

Before I close I would like to remind some of you, that some have not paid their dues yet. Last year at this time we had 54 dues paying members and we are now down to 35. If you forgot to pay your dues, see Buck at the next meeting. At the last meeting we voted on a receipt book, so you will receive a receipt, and we will have

a record of all those paid. We are going to have a paid roster\* at the next meeting. If you see you are not on it, and think you should be, please bring it to our attention.

I hope to see you all at the February meeting. Till then stay inside and work some DX and stay warm.

Best 73 de **K8SIX**

\*Editors note: See page 5 of this issue of the *Long Path* for the paid-up roster.

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## Dues - Dues - Dues

This issue of the *Long Path*, page 5, contains a list of dues-paid-up members. If your call sign is not on this list, it is because your dues are considered delinquent. Unless this obligation is resolved, this will be the last issue of the *Long Path* you will receive via e-mail. If there is some question about your dues, it is your responsibility to discuss the matter with Buck, **N8CQA** our Treasurer. Buck can be reached at [N8CQA@WOWWAY.COM](mailto:N8CQA@WOWWAY.COM)

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## Disincentive Licensing?

See page 2 inside for the latest ARRL proposal to the FCC regarding code-free Amateur Radio Licensing. This is a real stunner!

## Anchors Away!

The following is a note from dues-paid-up club member Jack Straats (**KB8RJ**) and his XYL Cristina (**WD8KUR**) to our Treasurer **N8CQA**. Courtesy of **N8CQA**.

*"Cristina (**WD8KUR**) and I have been gone for the last 4 years sailing our 35 ft sailboat (**IONA**) up and down the ICW, Bermuda, the Azores to Portugal. Currently **IONA** is in Malta.*

*Continued on page 2*

## SEMDXA CLUB OFFICERS

*President:* Al Bailey, **K8SIX**

*Vice-president:* John Millet, **K8JM**

*Treasurer:* Buck Switzer, **N8CQA**

*Secretary:* Stan Arnett, **AC8W**

*Director:* Ted Pauck, **K8NA**

*Web Site Editor:* Ken Schang, **W8LU**

*DXCC Checker:* Bill Jones, **N8KF**

*DXCC Checker:* S.Arnett, **AC8W**

*VUCC Checker:* Al Bailey, **K8SIX**

*CQ Checker:* Mike Rudzki, **N8MR**

*CQ Checker:* Al Bailey, **K8SIX**

*Program Chairman:* Vacant

*LP Publisher:* Gerry Fasse, **W8GF**

*We are home for the winter (bummer)! We will continue our sail east through the Med (Tunisia, Gozo and Greece) this summer and up the Adriatic to Croatia.*

*"I get downstate once a month, usually. This winter I will do my best to be in town when a meeting takes place"*

73, Jack Staats, **KB8RJ**

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## Entry Level License

*What follows is an ARRL Bulletin describing their ideas as submitted to the FCC for an entry class Amateur Radio License. The League's stance on these issues strikes at the very heart of our hobby especially the concept of no Morse testing yet allowing this license class Morse privileges! What's that expression about the patients running the asylum? You be the judge! Your Editor has written both **K1ZZ** and **K8JE** regarding this matter with no response. Nor was one expected.*

ARRL Bulletin 3 ARLB003  
From ARRL Headquarters  
Newington CT January 20, 2004  
To all radio amateurs

SB QST ARL ARLB003  
ARLB003 ARRL to Propose New Entry-Level License, Code-Free HF Access

The ARRL will ask the FCC to create a new entry-level Amateur Radio license that would include HF phone privileges without requiring a Morse code test. The League also will propose consolidating all current licenses into three classes, retaining the Element 1 Morse requirement--now 5 WPM--only for the highest class. The

ARRL Board of Directors overwhelmingly approved the plan January 16 during its Annual Meeting in Windsor, Connecticut. The proposals--developed by the ARRL Executive Committee following a Board instruction last July--are in response to changes made in Article 25 of the international Radio Regulations at World Radiocommunication Conference 2003 (WRC-03). They would continue a process of streamlining the amateur licensing structure that the FCC began more than five years ago but left unfinished in the Amateur Service license restructuring Report and Order (WT 98-143) that went into effect April 15, 2000.

