



President's Message

May is upon us and with it comes Mothers Day, Armed Forces and Memorial Day. The Warminster Amateur Radio Club will hold its hamfest on Sunday, May 5, 2013 (rain or shine). It opens at 7 am (vendors at 6 am). For more information go to: www.k3dn.org/hamfest.htm. Hamfest and vendor contact is Rich Luce. His phone number is 215-703-8264 and email address is hamfest13@k3dn.org. The Dayton hamfest is scheduled for May 17-19. For additional info please visit <http://www.hamvention.org>.

Through the fine efforts of Cory, WA3UVV, and John, K2ZA, a Technician Amateur Radio class was given late April at the Camden County Emergency Training Center. Appreciation is extended to the South Jersey Radio Association (SJRA) for providing a team of VEs along with examination material on very short notice. Also, several of us were given a private tour of the radio room onboard the Battleship NJ by our very own Harry, AA2WN who is also President of their radio club.

Special thanks to SJRA, Al, N3AVT, VE Team Leader

Bill, N2VIL is doing a great job managing the new trailer project. This includes handling all the various building code permits with the Township. Several volunteers have already volunteered their time which is greatly appreciated.

WIRELESS TELECOMMUNICATIONS BUREAU REMINDS RADIOTELEGRAPH OPERATOR'S CERTIFICATE HOLDERS ABOUT UPCOMING CHANGES TO THEIR LICENSE CLASS AND TERM

In the *Report and Order* in WT Docket No. 10-177, the Commission amended the rules concerning radiotelegraph operator licenses, effective May 20, 2013. The Commission consolidated First Class Radiotelegraph Operator's Certificates (T1) and Second Class Radiotelegraph Operator's Certificates (T2) into a new license class, the Radiotelegraph Operator License (T). This change takes effect with respect to existing licenses upon renewal – that is, T1s and T2s renewed on or after May 20, 2013 will be renewed as Ts, but existing T1s and T2s will retain their current license class for the duration of the current license term. The Commission also consolidated Third Class Radiotelegraph Operator's Certificates (T3) with Marine Radio Operator Permits (MP) – T3s renewed on or after May 20, 2013 will be renewed as MPs, but existing T3s will retain their current license class for the duration of the current license term. Also, no applications for new T1s, T2s, or T3s will be accepted as of May 20, 2013.

Effective April 10, the SJRA began offering free monthly Amateur Radio License examinations in West Berlin. For more information please visit www.sjra.org. Through the efforts of Marty, W2ILT and Monroe OEM Coordinator, Frank McLaughlin, KC2ROW, several Club members received their CERT diploma at a formal graduation ceremony at Monroe Township late April. Finally, Amateur Radio's most popular on-air operating contest entitled Field Day is planned for the weekend of June 22 and 23.

Best 73, Tom, KE2ES

Down Jersey DXing

By Bill Grim, W0MHK

The sun continues to churn out sunspots in varying quantities with mixed results for those of us that are earth-bound and looking for DX. Most openings over the poles to the Far East have been on 15 and 17 Meters between 9AM and noon local time. 10 and 12 Meters are open sometimes, but are just not producing DX like they have in past cycles.

The DX Workhorse Band, 20 Meters, is not showing us much during morning hours either. There are openings on 20M to Russia (European and Asiatic varieties) past 9PM if you need QSOs or Zones from those areas. Openings especially on the higher bands can be short with signals peaking nicely but usually for relatively short periods of time. Don't give up on a really rare one from far away that you are copying. They may stand-by for USA stations only or go by USA numbered call areas. This can help limit the competition and put a tough one in your log.

Noise levels will be picking up on the low bands with spring thunder storms increasing. But don't count out 30 Meters for some after sunrise and after sunset openings with less QRN than the bands below it. 40 Meters is still a possibility at approximately the same times and through the night depending on QRN and DXpedition operating schedules.

My local QTH Down Jersey takes a lot of wind gusts with my location having almost no trees. Be sure to check tired and loose guys (and feedlines) while we are being buffeted by spring winds now that the outdoors is more accessible. Fix a broken guy now before some significant damage is done to any of your skyhooks!

Given the May roster of good DX bets, I'd say watching for some action from Africa this month bears consideration. 20M through 10M should be good seasonal possibilities for some African DX qsos especially during daylight hours. Try to time your efforts calling after conditions have peaked to Europe. You might have more success. Europe has an easier North to South Path to Africa that we only enjoy with South American stations.

