

The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

June 2020

Toms River, NJ

President's Message

I hope this message finds everyone well.

I want to thank everyone who attended last months ZOOM meeting and provided feed back after the meeting. While these meetings cannot replace face to face meetings, they do allow for at least seeing and talking to one another.

The next ZOOM meeting will be on June 4th at 7PM. Larry K2QDY will run the meeting as I am having knee surgery on the 3rd. I will send out the link for the meeting a couple of days ahead of time.

If anyone needs help getting on the program please do not hesitate to call.

Mike Carson KC2OQF will be doing a program on EME communications for the meeting.

I hope everyone is getting on the air and enjoying our great hobby.

73,

Carl

W2PTZ

Happy Birthday To:

Matthew de Rouville K3MR

Tony Kuzinski KD2GSO

Michael Larkins WA2CWX



Happy Anniversary To:

George and Joan Icenhower



From Michael Larkins WA2CWX

To: JOHN ROBERTS

Wed, May 20 at 4:39 PM

Hi John,

Just wanted to say hello and that I am alive and well during this pandemic. Fortunately, I was in my winter home in North Port, Florida when this all started. I miss being in NJ during this time as it's getting into summertime down here but I guess I am better off here than in NJ. Although I have not been a member of the club very long, I do miss the social aspect of our meetings. I wish you best health and can't wait to see you guys again.

73's and all the best health,

Mike, WA2CWX

How To Print SKYHOOK As A Booklet

Procedure for an 8 page booklet, using both sides of 2 sheets.

First Pass:

Set *Pages to Print* to **All**; Set *Paper Sizing & Handling* to **Booklet**; Set *Booklet Subset* to **Back side only**; Set *Sheets From* to **1 to 2**; Set *Binding* to **Left**; Set *Orientation* to **Portrait**; Press **Print**.

Second Pass:

Remove the printed sheets and, without turning them over or rotating them, re-arrange them in reverse sequence and re-insert them into the paper tray. Repeat the steps in First Pass except set *Booklet Subset* to **Front side only**

Our Next ZOOM Meeting:
Thursday June 4th at 7:00 PM
Contact Larry Puccio 732-349-2950 for info.
No in-person meetings until further notice.

Ocean County ARES® News

June, 2020

Recently, Ocean County ARES was the recipient of several equipment donations, by a source that wishes to remain anonymous. The equipment includes several commercial repeaters including duplexers. About 70 percent of the donated equipment can be used on amateur frequencies and is already in use as of this writing. Picture below shows a new 70 cm duplexer for the Berkeley D-Star Repeater. The new duplexer greatly increased the range of the repeater.



Berkeley D-Star Repeater System- Photo by WX2NJ

Another option under evaluation is the construction of a portable emergency UHF repeater system, which could be easily transported to a scene that is not easily covered by an amateur repeater. An example would be a search team in a heavy wooded area on the outside perimeter of Ocean County. The portable repeater could provide miles of coverage with a simple portable tripod antenna near the scene. Because UHF duplexers are relatively small, the portability of a 70 cm repeater becomes possible.

The next meeting of Ocean County ARES was scheduled for June 17th at the Ocean County EOC, but will be held via Zoom on the same date at 7:00 PM. The codes for the meeting will be released the day before the meeting on groups.io.

The Red Cross is having a drill on Saturday, May 30, 2020 and Ocean County ARES will be participating. There is a registration for drill participation, and details will be announced on groups.io as soon as they are learned. Pertinent information of the drill is as follows:

