

# The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

[www.hcarc.us](http://www.hcarc.us)

May 2020

Toms River, NJ

## The President's Message



Mon, Apr 20 at 10:54 AM

I hope this message finds all members well.

I am sorry to have to report the one club member has passed away due to the virus. Matt K3MR passed away on April 1st. I know I will miss our breakfast and lunch conversations.

We have tried getting together on 2 meters with limited success.

Will try it again on May 7th the date of our next club meeting.

We have been using 145.170 -600 pl 131.8 at 7 PM.

I have been using this time to improve my station and plan some antenna work soon. Also learning new aspects of the hobby I have not previously looked into.

Looking forward to finally being able to get together in the near future.

73,

Carl

w2ptz

## Matt DeRouville K3MR

We are sad to have to say that K3MR, is now a Silent Key, due to the COVID-19 pandemic.

Matt, a member of HCARC's Volunteer Examiner team, had the honor of being Examiner #1 at our VE session on February 12<sup>th</sup>.

In March, Larry Puccio K2QDY, our VE session manager, heard he was sick and visited him in the hospital. He was on a ventilator. Matt passed away on April 1.

Rest in Peace, Matt.

## Some Local Repeaters

The official list of coordinated amateur radio repeaters in Southern New Jersey and Eastern Pennsylvania is at <http://www.arcc-inc.org/directory>

## Happy Birthday To:

Joe Militano	KC2QLA
Anthony Manus	KD2RBZ



## Happy Anniversary To:

Charlie & Robin Lamb
John & Nancy Roberts



### REGULAR MEETING CANCELLED

Until further notice, because of the COVID-19 pandemic, we will not have our regular meeting, However, we'll try getting together on the air on May 7 at 7:00pm on **145.170 -600 pl 131.8.**

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## Ocean County ARES® News

– May, 2020

All Ocean County ARES meetings and VE sessions at the county EOC are suspended until further notice. No outside agencies are permitted to have meetings at the EOC. The ARRL is working on a plan for “remote” VE sessions and when a plan is released, Ocean County ARES will invoke the plan.

We will also be using Zoom to have future ARES meetings and training sessions. Zoom software is free to the user and N2XW and WX2NJ already have purchased “Host” licenses.

A new Ocean County ARES Frequency Plan has been developed and released. It can be downloaded from the OCARES Groups.io site or at the Ocean County ARES website:

<http://www.wa2res.com/ARES%20Operating%20Frequencies.pdf>

Thanks to NJ2N and KB2RUV for developing the new tactical callsigns.

Ocean County ARES will continue to hold a weekly Pandemic Net on Saturday evenings at 8:00 PM on 449.825 MHz, WA2RES/R in Toms River. The purpose of the net is to announce changing pandemic information and to query operators for any questions they may have in relation to the pandemic. The regular weekly training nets are each Wednesday at 8:30 PM with an NBEMS Training Net starting at 7:30 PM. The NBEMS net will not be held the second Wednesday of each month when the 8:00 PM Skywarn net is held. Check-ins and comments for all our nets can be made via APRS by sending a message to WA2RES. This has been changed from N2XW. Please make a note of this.

I recently purchased some Morgan Systems Coaxial Lightning/EMP Suppressors for my home antenna project and found one unit dead on arrival. It is being returned to the manufacturer for testing and

evaluation. This defective unit caused me considerable loss of time and confusion since new coax was also being run and I had not considered a bad suppressor out of the box. One simple test I had come up with is to attach a 50 ohm dummy load to the ANTENNA side of the suppressor and then connect an SWR bridge or other SWR device to the RADIO side of the suppressor. You should be reading close to 1:1 SWR in this configuration. With my defective suppressor, I was reading essentially infinite SWR as if the antenna was open. This simple test on new suppressors would have saved me considerable troubleshooting time and will become part of my plan in the future.

