

Long Path



Volume 22 Issue 9

SEMDXA NEWSLETTER

June, 2005



President's Report

Greetings Fellow Members.

I would like to thank Dennis, **KT8X**, for his presentation on his trip to French St. Martin and also Luxembourg. They were both very entertaining but I must say I would like the warm weather of FS-Land much better. I heard somebody saying it would be a good place to go hang gliding. Wonder why? Thanks again Dennis for a job well done.

Well for those of you that went to Dayton this year I think you noticed a marked drop in attendance. In just one place in the flea market I noticed 23 empty stalls and there were many more just like that. The only up side to this I could see was the availability of numerous benches for us old guys to take a snooze. I certainly hope this is not setting a trend. Some of the vendors however were saying business is more brisk so for them it was good I guess to weed out the competition. At least the weather was on our side this year for the most part.

For those of you that were not at last months meeting we have a new Program Director. **K8KHZ** volunteered and was elected. If anybody has any program ideas please send him a note so he can follow it up. I always appreciated

all your help and I am sure Sean will too.

Well I am going to cut this short as I went to Ohio and West Virginia immediately after the Dayton Hamvention for a week and now have grass up past my ankles so I must get busy. Hope to see you all at the meeting on June 10th and 'till then good DX.. Oh BTW still no VU4 QSL here yet.

K8SIX

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## May Minutes

Meeting Called to order at 8:00 p.m. by President **K8SIX**. Twenty-one members and guests present. **N8CQA** reports the April 1st treasury balance was \$279.86. Deposits totaled \$55.00 and expenses were \$28.79 leaving an April 30th balance of \$306.07 President Al opened the floor for nominations for club officers for 2005-2006. A slate of candidates was elected as follows:

President: Al, **K8SIX**  
Vice-President: Ken, **W8LU**  
Treasurer: Buck, **N8CQA**  
Secretary: Stan, **AC8W**

Appointed positions include:  
Bulletin Editor: Gerry, **W8GF**  
Program Director: Sean, **K8KHZ**

**W8LU** informs us that a Tri-EX LM 4/70 crank-up tower is for sale. Ken also has a Telrex 6-Element/26' boom Tribander for sale as well as a Mosley S402 40 Meter beam. **AC8W** has a Yaesu FT-990 for sale. **W8KZM**'s estate has a

70' crank-up tower for sale...it used to belong to **K8BTH**. **N8SNM** has a TH6 Tribander for sale. **KT8X** says **W8UM**, The University of Michigan club station is looking for a donation of a Tribander. They have a new Omni 6 that was donated by Ten Tec. Since they are a 501C3 organization any donation would be tax deductible.

**K8GT** reminds us that the Tonight Show will have a live text messaging vs. CW contest later this evening. The show's property manager is **KF6OCP**. A similar test was run in

## SEMDXA CLUB OFFICERS

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

*Vice-president:* Ken Schang, **W8LU**

*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 Chair:* Sean Fleming, **K8KHZ**

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

Australia with a 93 year old against a 13 year old and CW won! **K8SIX** and **W8LU** will be recording on TiVO.

Tonight's program featured Dennis, **KT8X**. Dennis works for the University of Michigan and presented his "Fire and Ice" DX-pedition show. "Fire" for the warm climes of French St. Martin, and "Ice" for his trip to Europe in December. St. Martin is that famous island that is owned by France on the north side, and Saint Marten owned by Netherlands on the south side. The atmosphere is decidedly Dutch in the south and French in the north.

Dennis and his wife Stephanie visited St. Martin in 2002 and again this year. He stayed in Grand Case at a house that is also a school owned by Paul, **N8VT**. It has a good shot to Europe and North America. Rig was a TS-570 and an L7 amp to a R5000 vertical. Dennis operated mostly CW and utilized the WARC bands a great deal. One tip Dennis had for traveling to warmer spots is to take a carry on only. You don't need a lot of clothes.

