



THE PROPAGATOR

8 Donner St.
Holmdel, NJ 07733
Editor: Bob Buus, W2OD

SEPTEMBER 2015

UPCOMING GSARA MEETINGS

The next GSARA meeting will be on **Wednesday, September 2 at 7:30 PM** at the Red Cross. The program will feature Jeff Harshman, N2LXM talking about lighthouse weekend at Sandy Hook. Bring a guest and enjoy the light refreshments that will be available.

The second meeting in September will be held on **Wednesday, September 16 at 7:30 PM** at the Red Cross. This will be a regular business meeting. Refreshments will be served and guests are welcome.

GSARA NET 8:30 PM TUESDAYS

GSARA members meet on the Asbury Park repeater every Tuesday at 8:30 pm. In the four sessions in August, we had 12 check-ins for an average of 3 per session. The following 8 members checked into this net at least once (number of check-ins in parenthesis):

W2OD (3), N2HGI (2), KD2IEC (2), N2BMK (1), KA2F (1), W2HTS (1), WA1PCY (1) and WB2RPW (1).

Mark your calendar so you remember to participate. The more participation, the more fun!

VE TEST SESSION SEPTEMBER 12

The GSARA monthly test session will be held on Saturday, September 12 at 11 am at the GSARA Hamfest. The fee is \$15 and you should bring the original and a copy of any amateur license presently held and the original and one copy of any credit (CSCE) forms that you have (copies will be sent in with your test results). Also bring 2 forms of ID with one being a photo ID. For more information, contact Rich Bilon, N3RB at 732-972-1397 or n3rb@arrl.net.

GSARA HAMFEST SEPTEMBER 12

Plan to attend the GSARA Hamfest on Saturday, September 12 at our usual site in the MOESC parking lot in Tinton Falls. The gate opens for vendors at 7 am and buyers at 8 am. As at the last Hamfest, vendors get their first parking space free with the purchase of an admission ticket for \$5. Additional spaces are \$10 each.

Food and beverages will be available for purchase. There will be a VE Test Session at 11:00 am. Talk-in is on the W2GSA repeater on 147.045 + PL 67. For more information, go to <http://www.gardenstateara.org/hamfest>

We look forward to a huge turnout!

NAQP SSB RESULTS

GSARA operated the North American QSO Party (NAQP) SSB contest from 2 pm Saturday, August 15 to 2 am Sunday morning.

We generally kept two transmitters on the 15m, 20m, 40m, and 80m bands, depending on conditions and clubs members participating.

Operators were Ray, WA1FFT; Cy, K2CYS; Bob, W2OD; John, KA2F; Jim, K2EI; Mike, K1MH; Rem, K2REM; John, KC2YWL; Marty, N2BMK; Len, WA1PCY; and Syd, KG2CM.

We made 290 contacts and had a multiplier of 79 (81? – Ed.) for a total score of 22,910 (23,490? – Ed.).

States logged per band:

15m 1; 20m 34; 40m 30; 80m 14; North American DX 2, (Cuba and Puerto Rico).

The next GSARA operating opportunities will be the NJ QSO Party in September and NAQP SSB in January, 2016.

73 John KA2F

GSARA OFFICERS

President	W2HTS	Howard Suffill	460-1885
Vice Pres.	NJ2H	Bill Shockley	207-4466
Secretary	W2OD	Bob Buus	946-8615
Treasurer	KA2F	John King	942-7705
Engineer	W2EPD	George Graulich	255-7916
Webmaster	K2CYS	Cy Stanway	768-7773
Publicity	NJ2H	Bill Shockley	207-4466
Repeater	N2LXM	Jeff Harshman	922-0816
Radio Room Phone		732-493-9100, X1252	
Trustees	W2KQ	Joe Dreifuss	493-4236
	W2OD	Bob Buus	946-8615
	W2HAM	Lou Russo	842-6431

FRIDAY BLUE SWAN LUNCHEONS

A number of local radio amateurs meet each Friday at the Blue Swan Diner on Highway 35 south in Ocean Township at noon. Anyone interested in amateur radio is welcome to join us in the sun room at the north end of the diner.

PATCHES

We have GSARA patches available at all meetings and they cost \$3.