1. The event is a SIMULATION and no one with the Red Cross or ARES expects any operator to violate safety mandates. Most of the operators will be using their home station, a handheld or mobile. The actual local operation is entirely up to the local organization but safety in these times should be paramount.
2. The purpose of the simulation is to do a "Proof of Concept" to show the Red Cross leadership that ARES is capable of mobilizing a force of operators to assist in an emergency and to be able to pass messages in Red Cross formats as needed. Remember that one of the mandates of ARES is communication support of our served agencies and that is what we want to show we are capable of.
3. The Red Cross is preparing a website for operators to register for this exercise. This information will not be a Red Cross registration but will be used for this exercise only and will be used to show, in visual representation, where and how many operators participate in the simulation.
4. Messages created for this exercise will be passed to regional stations in order to be aggregated and forwarded to Red Cross national authority addresses. The content is not the point, but the format and structure is.
5. The local traffic can be in whatever format you are used to using, but then forwarded to the regional stations in Winlink ARC message format. From there they will be forwarded to the Red Cross national authority addresses. The regional stations will prepare a report on the number of messages received.
6. The time frame for this simulation is one day, and broken down into two separate parts. Part A and Part B.
Part A will be Saturday morning and generally from 9 AM to noon local. Because of different time zones not all stations will be operating at

the same time. Part B will take place from 1PM local until all of the regional stations have reported.

- The simulation events will actually start a couple of days ahead, with bulletins to alert operators to specific conditions.

73 de WX2NJ

Bob Murdock

Ocean County Amateur Radio Emergency Service® EC

Our VE Session In The Park

The Holiday City ARC held its VE session on Friday May 15th 2020 in the Whispering Pines Park, located in Berkeley Township, New Jersey. The park has a pavilion with picnic tables. There were six candidates and four VE's. The candidates sat at their own tables and the VE's sat at other tables across from the candidates.

All of the six candidates passed the Technician grade test and two of them passed the general class test as well.

The two that passed the General class test indicated they want to take the Extra class test the next time. One of the candidates who passed the Technician class test also indicated he wanted to take the General class test next time.

The session lasted approximately one and a half hours.

The VE's were

Stan Stafiej KB2PD

Steve Jackson N2WLH

John Roberts KQ4WR

Larry Puccio K2QDY

The candidates were:

Tony Stone now KD2TXJ (Tech FN20xj)

Gus Koltoukis now KD2TXM (Gen FM29xl)

John Hutchinson now KD2TXN (Gen FN20xe)

Joe Andujar now KD2TXK (Tech FN20we)

John Kulusich now KD2TXL (Tech FM29ux)

Shareef Dowd now KC3PHB (Tech FM29kx)

- Larry Puccio, VE Liaison

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.hcarrc.us

President	Carl Lee	W2PTZ	732 575-7558
Vice President	Billy Locke	KD2MHA	732 281-0151
Secretary	John Perry	KD2NDY	732-349-2705
Treasurer	Larry Puccio	K2QDY	732-349-2950
Executive Board	Doug Poray	KC2TZC	732-928-2316
Executive Board	John Roberts	KQ4WR	732-966 4665
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, 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 732 966 4665

Field Day 2020

From: Tom Preiser N2XW tjpreiser@gmail.com

Date: Thu, May 28, 2020 at 4:46 PM

Subject: [SJDXA] Fwd: [ARES-ARRL] Field Day Rules adjustment

Temporary Rule Waivers Announced for 2020 ARRL Field Day

05/28/2020

With one month to go before 2020 ARRL Field Day, June 27 – 28, the ARRL Programs and Services Committee (PSC) has adopted two temporary rule waivers for the event:

- 1) For Field Day 2020 only, Class D stations may work all other Field Day stations, including other Class D stations, for points.

Field Day rule 4.6 defines Class D stations as “Home stations,” including stations operating from permanent or licensed station locations using commercial power. Class D stations ordinarily may only count contacts made with Class A, B, C, E, and F Field Day stations, but the temporary rule waiver for 2020 allows Class D stations to count contacts with other Class D stations for QSO credit.

- 2) In addition, for 2020 only, an aggregate club score will be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions).

Ordinarily, club names are only published in the results for Class A and Class F entries, but the temporary rule waiver for 2020 allows participants from any Class to optionally include a single club name with their submitted results following Field Day.

For example, if Podunk Hollow Radio Club members Becky, W1BXY, and Hiram, W1AW, both participate in 2020 Field Day — Hiram from his Class D home station, and Becky from her Class C mobile station — both can include the radio club’s name when reporting their individual results. The published results listing will include individual scores for Hiram and Becky, plus a combined score for all entries identified as Podunk Hollow Radio Club.

The temporary rule waivers were adopted by the PSC on May 27, 2020.

ARRL Field Day is one of the biggest events on the amateur radio calendar, with over 36,000 participants in 2019, including entries from 3,113 radio clubs and emergency operations centers. In most years, Field Day is also the largest annual demonstration of ham radio, because many radio clubs organize their participation in public places such as parks and schools.

Due to the COVID-19 pandemic, many radio clubs have made decisions to cancel their group participation in ARRL Field Day this year due to public health recommendations and/or requirements, or to significantly modify their participation for safe social distancing practices. The temporary rule waivers allow greater flexibility in recognizing the value of individual and club participation regardless of entry class.

ARRL is contacting logging program developers about the temporary rule waivers so developers can release updated versions of their software prior to Field Day weekend. Participants are reminded that the preferred method of submitting entries after Field Day is via the web applet. The ARRL Field Day rules include instructions for submitting entries after the event. Entries must be submitted or postmarked by Tuesday, July 28, 2020.

The ARRL Field Day web page includes a series of articles with ideas and advice for adapting participation

Calculating Geographic Distances

You can believe the distance from your station given in QRZ.com, or calculate it yourself. For DIY'ers, here's how.

Given the Latitudes and Longitudes of two locations, and a computer, we can calculate the distance between them.

Distances between locations on the Earth's surface can be calculated by using math for spherical triangles, because the rules for ordinary plane trigonometry don't work on curved surfaces.

For example, although the sum of the angles in a plane triangle equals 180 degrees, the sum the angles in a spherical triangle is always more than 180 degrees.

Because the sides of the triangle are arcs rather than straight lines, they are measured in degrees or radians. The radius of a sphere is the distance from the center to the surface.

Angles, and lengths of arcs, can be measured in degrees or radians, but computers seem to prefer working in radians.

A radian is the length of one radius laid out along the circumference of a circle or surface of a sphere. That's a handy unit of measure. The distance along the surface from pole to pole equals pi radians.

Distances between locations on the Earth's surface can be calculated by assuming a triangle using the North Pole (or South Pole) as the third corner.

That's nice, because it makes the lengths of two of its sides equal to the latitudes of the other two corners, and the angle at the pole is the difference between their longitudes.

To measure the distance from Point A to Point B, we need to label the parts of our triangles. I prefer using capital 'C' for the corner at the North Pole, and capital 'A' and capital 'B' for the other corners of the triangle.

By convention, lowercase 'a' is the side opposite 'A', lowercase 'b' is the side opposite 'B', and lowercase 'c' is the side opposite 'C'.

First, we have to find the distance in degrees from each of the locations to the pole.

We know the North Pole is 90 degrees latitude, so we just subtract the location's latitude, in degrees, from 90.

That gives us 'a' and 'b', which are the lengths of two of the three sides of our triangle.

The distance between the locations, 'c', is the third side.

The angle the two sides form at the North Pole, 'C', is the difference between the longitudes, so we subtract the longitudes to find the angle.

OK, so now we know the length of two sides ('a' and 'b') in degrees, and the angle between them ('C') in degrees.

Now we need to convert 'a', 'b' and 'C' to radians by multiplying by pi/180. Fortunately, you may already have a computer function for this.

(n in radians = RADIANS(n in degrees)).

The **cosine** of 'c' (the length of the third side), equals:

$$n = \text{COS}(a) * \text{COS}(b) + \text{SIN}(a) * \text{SIN}(b) * \text{COS}(\text{ABS}(C))$$

$$\text{then } c = \text{ACOS}(n),$$

where 'c' is the distance between the locations, in radians.

Finally, multiply 'c' (in radians) by the 3961 mile radius of the sphere to get the mileage.

In my case, I taught my computer to do all the work. So now I just enter a list of grid squares and it prints out the distances, and the directions too.

Some DX Opportunities

In alphanumeric order of Callsign

Italics if over 6000 miles

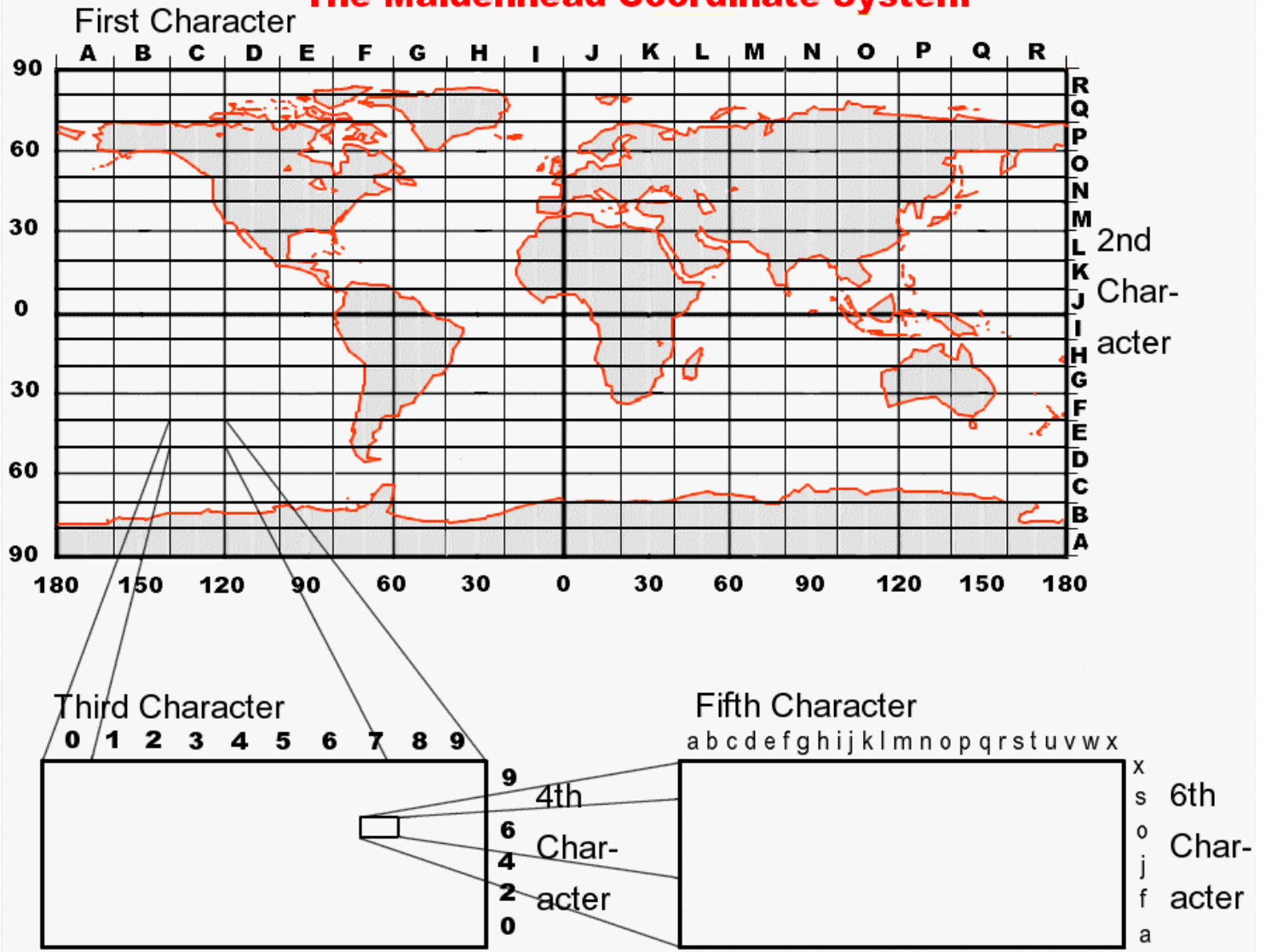
Mode codes: 8 = JT8, c = QRS CW, C = CW, D = Digital, J = JP4, P = PSK31, R = RTTY, S = SSB, T = SSTV.

Bands: "Low" usually means 160, 80 & 40m.

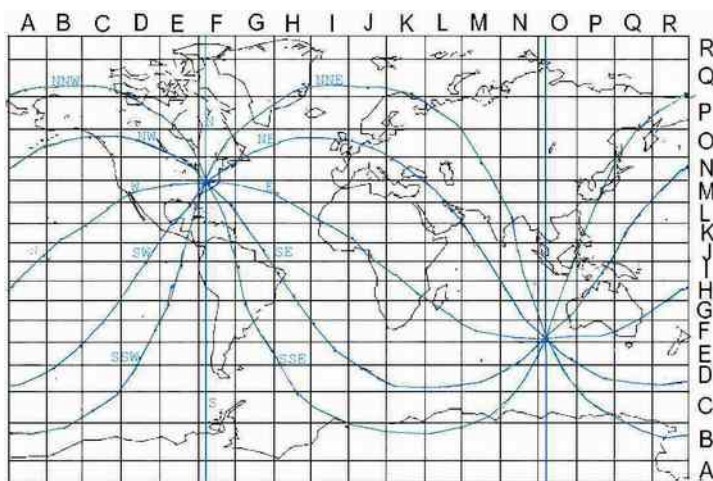
Many thanks to NG3K, Wikipedia, Google Maps, the ARRL, the RSGB, DXW, TDDX & QRZ.com for the data.

START	FINISH	ENTITY	CALLSIGN	IOTA	BANDS	MODES	QSL via	LOC	Miles	Dir	Info by
Mar 01	Nov 01	Tonga	A35JP				JA0RQV	AG29ma	7693	W	NG3K
Mar 07	Jan 01	France	T00A				...	JN18dt	3669	NE	TDDX
May 25	Jun 07	Martinique	FM/ON4RU	NA-107	160-10m	C	ON4RU dir	FK94mq	1923	SSE	ON4RU
Mar 02	Dec 31	Afghanistan	T6AA				S53R	MM22ma	6827	NE	TDDX
Apr 14	Jun 14	Cambodia	XU7AMG		80-10m	S R	BG9XD	OK21mm	8885	N	NG3K
Jun 02	Jun 27	Alaska	KL7/KC1KUG	NA-158	40 20	S C 8	KC1KUG SASE	BP40bi	3474	NW	KC1KUG
Jun 10	Jun 17	Cayman Is	ZF2FD	NA-016	80-20	S	LoTW	EK99sm	1460	SSW	DX News
Jun 15	Jul 15	Guantan. Bay	KG4MA		80-10	S 8	TBA	EL83td	1256	SSW	TDDX

The Maidenhead Coordinate System



Larry Puccio's DX Report



Date	Time	Freq	Mode	Call Sign	Entity	IOTA	LOC	MILES	DIR
5/06	23:49	28.444	SSB	KP4CQ	Puerto Rico	NA-099	FK68pg	1565	SSE
5/07	00:10	28.465	SSB	WP4IRV	Puerto Rico		FK68tx	1524	SSE
5/07	00:27	28.414	SSB	HI8AT	Dominican Republic	NA-096	FK48ws	1485	S
5/07	20:01	14.017	CW	HG20ST	Hungary		JN97mn	4398	NE
5/07	20:05	14.300	CW	F6ARL	France		JN33no	4027	ENE
5/07	20:08	14.014	CW	LZ50BFRA	Bulgaria	EU-181	KN22dq	4798	NE
5/07	20:20	14.018	CW	9A3YT	Croatia	EU-016	JN75ej	4282	NE
5/07	20:50	14.012	CW	PY4HGM	Brazil		GH80bd	4575	SSE
5/07	21:03	14.020	CW	EA3KE	Spain	EU-078	JN00ir	3820	ENE
5/09	17:18	28.011	CW	WA2ZYU	Florida FL 33993		EL86xr	1018	SSW
5/09	23:43	28.450	SSB	HI8RD	Dominican Republic	NA-096	FK58am	1504	S
5/09	23:50	28.475	SSB	WJ6A	Alabama		EM64pu	769	WSW
5/10	21:50	14.217	SSB	S52DG	Slovenia		JN76ga	4268	NE
5/10	21:55	14.267	SSB	EA7JWF	Spain	EU-143	IM77nu	3636	ENE
5/10	23:51	14.238	SSB	IK0ETA	Italy		JN62ks	4309	NE
5/10	23:56	14.246	SSB	NP4SS	Puerto Rico	NA-099	FK68qf	1569	SSE
5/11	20:43	14.014	CW	LZ50BFRA	Bulgaria	EU-181	KN22dq	4798	NE
5/11	22:57	10.111	CW	OZ8X	Denmark	EU-029	J045rj	3789	NE
5/11	23:01	10.104	CW	S57V	Slovenia		record	incomplete	
5/11	23:18	14.024	CW	4A60M	Mexico		EK09kk	2047	SW
5/11	23:29	28.455	SSB	FG4SO	Guadeloupe	NA-102	FK96gh	1806	SSE
5/12	21:38	14.016	CW	IU0VFZ	Italy		no license found		
5/12	23:28	28.455	CW	NP4ET	Puerto Rico	NA-099	FK68o1	1550	SSE
5/12	23:35	28.413	SSB	WP4IRV	Puerto Rico		FK68tx	1524	SSE
5/12	23:41	28.413	SSB	HI8AT	Dominican Republic	NA-096	FK48vu	1478	S
5/13	20:18	14.022	CW	IK4WKU	Italy		JN54mo	4167	NE
5/13	20:30	14.035	CW	4Z4DX	Israel		KM71ie	5747	NE
5/13	20:57	14.012	CW	DL1DAW	Fed Rep of Germany	EU-042	J031to	3816	NE
5/13	21:18	14.020	CW	E73ESP	Bosnia-Herzegovina		JN94cr	4467	NE
5/14	00:31	28.420	SSB	KP4WQ	Puerto Rico	NA-099	FK68kl	1544	SSE
5/15	15:40	28.420	SSB	KB00GI	Missouri		EM49ik	907	W
5/15	15:56	28.419	SSB	W9RII	Illinois		no such license		
5/17	22:32	14.009	CW	4A60I	Mexico		EK09kk	2047	SW
5/17	23:17	14.012	CW	DQ5M	Fed Rep of Germany		JN58xh	4086	NE
5/17	23:25	14.020	CW	4A60M	Mexico		EK09kk	2047	SW
5/18	00:06	14.024	CW	CT1BQH	Portugal	EU-040	IM59sl	3414	ENE
5/18	00:14	14.015	CW	XE1XR	Mexico	NA-189	EK09kk	2047	SW

June

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 OC ARES Net 7:00 PM	4 HCARC ZOOM Meeting 7:00 PM	5	6
7	8	9	10 OC ARES Net 7:00 PM	11	12	13 ARRL VHF Contest Begins
14 Flag Day	15	16	17 OC ARES ZOOM MEETING 7:00 PM	18	19	20 ARRL KIDS DAY
21 Fathers Day	22	23	24 OC ARES Net 7:00 PM	25	26	27 FIELD DAY BEGINS See Page 4
28 Field Day continues	29	30				