**FS/KT8X** also operated the ARRL DX Phone Contest making 2,026 Q's for 1,118,352 points. Outside the test he made 1,092 CW Q's and 8 SSB. In contrast, Dennis and wife Stephanie toured Europe in December 2004. Thanks to help from **KK8I**, he made contact with Robert, **LX1RQ**, station master for **LX5A** and got an invitation to operate the ARRL 10M Contest.

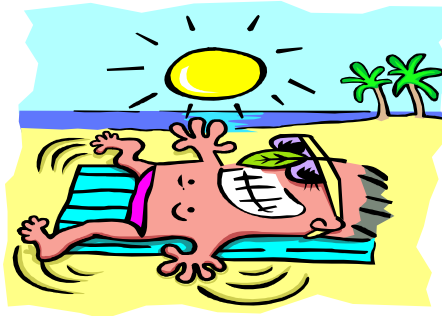
**LX5A** is located at Ranch Moot Scout camp near Wiltz, Belgium. There is a tower with a TH6 and VHF antennas. Robert and Joel, **LX1ER** put up a 10M vertical as a spotting antenna. Before the test Dennis operated as **LX/KT8X** on 40M and 80M and worked lots of UA and UB stations. They had a RF

Packet Cluster link that helped a lot. Dennis was amazed at the ease with which both Joel and Robert could switch back and forth using various languages.

In the contest they had 240 CW Q's with 75 mults and 130 SSB Q's with 47 mults for a claimed score of 148,840. Outside the test **LX/KT8X** had 340 CW and 7 SSB Q's on 40M, 80M and 20M. **LX5A** is for rent. The operator has to supply rig, amplifier and computer, for about 100 euros (Hams get a 50% discount). You can get further info at: <http://www.qsl.net/lx5a/introduction/htm> Dennis wrapped up his presentation with some tips for working pile-ups, the best one being LISTEN! He is also a big proponent of LoTW. A great program.

Meeting adjourned at 9:10 p.m. to general fellowship.

**AC8W**, Secretary



## Long Path

This is the final issue of the **SEMDXA** newsletter for our calendar year 2004/2005. The next issue will be dated September, 2005, Volume 23 Number 1. Have an enjoyable and safe summer!

## BPL

This issue is still in a chaotic state! On the one hand, serious doubts have been expressed by FCC technical staff as to the viability of the present concept of "Broadband Over Powerlines" but on the other hand there are firms such as Motorola proposing more Ham-Friendly systems. The ARRL recently was encouraged by Motorola's approach which would recognize and deal with potential interference problems right from the onset.

In any event, it is encouraging to note that a number of competitive systems are vying for Broadband leadership. Technologies such as Cable, Satellite and Telephone Lines are already proven and viable. Let's hope for the best on this issue!

## Sporadic E Propagation

The Sporadic E (Es) season is upon us again. In general there are two peaks during the course of a year; Summer and Winter Solstice periods.

The Winter period is the lesser of the two. Generally, during the month of May, Es propagation is present with the month of June and the early weeks of July being the peak period.

The first days of July frequently bring the best propagation to Europe on the Six Meter Band.

A number of DX-peditions are in the works this summer which include concentrated 6-Meter activity. Look for **CY9**, **CY0**, **C6**, **FP** and others.

Wouldn't it be great to have **KP1** and **KP5** activity on 50 MHz? Probably not this year but very possibly next!

## Morse vs Text

As noted in the May meeting minutes, an expert text message contestant went up against a couple of crackerjack CW operators to see who could through-put the test message quickest. This all occurring live on the Jay Leno late evening program "The Tonight Show" on May 13. The text messaging expert was Ben Cook. He claimed to be the world champion text messenger. His assistant was Jason Miller. Both appeared to be about 20 years old. Ben Cook stated that he was able to send a 160 character message in 57 seconds.