OUTGOING QSL CARDS

If any GSARA members wish to combine their QSL cards that are going through the outgoing ARRL Bureau, please bring them to the next GSARA meeting along with the label from a recent QST Magazine (you must be an ARRL member to participate in this program). Ray, WA1FFT will then send them on to ARRL at no charge to GSARA members. It couldn't be much easier than that to QSL. You are registered at the W2 incoming bureau, aren't you?

PROPAGATOR NOW ON THE WEB

The *Propagator* is available as a PDF file at:

<http://www.gardenstateara.org>

Click on "The Propagator" and then select the month you want.

GSARA HOMEPAGE

<http://www.gardenstateara.org>

HUDSON DIVISION HOME PAGE

<http://www.hudson.arrl.org>

EDITOR'S NOTES

Congratulations to our own Blair Hearth, KD2EPA for being granted the prestigious Technical Achievement award from the Hudson Division (see page 4). He will be honored at the Hudson Division Awards Luncheon on November 8 at Palisades Park, NJ (see page 5). Hopefully, a large contingent of GSARA members will attend and honor Blair.

I have produced an up-to-date Roster for GSARA which is included in the mailed copies of *The Propagator* (hence, only 8 pages this time). A PDF copy of the Roster will be sent via e-mail to all members getting *The Propagator* electronically. Please let me know if you find any errors in this Roster.

The next big GSARA event is our Fall Hamfest (see page 1). Special thanks to Rem, K2REM and Joe, W2KQ for attending to all of the planning details. Let's hope for good weather and a fantastic turnout!

I haven't upgraded to Windows 10 yet and don't know if the threat outlined on page 6 is serious or not. Like all things obtained from the internet, this one could be bogus. After all, if you can't trust Microsoft, who can you trust? ☺

For those of you chasing special event stations, the Pope's visit brings out several stations (see page 5) so there should be plenty of opportunities to work these stations. The Red Cross may ask us to staff the Headquarters station at times that week. President Howard, W2HTS will keep us posted.

GSARA participation in the August 15 NAQP on phone was a success (see page 1). I was pleased to see so many operators come forth to operate so we kept two transmitters on the air much of the time. Conditions were not always easy so I congratulate all the volunteer operators who continued to find contacts in spite of band conditions. Special thanks to John, KA2F for organizing this event, getting the food and staying at the station for over 14 hours. I look forward to doing it again at the NJ QSO Party as well as NAQP in January.

As always, I appreciate feedback or material for *The Propagator*. The deadline for the October issue is September 15.

73 de Bob, w2od@arrl.net

MINUTES OF AUGUST 5 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS and vice president Bill Shockley, NJ2H were absent so the meeting was called to order by Treasurer John King, KA2F at 7:31 PM at the Red Cross. There were 11 members present. After the pledge to the flag, all present introduced themselves and shared their recent amateur radio activities.

Health and Welfare

Frank, W2XYZ is at home and recovering from his recent surgery very nicely. He expects to soon be off his medications.

Secretary's Report

Being a program meeting, there were no Secretary nor Treasurer reports.

Old Business

The CW improvement proposed by Cy, K2CYS is drawing to a close. Please notify Cy of how your CW proficiency has improved in the past year. The winner will be announced later this year. John, KA2F suggested saying the license plate of the car ahead of you in Morse code. This gives good practice for both letters and numbers.

Hudson Division Awards Luncheon

The awards luncheon is coming up in November and will be in Northern New Jersey this year. GSARA has nominated Joe, W2KQ for the Grand Old Ham award and Blair, KD2EPA for the Technical Achievement Award.

Program

The program was a tutorial on operating the North American QSO Party (NAQP) coming up on August 15-16. Cy, K2CYS gave several useful hints on operating on phone in a contest. Bob, W2OD had set up the Yaesu FT-450D interfaced to a computer running the N3FJP NAQP logging program and Cy demonstrated how to use the function key macros as a voice keyer to save your voice when calling many CQs during a contest.

Several members signed up for operating slots for the 12-hour duration of the contest. We hope to keep two stations on the air for the entire 12 hours if we get enough operators.

Close

The 50/50 of \$9 was won by John King, KA2F. There being no further business, a motion was made and seconded to adjourn the meeting which was closed at 9 pm.