### *The following is from Paul, KB2RUV:*

Since learning about the Parks on the Air program, Ocean County ARES has adopted it as a training exercise. The goal of the training is to practice handling traffic and dealing with stress while operating from a remote location. This is also a wonderful opportunity to test your mobile gear and setting it up in unfavorable locations not unlike what we would have to do in a real-world incident.

Since starting our operations in February using WA2RES, Ocean County Ares has completed eight Park activations including, Pinelands National Preserve, Brendan T. Byrne State Forest, Bass River State Forest, Double Trouble State Park, and Edwin B. Forsythe National Wildlife Refuge.

Some of the highlights include 295 contacts including 12 CW contacts. This includes 12 Park to Park contacts. Some of these contacts include DX such as Canada, England, Germany, Italy, and Spain. We have made contacts as far West as California and Washington State. Some of the contacts were accomplished using NVIS principles and all were made with 50 Watts or less.

Members that have contributed to our successes include: Tim – NJ2N, Glen – KD2FFR, Matt - K3MR, Silke – KC2ENS, and Paul – KB2RUV.

*Ocean County ARES News continued on next page*



KD2FFR and K3MR (SK)

Matt, K3MR, made all twelve CW contacts. He was suffering from cancer, but faithfully showed up for POTA activities. It saddens us to learn that Matt became a Silent Key on April 1, 2020 after losing his fight to the corona virus. Rest in Peace, Matt.



KC2ENS, NJ2N, KB2RUV and KC2SBR

73 de WX2NJ

Bob Murdock

Ocean County Amateur Radio Emergency Service® EC

## Swallow Phlegm, Don't Sniffle

The Coronavirus thrives in lungs, but stomach acid kills it. So swallow your post nasal drip, and don't sniffle. Don't inhale through your mouth. Inhale through your nose, where the virus can be trapped in moist nasal passages. And be sure to drink enough water.

### Our VE Crew

Larry [K2QDY](#) (Liaison) 732-349-2950,  
 Urb [W1UL](#), John [KQ4WR](#), Stan [KB2P](#), Steve [N2WLH](#),  
 Larry [WA2VLR](#), Tony [KD2GSO](#).

*License exams are given by appointment at 7:00pm 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 an appointment.*

*Directions: From either Route 37 W or Davenport Road, take Mule Road to Santiago Drive. Clubhouse A is the building nearest the street corner.*

### CLUB COMMITTEES

**Refreshments:** Marge [KD2LNT](#) pearl1122@comcast.net  
**Webmaster:** Steve [N2WLH](#) N2WLH@yahoo.com  
**Programs:** (open)  
**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](http://www.hcarc.us)

<b>President</b>	<b>Carl Lee</b>	<a href="#">W2PTZ</a>	732 575-7558
<b>Vice President</b>	<b>Billy Locke</b>	<a href="#">KD2MHA</a>	732 281-0151
<b>Secretary</b>	<b>John Perry</b>	<a href="#">KD2NDY</a>	732-349-2705
<b>Treasurer</b>	<b>Larry Puccio</b>	<a href="#">K2QDY</a>	732-349-2950
<b>Executive Board</b>	<b>Doug Poray</b>	<a href="#">KC2TZC</a>	732-928-2316
<b>Executive Board</b>	<b>John Roberts</b>	<a href="#">KQ4WR</a>	732-966 4665
<b>W2HC Trustee</b>	<b>Larry Puccio</b>	<a href="#">K2QDY</a>	732-349-2950

**Membership** is open to all interested persons. Ham license is not required. Dues are \$25.00 per year, payable Jan 1<sup>st</sup>. 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, except December.

**Location:** Meeting Room #1 in Holiday City South Clubhouse A.

**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.  
 Editor and Publisher:

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 e-mail [KQ4WR@arrl.net](mailto:KQ4WR@arrl.net) 732 966 4665

## Sidebands

Continuous alternating current at an AM station's radio frequency is called a "carrier". Sidebands are essential signals, produced by modulation of a "carrier" signal's amplitude, frequency, or phase.

Modulation always produces a pair of signals called sidebands.

