



Long Path



Volume 20 Issue 9

SEMDXA NEWSLETTER

June, 2003



President's Report

Greetings fellow *SEMDXA* members!

It was a pleasure seeing some of you at Dayton and I hope you all came back with the toys you were seeking. I know Ken, **W8LU** did as I spoke with him there and he was very pleased with his purchases.

Myself, I came away with a Tarheel antenna for the mobile so I can get back into County Hunting. I realize it's not DX, but with the SFI being as low as it has been, I am looking for a substitute. Hi.

I am looking forward to some of the Dayton war stories at our next meeting on June 13. In particular, some of the good deals in the flea market. Since it rained a good portion of the Hamvention, I would think there were some good deals to be had outside.

At the June meeting we will have Uli, **KK8I/DL2HBX**, put on a presentation on the **CN8WW** DXpedition. Their group provided me with two new band countries, one of which was on 160 meters. I am sure others in the club worked them as well so let's all make it

to the June meeting to meet Uli and give him a warm welcome to Michigan for his three year assignment here with Volkswagen.

Before closing, I would also like to thank Stan and Hank for putting on an excellent presentation at the May gathering. Very well put together and very informative. I am looking forward to more from these two. Hank is going to Zone 2 to scope out a site soon - so if you need Zone 2 get with him and make a sked.

Take care and I will be seeing all of you at the June meeting.

K8SIX

May Minutes

Meeting called to order by President **K8SIX** at 7:45 PM. Introductions were given with nineteen members and guests present.

K8SIX informed the group that Uli - **KK8I** - had been called away on business and that **K8DD** and **AC8W** had volunteered to substitute by providing their **VC2C** contest operation.

K8SIX asked if anyone was familiar with WinCAP, a propagation program. Discussion followed.

Tonite's program featured the October, 2002 CQ/WW Phone Contest DXpedition to Zone 2 in Northwestern Quebec. Team Zone 2 is comprised of primarily Hams from Ontario with a couple of East coasters and two Michigan opera-

tors plus a brit aboard.

Both Hank and Stan had been to Lake Ouestcapis, 90 kM North of Mata-gami, PQ back in the 1970s. The Team 2 group has been doing the same trip for four years at the same campground, but in 2002 plans were made to operate from a logging camp because it is the "off" season for logging. Plans were laid and everyone was looking forward the trip when an e-mail was received telling us that the intended camp was closed! Some frantic phone calls to the James Bay

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**

Municipality resulted in an arrangement to use Camp 257, another logging facility on the shores of the Rupert River.

The Michigan contingent left on Tuesday, October 22 and met up with two Hams from Sarnia, Ontario to begin the caravan up to the North country. We spent the night with **VA3ZP**, Carl near Barrie and left very early the next morning. After 900 mile into the taiga we arrived at Camp 257 about 10:30 PM Wednesday evening. The camp is 257 KM north of the nearest town, Matagmi and the road is the Route del la Baie James (James Bay Highway). Thursday and Friday were spent erecting antennas. Band crews were responsible for equipment and antenna and all the gang pitched in to make sure we were ready for the contest.

The camp had dining facility, dispensary and dormitory rooms. We operated from one of the office/dormitory buildings in relative comfort. Power was supplied from the camp's 60 kW diesel generator and power distribution was handled by two of the group who are electricians with a gold mine near Timmons.

One of the historic features of this DXpedition was the authorization from Industry Canada for transmission and contact with authorized users on the 60 Meter band, the very first ever in Canada. This was done prior to the contest weekend and direct contacts were made with several stations in the UK. Cross-band contacts (60/40M or 60/80M) were made with many VE and W stations and many SWL reports were received.

As luck would have it, we had an Internet connection for the entire contest weekend so we were able to monitor spots and look for multipliers. Weather was in the 30/40° F range with snow every evening that would

melt away during the next day.

Canada does not issue "special event" call signs but will issue commemorative calls. Our contest call was VC2C to commemorate the laying of the Trans-Pacific Cable.

Equipment included the following: 10M, 5-element monobander @ 40' ,an Icom 746 with an MLA 2500 Amplifier; 15M, 4-element monobander; 20M, 3-element monobander; 40M, 4-square and a dipole; 80M, 4-square using surplus masts for a ship and fed with 7/8" Heliax; 160M, 110' vertical fed with Heliax.

When the contest started on Friday night we did our best to hand out the semi-rare Zone 2 contacts to the deserving. One of the advantages (or demoralizing factors as it were) to having an Internet link was that we could see what the aurora was doing and, for a good portion of the weekend, we were well under the aurora cap. Absorption, especially on 10 Meters was a killer.

QSO totals by band are as noted: 160M, 309; 80M, 545; 40M, 878; 20M 2,091; 15M, 2,562; 10M, 1835.

Monday we found ourselves in a constant snowstorm as all the antennas came down and gear was packed. By about three o'clock we drove out of the camp and headed for our respective home locations. The Barrie/Sarnia/Port Huron contingent ran into an ice storm and decided to spend the night at Rouyn-Noranda and finished the trip home on Tuesday.

All in all, this was quite an adventure and plans are being made to go North again this October. The call will be **VB2C** to commemorate the 400th anniversary of Samuel de Champlain's first voyage to Canada in 1603. Look for us!

President **K8SIX** opened the floor for nominations for Club Officers for next

year. The following were nominated: President, **K8SIX**; Vice-President, **K8JM**; Secretary, **AC8W**; Treasurer, **N8CQA**.

We are still looking for a program manager. Additional nominations will be taken next month (June 13 meeting) prior to the election.

W8GF asked about the scheduled appearance of Don Miller, ex **W9WNV**, who spent several years in prison after being convicted of attempted murder. He was a top notch operator but several of his claimed DXpeditions were discredited by the ARRL DX Desk after it was found that he had not actually been to the rare spots claimed. He will be a speaker at the DX Forum this year at the Dayton Hamvention.

Meeting adjourned at 9:00 pm.

AC8W, Secretary



DX Prospects

In a word, high frequency propagation has been terrible recently. Ionospheric disturbances seemed endless with A-Indices in the 30s and 40s and K-Indices of 4 and 5! This is typical as we approach the end of Cycle 23. However, we can expect improved low-band propagation as we go forward but with diminished propagation on the higher bands (10, 12 & 15 Meters). Twenty Meters will become a strictly day-time band with 40 Meters open nearly around the clock to some DX locations. Signal levels will be

significantly higher on 80 and 160 Meters. This should partially offset lessened propagation opportunities on 10, 12 and 15 Meters. Also, with our new allocations on the 60 Meter band, DXing will more than survive, thank you!

Speaking of 60 Meters, it looks as though we have been granted five spot frequencies, 5332, 5348, 5368 5373 and 5405 kHz each with a maximum bandwidth of 2.8 kHz. The stipulation indicates Upper Sideband only with 50 Watts maximum and an antenna gain of 0dB. This seems to preclude any CW operation but this point requires clarification (you can jam a lot of CW signals into 2.8 kHz). According to what has been stated, the restriction of USB only will assist in "maintaining interoperability with federal government users". General class licensees and higher will have access. Not what we had hoped for but still, in all, a pretty useful addition to our propagation arsenal.

W8GF

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## This and That

Amateur Radio antenna bills in Tennessee and Indiana have been signed into law by the governors of those states. Their successful passage brings to nineteen the number of states that have adopted amateur antenna laws based on the limited federal preemption known as PRB-1. Originally, both versions of the bill contained antenna structure heights below which localities could not regulate. However, this provision was eliminated in both states. Other items in the law were included to protect localities based on safety, health and aesthetics in general. Radio antenna bills are pending in several other states includ-

New York, New Jersey and California.

Logbook of the World (LoTW) - the League's protected electronic confirmation system - is now in beta testing! According to Wayne Mills, **N7NG** the system is designed to augment the present hard copy QSL system and not replace it. He indicated that it should improve efficiency and be cost-effective in the pursuit of various ARRL awards. Of course, much depends upon cooperation from DX stations and DXpeditions. Without their participation (translate that to "up loading their log files"), the system will not be effective. The beta testing period is expected to last up to sixty days.

*The June meeting is considered SEMDXA's annual meeting. Some members have been nominated with other nominations scheduled prior to the election. All members are urged to attend and participate in this important aspect of our organization. Also, **KK8I (DL2HBX)** will provide an interesting program dealing with the recent **CN8WW** contest operation. See you there?*

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This is the last edition of the *Long Path* until September. Enjoy your summer activities but with due caution! This is of course, the best time of the year to make those antenna changes and get ready for improved Low Band propagation expected this fall.

DX Notes

Thor, **4W3DX** (East Timor) has been active again on 20 Meter CW recently around 1200Z with a huge signal. His activity will continue through mid June.

W0YG will sign **VK9XG** from Christmas Island beginning in late October. (**VK9X** is in the top twenty-five of the most wanted list). He plans special attention to low band addicts as well as RTTY.

XW1IC (Laos) will be active during the month of June. He promises some low band activity but it is doubtful if there will be much chance to work him on these bands from this area.

OH2BH brought along a huge box of QSLs for the recent **AH3D** Johnston Atoll fracas to the Dayton Hamvention. Those that were not handed out to the attendees will be mailed in the near future.

Logs for the recent **TX4PG** Marquesas Islands event are now on-line at <http://www.digilander.libero.it/i2ysb>. Over 20,000 QSOs resulted, mostly on CW. QSL via **I2YSB**. Silvano can be reached at i2ysb@Libero.it This was a fine example of a multi-band DXpedition with outstanding CW operators!

The DXCC Desk has approved a number of operations which have taken place in Iraq including **YI/S53R**, **YI/ON6TT**, **YI/SM7PKK**, **YI/ON5NT** as well as several others. Some of these stations are also active at times from Afghanistan.

Recent word is that Ron, **ZL1AMO** is back in good health and active again on the air. This is outstanding news considering his close-call with the grim reaper last year.