MINUTES OF AUGUST 19 MEETING

By Bob Buus, W2OD, Secretary

President Howard Suffill, W2HTS called the meeting to order at 7:39 PM at the Red Cross. There were 16 members present. After the pledge to the flag, all present introduced themselves.

Health and Welfare

Frank, W2XYZ has significantly recovered from his surgery and was at the meeting.

Secretary's Report

A motion was made by Rem, K2REM and seconded by Hunter Suffill to accept the minutes of the August 5 meeting as they will be published in the September Propagator. The motion passed unanimously.

Treasurer's Report

Treasurer John King, KA2F gave his report. A motion was made by Hunter Suffill and seconded by Frank, W2XYZ to accept the report as read. The motion passed unanimously.

Hamfest Committee

Rem, K2REM had new flyers printed for the September 12 Hamfest and invited members to take whatever number they can use. Rem will also e-mail flyers to all past attendees that we have e-mail addresses for. A motion was made by Rem, K2REM and seconded by Jeff, N2JFL to authorize \$500 for upcoming Hamfest expenses. The motion passed unanimously.

NAQP Operation

John, KA2F reported on the North American QSO Party this past weekend. We had 12 operators to cover the 12-hour duration of the contest and had at least one transmitter on the air for the entire time. It was an excellent training session and we all learned a lot about phone contesting using the voice macros of the N3FJP logging program.

VE Testing Committee

Rich, N3RB reported that our next session is on Saturday, August 29. He will not be present so the session will be run by Mike, K1MH. The next session will be at the September 12 Hamfest in lieu of the September regularly scheduled session.

Old Business

Rem, K2REM suggested that when we send e-mail to members@gardenstateara.org that we use BCC instead of "Copy to" to hide member's addresses from spammers. It was asked if this could be done automatically and Frank, W2XYZ offered to look into it.

New Business

Howard, W2HTS received an e-mail from the Red Cross alerting us that there is need for volunteers during the Pope's visit to Philadelphia in September. Volunteers may be needed for a shelter in Camden County as well as a need to activate the station at the Red Cross. Further details will be shared as we receive them.

Announcement

Chris, W2NQB is looking at remote antenna switches and asked if anyone could recommend a preference between one made by Ameritron and one from DX Engineering. The Ameritron was thought to be a better buy since it was \$100 cheaper.

Close

The door prize of \$15 was won by Howard, W2HTS. There being no further business, a motion was made by Ray, WA1FFT and seconded by Marty, N2BMK to close the meeting which was adjourned at 8:27 pm.

PAUL R. STUBB, AB6IX - SK

Paul Stubb, AB6IX was born in Englewood, NJ on December 1, 1925 and died August 2, 2015. He is survived by his wife, Barbara; 3 children, and 3 grandchildren.

Paul grew up in Ocean Grove, New Jersey and attended Ocean Grove High School. He was a troop leader with the Boy Scouts of America and member of the Ocean Grove Volunteer Fire Department.

Paul served in **WWII** in Europe as an army infantryman where he was awarded two **bronze**

stars. He later attended the Newark College of Engineering, studying mechanical engineering.

Paul founded Mesa West, Inc., a custom equipment building company, in Orange, CA, in 1971. He was awarded two patents for high speed circuit board electroplating and built the first automated hard disk processing system for Aeon (later Seagate).

Paul enjoyed a multitude of hobbies, mastered nearly every pursuit which captured his interest, and was an avid outdoorsman and naturalist. He was an expert fly fisherman, sailor, ham radio operator, oil painter, and radio controlled airplane builder and flyer. He was known for his sense of humor, was quick to forgive, and slow to speak unkindly of others. Paul's life touched many people and he will be dearly and deeply missed.

In lieu of flowers, the family suggests donations to The Warriors and Quiet Waters Foundation, an organization dedicated to "building resilience and hope to traumatically injured warriors through fly fishing and other mediums."

(<https://warriorsandquietwaters.org/donate>)

AWARD TO BLAIR HEARTH, KC2EPA

Our own club member **Blair Hearth KD2EPA** will receive the **ARRL Hudson Division Award for Technical Achievement** at the awards luncheon Saturday, November 8, 2015.

As you should remember, Blair presented to a recent club meeting on radio astronomy and his recording of meteor activity, using beyond the horizon radio signals, home-brew antennas, and rather sophisticated software.