"Change in the Amateur Radio Service in the US, especially license requirements and even more so when Morse is involved, has always been emotional," said ARRL First Vice President Joel Harrison, W5ZN, in presenting the Executive Committee's recommendations. "In fact, without a doubt, Morse is Amateur Radio's 'religious debate.'"

The entry-level license class--being called "Novice" for now--would require a 25-question written exam. It would offer limited HF CW/data and phone/image privileges on 80, 40, 15 and 10 meters as well as VHF and UHF privileges on 6 and 2 meters and on 222-225 and 430-450 MHz. Power output would be restricted to 100 W on 80, 40, and 15 meters and to 50 W on 10 meters and up.

"The Board sought to achieve balance in giving new Novice licensees the opportunity to sample a wider range of Amateur Radio activity than is available to current Technicians while retaining a motivation to upgrade," said ARRL CEO David Sumner, K1ZZ. Under the ARRL plan, current Novice licensees--now the smallest and least active group of radio amateurs--would be grandfathered to the new entry-level class without further testing.

The middle group of licensees-- Technician, Tech Plus (Technician with Element 1 credit) and General--would be merged into a new General license that also would not require a Morse examination. Current Technician and Tech Plus license holders automatically would gain current General class privileges without additional testing. The current Element 3 General examination would remain in place for new applicants.

The Board indicated that it saw no compelling reason to change the Amateur Extra class license requirements. The ARRL plan calls on the FCC to combine the current Advanced and Amateur Extra class licensees into Amateur Extra, because the technical level of the exams passed by these licensees is very similar. New applicants for Extra would have to pass a 5 WPM Morse code examination, but the written exam would stay the same. Sumner said the Board felt that the highest level of accomplishment should include basic Morse capability. Current Novice, Tech Plus and General licensees would receive lifetime 5 WPM Morse credit.

"This structure provides a true entry-level license with HF privileges to promote growth in the Amateur Service," Harrison said.

Among other advantages, Sumner said the plan would allow new Novices to participate in HF SSB emergency nets on 75 and 40 meters as well as on the top 100 kHz of 15 meters. The new license also could get another name, Sumner said. "We're trying to recapture the magic of the old Novice license, but in a manner that's appropriate for the 21st century."

The overall proposed ARRL license restructuring plan would more smoothly integrate HF spectrum privi-

leges across the three license classes and would incorporate the "Novice refarming" plan the League put forth nearly two years ago in a Petition for Rule Making (RM-10413). The FCC has not yet acted on the ARRL plan, which would alter current HF sub-bands.

The ARRL license restructuring design calls for no changes in privileges for Extra and General class licensees on 160, 60, 30, 20, 17 or 12 meters. Novice licensees would have no access to those bands.

See "ARRL to Propose New Entry-Level License, Code-Free HF Access" on the ARRL Web site, [www.arrl.org/news/stories/2004/01/19/1/](http://www.arrl.org/news/stories/2004/01/19/1/), for the specific subband allocations ARRL is proposing for each class.  
NNNN  
/EX



**New Sub Bands**

Looking at the ARRL proposed CW sub band proposal covering 80, 40, 15 and 10 Meters , you find the following:

- Extra: 3500 - 3725
- General: 3525 - 3725
- Novice: 3550 - 3700
  
- Extra: 7000 - 7125
- General: 7025 - 7125
- Novice: 7050 - 7125
  
- Extra: 21000 - 21200
- General: 21025 - 21200
- Novice: 21050 - 21200
  
- Extra: 28000 - 28300
- General: 28000 - 28300
- Novice: 28050 - 28300

Notice that 10 meter privileges are identical for both Extra and General

(codeless) class licensees!

No changes were indicated for the 160, 60, 30, 20, 17 and 12 Meter bands. But it appears that General Class licensees have code privileges similar to the present plan but without Morse certification! Hopefully the FCC will study this band plan carefully and restore some semblance of logic and order. It seems to be missing at this point.



**January Minutes**

Meeting called to order at 8:00 p.m. by **K8SIX**. Twenty-six members and guests present.

**WD8S**, presented beautiful MI-QSO Party plaques to **K8CC**, winner of the Mobile category and to **KK8I**, winner of the SOLP class. He also had one for **KT8X**, winner of the SOHP trophy which **K8CC** will deliver.

Treasurer **N8CQA**, is authorized to get a receipt book.