Speaking of continental activity, if you go to the following website <http://g7vcr.org/2013/04/how-many-dxers-are-there-in-the-world> you will gain some insight as to what the competition is like and where it resides by country and continent. It might also explain why there is such an unbalanced amount of ham activity from certain places.

If you haven't yet, check out the last two pages of my handouts at the last GCARC Club meeting. It can help you if you run across a call like H27A, as I did during the last CQ WW Prefix Phone Contest. Many entities have MULTIPLE prefix possibilities, and this list should solve most of your questions as to where the stations hail from. H27A ended up being from Cyprus. If you didn't get a handout with this list, refer to the "ARRL DX List" which can be purchased from the League for \$6. It is a handy checklist for your DX accomplishments and has the prefix "decoding" list included. It's also a quick way to determine a station's CQ Zone.

Please see "DX" on Page 7.

Congratulations

Congratulations to Club member Milt Frantz, K2MXF, for being appointed Radio Officer for Camden County Animal Rescue Team.

Club Meeting Program May 1: GPS and Geocaching

By Jim Wright, N2GXJ

What is the Global Positioning radio System, and how do those hand held radio receivers and the GPS receivers in car and in your smartphone work? Better yet, what is geocaching, and what does it have to do with GPS?

Geocaching has been around for just over a decade. Did you know that there are now over 5 million geocachers active world-wide? Are you one of them?

Would it help to mention that our GCARC is going to have a sample geocache activity available at our Club picnic this July? Not sure what geocaching is, or need some help getting started? No problem. We have a treat for you this evening! Come on out to the Club meeting on May 1 and our very own Adan Maskery (KC2YJX) will introduce us to the real-world GPS radio enabled outdoor fun adventure of geocaching. Perhaps after learning a bit about it, you'll be interested in giving it a try before our Club picnic!

Welcome New Members

This month the Club welcomes three new members. Welcome to Ron Block , NR2B, and Chris Collins, KD2CUS, who should have been included in the April issue of Crosstalk but I had to go to press early and missed them. My apologies to both of you. Ron lives in Clarksboro and holds an Extra Class License and Chris lives in Woodbury and holds a Technician Class License. We also welcome Joseph Sereday, KD2DSU. Joe lives in Pine Hill and holds a Technician Class License. We are glad to have you all as members of the Club and hope to see you regularly at Club functions and meetings.

Summer Family Picnic Announced!

By Jim Wright, N2GXJ

We are proud to announce that a date and location has now been set for a new event we are trying out for this year, our very own GCARC summer family picnic! That's right, a family picnic! We have reserved the Riverfront pavilion at Red Bank Battlefield in National Park, Gloucester County , NJ from noon to 4pm on Saturday July 13. This park is located across the Delaware River from the Philadelphia airport and Navy yard. In addition to the Riverfront picnic pavilion, the park offers some historical interest, including the James and Ann Whitall House, and some remnants of the original Fort Mercer. Consider this an opportunity, as Club members, for us and our families to "get out of the shack" for a while, to meet each other and socialize a bit in the sunshine of a great outdoor setting! Just because we have the pavilion rented for four hours doesn't mean you have to stay the whole time. You're welcome to drop in and stay for as long as you'd like while we have the pavilion rented.

For the young (and young at heart), an "introduction to geocaching" activity is also being planned along with the picnic. To learn more about geocaching, be sure to come out to the May 1 GCARC Club meeting.

As for the picnic, we'll have the basic hot dogs, burgers, buns, and standard items like catsup, mustard, and buns, along with paper plates, silverware, cups, napkins, and similar supplies covered by the Club. If you'd like, you can bring a little something extra to share with others, helping to keep the costs down. Please see "Picnic" on Page 4.

“Picnic” from Page 3.

We’ll have sign-ups for things like coolers, ice, water and cola drinks (non-alcoholic only, park rules, please!), chips, salads, and deserts available at the June and July Club meetings to help make sure we have everything covered without too much overlap.

We’ll post updates to the Club website, and will have a chance to talk some more about the picnic at the upcoming May, June, and July Club meetings. If there are other questions, please see me (Jim Wright) at the next Club meeting, or you can call or email me. My number and email are listed in our Club directory.

Sound like fun? Hope to see you there!

Field Day On-Air Opportunity

By Jim Wright (N2GXJ)

I walked on to the Field Day site cold, not knowing any of the guys in the Club, and only a little about radio just a few years ago. It hooked me on ham radio, and prompted me to become a member of the GCARC Club. This year, I’ll be out at the Field Day site with my own station and assigned band. If you’ve never been to a Field Day before, you really owe it to yourself to stop by and check it out! To make it easier for you to do so, I’m making time available at my station for anyone who wants to see what it is all about, and maybe even give it a try. My station will be set up to operate using both voice and digital modes. Only have a Tech license and never operated on HF before? No problem. As a holder of an extra class license, I’ll be there with you the whole time, as control operator, allowing you the opportunity to operate and experience some of the fun of HF radio contacts on 15 Meters all over the USA, even if your current license class would not allow you to do that by yourself. No prior experience required.

Normally, 15 Meters stays usable right from the 2pm local (1800 UTC) start time on Saturday until several hours beyond sunset that evening, so there is plenty of time to work with, and I’d welcome your company. After a reasonable night’s sleep, the band usually is open again by 10AM, and can be worked until it’s time to tear down around 2pm Sunday afternoon. So there are a few hours to work with there as well. Don’t be shy! Really, I could use your help! If you think you might be interested, just let me know. I have a sign up list, but even without that, as a walk-up out at the Field Day site itself, I’ll work to get you on the schedule.



Improved Antenna
Support Field Day 2012

Guest Operators Battleship New Jersey

By Jim Wright, N2GXJ

On April 21, a crew from GCARC had the opportunity to be guest radio operators on board the museum ship Battleship New Jersey. Thanks to our Club member Harry Bryant (AA2WN), who was our official on-ship escort for the afternoon, we were able to get on the air from the ship's radio room to light up the airwaves and create a few mini-pileups while attempting several bands and modes. Our visit overlapped with the ARRL's SSB "Rookie Roundup" contest, much to the delight of a few surprised young radio operators across the United States! What fun! If you've never had the experience of visiting the battleship, which is docked on the waterfront in Camden, NJ, right across the river from Philadelphia, you really should make the effort to give her a visit. She's quite impressive, as are the efforts of countless volunteers, like Harry, who have been working to make her such a great ship to visit.



GCARC Club Members Approaching the Battleship

Preparedness & Alternative Energy Trade Show

By Jim Wright, N2GXJ

Thanks to the efforts of our own Bill Price (NJ2S), amateur radio was prominently highlighted on April 20th at this indoor/outdoor event held at the Broadway Electric Supply company in Woodbury, NJ. Members of the public were invited to see live demonstrations of HF and 2M radios, to talk with members of Please see "Show" on Page 6.

“Show” from Page 5.

the GCARC and Gloucester City amateur radio clubs present, and to take some official ARRL publicity information with them related to the theme of amateur public service in times of disaster. A VE testing session was also held in conjunction with the event, resulting in one new Tech and one new Extra upgrade. Many of the visitors were very interested in what amateur radio was all about, and after talking with them, we then referred them to our excellent web site (w2mmd.org) for more information about upcoming radio license courses and general information about getting a ham ticket. A photographer from the Gloucester County Times was on hand, and spent some time talking with Bill and interviewing Ed Champion (N2RO) and others present. Thank you again to Bill P for arranging this, and for Tom C, Bill V, Joe S, Wayne W, Jim W, Ed C, and everyone else from the Club who stopped by to help introduce ham radio to an inquisitive public at this event.



Alterative Energy Trade Show Woodbury, NJ

Friday Breakfast at the Seven Point Diner

By Jim Wright, N2GXJ

Maybe you've seen the "AM Brunch" notice on our Club's web site (w2mmd.org). Every Friday at 11am, GCARC members are invited to the Seven Star Diner restaurant, 1890 Hurffville Road, Sewell, NJ (near the Washington Township water tower with the clocks that don't work) to join with other Club members for an AM brunch. Though I'm still a working man, sometimes I get to work from home, and was able to make it over one Friday morning to join some of the more "regulars" for some inexpensive late morning pancakes, eggs, and toast and talk. All I had to do was ask at the front door where the radio Please see "Breakfast" on Page 7.

“Breakfast” from Page 6.

guys met, and they were quick to point me straight back to the room at the end of the hall. From there, the guys welcomed me as one of their own.

Since my first visit, I try and make it back every Friday that I can. On my last visit, I brought a camera, and had the waitress take our picture. Pictured this time are Wayne, Charlie (K2PQD), Dave (W2YC), Howard (WA2IBZ), myself Jim (N2GXJ), and Bart (KC2WVP/AG). By the way, congratulations Bart on your license upgrade! The waitress tells me that they can connect another table by folding down a flap on this one, if we need to. So, if you’re in the neighborhood next Friday morning, why not try and stop by for a quick bite to eat and a “hello”?



Friday Brunch Bunch at Seven Star Diner

“DX” from Page 2.

Hopefully May will provide you with some or all of the following:

CALL	DATES	HIGHLIGHTS	PRIORITY(5=RAREST)	ENTITY
A35UD	5/1-5/7	40-10M/CW,SB,TY	2	TONGA
5T1FOC	/1-5/31	HF	2	MAURITANIA
SU8N	5/3-5/19	HF, IOTA AF-109	3	EGYPT
VK9NT	5/3-5/12	80-10M/CW,SB,TY/4 STNS	3	NORFOLK IS.
C91GR	5/7-5/11	40-10M/CW	2	MOZAMBIQUE
TO1PF	5/1-5/12	HF/ALL MODES	3	REUNION IS.
CT9	5/12-5/20	HF/CW,SB,PSK31	1	MADEIRA IS.
6V7	5/13-5/30	HF	1	SENEGAL
ZS8	5/15-6/15	40-10-M/SSB&DIGITAL	5	MARION IS.
MJ	5/24-5/30	160-2M/SB,CW,PSK	1	JERSEY IS.

CQ WW WPX CONTEST CW - 5/24-5/25 - DX GOODIES! - CHECK PREFIX SHEETS!

Six Meters Revisited

By Cory Sickles, WA3UVV

Six meters was the original FM band when the mode became popular. Hams benefited from the “cast offs” of entities upgrading equipment to the VHF-HI band. This gear was mostly tube-based, although some solid-state or hybrid portables also became available. Once VHF-HI surplus gear hit the market, 6M activity declined in favor of the newer gear with much smaller antennas.

Still, 6M and 10M (on the other side of the VHF-LO band) FM operation is still popular. Alinco makes single-band rigs for both and Yaesu’s FT-8900R covers those plus 2M and 70cm. Some years ago, AZDEN manufactured hand-held radios, but they are long gone from the amateur market. So, it was with some surprise that I found a new offering in a dual-band hand-held that includes 6M!

Wouxun has manufactured a radio capable of 4M (72 MHz) operation for folks in Europe for some time. Now, they have a 2M/6M rig for those of us in the States that are active on 6M. At the moment, it’s only available through Main Line Trading in Paris, TX. I’m sure that will change as work gets out and more product is available.

I missed the last one they had in stock and am waiting (im)patiently for mine. Once I have it and get to push it around a bit, I’ll let you know more. Maybe an offering for 10M FM isn’t too far away. During past band openings, I’ve worked several states, Canada, Ireland and the UK on 10FM with a 2 watt Motorola hand-held and my trusty Yaesu FT-817ND. Just wish they’d do it as a 10M/6M dual-band rig, instead of making me have “another” 2M-capable portable...

The Annual Pilgrimage

By Cory Sickles, WA3UVV

As kids, we all learned the joke “If April showers bring May flowers, what do May flowers bring? Pilgrims.” While not the Mayflower, the month of May does incite a pilgrimage of sorts – the one to Dayton. It’s the largest Hamfest/hamvention/conference/gettogether in the country. I haven’t been there in years, but keep meaning to get back. Every year, something seems to get in the way, so I chant the “next year for sure” mantra and move on.

Along with some great bargains in the flea market area and excellent conferences, there’s the opportunity to speak with manufacturers of well-known and not so well-known concerns about new products. This year, little has leaked out in advance. This is either an indicator that there’s nothing new or that security is pretty tight. I’m going with the latter. Within the first 2 weeks of May, the new issues of WorldRadio Online, CQ, CQ VHF, Popular Communications, Monitoring Times and QST will be out. Perhaps some well-placed advertising will reveal what’s new.

We already know that ICOM is introducing the IC-7100 (pending FCC approval, blah, blah, blah) and Alinco has a new HF-only rig (which looks pretty much like the current HF-only rig). Plus, a few smaller companies have announced products. Maybe, after 3 years, Idiom Press will finally start producing their speech processor...

The IC-7100 is an exciting rig. Although no price has yet been announced, I expect it will come in. Please see “Pilgrimage” on Page 9.

“Pilgrimage” from Page 8.

somewhere between \$1,700 and \$1,900. An interesting feature is the built-in D-Star mode. Although the IC-9100 has the mode available as well, the lower cost and smaller package of the 7100 may mean we’ll soon hear D-Star QSOs on 10M. It’s just one more step that ICOM is taking to support and grow this mode.

Speaking of D-Star, there are non-ICOM options being promoted as well including repeaters, transceivers, software and more. If Yaesu has figured out what their digital offerings should really be (something usable in a complete line of products rather than a vague concept in a hand-held) then it’s possible that they could be bringing DMR (Digital Mobile Radio) from the commercial world to hams in a form that’s easier to implement. While D-Star repeaters are digital-only, DMR offers a “Mixed Mode” option to allow a gradual transition to digital. The LMR (Land Mobile Radio) offerings in the commercial world are somewhat inflexible and don’t offer any sort of VHF/UHF dual-band radios. Programming is the only way to set up new frequencies and talk groups. Having something specifically designed for amateur service could fix all that and make adoption of DMR start to grow at an even faster pace.

If you want to learn more about DMR, take a look at Vertex Standard’s new eVerge line of radios and Motorola’s MotoTRBO offerings and specs. A third mode of digital communications you may not have heard much about – NXDN – is promoted by Kenwood as NEXEDGE and ICOM as IDAS. The 2M repeater in Waterford Works is rumored to be NXDN-capable and there’s a DMR machine in Vineland, so these digital modes may be closer than you realize.

What else could come out of Dayton? Well you either have to go and see for yourself or stay tuned for more news.

The Marvels of Mobile and Portable Rigs

By Cory Sickles, WA3UVV

If you take a look inside a modern amateur radio transceiver (or must about any other piece of electronics) you don’t see much in the way of “ingredients”. Those little black plastic and ceramic rectangles may contain many thousands of transistors or passive components, but you can hardly trace out a detailed diagram of what’s going on in there.

If you build a rig from a kit, you have a better chance of understanding what each component does, although it’s difficult to find one without at least 1 integrated circuit in there. In fact, there’s a periodic design contest to encourage such discrete component designs – one of which limits the parts count to 72 (the QRPer’s 73). It may sound easy, but if you are trying to design something beyond the most basic 1-transistor oscillator and direct conversion receiver, it’s a challenge.

We enjoy the flexibility, low cost and light weight design of mobile and portable radios in ways that hams operating in years past couldn’t imagine. Tube-based gear for mobile operation might have offered just 1 band; like the Heathkit HW-12, 22 and 23, or perhaps 3 bands; like the National NCX-300. Although considered compact in their time, with automotive dashboards that allowed plenty of room underneath, those radios would have to sit on the passenger seat in today’s wrap-around interior designs.

Even a radio as small as an ICOM IC-7000 or Yaesu FT-897D seem to take up too much space in tighter quarters, promoting the “removable head” feature, so that the transceiver itself can be placed under a seat. Please see “Marvels” on Page 10.

“Marvels” from Page 9.

Perhaps the best “bang for the buck” can be found in the Yaesu FT-817ND – a “DC to Daylight” rig with a general coverage receiver and transmit possibilities from 160M through 70cm (sadly skipping 220 MHz) and offering 5 watts out. If more power is desired, a 45W amplifier is available from Tokyo High Power for HF and 6M, plus you can find another for 2M and 70cm. It’s not the least expensive route, but for flexibility, it’s hard to beat.

Again, peeking inside the FT-817ND makes you wonder where the “radio” is. Like most modern rigs, there’s a lot of digital stuff going on in there. More than one person has commented on “owning a computer with a radio attached”. It’s certainly more featured and capable than my first portable rig – a Heathkit HW-7 – smaller, too.

I recently discovered some YouTube clips that drive home the pursuit of mobile and portable operation in smaller and smaller packages, along with increased reliability and ease of use. They also emphasize how hams have helped their nation in times of war (both hot and cold). I thought I’d share them with you, so make some coffee and sit back for a while. Maybe you can watch them on your iPad – another marvel of miniaturization. I hope you enjoy!

Hallicrafters Presents Voice of Victory

<http://www.youtube.com/watch?v=i-ZGyyal9tE>

RCA PRESENTS "RADIO AT WAR" - 1944

<http://www.youtube.com/watch?v=JegDWD6hGDs>

Spy Radio in World War II: "Strategic Service Transmitter-Receiver Number 1" SSTR-1 part 1-2 OSS

<http://www.youtube.com/watch?v=8-f0Eh101IQ>

Spy Radio in World War II: "Strategic Service Transmitter-Receiver Number 1" SSTR-1 part 2-2 OSS

<http://www.youtube.com/watch?feature=endscreen&NR=1&v=B73SwHqCbU4>



Lots of activity at Field Day 2011

May Birthdays

Congratulations to these members celebrating birthdays in May:

Walt Ashton, WB2OYQ

Insu Chon, AB2IT

Mark Harris, KC2VEF

Carmen Inverso, WA2TRS

Brian Jones, KD2BXD

Darrell Neron, AB2E

Joseph Shevlin, KC2PHM

Virginia Wallace, KB2JCQ



Crosstalk Submissions

This is your Club newsletter. Make use of it. Feel free to contribute general interest articles and ideas for articles.

All submissions, queries, comments and editorials should be addressed to Gene Schoeberlein at aa2yo@arrl.net.

Submission deadline for the June issue:
5/26/13

Club Website

<http://www.w2mmd.org>

President-Tom Gorman, KE2ES
Vice President-Jim Wright, N2GXJ
Treasurer-Al Arrison, KB2AYU

Art Strong, K2AWS
Chuck Colabrese, WA2TML
Mark Townsend, W2OCY

Ray Schnapp, WB2NBJ
Bill Szkromiuk, N2VIL

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Recording Secretary-Sheldon Parker, K2MEN
Corresponding Secretary-Cory Sickles, WA3UVV

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Dave MacDonald, WB3JOY
Jeffery Garth, KC2WCS

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Steve Blasko, W2TDS
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ARES/RACES-Joe, KC2PHM
Awards-Kenny, W2KRD
Budget-Al, KB2AYU
Clubhouse Site-Al, KB2AYU
Club License Trustee-Darrell, AB2E
Constitution-Adan, KC2YJX
Contests-Ken, W2KRD
Crosstalk-Gene, AA2YO
Database-Ken, N2CQ
DX-Bill, W0MHK
Field Day-Mark/Kyle, W2OCY/W2KBT
Hamfest-Open
Historian-Art, K2AWS

Hospitality-Dave, WB3JOY
Membership-Cory/Ray, WA3UVV/WB2NBJ
Nominations-Tom, KE2ES
Programs-Jim, N2GXJ
Publicity-Cory, WA3UVV
Repeaters-Tom, KE2ES
4H Liaison-Cory, WA3UVV
Special Services, Darrell, AB2E
Sunshine-Ray, W2RM
Technical/TVI-Cory, WA3UVV
VEC Testing-Gary, N2QEE
Website-Jeff, KC2WCS

The W2MMD Repeaters

147.78/18 Mhz-Pitman
(CTCSS 131.8Hz)

223.06/224.66 Mhz-Sewell

447.1/442.1 Mhz-Pitman
(CTCSS 167.9Hz)

1272.4/1284.4 MHz-Pitman

GCARC Meetings

General Membership

7:30 pm 1st Wednesday every month
Pfeiffer Community Center
Williamstown, NJ

Board of Directors

7 pm 3rd Wednesday every month
GCARC Club site
Harrison Twp. 4H Grounds
1 mile south of Mullica Hill on RT77

Nets

GCARC 2 Meter Net
Third Thursday of the Month
8:00PM
147.78/18Mhz (PL131.8Hz)

ARES/RACES
Sunday 20:00 Hrs
(147.78/18 and
223.06/224.66
repeaters)

GPS and Geocaching

Adan Maskery, KC2YJX

Gloucester County Amateur Radio Club
P. O. Box 370
Pitman, NJ 08071

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