The CW operators -dressed as old-time Morse Telegraphers - were Chip Margelli **K7JA** and Ken Miller **K6CTW**. If you will recall, Chip is a Vertex Standard (Yaesu) Associate. Ken is an old timer of 38 years in Ham Radio and a QRP advocate. Chip was at the Bencher key with Ken handling the copy manually. Transmission was done on 432.200 MHz using a pair of Yaesu FT817s. CW speed was preset at 29 wpm.

The message was a sentence right off of a Geico TV ad "I just saved a bunch of money on my car insurance". The audience seemed to favor text messaging as the sure winner whereas smart money was on the CW ops. The pair of twenty year olds seemed pretty confident if not cocky about who would win this race. Actually, during a thrice conducted rehearsal, CW easily won each time.

As it turned out, there was really no contest as the CW ops passed the message well ahead of their text message opponents. Actually, the pair of youngsters seemed astonished that they were beaten so handily. On the other side, Ken and Chip had that "cat just ate the canary grin!"

Point of fact, a similar contest was re-

cently held down under in Australia with similar and predictable results when a 93 year old CW operator and a 82 year old receiving the message prevailed over an expert text message operator.

**W8GF**

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W1AW

Sharp eyed readers will likely note that the **W1AW** Qualifying Run dates have not been listed on the June, 2005 Event Calendar. For some reason this information was not listed in the June QST issue or on the ARRL Website. A check with the ARRL Headquarters via telephone resulted in a promise to return my call with the missing information. Since it was not received as the *Long Path* deadline approached, no dates are listed for either the **W1AW** or **K6YR** transmissions. Readers interested can check the ARRL Website later to obtain the dates.

W8GF

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### Wanted - Wanted - Wanted

**W8GF** is looking for a Hy-Gain 402BA 2-element 40 Meter Yagi Antenna. This antenna has not been in production or available for at least 25 years. Its replacement is too large to stack with the present tower arrangement at **W8GF**. Thus the 402BA seems to be the only choice. If you have or know of one that might be available, please contact **W8GF@comcast.net**.

## DX Prospects

Cycle 23 continues its inexorable slide toward 0 sunspots! Actually, there were a few days recently when the sun was virtually spotless. Recent solar flux numbers were close to 80 which is awfully close to the all-time low reading of 67.

If you have inputted this value (say 75) into any of the popular propagation forecast programs for some of the more remote world locations, you likely have found just how tough things are these days. And we haven't reached the low point yet.

On May 15 past, the K index was at 9 and the A index over 100 which is indicative of a very major magnetic storm in progress. Although the HF bands went nearly dead for a time, six and two meters produced some excellent openings via Auroral E and more typical auroral openings. Stations in deep South America were copied in many areas of the USA, even in the more Northerly portions.

Keep the faith..... Better days are ahead!

**W8GF**

## June SEMDXA Meeting

**The June meeting has been rescheduled from June 10 June 17 to accommodate our after-meeting program. Please make a note of this change!**