When a signal's amplitude changes according to some other signal, such as audio, that's called amplitude modulation, or AM.

When a signal is amplitude modulated (multiplied) by another signal, such as audio, a new pair of signals is produced.

These are at the frequencies which are the sums and differences of the frequencies of the original signals.

The sum frequency signal is the upper sideband (USB), and the difference frequency signal is the lower sideband (LSB).

They are called sidebands because they appear alongside the carrier on a spectrum display or tuning dial.

All modes of modulation produce sidebands, but let's just consider AM for the moment.

For amplitude modulation (AM), the frequency of one of the sidebands is equal to the sum of the frequencies of the modulating signal and the carrier. That's the upper sideband (USB), and it's a copy of the modulating signal, but shifted in frequency.

The frequency of the other sideband is equal the difference of their frequencies. That's of course, the lower sideband (LSB). It's like a mirror image of the upper sideband, with the carrier being the mirror.

So an amplitude modulated signal consists of a carrier, a USB equal to the sum of the frequencies, and an LSB equal to their difference.

Once the carrier frequency is known, either sideband by itself has all the additional information needed to reconstruct the modulating signal. Therefore considerable transmitter power and "spectrum space" can be saved by transmitting only a single sideband

(SSB) and no carrier. But that's for another article.

In a simple "classic" AM radio, the antenna is usually either a tuned ferrite rod or a tuned multi-turn loop.

For example, a radio station with a carrier frequency of 770 kHz, AM modulated by a single audio tone of 2000 Hz, would have a USB at 772 kHz, and an LSB at 768 kHz.

When such a radio is tuned to 770 kHz, its internal "local oscillator" is simultaneously tuned 455 kHz higher, in this case to 1225 kHz.

Its frequency converter stage then amplitude-modulates that 1225 kHz signal with the signal received from the station, producing a lower sideband around 455 kHz, called the intermediate frequency signal.

It's the mirror image of the original AM signal (carrier and both sidebands), all shifted down in frequency. An upper sideband around 1995 kHz, is also produced, but not used.

In a 5-tube radio, that was all done in the with an antenna, oscillator coil, 2-section variable capacitor, and one "pentagrid converter" tube.

The next stage of the receiver was the Intermediate Frequency (I.F.) amplifier, tuned to amplify signals around 455 kHz.

Its output was an AM signal consisting of a 455 kHz carrier and sidebands at, in our example, 453 and 457 kHz. Note that the lower sideband of the 770 kHz signal received is now the upper sideband of the I.F. signal and vice versa.

With an AM signal, recovering the original audio can be done by simply rectifying the I.F. signal with a diode, and a little bit of filtering, amplifying just its fluctuations ("AC coupling"), and driving the loudspeaker.

The DC part of the rectified signal is used to control the amplification of the I.F. amplifier.

Note: To detect an SSB or CW signal, the I.F. signal can be used to amplitude modulate another internally generated I.F. carrier. The lower sideband of that is the audio to be amplified for the speaker.

-John Roberts KQ4WR

## Looking Up Old Callsigns

K9HI has an article about finding old callsigns in Callbook archives.

Callbook was like the international "phone book" of names and mailing addresses of radio amateurs. It is now replaced by QRZ.com.

<https://ema.arrl.org/2018/04/25/web-resources-radio-amateur-call-books-on-archive-org/>

## Scammer's Real Phone Number

I discovered that a scammer's real number, an 800 number, appeared on my phone until I answered.

Then it changed completely to a spoofed local number.

So please, if your phone says you're getting a call from a toll free number or a strange Area Code like India's 95 (or 095), write down the caller's whole number before answering.

Then if the displayed caller's number changes when you pick up, you'll know it's some kind of scam.

You can do the rest of us a favor by reporting it to [donotcall.gov](http://donotcall.gov).

## CV7STAYHOME, Etc.

The coronavirus has most of us staying home most of the time. And that has given us some new callsigns to work. Several special "Stay Home" call signs have apparently been issued.