His first award, "Golden Level" was given by the Astronomy League just a few weeks ago. Now his fellow hams will recognize his achievement as well.

Blair got into ham radio and passed his Tech exam just two years ago and recently upgraded to Extra.

You can give Blair your congratulations when you see him locally and at the November 8 luncheon. Send him your best wishes at: bahearth@yahoo.com.

Congratulations, Blair!

John, KA2F

HIRAM PERCY MAXIM BOOK REVIEW

Hiram Percy Maxim, the founder of the ARRL, wrote a book about his parents, "A Genius in the Family" which was first published in 1936 shortly after his death. The Genius referred to in the title was Percy's father, Sir Hiram Stevens Maxim who invented the Maxim machine gun among his many notable inventions. He offered the gun to the United States War and Navy Departments and both declined it as impractical. Miffed, he took his gun to England and offered it to the British War Office, which took it up and was used successfully in the War of the Soudan. Hiram Stevens Maxim never returned to the United States and became a British subject in 1900, was knighted by Queen Victoria in 1901 and died in England in 1916.

This book relates several anecdotes about Percy and his father when Percy was a very young boy. The book opens with "I suspect I had one of the most unusual fathers anybody ever had. I was his firstborn. He knew considerably less than nothing about children and he had to learn how to be a father. He learned on me."

In 1946, the book was loosely adapted and made into a movie, "So Goes My Love" starring Don Ameche as Hiram Steven Maxim, Myrna Loy as Percy's mother and Bobby Driscoll as Hiram Percy Maxim. The movie emphasized the tumultuous relationship between the father and mother rather than the book's emphasis on the father-son relationship.

In response to the fact that machine gun nests were too easy to locate by their repetitive sound, Hiram Percy Maxim invented the silencer and from that developed the automobile muffler. He went on to found the ARRL and became "The Old Man."

The book has been donated to the GSARA library and is available to be borrowed by the members.

HUDSON DIVISION AWARDS LUNCHEON

The Hudson Division Awards Luncheon will be held on Sunday, November 8 from noon to 4 PM at Meson Madrid in Palisades Park, NJ. Tickets for the event are now being sold. At the moment, only checks can be accepted as payment. To purchase tickets, please go to the Hudson Division website, print out the ticket order form,

and mail it in following the instructions on the page. Here is the link to the order form:

<http://hudson.arrl.org/wp-content/uploads/2015/07/2015-ARRL-Hudson-Division-Awards-LuncheonTicket-Form.pdf>

Tickets this year are \$42.50 per person. The restaurant is set up with smaller tables so there is no table discount.

The past 2 years we have raised nearly \$10,000 that has been donated to the ARRL. The money this year will once again be used to help offset the expenditures we've been making in support of our HR-1301/S.1685 advocacy effort.

I hope to see you at the luncheon on Sunday, November 8, 2015! 73 de Mike N2YBB

POPE FRANCIS VISIT

Pope Francis visits the United States September 22 – 27 and amateur radio will be part of the celebration. Throughout the 6 day event (September 23 0000Z – September 28 0000Z) 6 special event amateur radio stations will be on the air to commemorate the event. Call signs from the Washington, DC area will be K3P and N4P. From New York and New Jersey the call will be K2P. W3FRC/WMF will be on the air from southeastern Pennsylvania and W3P will be on the air in Philadelphia. WM3PEN, also of Philadelphia, will join in Thursday evening at 8 PM EST (Friday 0000 GMT). Four unique QSL cards will be available along with a certificate to mark this special and historic event. A website is being established for QSL and certificate information. Early information and links can be found on the WM3PEN qrz.com website.

The Pope arrives at Joint Base Andrews on September 22 and begins his visit in Washington, D.C. with a meeting with President Obama on Wednesday, September 23. He delivers a speech to a joint session of Congress on Thursday, September 24. On Friday he attends a meeting of the United Nations General Assembly in New York and participates in a multi-religious service at the 9/11 Memorial and Museum at the World Trade Center. On Saturday he gives a speech at Independence Hall in Philadelphia and concludes his visit to the U.S. with an outdoor mass in front of the Philadelphia Museum of Art on Sunday, September 27.

WINDOWS 10 WARNING

I received the following from the internet. I'm not sure that it is true nor do I believe that you can't undo it. But you might keep it in mind when installing Windows 10 – Ed.