President **K8SIX** told about the National Wildlife Federation claiming that MI State Police towers were endangering or destroying wildlife, especially the Kirtland Warbler that nests in mid-Michigan... more is sure to follow about his one.

Tonight's program features our own **W8LU**, and his October 2003 trip to operate in the CQWW SSB test form **ISØ**. Contact was made with **DL3EW** and an invitation was given to join a group of German Hams in their effort. **W8LU** joined them as the group caravan went from DL down to Genoa. From there a ten hour ferry ride took them to Porto Torres, Sardinia and the road journey continued down the west coast to their destination at Bosa.

The DLs were basically a group of VHF contesters who decided to try their hand at HF contests. They rented three houses and brought all the equipment needed to put forth a good effort in the WW test. Their travel agent, Antonio, who was from the Bosa area had traveled up to Dusseldorf prior to the trip so he could understand the needs of the

group and find them reasonable properties to rent.

WX during the drive and the first day of unpacking was wet and, in fact, the house they operated from had water on the floor which had to be dried before they started. Power was 220v single phase and they ran a power line from the second house to supplement their power needs. A generator was also rented but not used.

The DL team was very organized and used surplus ten meter masts for antenna support. Three Cushcraft monobanders, and a tribander for multipliers were put up for the high bands and a four-square was used on 40M

Full time Internet and cluster access was accomplished via cell phone (a "Handy" in DL slang) connecting to IR Link. Very reasonable rates for data passed, no connect time, meant that they had packet info for the contest and it only cost 17 Euros.

Outside of the contest **ISØ/W8LU**, worked about 1,000 QSOs using a paper log. Rig was a TS-850.

The contest effort resulted in 7,700 Qs and a claimed score of 9,257,790 points.

After the contest everything was taken down, packed, and the group retraced their drive back to DL. Ken would go again! Thanks for some great slides, good stories, and a titanic struggle with the laptop!

**K8SIX** congratulated **KK8I**, for obtaining his CW DXCC in less than a year!

The **TO4E** expedition is history and **K8SIX** denies rumors that he is a DX hog and worked them all bands, all modes.

**K8UP** relates that Australia has killed BPL in that country due to harmful interference.

Meeting adjourned at 9:15 p.m. to general fellowship.

**AC8W**, Secretary

## DVD Mysteries Explored

Amateur Radio operators are one of many groups that use computers in their activities. Most amateur stations have at least one or two at hand. Newer computers seem to offer an endless variety of DVD drives. This because these storage devices have much greater storage capacity than the floppy drive disks we were mostly weaned upon (recalling those old 8" 160 KB floppies is painful these days). Formats DVD-ROM, DVD-R, DVD-RAM, DVD-RW, DVD+R and DVD+RW are often noted in various circular ads. As this writer discovered, a number of other types existed for a time but gained little acceptance and have since been dumped into history's trashbin.

Your Editor's computer, purchased in 2003, contains two CD drives. One is a 52X Max CD-ROM type and the other a 32X10X40 CDRW. Having only a minimal amount of knowledge about this subject the Internet was explored where an enormous amount of information about CD Drives is available. What ensues here is an attempt to make some sense of this remarkable digital storage device and its ancestors.

### DVD-ROM

*Full name; Digital Versatile Disc - Read Only Memory*

This disk is physically the same size as the ordinary CD-ROM (Compact Disk) but can store data in greater capacity. They come in either of four physical formats named DVD-5, DVD-9, DVD-10 and DVD-18. DVD-5 has a storage capacity of 4.7 GB on one side of the disc in a single layer. Compare this to CD-ROMs with their capacity of 650 MB. The data can be software video, DVD-Video or audio (DVD-Audio). The

DVD-9 format stores data in dual layers on a single side of the disc. DVD-10 and DVD-18 formats stores data on both sides of the disc in either a single or dual layers respectively. These types can be read in those computers equipped with DVD-ROM drives but cannot be written to by the user.

### DVD-R

*Full name; Digital Versatile Disc - Recordable*

These discs are similar to the DVD-ROM types but can be recorded upon only once but otherwise are readable. It is possible to record on both sides of the disc with proper equipment. Capacity is 4.7 GB single sided and 9.5 GB double sided. DVD-R discs are useable with top of the line compact disc readers or computers equipped to read DVD-ROM discs. Two types of drives and media exist. One type is used where the produced disc is to be a master disc for production purposes. The second type is used where only a limited number of copies are required. The correct media must be used with the appropriate drive in either case.