Those ending with "STAYHOME", like CV7STAYHOME, include:

4J0, 4K0, 8A1, 9K9, AX2020, CV7, DX0, HZ1, OE1, OP2, OR20, OR8, OS0, TC1, and Z60.

Also there's also VC2STAYHOM, and XM2STAYHOM, A60SH/1 thru A60SH/5, and GB8NSH.

We wish to thank, Russ, WA2VQV and the ARRL DX Bulletins for that list.

## WAS Possibilities

You may be able to get a good start on a Worked All States certificate by checking in to QSO parties.

For the month of May, we have:

the 7<sup>th</sup> Call Area QSO Party  
(<http://www.7qp.org/7QP/new/MobPage.asp?contest=rules>),

the Indiana QSO Party (<http://www.hdxcc.org/inqp>),

the Delaware QSO Party  
(<http://www.fsarc.org/qsoparty/rules.htm>), and

the New England QSO Party  
(<https://www.neqp.org/rules.html>).

All of them are on the first weekend of May.

It looks like a good time to work Rhode Island, as well as all those eight states "Way Out West" in the 7<sup>th</sup> district.

And then the Arkansas QSO Party on May 9<sup>th</sup> & 10<sup>th</sup>  
(<https://www.arqp.com/about/>).

And I note that for the more experienced ops, there's a CQWW for the CW ops, at the end of the month.