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## 8th CALL AREA ARRL QSL BUREAU CHANGE

Following courtesy of Hank, **K8DD**

May, 2003

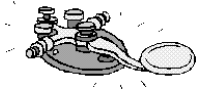
The 8th area QSL bureau has a new manager in Jay Slough, **K4ZLE** of West Chester, Ohio. His e-mail address is k4zle@arrl.net. The bureau address is:

**8th Area QSL Bureau**  
**Post Office Box 307**  
**West Chester, Ohio 45071-0307**

Individual letter managers together with their e-mail addresses are as noted below:

|   |               |                                    |
|---|---------------|------------------------------------|
| A | <b>K8AX</b>   | k8ax@arrl.net                      |
| B | <b>WD8ANZ</b> | wd8anz@arrl.net                    |
| C | <b>N8CXQ</b>  | n8cxq@arrl.net                     |
| D | <b>KG8DH</b>  | kg8dh@arrl.net                     |
| E | <b>W8ERD</b>  | rdixon@stargate.acs.ohio-state.edu |
| F | <b>W8DCH</b>  | w8dch@worldnet.att.net             |
| G | <b>W8OHC</b>  | N/A                                |
| H | <b>WA5SHP</b> | elliottdt@msn.com                  |
| I | <b>KG8DH</b>  | kg8dh@aol.com                      |
| J | <b>K2PZH</b>  | artkamlet@aol.com                  |
| K | <b>K8KR</b>   | pindroh@en.com                     |
| L | <b>KA8PTT</b> | ka8ptt@arrl.net                    |
| M | <b>K8CW</b>   | N/A                                |
| N | <b>WB8UWX</b> | wb8uwx@arrl.net                    |
| O | <b>K9ALP</b>  | k9alp@arrl.net                     |
| P | <b>K8PYD</b>  | k8pyd@compuserve.com               |
| Q | <b>K8JIF</b>  | N/A                                |
| R | <b>K8VG</b>   | k8gvag@1st.net                     |
| S | <b>WT8S</b>   | xtraclass@aol.com                  |
| T | <b>N8WS</b>   | wsquires@nccw.net                  |
| U | <b>K8UPR</b>  | k8upr@aol.com                      |
| V | <b>WB8UWX</b> | wb8uwx@arrl.net                    |
| W | <b>W8WRP</b>  | w8wrp@juno.com                     |
| X | <b>K8VG</b>   | k8gvag@1st.net                     |
| Y | <b>WB8YJF</b> | wb8yjf@earthlink.net               |
| Z | <b>N8LSL</b>  | darkstar85@yahoo.com               |


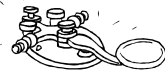

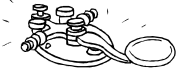




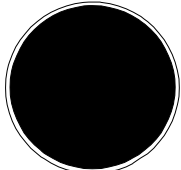
Note: e-mail addresses change often. This list is up to date as of the time of publication of this issue of the *Long Path*. Please advise the *Long Path* editor/publisher if you note errors. Thanks!



# June 2003

## SEMDXA Monthly Planner



| Sunday                                                                                                                                                     | Monday | Tuesday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Wednesday                                                                                                           | Thursday                                                                                                    | Friday                                                                                                    | Saturday                                                                                              |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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| 1                                                                                                                                                          | 2      | <br>WWII BATTLE OF MIDWAY ISL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                                                                                                                   | <br>WIAW QUALIFYING RUN   | <br>WWII EUROPEAN DAY  | 7<br><b>GRAND RAPIDS SWAP</b><br>QRP TAC CW TEST<br>WW SA CW TEST                                     |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8                                                                                                                                                          | 9      | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <br>WEST COAST K6YR QUALIFYING RUN | 12                                                                                                          | <br>SEMDXA MEETING     | 14<br>AA DX CW TEST<br><b>ARRL VHF QSO PARTY</b><br>FLAG DAY PORTGUAL DAY TEST<br><b>WV QSO PARTY</b> |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 15<br>ANARTS WW RTTY TEST<br><b>FATHER'S DAY</b><br> <b>MONROE SWAP</b> | 16     | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 18                                                                                                                  | <br>WIAW QUALIFYING RUN | 20<br>KID'S DAY EVENT<br><b>KING OF SPAIN SSB TEST</b><br><b>SMIRK QSO PARTY</b><br><b>SUMMER BEGINS!</b> |                                                                                                       |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 22                                                                                                                                                         | 23     | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <br>KOREAN WAR BEGINS            | 26                                                                                                          | 27                                                                                                        | 28<br><b>ARRL FD HASTINGS SWAP</b><br>MARCONI HF CW TEST<br>QRP ARCI FD                               |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 29<br><br>NEW MOON                                                      | 30     | <table border="1"> <thead> <tr> <th colspan="7">May</th> </tr> <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> |                                                                                                                     | 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 | <table border="1"> <thead> <tr> <th colspan="7">July</th> </tr> <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> |  | 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 |
| 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                                                                                                    |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 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                                                                                                    |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |