

The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

March 2021

Toms River, NJ

President's Corner For March 2021

Happy St. Patrick's Day to you all!

I'll let you in on a secret - I have made it my habit to write this segment after the meeting concludes the month before, meaning I'm typing now on 4 Feb, just after the Zoom meeting. I'm feeling very fortunate that we had such a good turnout, and active participation from so many members. I hope that continues, until we can meet in person again.

Larry gave us a great presentation on some antenna types, including varieties that are easy to build for nearly anyone - space and permission to hang them are left to the user, of course. It was great to have a member presentation, and I thank him for it.

Once again, I call on everyone to remember this is a member-driven club; please submit articles for this newsletter, and consider presenting at the meeting.

My own experiments in radio are ever evolving. Being a child of the 80s, I remember pagers fondly. Recently I've found that there is an overlap in frequency between certain pagers and the 70cm band. There is a whole ham pager infrastructure out there, based in Germany, and the software I already use for my DMR hotspot knows how to talk to it. I'm about ready to slip on my Ray-Bans, jump in the DeLorean, and go back to the 80s for some silly radio fun. More of that as it develops.

73,

Michael

KC2OQF



Say Happy Birthday To:

Michael Carson KC2OQF

Raymond Kozakiewicz KC2TPK

John Roberts KQ4WR

Sarah Punderson



And Happy Anniversary To:

Steve and Christine Jackson



Ham Radio's Windfall - Part 2

By Stan Stafiej, KB2PD

In the late 1990s, when HF propagation was excellent, I usually started my day's activities by getting on 20 meter sideband to join in conversation with friends that I had made in New Zealand and Australia. Over the course of several months, we had gotten to know each other very well.

We discussed what our other hobbies were, who our family members were and what they did, and of course, our geographic locations and points of interest.

It was while talking about the Barossa Valley wine-making center of South Australia that John VK5LV suggested that I come to see the area for myself.

A preposterous idea, I thought.

[Continued on next page]

NEXT REGULAR MEETING:

Meetings are held on Zoom the first Thursday of each month. Mike will send members an e-mail with the Zoom address before the meeting.

Yet, a month or so later, John dumbfounded me with an actual invitation that he had discussed with the other confreres of our daily morning/evening group, Bill VK5ASW, Frank VK2DWE, Cal VK2ECN and Stan ZL2RK. All I had to do was to get myself there, and they would take care of the rest.

Wow! What to do? My wife and I gave it a lot of thought. This was a once in a lifetime opportunity that couldn't be dismissed lightly.

But finances, time of year, duration of stay and other matters were part of the equation to be resolved.

We began with the easier stuff to consider: time of year and duration of stay. While it is winter here, it is summer in the southern hemisphere. So, our winter would be the departure date, a welcome transition from the cold to warmth.

Duration of stay was a little trickier to iron out. We'd like to spend more time visiting than traveling to these two countries. So, only a couple of weeks total wouldn't be enough.

During this period, I was entitled to one month of vacation time with my employer, but I could carry over two weeks from one year to the following one.

It was decided: this will be a 6 week trip, three times longer than any vacation/trip I had ever taken.

Keep tuned in!

Getting My First License



The Old Federal Building in NYC

By John Roberts, KQ4WR

Back in 1951, I went to the New York FCC office to take the tests for my first ham license, as that was long before Volunteer Examiners.

This would be my first license of any kind.

In those days, you had to have a Class B license for a year before you could test for a Class A license. Class B was like between today's Technician Class and General Class, and Class A was like between today's General Class and Extra Class. There was no Novice Class yet. There was also a Class C license for those who lived beyond a certain travelling distance from an FCC office.

Back then, New York's FCC was in the big old brick building at 641 Washington Street that still occupies a whole block of Manhattan, but is no longer the Federal Building. The FCC office was on the seventh floor; the floor with the big semicircular windows.

On a table that seemed to be also sort of a workbench, was a 1948 Pilot TV set. The cabinet was about the size of a microwave oven, but the screen was only 3/4 as big as a credit card. I found a very interesting article about that model at:

https://www.radiomuseum.org/r/pilot_candid_tv_tv37.html

Anyway, I handed in the application paperwork and was then led into another room where I was to wear a pair of headphones and write what I heard on a sheet of paper. There was a machine that generated International Morse Code from perforations in paper tape.