**Larry Puccio K2QDY Reports:**



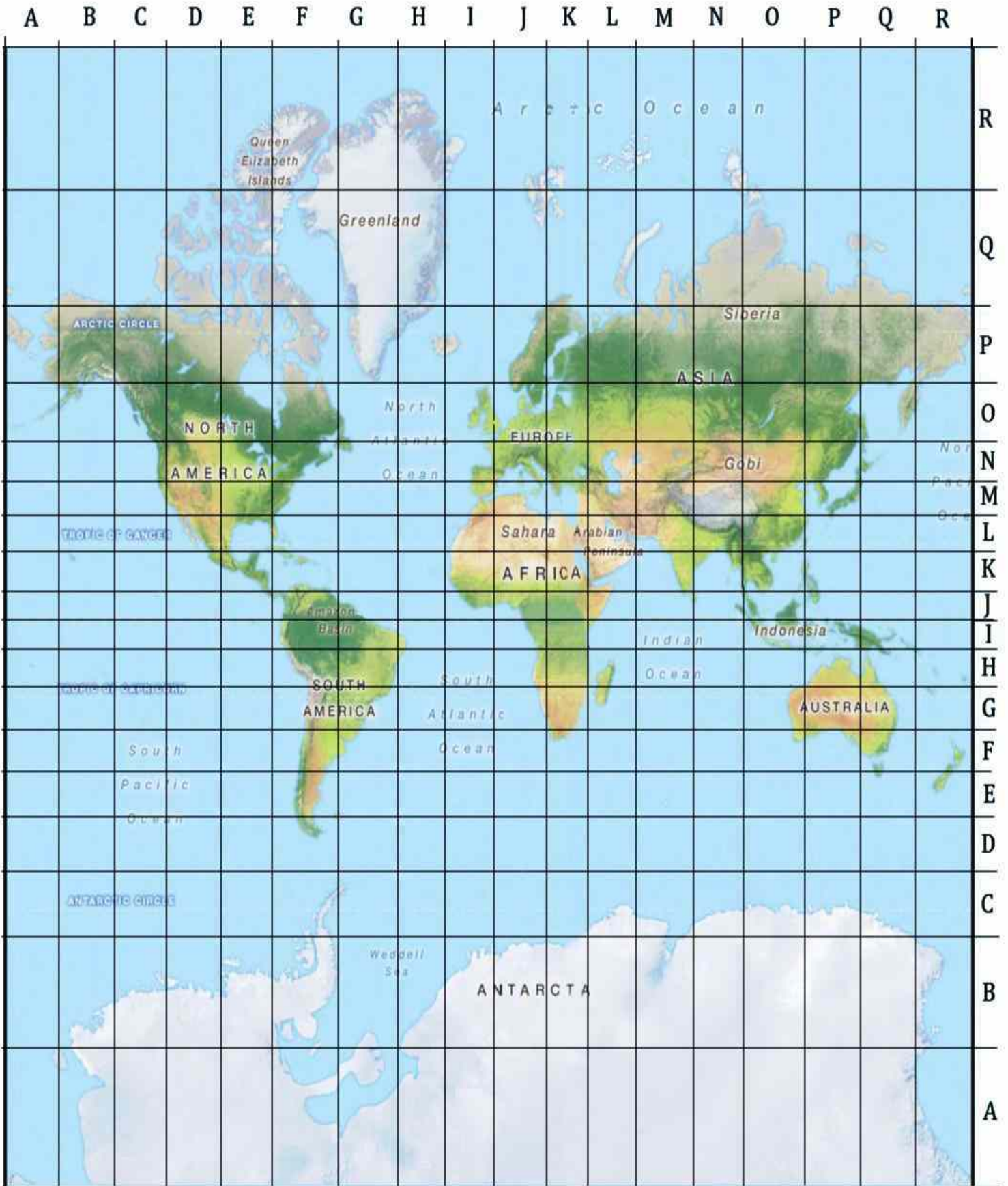
Date	Time	Freq	Mode	Callsign	Entity	LOC	Miles	Dir
3/29	20:10	14.162	SSB	IZ4COW	Italy	JN62	4343	ENE
3/29	20:12	14.170	SSB	CT3KN	Madeira Is.	IM12	3179	E
3/29	20:17	14.245	SSB	YV5GPA	Venezuela	FK60	2084	SSE
3/29	20:30	21.277	SSB	KP3DX	Puerto Rico	FK68	1557	SSE
3/29	20:33	21.274	SSB	KP4RV	Puerto Rico	FK68	1557	SSE
3/29	20:35	21.283	SSB	HI8PAP	Domin.Rep.	FK58	1504	S
3/29	20:38	21.288	SSB	NP2P	USVirgin Is.	FK78	1625	SSE
3/29	20:41	21.292	SSB	PY2UD	Brazil	GG87	4789	SSE
3/29	20:46	21.313	SSB	PP2C	Brazil	GG87	4789	SSE
3/30	20:51	14.012	CW	HB9IJC	Switzerland	JN37	3920	NE
3/31	20:50	14.012	CW	S55N	Slovenia	JN76	4269	NE
3/31	21:39	14.200	SSB	8P5AA	Barbados	GK01	2164	SSE
3/31	21:40	14.200	SSB	8P6NW	Barbados	GK01	2164	SSE
3/31	21:40	14.200	SSB	8P5QA	Barbados	GK01	2164	SSE
3/31	23:53	14.022	CW	4A60M	Mexico	EL14	1764	WSW
4/01	00:00	7.016	CW	NP4AW	Puerto Rico	FK68	1557	SSE
4/01	00:08	7.025	CW	V02NS	Canada	G003	1124	NNE
4/03	21:02	14.024	CW	HC5AI	Ecuador	FI19	2785	S
4/03	22:36	14.013	CW	CX2AQ	Uruguay	GF16	5240	SSE
4/03	22:54	14.015	CW	4A60M	Mexico	EL14	1764	WSW
4/07	00:11	7.004	CW	SP9MQA	Poland	K000	4349	NE
4/09	22:36	14.017	CW	4A60M	Mexico	EL14	1764	WSW
4/10	23:25	14.018	CW	4A60I	Mexico	EL14	1764	WSW
4/10	23:29	14.012	CW	HC5AI	Ecuador	FI19	2785	S
4/10	23:57	7.020	CW	II5MPI	Italy	JN62	4343	ENE
4/11	00:00	7.015	CW	S53A	Slovenia	JN76	4269	NE
4/12	00:47	7.031	CW	II5MPI	Italy	JN62	4343	ENE
4/13	17:51	14.243	SSB	GB5NHS	Nor.Ireland	I074	3221	NE

4/14	22:02	14.177	SSB	F5USK	France	JN18	3669	NE
4/15	21:19	14.025	CW	II5QNI	Italy	JN62	4343	ENE
4/15	21:23	14.004	CW	AM1WARD	Spain	IN80	3620	ENE
4/15	21:25	14.006	CW	YT8T	Serbia	KN04	4557	NE
4/15	21:27	14.014	CW	AM7WARD	Spain	IN80	3620	ENE
4/16	20:05	14.027	CW	40/E73A	Montenegro	JN92	4600	NE
4/17	23:39	7.015	CW	4Z5AD	Israel	KM72	5722	NE
4/17	23:48	7.016	CW	EM5C	Ukraine	K050	4732	NE
4/17	23:54	7.008	CW	AM1WARD	Spain	IN80	3620	ENE
4/17	23:57	7.007	CW	HG5DX	Hungary	JN97	4403	NE
4/18	16:44	14.006	CW	SM2U	Sweden	J099	3981	NE
4/18	16:46	14.008	CW	AM5WARD	Spain	IN80	3620	ENE
4/18	18:58	14.008	CW	4X4DZ	Israel	KM72	5722	NE
4/18	21:28	14.030	CW	YT8A	Serbia	KN04	4557	NE
4/18	21:31	14.036	CW	IK4DCX	Italy	JN62	4343	ENE
4/18	21:36	14.026	CW	CN8WW	Morocco	IM63	3631	ENE
4/18	21:51	14.044	CW	IK2GZU	Italy	JN62	4343	ENE
4/19	14:29	14.033	CW	F50HM	France	JN18	3669	NE
4/21	20:49	14.030	CW	EL2TD	Liberia	IJ47	4503	ESE
4/21	20:58	14.027	CW	5Z4/G3AB	Kenya	KI88	7433	ENE
4/22	21:08	10.109	CW	CT3MD	Madeira Is.	IM12	3179	E
4/22	21:22	14.016	CW	40/E73A	Montenegro	JN92	4600	NE

**Guess What They Had In Common**

Recording artists Chet Atkins, Tex Beneke, Alvino Rey, Tommy Tucker, Larry Ferrari, Donnie Osmond; actresses Pricilla Presley, and Hedy Lamaar; movie actor Andy Devine; famous radio DJ Martin Block; TV news anchors Walter Cronkite and Bill Leonard; radio/tv stars Arthur Godfrey and Jean Shepherd; movie producer Howard Hughes; Senator Barry Goldwater; Governor George Pataki; President Francesco Cossiga of Italy, King Hassan II of Morocco, King Juan Carlos of Spain, and King Hussein & Queen Noor of Jordan; Saint Maximilian Kolbe; computer designer Steve Wozniak; aircraft experimentors Dick Rutan & Jeana Yeager; cosmonaut Yuri Gagarin, and every US astronaut **had one thing in common:**

They were all licensed radio amateurs.



<b>May</b>						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2 8:00 pm Pandemic Net; see page 2.
3	4	5	6 7:30 NBEMS Training; OCARES Net 8:30 *	7 <b>HCARC Meeting on the air only 7:00PM see Page 1</b>	8	9 8:00 pm Pandemic Net; see page 2.
10	11	12	13 OCARES Skywarn Net 8:00 *	14	15	16 8:00 pm Pandemic Net; see page 2.
17	18	19	20 7:30 NBEMS Training; OCARES Net 8:30 *	21	22	23 8:00 pm Pandemic Net; see page 2.
24	25	26	27 7:30 NBEMS Training; OCARES Net 8:30 *	28	29	30 8:00 pm Pandemic Net; see page 2.
31			* See page 2			

**NOTE: HCARC MEETING CANCELLED**

Until further notice, because of the COVID-19 pandemic, we will not have our regular meeting, However, we'll try getting together on the air on May 7 at 7:00pm on **145.170 -600 pl 131.8.**