Please DO NOT download Windows 10 without reading this.

While going through the install process, there is an option that most people will click-on that will allow Microsoft to monitor ALL YOUR keystrokes & websites you visit -- forever! Plus you will be giving Microsoft the okay to SELL YOUR INFO to anyone! Microsoft doesn't make this choice very obvious. I think MS is offering this update for free because SO MANY people will unknowingly click on this express option (they can never undo it, by the way) that MS will be making bucket-loads of \$\$ from the businesses that buy user's info from them.

In a nutshell -- A few screens in, there will be a page titled "Set Up For You, So You Can Get Going Fast." It will be suggested to you that you click on "Use Express Settings" -- DON'T DO IT. "Use Express Settings" will be a clickable option, in large letters, in lower right corner of the screen. THIS IS NOT WHAT YOU WANT.

Instead, choose Customize Settings, in very small print in the lower left of that same screen.

When you choose Customize Settings, there will then be 9 options to turn ON or OFF over the next 2 pages. You will want to TURN 8 OF THEM OFF. The only one you will want ON is "Use SmartScreen online services to help protect against malicious content and downloads in sites loaded by Windows browsers and Store apps" – it should be the 1st option on the 2nd page. You will notice a clock on the lower left. You only have a limited time to go through these 9 options. I do not know just how fast the clock runs. Just keep an eye on it. (I think MS wants to rush you through this so you can't think about it, hoping you'll make a mistake.) NOTE: if you had chosen "Use Express Settings" all of these settings will be ON. And you can't go back and change your mind on these.

Please pass this on to anyone else you want. I would suggest everyone! If you aren't installing W10 right away, save this until then.

TEN YEARS AGO

From the September 2005 Propagator: Laura, N2HGI had a benign tumor removed from her head and is recovering. Tony, KA2ZSI suddenly lost his wife, Alice after 46 years of marriage. The GSARA generator was moved from the QTH of Rich, K2CPE to that of Jeff, N2LXM (*it was recently moved to the back of the Red Cross*). ARRL is holding a 15-hour Emergency Power Operating Event on September 17. ARRL is offering a reproduction of the 1926 first Handbook to all who purchase the 2006 Handbook. CQ magazine announced a CQ iDX award which allows contacts via the internet VOIP. ARRL debuted the ARES E-Letter.

FIFTEEN YEARS AGO

From the September 2000 Propagator: Special event station K2USA was on the air from Ft. Monmouth commemorating the Fort's 75th anniversary. A total of 590 contacts were made and special QSL cards are being printed. The GSARA Hamfest is coming October 14 and will include a special blood drive to benefit Clarence Kastner, KA2OZA (now SK). Dr. Frank Gudicello, K2TVY joined GSARA.

TWENTY YEARS AGO

From the September, 1995 Propagator: Al Emer, N2YAC (now SK) will talk about hot air ballooning at the September 20 meeting. A trip to ARRL headquarters is planned for September 27. A dinner-dance is planned at the Town and Country Inn in Keyport on October 20.

TWENTY-FIVE YEARS AGO

From the September 1990 Propagator: The editor Elena Worrell, N2ITL had an interesting article about using HTs while hiking in the White Mountains in NH. Phil Peterson, W2DME (now SK) had an article about Amateur Radio in the Space Age.

THIRTY YEARS AGO

From the September 1985 Propagator: Steve Mendelsohn, WA2DHF (now SK) gave a talk about covering President Reagan on his travels. John King, KA2F is looking for a 2-meter beam.

NOTES ON CALENDAR (see next page)

Large Call letters denote birthdays e.g. **N2UUS** on September 19. All times EDST. Contests are listed in the September QST, p. 81

September 1 – **Old Barney VE Session** at 6:30 pm in Manahawkin. Contact Urb Le Jeune, W1UL at 609-296-5856 or urb@w2dec.com

September 1 – **Old Barney ARC Meeting** at 7:30 pm in Manahawkin, NJ. See <http://www.obarc.org>

September 1 and every following Tuesday – **GSARA Net** on 147.045 PL=67 at 8:30 pm.

September 1 and every following Tuesday – **QCWA News Net** on 147.045 PL=67 at 9:00 pm.

September 2 – **GSARA Meeting** at 7:30 pm. Program is about operating from the Sandy Hook lighthouse by Jeff Harshman, N2LXM

September 3 - **HCARC meeting** at 7 pm at Holiday City South Clubhouse in Toms River.

Sept. 4-6 – **All Asian DX Contest**, Phone from 8 pm Friday to 7:59 pm Sunday. See http://www.jarl.org/English/4_Library

September 4 - **W1AW Qualifying Run** at 10 pm (10-35 wpm). See September 2015 QST page 95 and www.arrl.org/qualifying-run-schedule

Sept. 5-6 – **RSGB SSB Field Day** from 9 am Saturday to 9 am Sunday. See <http://www.rsgbcc.org>

September 6 and every Saturday, Sunday and Wednesday – **InfoAge Marconi Hotel** open from 1 to 5 pm on Marconi Road in Wall.

September 7 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

September 9– **Holiday City VE Session** at 7 pm in Toms River. Contact is Larry Puccio, K2QDY at 732-349-2950 or e-mail at lpuccio1@comcast.net

September 10 – **JSARS meeting** in Riverwood Park Rec. Building, Rt. 527 and Riverwood Drive at 7:30 pm.

September 12 – **GSARA Hamfest** from 8 am to noon at MOESC Parking lot in Tinton Falls. See page 1 and <http://www.gardenstateara.org/hamfest>

September 12 – **GSARA VE Test Session** at 11 am at MOESC in Tinton Falls. See Rich Bilon, N3RB at 732-972-1397 or 4332lee@gmail.com

September 12 – **OMARC Meeting** at 9:00 am at the Diana Site on Marconi Road in Wall. Guests welcome.

September 12 – **VE Test Session** at 11 am at the GSARA Hamfest in Tinton Falls. Contact Rich Bilon, N3RB at 732-972-1397 or e-mail at n3rb@arrl.net

Sept. 12-13 – **ARRL VHF Contest**, all modes from 2 pm Sat. to 11 pm Sunday. See <http://www.arrl.org/september-vhf>

Sept. 12 – **North American Sprint**, CW from 8 pm to midnight. See <http://ncjweb.com/Sprint-Rules.pdf>

September 14 -. **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

September 16 – **GSARA Meeting** at 7:30 pm at the Red Cross in Tinton Falls. Regular business meeting.

September 16 – **W1AW Qualifying Run** at 7 pm (10-35 wpm). See September 2014 QST page 95 and <http://www.arrl.org/qualifying-run-schedule>

September 17– **JSARS VE Test Session** at 7:00 pm Riverview Park Recreation Bldg., Rt. 527 and Riverwood Drive in Toms River. Contact Ed Genoino, WA2NDA at 609-971-2792 or wa2nda@comcast.net.

September 19 - **North American Sprint**, RTTY from 8 pm to midnight. See <http://ncjweb.com/Sprint-Rules.pdf>

September 21 - **Monmouth County ARES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm

Sept. 25-27 – **CQ WW DX Contest**, RTTY from 8 pm Fri. to 7:59 pm Sun. See <http://cq-amateur-radio.com>

September 28 - **Monmouth County RACES Net** meets on 147.045 +600, PL=67.0 at 7:30 pm.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 OBARC GSARA Net 8:30 QCWA News 9 PM	2 GSARA Mtg.	3 HCARC Mtg.	4 Asian DX SSB CW Qual. Run	5 Asian DX SSB RSGB FD SSB
6 Asian DX SSB RSGB FD SSB InfoAge	7 ARES/RACES 7:30	8 GSARA Net 8:30 QCWA News 9 PM	9 Hol. City VE	10 JSARS Mtg.	11	OMARC Mtg 12 GSARA Hamfest ARRL VHF NA Sprint CW
13 ARRL VHF InfoAge	14 RACES Net 7:30	15 GSARA Net 8:30 QCWA News 9 PM	16 CW Qual. Run GSARA Mtg.	17 JSARS VE	18	19 N2UUS NA Sprint RTTY
20 InfoAge	21 ARES/RACES 7:30	22 GSARA Net 8:30 QCWA News 9 PM	23	24	25 KD2HUE WB2RPW CQ WW RTTY	26 GSARA VE 11am CQ WW RTTY
27 CQ WW RTTY InfoAge	28 RACES Net 7:30	29 KC2YWL	30 N2VFK			



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