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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@ARRL.NET          | N8CQA            | N8CQA@ARRL.NET           |
| AD4UU            | AD4VU@COMCAST.NET      | N8HZM            | MLS1@COMCAST.NET         |
| K8BB             | K8BB@COMCAST.NET       | N8JV             | N8JV@COMCAST.NET         |
| K8CC             | K8CC@COMCAST.NET       | K8KF             | N/A                      |
| *K8CW            | K8CW@ARRL.NET          | N8KIE            | N8KIE@AOL.COM            |
| K8DD             | K8DD@ARRL.NET          | N8LJ             | N8LJ@USOL.COM            |
| K8ESQ            | K8ESQ@AOL.COM          | N8MOJ            | N8MOJ1@AOL.COM           |
| K8FT             | JIM.KUHNS@IEEE.ORG     | N8MR             | N8MR@ARRL.NET            |
| K8GT             | K8GT@ARRL.NET          | N8OZ             | N8OZ@ARRL.NET            |
| K8IY             | DFWOOD@OAKLANDCC.EDU   | N8QGC            | N8QGC@ARRL.NET           |
| K8JM             | K8JM@USOL.COM          | N8SHZ            | N8SHZ@COMCAST.NET        |
| K8KHZ            | K8KHZ@K8KHZ.COM        | N8SNM            | BNOWAK@SPEAKEASY.NET     |
| K8MSU            | K8MSU@JUNO.COM         | N8ZX             | N8ZX@TDS.NET             |
| *K8NA            | K8NA@ARRL.NET          | NE8I             | NE8I@ARRL.NET            |
| K8NWD            | K8NWD@ARRL.NET         | NE8Z             | NE8Z@YAHOO.NET           |
| K8SIA            | K8SIA@ARRL.NET         | W1SKU            | W1SKU@ARRL.NET           |
| K8SIX            | K8SIX@COMCAST.NET      | W4CEO            | SCAT42@EARTHLINK.NET     |
| K8UP             | JOHN@FLEMING-PHOTO.COM | W8AP             | W8AP@GEOGBH@NETZEROL.COM |
| K8UT             | K8UT@ARRL.NET          | W8GF             | W8GF@COMCAST.COM         |
| K8ZE             | K8ZE@CHARTER.NET       | W8LU             | W8LU@SCHANG.NET          |
| K8ZZU            | K8ZZU@SBCGLOBAL.NET    | W8PP             | W8PP@COMCAST.NET         |
| KC8JAY           | KC8JAY@ARRL.NET        | W8SJ             | W8SJ@AOL.COM             |
| KC8OBH           | KC8OBH@AOL.COM         | W8UA             | W8UA@MYVINE.COM          |
| KC8PKY           | KC8OBH@AOL.COM         | WA8BIJ           | WA8BIJ@ARRL.NET          |
| KK8I             | DL2HBX@DARC.DE         | WD8S             | WD8S@ARRL.NET            |
| KP4E             | KP4E@AMSAT.ORG         | WQ8T             | WQ8T@ARRL.NET            |
| KQ8D             | ROGER49201@YAHOO.COM   | WZ8K             | WZ8K@MIQRP.NET           |
| KT8X             | KT8X@COMCAST.NET       |                  |                          |
| LZ4GU            | N/A                    |                  |                          |
| N4JQQ            | STRUTLEDGE@OIL.NET     |                  |                          |

\*Indicates perpetual membership. 57 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 2005 dues and your call is not indicated, check with Buck to resolve any issues.

Our perpetual roster contains a total of 235 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***

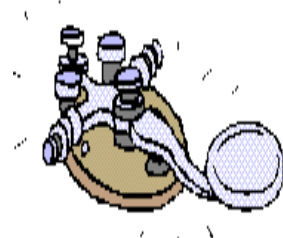
***Make payment at next SEMDXA meeting or mail with remittance to:***

***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!***



# June 2005

## SEMDXA Monthly Planner

| Sunday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Monday                                                                                                                                                                                             | Tuesday                                                                                                           | Wednesday                                                                                              | Thursday | Friday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Saturday                                                                                                                                                         |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
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| <table border="1" style="margin: auto;"> <tr><td colspan="7" style="text-align: center;">May</td></tr> <tr><td style="text-align: center;">S</td><td style="text-align: center;">M</td><td style="text-align: center;">T</td><td style="text-align: center;">W</td><td style="text-align: center;">T</td><td style="text-align: center;">F</td><td style="text-align: center;">S</td></tr> <tr><td style="text-align: center;">1</td><td style="text-align: center;">2</td><td style="text-align: center;">3</td><td style="text-align: center;">4</td><td style="text-align: center;">5</td><td style="text-align: center;">6</td><td style="text-align: center;">7</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">9</td><td style="text-align: center;">10</td><td style="text-align: center;">11</td><td style="text-align: center;">12</td><td style="text-align: center;">13</td><td style="text-align: center;">14</td></tr> <tr><td style="text-align: center;">15</td><td style="text-align: center;">16</td><td style="text-align: center;">17</td><td style="text-align: center;">18</td><td style="text-align: center;">19</td><td style="text-align: center;">20</td><td style="text-align: center;">21</td></tr> <tr><td style="text-align: center;">22</td><td style="text-align: center;">23</td><td style="text-align: center;">24</td><td style="text-align: center;">25</td><td style="text-align: center;">26</td><td style="text-align: center;">27</td><td style="text-align: center;">28</td></tr> <tr><td style="text-align: center;">29</td><td style="text-align: center;">30</td><td style="text-align: center;">31</td><td></td><td></td><td></td><td></td></tr> </table> |                                                                                                                                                                                                    |                                                                                                                   | May                                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |      |  |  | 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  | 3  | 4  | <b>IARU Region 1<br/>Field Day</b><br>QRP TAC Sprint |  |  |  |  |  |  |
| May                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                    |                                                                                                                   |                                                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
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| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30                                                                                                                                                                                                 | 31                                                                                                                |                                                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
| 5<br><b>Chelsea Swap</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6<br><br>"D" Day<br><br>New Moon | 7                                                                                                                 | 8                                                                                                      | 9        | 10<br><b>SEMDXA MEETING RESCHEDULED FOR JUNE 17</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11<br><b>ARRL VHF QSO Party</b><br>Asia-Pacific SSB Sprint<br>EU EME Test<br>GACW CW DX Test                                                                     |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
| 12<br>Portugal Day SSB Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 13                                                                                                                                                                                                 | 14<br><br>Flag Day             | 15                                                                                                     | 16       | 17<br><br><b>SEMDXA MEETING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18<br><b>All-Asian DX Test</b><br>Quebec QSO Party<br><b>WV QSO Party</b>                                                                                        |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
| 19<br><b>Father's Day</b><br>Monroe Swap<br><b>SMIRK QSO Party</b><br>Spanish Island Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20                                                                                                                                                                                                 | 21<br><br><b>Summer Begins</b> | 22<br><br>Full Moon | 23       | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25<br><br><b>ARRL Field Day</b><br>King of Spain SSB Test<br><b>QRPP FD</b> |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27                                                                                                                                                                                                 | 28                                                                                                                | 29                                                                                                     | 30       | <table border="1" style="margin: auto;"> <tr><td colspan="7" style="text-align: center;">July</td></tr> <tr><td style="text-align: center;">S</td><td style="text-align: center;">M</td><td style="text-align: center;">T</td><td style="text-align: center;">W</td><td style="text-align: center;">T</td><td style="text-align: center;">F</td><td style="text-align: center;">S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">1</td><td style="text-align: center;">2</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">4</td><td style="text-align: center;">5</td><td style="text-align: center;">6</td><td style="text-align: center;">7</td><td style="text-align: center;">8</td><td style="text-align: center;">9</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">11</td><td style="text-align: center;">12</td><td style="text-align: center;">13</td><td style="text-align: center;">14</td><td style="text-align: center;">15</td><td style="text-align: center;">16</td></tr> <tr><td style="text-align: center;">17</td><td style="text-align: center;">18</td><td style="text-align: center;">19</td><td style="text-align: center;">20</td><td style="text-align: center;">21</td><td style="text-align: center;">22</td><td style="text-align: center;">23</td></tr> <tr><td style="text-align: center;">24</td><td style="text-align: center;">25</td><td style="text-align: center;">26</td><td style="text-align: center;">27</td><td style="text-align: center;">28</td><td style="text-align: center;">29</td><td style="text-align: center;">30</td></tr> <tr><td style="text-align: center;">31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> |                                                                                                                                                                  | July |  |  |   |   |   |   | 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                                                   |  |  |  |  |  |  |
| July                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                    |                                                                                                                   |                                                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | M                                                                                                                                                                                                  | T                                                                                                                 | W                                                                                                      | T        | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S                                                                                                                                                                |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
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| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11                                                                                                                                                                                                 | 12                                                                                                                | 13                                                                                                     | 14       | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 16                                                                                                                                                               |      |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                      |  |  |  |  |  |  |
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