### DVD-RAM

*Full name; Digital Versatile Disc - Random Access Memory*

This disc type differs from the DVD-R since it can be re-written many times. Available capacities are 2.6 GB or 4.7 GB single sided or twice these values for double sided discs. DVD-Ram discs can only be used with DVD-RAM drives. They are unusable with DVD players or computer using ordinary DVD-ROM drives.

### DVD-RW

*Full Name; Digital Versatile Disc - Re-recordable*

Similar to the write-once DVD-R format but can be re-written up to 1000 times! Single-sided capacity is 4.7 GB.

Top of the line DVD drives and computers with DVD-ROM drives can access these types.

### DVD+R

*Full name; Digital Versatile Disc + Recordable*

These discs can be written only once and have a capacity of up to 4.7 GB. Can be used with top of the line DVD players and computers equipped with DVD-ROM drives.

### DVD+RW

*Full name; Digital Versatile Disc + Rewritable*

Similar to the DVD-R format but is more suitable for both real-time video recording and random access data recording. These discs have a maximum capacity of 4.7 GB and can be accessed by top of the line DVD players and computers equipped with DVD-ROM drives.

## SUMMARY

**DVD-ROM:** 4.7 GB capacity. Cannot be re-written by user.

**DVD-R:** Can record once by user. Single and doubled sided capacities of 4.7 GB and/or 9.4 GB.

**DVD-RAM:** Re-writable many times, capacities up to 9.4 GB.

**DVD-RW:** Can be re-written up to 1000 times. 4.7 GB capacity.

**DVD+R:** Not re-writable 4.7 GB capacity.

**DVD+RW:** Similar to DVD-R but more useful in real-time applications. 4.7 GB capacity.

© W8GF

Paid up *SEMDXA* members in alphabetical order:

| <u>Call Sign</u> | <u>E-Mail</u>          | <u>Call Sign</u> | <u>E-Mail</u>      |
|------------------|------------------------|------------------|--------------------|
| <b>AC8W</b>      | AC8W@ARRL.NET          | <b>N8HZM</b>     | MLS1@COMCAST       |
| <b>*K8CW</b>     | K8CW@ARRL.NET          | <b>N8KF</b>      | BOOMER@PROVIDE.NET |
| <b>K8ESQ</b>     | K8ESQ@AOL.COM          | <b>N8LJ</b>      | N8LJ@USOL.COM      |
| <b>K8FT</b>      | JIM.KUHNS@IEEE.ORG     | <b>N8MOJ</b>     | N8MOJ@AOL.COM      |
| <b>K8JM</b>      | K8JM@USOL.COM          | <b>N8MR</b>      | N8MR@ARRL.NET      |
| <b>K8KHZ</b>     | K8KHZ@K8KHZ.COM        | <b>N8OZ</b>      | N8OZ@ARRL.NET      |
| <b>K8MDU</b>     | ROGER49201@YAHOO.COM   | <b>NE8I</b>      | NE8I@ARRL.NET      |
| <b>K8MSU</b>     | K8MSU@JUNO.COM         | <b>W1SKU</b>     | W1SKU@ARRL.NET     |
| <b>K8MV</b>      | K8MV@I2K.COM           | <b>W8AP</b>      | N/A                |
| <b>*K8NA</b>     | K8NA@ARRL.NET          | <b>W8GF</b>      | W8GF@AOL.COM       |
| <b>K8SIX</b>     | K8SIX@COMCAST.NET      | <b>W8LU</b>      | W8LU@SCHANG.NET    |
| <b>K8UP</b>      | JOHN@FLEMING-PHOTO.COM | <b>W8PP</b>      | K8OLG@COMCAST.NET  |
| <b>K8ZZU</b>     | K8ZZU@JUNO.COM         | <b>W8SJ</b>      | W8SJ@AOL.COM       |
| <b>KB8RJ</b>     | CHIVAREE@IX.NETCOM.COM | <b>W8UA</b>      | W8UA@MYVINE.COM    |
| <b>KC8JAY</b>    | KC8JAY@ARRL.NET        | <b>WA8BIJ</b>    | WA8BIJ@ARRL.NET    |
| <b>KK8I</b>      | DL2HBX@DARC.DE         | <b>WD8S</b>      | WD8S@ARRL.NET      |
| <b>KT8X</b>      | KT8X@PRODIGY.NET       | <b>WQ8T</b>      | WQ8T@ARRL.NET      |
| <b>LZ4GU</b>     | N/A                    |                  |                    |
| <b>N4JQQ</b>     | STRUTLEDGE@OII.NET     |                  |                    |
| <b>N8CQA</b>     | N8CQA@WOWWAY.COM       |                  |                    |

\*Indicates perpetual membership

37 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 Buck, **N8CQA** *SEMDXA* Treasurer. If you have paid your 2004 dues and your call is not indicated, check with Buck to resolve any issues.

Our perpetual roster contains a total of 227 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**

# 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: \$15.00 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***

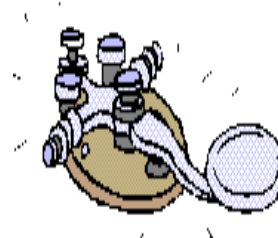
***Make payment at next SEMDXA meeting or mail with remittance to:***

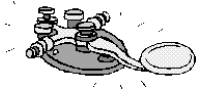
***Leon Switzer, Treasurer***

***427 Jeffrey Avenue***

***Royal Oak, Michigan 48073***

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





# February 2004

## SEMDXA Monthly Planner



| Sunday                                                                                                                                         | Monday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Tuesday   | Wednesday                                                                                                                                           | Thursday                                                                                                                        | Friday                                                                                                                    | Saturday                                                                                                                                 |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
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| <b>1</b><br>6-Meter Marathon<br>NA CW Sprint                                                                                                   | <b>2</b><br><br><b>Ground Hog Day</b><br>Spartan CW Sprint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>3</b>  | <b>4</b><br><br><b>W1AW Qualifying Run</b>                         | <b>5</b>                                                                                                                        | <b>6</b><br><br><b>Full Moon</b>       | <b>7</b><br>10-10 QSO Party<br><b>CQ WW RTTY WPX Test</b><br>DE QSO Party<br>MN QSO Party<br>VT QSO Party<br>XE RTTY Test                |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
| <b>8</b><br>Classic Exchange Test<br>FYBO CW FD<br>NA SSB Sprint<br>QRP ARCI SSB Sprint                                                        | <b>9</b><br>School Club Roundup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>10</b> | <b>11</b><br><b>K6YR Qualifying Run</b><br> Thomas Edison Birthday | <b>12</b><br> <b>Lincoln's Birthday</b>        | <b>13</b><br><br><b>SEMDXA MEETING</b> | <b>14</b><br>Asia Pacific CW Sprint<br>Dutch PACC Test<br>FISTS CW Sprint<br><b>RSGB 160 Meter CW Test</b><br><b>St. Valentine's Day</b> |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
| <b>15</b>                                                                                                                                      | <b>16</b><br><br><b>President's Day</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>17</b> | <b>18</b>                                                                                                                                           | <b>19</b><br><br><b>W1AW Qualifying Run</b> | <b>20</b><br><br><b>New Moon</b>     | <b>21</b><br><b>ARRL CW DX Test</b><br>REF SSB Test<br>YL CW QSO Party                                                                   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
| <b>22</b><br>CQC QSO Party<br> <b>Washington's Birthday</b> | <b>23</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>24</b> | <b>25</b><br><b>Ash Wednesday</b>                                                                                                                   | <b>26</b>                                                                                                                       | <b>27</b>                                                                                                                 | <b>28</b><br><b>CQ WW 160 SSB Test</b><br><b>JMF Birthday</b><br>MS QSO Party<br>UBA CW Test                                             |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
| <b>29</b><br>NC QSO Party                                                                                                                      | <div style="display: flex; justify-content: space-around;"> <table border="1" style="text-align: center;"> <caption>January</caption> <thead> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <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> </tbody> </table> <table border="1" style="text-align: center;"> <caption>March</caption> <thead> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</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> </tbody> </table> </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 |  |  |  |  |
| 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                                                                                                                                       |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
| S                                                                                                                                              | M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | T         | W                                                                                                                                                   | T                                                                                                                               | F                                                                                                                         | S                                                                                                                                        |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |
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| 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                                                                                                                                                  |                                                                                                                                 |                                                                                                                           |                                                                                                                                          |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |