



The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

May 2017

Toms River, NJ

Amateur Radio Digital Modes Demo



Presented by Dr. Ross Lambert W2TT at our **May 4th** meeting.

Don't miss this informative and humorous review of the the digital modes used on the HF and VHF bands these days.

There are dozens of digital modes including, but not limited to, Amtor, Pactor, G-Tor, Pactor-II, Clover, SSTV RTTY, PSK31, PSK63, Packet, Hellschreiber, Feld-Hell, MT63, Throb, MSK16, Olivia, Contestia, Domino-EX, D_Star, Fusion, DMR and CW and many others. The program will include slides and video.

Ross will concentrate on the most commonly used modes, PSK31 and JT65 and will include live demonstrations and live contacts using a few of the modes. Attendees will be able to "play" with the modes and if time allows make some contacts.

Happy Birthday To:

Joe Militano KC2QLA

Nancy Rogers



Happy Anniversary To:

Nancy and John Roberts



Welcome To HCARC New Member

Al Harbord K2ALF

Noon Get-together Calendar

May 8 Holiday City Diner

May 22 Lisa Restaurant

Equipment Drawing

We had 3 pieces of Equipment donated to the club by Al Harbord K2ALF, and had a drawing on April 5th at the club meeting. Winners were:

Carl Lee W2PTZ Yaesu FT 107 Transceiver

Ed Potasznyk N2WFW LDG Pro 200 Tuner

John Sawina NA2R MFJ Antenna Tuner

VE Session Update

On April 12th we had HCARC member Joe Fiorino KC2OAN pass his General License exam.

Congratulations Joe.

NEXT MEETING:
Thursday May 4 at 7:00 PM
Bldg A, Meeting Rm. #1
Holiday City South Clubhouse A
Santiago Drive at Mule Road
Toms River, NJ

CW Class Report

by Tony Kuzinski, KD2GSO

Our first CW class had 8 people attend.

Larry Puccio K2QDY was our instructor and with his knowledge and patience, was able to teach Morse code to enthusiastic students.

Our next class will be held on May 10th. As this is also our VE session, there may be people taking their amateur license exams.

We ask that you be quiet until everyone has finished their exam. If there are no applicants for the exam, we may be able to start at 6:30 pm, but I would need your phone number to inform everyone of the time change.

The start time of the CW class will be 7:30 pm, and if we can start earlier, I will call you.

If you would like to attend the class, please contact me or Larry. [See page 3 for contact information.]

The letters that we practiced at the first class were E, I, S, H, T, O, and M.

If you missed the first class, you can practice your letters at this site:

<http://lcwo.net/>

Presidents Corner

The club has now started using the 2nd Wednesday of the month after the VE session to add additional activities for club members. Larry Puccio K2QDY has started a CW class. Attending this class were 8 people and with Larry's patience, most were doing basic letters, even Dave Ottenberg's grandson tried his hand on the key. There should be an additional 4 or 5 classes and then we will accept suggestions for other activities club members may be interested in.

I didn't forget the questionnaire that I was supposed to send out last month. I decided to send one question a week out until I can compile the information I need to make further improvements to the club based on the member's response. The idea for the CW class was suggested on the Tuesday night net, so participate and make your views known. 73, Tony

Try Our 2-meter Net

Our net meets Tuesdays at 7:00 pm on the WA2JWR Repeater 146.6550 (-.6, no PL req'd), linked to 146.880 (-.6, PL 94.8) in Brick, also 445.575 (-5, PL 94.8), and Echo link 330923.

Many thanks to Lee Kissel for the use of his repeater system.

For anyone not familiar with a net, just listen in and you will get the hang of it.

Please remember to give your callsign at the end of each transmission.

Join in and help make this a weekly occurrence.

Hamfests

Bristol, PA has a hamfest on May 7. Just take the Burlington Bristol Bridge, go 2 more miles, and turn right at the Taco Bell.

<http://www.k3dn.org/>

And of course, there's also THE BIG ONE. I mean the HAMVENTION, in Xenia, Ohio, May 19-21.

It may be a bit late to secure hotel reservations or bus trips, but a really big hamfest is something every ham should experience at least once.

<http://www.hamvention.org/>

Please Thank A Vet

By Urb LeJeune W1UL

A few days after Veterans Day I am still awash in the recognition vets received on their special day. In the interest of full disclosure, I spent two years on active duty and four years in the Army Signal Corps Reserve during the Korean War era, which probably doesn't make me an impartial observer.

In actuality, this story began about ten years ago. I was visiting relatives in Florida and was dispatched to the supermarket to procure a few last-minute items. As I was walking into the store a distinguished looking old timer was heading toward a car with Purple Heart courtesy license plates. (The Purple Heart is presented to United State military personnel who have been

wounded in combat.) I walked over to him and put out my hand and said, "thank you for your service and sacrifice, I sincerely appreciate both." Whereupon he started to cry and said, "I've had these plates for ten years and you're the first person who has ever said a word!" In the discussion that followed, he told me he was a Marine who received a serious leg wound while fighting on Iwo Jima. Sixty years later he still walked with a serious limp. He also received the Bronze Star for valor in action. My new-found friend dispatched me with a big hug and an emotional, "thank you." This chance encounter made my vacation and literally changed my life.

Over the ensuing years, I've frequently thought about this WWII hero. I wish I had taken his name and address so I could have remained in contact. It has also reminded me of the vast number of vets who gave their life or years of their life in the service of our country. You may be totally anti-war but in my opinion, even the most avid pacifists owe homage to those who died or were willing to serve to give them the right to protest.

Looking for vets I would simply say, "thank you for your service" and shake their hand if the occasion presented itself. I am especially on the lookout for Viet Nam vets as they were the object of disdain when they came home. People would spit at them and called all types of names. Possible a few acts of kindness now can help erase the pain of their homecoming. When encountering a WWII vet, there aren't many left, I try and engage them in conversation. If I'm in the check-out line at a convenience store and there is a vet behind me with a container of coffee, I frequently tell the person at the cash register, "take out for the vet's coffee."

Don't be surprised if thanking a vet, or other random acts of kindness, makes you feel better. Knowing you have brought a smile and a good feeling to another human being is a very special thing.

[This article reminds me that Memorial Day is the last Monday of May, honoring those who died in service. -Ed.]

The Official HCARC ID Badge



To order a badge, call Al Ross WA7UQE at Capital

Engraving Co. 1-800-628-4985 after 1PM M-F.

Give "Holiday City A R C", your call & first name

and your mail address. \$13.25 plus \$4.00 S&H. Use your credit card to pay.

Our VE Crew

Larry [K2QDY](#) (Liaison) 732-349-2950,
 Urb [W1UL](#), John [KQ4WR](#), Stan [KB2PD](#), Steve [N2WLH](#),
 Murray [KD2IN](#), Paul [N2QXB](#), Larry [WA2VLR](#), Tony [KD2GSO](#).
License exams are given by appointment at 7pm on the second Wednesday of each month at Holiday City South Clubhouse, Bldg A, which is at the corner of Mule Rd. and Santiago Dr. Call Larry Puccio, K2QDY, at 732-349-2950 for information.
Directions: From either Route 37 W or Davenport Road, take Mule Road to Santiago Drive. Turn into the parking lot from Santiago Drive, and park near the pool. Enter the building nearest the intersection.

CLUB COMMITTEES

Refreshments: John Rogers & Tony Kuzinski
Webmaster: Steve [N2WLH](#) N2WLH@yahoo.com
Publicity: Paul [N2QXB](#) 732-279-3911
Programs: Tony [KD2GSO](#) 732-930-5779
Sunshine: Dave [WA2DJN](#) WA2DJN3@verizon.net
Field Day: Larry [K2QDY](#) 732-349-2950
VE Sessions: Larry [K2QDY](#) 732-349-2950
Membership: Doug [KC2TZC](#) 732-928-2316

Holiday City Amateur Radio Club Toms River, New Jersey

Web Site www.hcArc.us

President	Tony Kuzinski	KD2GSO	732-930-5779
Vice President	Paul Hansen	N2QXB	732-279-3911
Treasurer	Larry Puccio	K2QDY	732-349-2950
Secretary	Marge Penn	KD2LNT	732-736-5953
Executive Board	Doug Poray	KC2TZC	732-928-2316
Executive Board	John Roberts	KQ4WR	732-350-1162 ext 33
W2HC Trustee	Larry Puccio	K2QDY	732-349-2950

Membership is open to all interested persons. Ham license is not required. Dues are \$25.00 per year, payable Jan 1st. Members joining during the year will have the dues prorated. Family membership \$30.00 per family.

Meetings are held on the first Thursday of every month, at 7:00 pm.
Location: Meeting Room #1 in the Holiday City South Clubhouse.
Directions: From either Route 37 W or Davenport Road, take Mule Road to Santiago Drive. Turn into the parking lot from Santiago Drive and park near the pool. Enter the building nearest the street corner:-

The SKYHOOK is published monthly as the HCARC's official newsletter.
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Samuel F. B. Morse



By Bob Buus, W2OD

Samuel F. B. Morse was an American artist who was painting in Europe when he received a job offer to become Professor of Art at the College of New York (now New York University). He set sail to New York in 1832 on the SS Sully. While on board, he made the acquaintance of Dr. Charles Jackson who informed Morse of a new invention called the electromagnet which converted electricity to a magnetic force. After many lengthy discussions during the crossing, Morse came up with the idea of communicating by sending electricity along a wire to energize an electromagnet at the far end. Unknown to Morse, Joseph Henry had accomplished the same thing with his remote bell he had wired in his house two years earlier.

While teaching at the College of New York, Morse proceeded to build a model of his telegraph. He hung a pendulum from an artist's easel and placed an electromagnet that, when energized, would deflect the pendulum. He placed a pencil at the end of the pendulum and moved a strip of paper under the pencil such that as the pendulum moved, a wavy line would be produced on the paper. This comprised his receiver. For transmitting, he drew a notched stick across a spring contact in series with a voltaic pile (battery) to send pulses of electricity to the far end receiver. By varying the number of pulses, he could send the digits 1 through 9 with 10 pulses being a zero. Then with an associated dictionary, he could assign each message a unique number which could be decoded at the far end with an inverse dictionary to recreate the desired message (similar to ARL numbered radiograms still used today).

Morse demonstrated his system at the College of New York in 1837. Although the demonstration did not work well, a student named Alfred Vail attending the demonstration was intrigued by the idea and asked to

work with Morse on perfecting the idea. Vail's father owned an iron works in Morristown, NJ and would help finance further work.

Knowing the difficulties Morse was experiencing with the electromagnet, a fellow Professor Gale recommended that Morse consult with Professor Henry at Princeton. This Morse did and Joseph Henry showed him how to make an intensity magnet to operate over a long wire. He also showed Morse how to use a relay to successfully operate over longer distances. With this information and some clever innovations made by Alfred Vail, Morse then developed a working telegraph system. By giving a crooked congressman a piece of his telegraph company and with a letter of recommendation from Joseph Henry attesting to the good design of Morse's system, congress approved a \$30,000 grant in 1843 for Morse to construct an experimental telegraph line from Washington, DC to Baltimore. This was successfully completed in 1844 with the famous "What hath God wrought" message sent on May 24, 1844.

Henry had repeatedly told Morse that the electromagnet and relay were in the public domain and could not be patented. When he found that Morse had applied for a patent including Henry's contributions, he was sure that it would not be granted since Henry's contributions were in the public domain. But the patent was eventually granted and this irritated Henry.

When Vail published a book on the history of the telegraph in 1845, no mention was made of Henry's contributions. Henry expressed his anger at this oversight to Morse who said he was unaware of the content in Vail's book (highly unlikely) and that the book would be revised in subsequent printings to give Henry proper credit. But this didn't happen in the next edition of Vail's book and this caused a permanent rift between the two men.

Why did Morse deliberately ignore the significant contributions that Henry made to his telegraph? I think he feared it would weaken his patent claims which were challenged by many other inventors. As always, greed trumps integrity. But now you know who really invented the telegraph.

W1AW Operating Schedule

The American Radio Relay League (ARRL) operates station W1AW to broadcast code practice and bulletins "To all radio amateurs" five days a week on several frequencies (3.5815 and 3.990 MHz usually work out for me). The schedule is printed in QST magazine several times a year, including the May Issue, where it's on page 101. It's the only "broadcasting" the FCC rules allow ham stations to do. See the our www.HCARC.us website for a copy of the current FCC regulations.

If you don't get QST, you can still find the W1AW schedule at:

<http://www.arrl.org/w1aw-operating-schedule>

Ocean County ARES® News



May, 2017

The last meeting of Ocean County ARES was April 19th and was well attended. Holger, K2HES, spoke about several upcoming events needing volunteers, such as the New Jersey Marathon on April 30 and the MS-170 Bike Tour on May 20 and 21. WX2NJ gave a presentation on getting started in APRS using APRSISCE/32 and handed out CD's and instructions to all that attended for an easy start. The next ARES meeting in June will include RERP 2018 training.

Communications Exercise "Gotham" will take place on April 24 through 28. It is primarily for New York City and NNJ ARES/RACES. Ocean County ARES will be involved for some of the exercise and ARES Leadership will be providing status reports, when requested.

On May 20 and 21 (Saturday and Sunday), the MS-170 Bicycle Tour will be launched from Monmouth

University, traverse through Ocean County and stay overnight at Pinelands Regional Schools in Tuckerton. On Sunday, the tour will leave Pinelands and end at the Coast Guard Station, Cape May. Holger, K2HES, has taken over communications coordination for the event and anyone desiring to provide comm support should email Holger at info@nject.us

MS is changing some of the priorities for what points need comm support, so assignments cannot be made at this time. Remember, support is needed for both days and if you can provide support for one or two days, it would be great.

The main bridge to Avalon has been shutdown due to structural defects and will be closed until Memorial Day weekend. The second day of the MS-170 bike tour has been adjusted to use Route 9 from Ocean City and transition over to Avalon via another bridge.

73 de WX2NJ

Bob Murdock

Ocean County Amateur Radio Emergency Service® EC

Antipodes Island

The cover of the April issue of QST mentions Antipodes Island which is southeast of New Zealand.

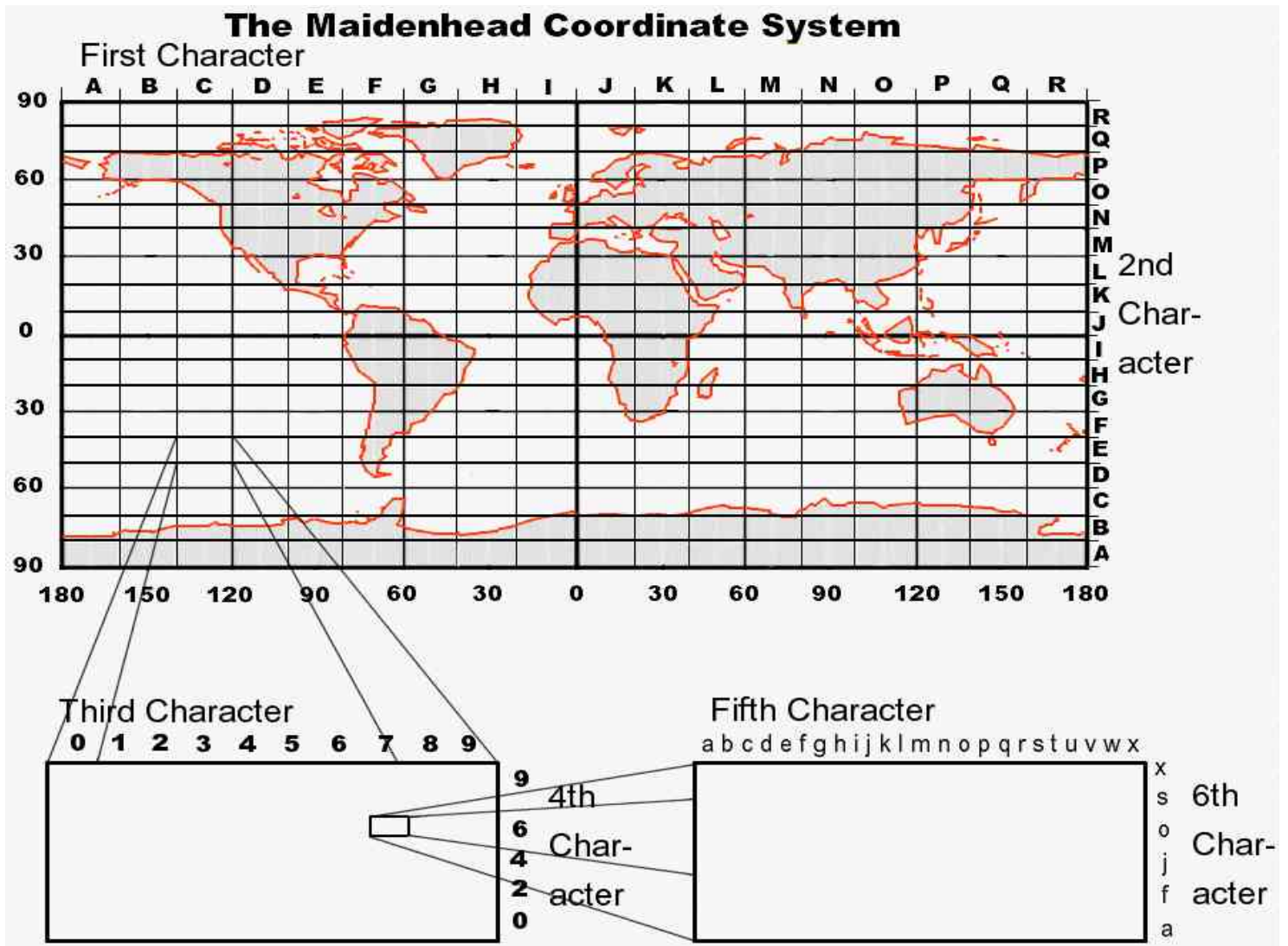
There are no other islands in that area.

Antipode means diametrically opposite.

I looked up the antipode of Antipodes Island, and found that it is in the English Channel.

Antipodes Island is the nearest "dry land" to the antipodes of London and Paris.

Antipodes are interesting. If each person of a group started out at the same time, from the same place, each going in a different direction, travelling "straight ahead", at the same speed, they'd all meet at the antipode of where they started.



What's My Grid Square?

The Maidenhead Coordinate System is what we usually refer to as “Grid Squares”, but none are really square. Most are slightly distorted spherical trapezoids. The MCS differs from the Latitude & Longitude in that it refers to areas rather than specific points.

The areas are numbered Eastward from the 180 Degree Meridian and Northward from the South Pole.

The 2nd, 4th, and 6th characters define the latitude borders, while the 1st, 3rd and 5th characters specify the longitude borders.

Character one is a capital letter specifying a particular 20-degree wide crescent of longitude. Character two is a capital letter specifying a particular 10-degree wide belt of latitude.

Characters three and four are numerals specifying

tenths of the areas specified by the first two characters. Characters five and six are lower-case characters, a thru x, dividing each of those area into 24 sub-divided areas.

In that way, every six-character grid code specifies an area of the Earth measuring about 2.9 miles South to North, by about 5.6 miles times the cosine of the latitude West to East. Some models of Garmin GPS receiver can show the MKS grid square.

The easiest way to find your grid code is to look up your callsign in QRZ.com. However, it may be incorrect. If they couldn't find your correct address in their decoder, they just guessed, so check it out.

The Holiday City South Clubhouse is in FM29vw.

DX Opportunities For May 2017

Begin	End	Call Sign	Entity	C	ITU	CQ	Grid	Miles	Dir	IOTA	Modes*	Bands
May 01	May 10	3W9DQ	Vietnam	AS	49	26	OK30it	8933	N	AS-128	CSR	40-15m
Apr 29	May 12	3W9FU	Vietnam	AS	49	26	OK30it	8933	N			
Apr 24	May 07	8Q7EJ	Maldives	AS	41	22	MJ64qj	8752	NE	AS-013	CSD	30 17m
May 10	Jun 08	8R1/KC0W	Guyana	SA	12	9	GJ06vs	2500	SSE	SA-068	C	40-6m
May 15	May 24	9H3SQ	Malta	EU	28	15	JM75gv	4634	ENE	EU-023	CSR	40-10m
Apr 25	May 06	A25UK	Botswana	AF	57	38	KG28ma	7660	ESE		CSR	160-6m
May 13	May 27	AD8J/HR9	Honduras	NA	11	7	EK66tg	1793	SSW	NA-057	CS	160-15m
May 09	Jun 02	D44TW0	Cape Verde Is	AF	46	35	HK86aa	3430	ESE	AF-005	CSD	40-10m
May 01	May 08	DL1YAF/VK9	Lord Howe I	OC	60	30	QF98nj	9441	W	OC-004	CS	80-10m
May 09	May 16	DU9/SP5APW	Philippines	OC	50	27	PK04mo	8546	NNW	OC-235		20-10m
May 19	May 29	E31AA	Eritrea	AF	48	37	KK95kh	6701	ENE	AF-038	CSR	160-10m
May 16	May 30	E44WE	Palestine	AS	39	20	KM71gm	5724	NE			17-6m
Apr 30	May 12	E51BAS etc	South Cook Is	OC	62	32	AH99mm	6514	W	OC-013		160-10m
May 11	May 23	E51LYC	North Cook Is	OC	62	32	AH99mm	6514	W	OC-098	CS	40-10m
May 18	May 21	ED9T	Ceuta & Mellila	AF	37	33	IM76hq	3647	ENE		C	
May 22	Jun 07	FG/DL2AAZ	Guadeloupe	NA	11	8	FK96eg	1807	SSE	NA-102	CS	30-10m
May 01	May 15	FS/K9EL	St Martin	NA	11	8	FK88ma	1660	SSE	NA-105		160-6m
Apr 13	May 10	H44MS	Solomon Is	OC	51	28	QI92ma	8495	WNW	OC-047	S	160-10m
May 15	May 29	HC8/LW9EOC	Galapagos	SA	12	10	EI48aa	3108	SSW	SA-004	CSR	
May 15	Jul 15	JG8NQJ/JD1	Minami Torishima	AS	45	27	QL07mm	7256	NNW	OC-073	CR	80-6m
May 20	May 21	LX44FF	Luxembourg	EU	27	14	JN39ga	3842	NE		CS	80-10m
May 05	May 11	MJ/PA1AW etc	Jersey	EU	27	14	IN89vh	3465	NE	EU-013		160-10m
May 06	May 07	OJ0W	Market Reef	EU	18	15	JP90mh	3980	NE	EU-053	CS	
May 29	Jun 04	PJ5/PH2M	Saba & St Eustatius	NA	11	8	FK87ml	1694	SSE	NA-145	S	40-10m
May 24	May 28	PJ6/PH2M	Saba & St Eustatius	NA	11	8	FK87ml	1694	SSE	NA-145	S	40-10m
May 19	May 23	PJ7/PH2M	Sint Maarten	NA	11	8	FK88ma	1660	SSE	NA-105	S	40-10m
May 05	May 15	PY0NY	Fernando de Noronha	SA	13	11	HI36sd	4024	SE		CSD	160 80m
May 02	May 10	S79J	Seychelles	AF	53	39	LI86aa	8477	ENE	AF-024	C	HF + 6m
Apr 27	May 03	SV9/OH1VR	Dodecanese	EU	28	20	KM25oj	5142	ENE	EU-015		80-10m
May 12	May 19	T88MZ	Palau	OC	64	27	PJ77bi	8704	NW	OC-009	S	
Apr 17	May 08	TG7/KC0W;	Guatemala	NA	12	7	EK44so	2008	SW		C	40-6m
Apr 21	May 15	TG9BBV and	Guatemala	NA	12	7	EK44so	2008	SW			20-12m
Apr 21	May 15	TG9BBV and	Guatemala	NA	12	7	EK44so	2008	SW			20-6m
Apr 24	May 01	V4/W1CDC	St Kitts & Nevis	NA	11	8	FK87qh	1713	SSE	NA-104	C	160-10m
May 01	May 08	VK9 \DL1YAF	Lord Howe I	EU	28	14	QF98mm	9441	W	OC-004		
Apr 19	May 09	XV9G	Vietnam	AS	49	26	OK30it	8933	N		CS	40-15m
May 04	May 23	Z68BG	Kosovo	EU	28	15	KN02nq	4666	NE		C	40-10m
Apr 29	May 06	ZF2AB	Cayman Is	NA	11	8	EK99jm	1472	SSW	NA-016		

*MODES: C=CW, D=Digital, F=FM, J=JT, P=PSK, R=RTTY, S=SSB

May						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 HCARC Net 7:00 pm	3 ARES Net	4 HCARC Meeting see pg 1	5	6
7 Bristol PA Hamfest See page 2	8 Noon Get- together at Holiday City Diner	9 HCARC Net 7:00 pm	10 License Exams & Morse Class see page 2; ARES Net	11	12	13
14	15	16 HCARC Net 7:00 pm	17 ARES Net	18	19 Xenia OH Hamvention see page 2	20 MS-170; Hamvention continues
21 MS-170 & Hamvention continue	22 Noon Get- together at Lisa's Restaurant	23 HCARC Net 7:00 pm	24 ARES Net	25	26	27 CQ WPX CW Contest
28 Contest continues	29 Memorial Day	30 HCARC Net 7:00 pm	31 ARES Net			

CQ WPX Contest - CW

Here's a link to the rules of CQ's WPX CW Contest:

<https://www.cqwp.com/>