I put on the headphones and, well, thirteen words a minute never seemed quite so fast. If you couldn't copy 13wpm, you struck out. So I flunked and had to come back the next month.

A month later, I returned and passed that test, so the examiner handed me a telegraph key and a card with a couple of paragraphs of text on it, and asked me to send.

He stopped me after two words and said I passed that test, and started me on the written part of the examination.

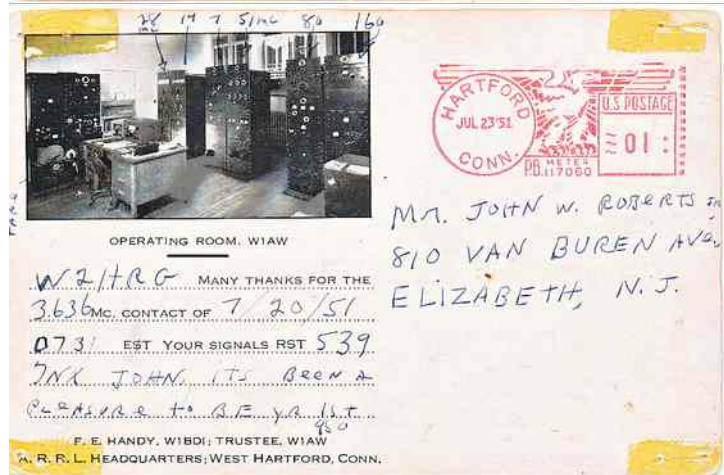
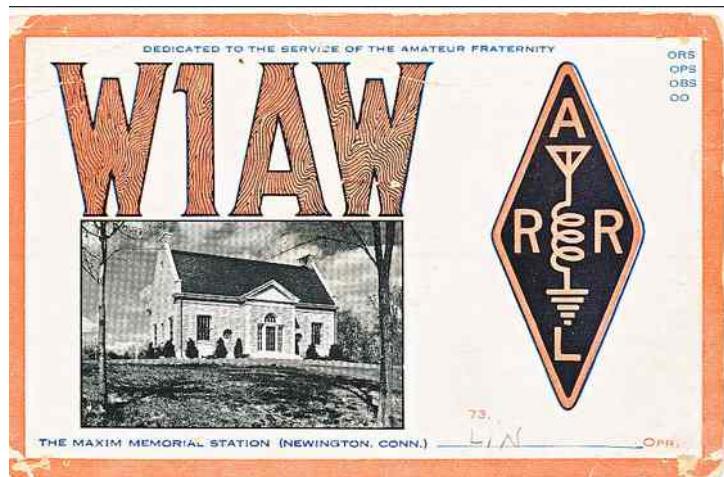
That was easy for me, as I had studied the ARRL License Manual well, and had been doing radio repairs as a hobby after school for two or three years.

The next step was that I needed to get the paperwork notarized. I asked how to do that, and was told to take it to a Notary's office across the street. For fifty

cents, that step was accomplished.

Back in the FCC Office, I handed it in and was told that I'd be getting my license by mail in a few weeks.

By the time my license arrived, the name of the license class had changed from "Class B" to "General", so my license was one of the first General Class ones. That day, we had a thunderstorm, so my first successful contact was W1AW on 80m CW the next morning.



One of the few hams I knew had a temporary job at the ARRL headquarters in Hartford, CT. He had regular morning scheduled CW chats with his dad in New Jersey, who was also a ham. So I phoned his home and soon had no trouble making W1AW my very first QSO.

A year later, I went back to the FCC office and easily upgraded to "Advanced" class.

73,

John Roberts, KQ4WR

UTC Time Conversion Table

UTC	EDT	EST CDT
00 nn Z	8 :nn PM	7 :nn PM
01 nn Z	9 :nn PM	8 :nn PM
02 nn Z	10 :nn PM	9 :nn PM
03 nn Z	11 :nn PM	10 :nn PM
04 nn Z	12 :nn AM	11 :nn PM
05 nn Z	1 :nn AM	12 :nn AM
06 nn Z	2 :nn AM	1 :nn AM
07 nn Z	3 :nn AM	2 :nn AM
08 nn Z	4 :nn AM	3 :nn AM
09 nn Z	5 :nn AM	4 :nn AM
10 nn Z	6 :nn AM	5 :nn AM
11 nn Z	7 :nn AM	6 :nn AM
12 nn Z	8 :nn AM	7 :nn AM
13 nn Z	9 :nn AM	8 :nn AM
14 nn Z	10 :nn AM	9 :nn AM
15 nn Z	11 :nn AM	10 :nn AM
16 nn Z	12 :nn PM	11 :nn AM
17 nn Z	1 :nn PM	12 :nn PM
18 nn Z	2 :nn PM	1 :nn PM
19 nn Z	3 :nn PM	2 :nn PM
20 nn Z	4 :nn PM	3 :nn PM
21 nn Z	5 :nn PM	4 :nn PM
22 nn Z	6 :nn PM	5 :nn PM
23 nn Z	7 :nn PM	6 :nn PM

Shaded times indicate that the next UTC day has already begun.

CLUB COMMITTEES

- Refreshments:** Marge [KD2LNT](#) pearl1122@comcast.net
- Webmaster:** Steve [N2WLH](#) N2WLH@yahoo.com
- Programs:** (open)
- Sunshine:** (open)
- 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** Mike Carson [KC2QQE](#) 917-830-4225
- Vice President** Carl Lee [W2PTZ](#) 732-575-7558
- 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](#) 732-350-1162
- 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 normally held on the first Thursday of every month, at 7:00 pm, except in 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.

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It's About Time

About UTC (Universal Time, Coordinated) and Daylight Savings Time, I mean.

Early Sunday morning, March 14, most of our clocks move ahead an hour, but not those running on UTC time.

UTC is basically what we used to call GMT or Greenwich Mean Time. The only actual difference is how it's standardized, but the difference rarely affects us, other than an occasional a "leap second".

A few simple rules:

If the time is given as four numerals and maybe a "Z", you can assume it's UTC time.

UTC is never AM or PM, it's always 0000 to 2359 or 00:00:00 to 23:59:59.

UTC never shifts to a "Daylight Time".

UTC doesn't have time zones. It's the same UTC time everywhere.

Where the time is stated in UTC, the date is also in UTC. So after 7:00PM EST or 8:00PM EDT, UTC is already starting the next day. For instance, Sunday March 21, 2021 11:15 PM EDT, is the same as Monday 2021-03-22 0315.

Some March DX Contests

The first weekend of March is the ARRL's International DX – Phone contest. See <http://www.arrl.org/contests> for details.

The last full weekend of March is the CQ Worldwide WPX contest. For the rules, see:

<http://www.cqwpw.com/rules.htm>

Albert Einstein

There's a tribute to Prof. Einstein, on his birthday, which is March 14 ("Pi Day" 3.14), by the David Sarnoff Radio Club. Einstein lived in Princeton NJ from 1933 until his death in 1955. Check out 7.050, 7.200, 14.050 & 14.250 MHz. More info at <http://www.n2re.org/>.

How To Join A Zoom Meeting

Joining a ZOOM meeting, assuming you're invited, is easy, if you know how. You probably already have the basic equipment. Ideally, that should be some kind of computer or smart phone that can connect to the Internet. Even a plain old-fashioned telephone will work, but without the picture, you'd miss a lot.

If you have a smart phone, you probably have all the hardware you really need.

But to send the video you see on your smart phone to the larger screen of a TV set, you should consider adding a Roku device, and download the "Roku Mirror" app. Better still if you have an Apple iPhone, get an "Apple TV" media receiver and use your iPhone's "Screen Monitoring" feature.

If you don't have a "smart phone", but you have a laptop or desktop PC with camera and microphone, you can use that.

If it doesn't have a mic and camera, you can buy a digital camera with a mike built in (such as an Aluratek for under \$45), and plug it into your PC's USB port. Just follow the simple instructions that come with it, and you're good to go.

One final bit of hardware to add might be a small lamp to illuminate your face for the camera.

You still might need to download a ZOOM app if you don't already have one. Check out the SeniorsGuide article below:

SeniorsGuide.com has a nice "How to" article which is worth reading:

<https://www.seniorsguide.com/wp-content/uploads/2020/09/SeniorsGuide-stepbystepguidetoZoom-english0620.pdf>

Like in-person meetings, most attendees "arrive" several minutes early to a ZOOM meeting to get acquainted and settle down.

Larry Puccio, K2QDY, Worked:

DATE	TIME	FREQ	MODE	CALLSIGN	ENTITY	LOC
1/20/2021	22:31	7.004	CW	YU7QF	Serbia	KN04
1/24/2021	15:25	18.083	CW	IK2CKR	Italy	JN62
1/26/2021	22:10	7.005	CW	YU1XA	Serbia	KN04
1/26/2021	22:16	7.012	CW	OL70DG	Czech Republic	J070
1/26/2021	23:58	7.003	CW	7X4AN	Algeria	JM16
1/30/2021	16:57	14.029	CW	F5VHY	France	JN18
1/30/2021	16:59	14.021	CW	F50GL	France	JN18
1/30/2021	17:01	14.012	CW	F8KCF	France	JN18
1/30/2021	17:05	14.028	CW	F1MNQ	France	JN18
2/01/2021	19:22	14.021	CW	EA8TL	Tenerife, Canary Is	IL28
2/02/2021	00:13	7.025	CW	CT1BQH	Portugal	IM58
2/02/2021	16:23	14.019	CW	HA4FF	Hungary	JN97
2/02/2021	16:51	14.013	CW	9A4W	Croatia	JN75
2/10/2021	22:35	7.004	CW	S57V	Slovenia	JN76
2/10/2021	22:46	7.009	CW	EA5IUY	Spain	IN80
2/11/2021	20:40	14.028	CW	KL2S	Wacilla, Alaska	BP54
2/11/2021	22:21	7.01	CW	HB9CGL	Switzerland	JN37
2/11/2021	22:36	7.01	CW	LZ1QI	Bulgaria	KN12
2/12/2021	00:32	7.098	CW	ZB2FK	Gibraltar	IM76
2/12/2021	16:04	14.009	CW	LA6XE	Norway	JP50
2/12/2021	16:08	14.007	CW	DL6BBT	Fed Rep of Germany	J031
2/12/2021	16:30	14.009	CW	IK0IXI	Italy	JN62
2/13/2021	15:53	14.185	SSB	TI5VMJ	Costa Rica	EK80
2/13/2021	15:58	14.249	SSB	PE5T	Netherlands	J022
2/13/2021	16:04	14.26	SSB	W0JH/VE3	Onterio, Canada	E074
2/13/2021	16:18	14.164	SSB	PA5KM	Netherlands	J022
2/13/2021	16:58	14.224	SSB	PA1LX	Netherlands	J022
2/13/2021	17:08	14.214	SSB	OE6XG	Austria	JN88
2/13/2021	23:05	17.001	CW	D2EB	Angola	J161
2/13/2021	23:28	10.129	CW	ZB2FK	Gibraltar	IM76
2/15/2021	21:50	7.004	CW	EA8A	Canary Is.	IL28

Antennas In Restricted Communities



Living in an antenna restricted HOA community can be very disheartening to the Ham but there may be a way around the restriction. Many of the homes in the Toms River HOA Communities may be conducive to putting an antenna in the attic.

For example although my neighborhood does not have such restrictions when I first moved here, I wanted to go on the air. But I had moved-in in the early winter and putting up an outside antenna would be difficult in the cold weather.

The first thing I did was to put a plywood floor in the attic of the house. The house measured 52 feet long front to back and was constructed with a truss

assembly roof. The walkway I put in was 8 feet wide and constructed with 5/8 inch plywood. This gave me the opportunity to walk from front to back without being concerned that I would slip off a beam and put my foot through the ceiling. The peak was seven feet above the flooring so I could walk standing up straight.

A 40 meter dipole was the antenna of my choice. A forty meter dipole should be 66.5 feet long. Although the front to back was only 52 feet long, what I did was to run the dipole in the peak of the roof and at each end I ran the excess down along the front and rear roof beams to make up the needed length. The length that sloped down on each end was approximately 7 feet, and I ran the ends in opposite directions.

The next question was how to feed this antenna. If you use coax, you are then restricted to the frequency the antenna is cut for. In my case using coax would restrict me to 40 meters, and maybe 15 if the Standing Wave Ratio (SWR) was low enough. The next option was to use open wire feed line with a tuner, and then I could tune the antenna for any band I decided to use.

I chose 300 Ohm TV twin lead from the center of the antenna down thru the wall and into the back room of the house where I had my rig. The tuner at that time was an MFJ and it did tune the antenna to all the bands. I was able to operate on 80, 40 and 20 meters which suited me just fine.

I used this configuration until the spring time when I put up a G5RV over the roof of the house. The antenna went from a tree in the front to a tree in the back and I mounted two TV brackets on the rear side of the house to support a 15 foot pole that supported the center of the antenna and the feed line. I still use this antenna and have been able to work the world.

I hope this will help some of the people who live in an antenna restricted community to get on the air.

Larry Puccio [K2QDY](https://www.qr.com/k2qdy)

Ocean County ARES® News

March 2021

On Wednesday, February 17th, there was a Zoom Meeting of Ocean County ARES attended by about a dozen operators. Thanks for taking the time to attend the meeting. Unfortunately, WX2NJ had numerous technical problems with Power Points and Zoom working together and resulted in his PC locking up several times. The Power Points presentation had to be abandoned for the remainder of the meeting.

One of the items being covered was an award presented to Bob Bruno, N2NF, for his support of Ocean County ARES during many repeater and digipeater installations. Due to Covid restrictions, the presentation could not be public. The picture below is the award presented to N2NF from WX2NJ in early February:



The instrument is a precision barometer from Downeaster Wind and Weather in Cape Cod,

Massachusetts. Bob was very appreciative of the award and will be displaying it in his ham shack. Congratulations to N2NF!

The next VE Session of Ocean County ARES will be March 16th at 7:00 PM, Ocean County EOC. Appointments are required by contacting John – N2LD. Covid precautions will be followed including masks for all participants.



145.170 MHz, WA2RES/R; Photo by WX2NJ

The 145.170 MHz repeater has been added back into the Ocean County ARES toolbox and is back in the lineup of weekly Wednesday training nets. The schedule is as follows:

First Wednesday of the month, 449.825 MHz, WA2RES/R at 8:30 PM ARES Voice Net with Echolink.

Second Wednesday of the month, 145.170 MHz, WA2RES/R, 8:00 PM Skywarn Net and 8:30 PM ARES Voice Net. No Echolink.

Third Wednesday of the month, 449.825 MHz, WA2RES/R at 8:30 PM ARES Voice Net with Echolink.

Fourth Wednesday of the month, 145.170 MHz, WA2RES/R at 8:30 PM ARES Voice Net. No Echolink.

Additionally, periodic digital training nets will be held at 7:30 PM on the repeater opposite of that used for voice nets. i.e. Digital on UHF if Voice is on VHF and Digital on VHF if voice is on UHF. Echolink will be activated on Digital UHF nets only, not VHF.

No nets will be held on Meeting nights, either Zoom or in person.

Skywarn activations will most likely have nets on VHF, 145.170 MHz, WA2RES/R due to extended coverage into the southern part of the county.

From The Ocean County Skywarn Coordinator, K2MDW:

As everyone knows, February has been very busy weather wise and the Ocean County Skywarn members have also been very busy.

Since February first, there have been 81 posts to the Group.io system, reporting weather updates and location weather conditions reports. Members who reported weather conditions on the Group.io: K2HVE, KD2DLY, KD2FFR, N2QXB, N2RPQ, N2XW, WB2ALJ and Colleen Clayton, Spotter ID; OCNJ-098

There have been (6) Special Weather Reporting Nets, held on 145.170 (NORTH 2) ; the following members contributed to these nets; AB2ZN, KC2MTA, K2REM, KD2FFR, KC2SPK, K2JSS, KD2DLY, N2LD, N2XW, N2HYG, N2RPQ, W2PTZ, WB2ALJ, WX2NJ.

I would like to thank all the members who contributed to Ocean County Skywarn reporting service. I have been told that we were the most active in Southern New Jersey. All the reports were forwarded to the National Weather Service in Mt Holly, NJ.

If at all possible, any members on or close to the barrier Island areas of Ocean County, your input and reports would greatly be appreciated.

73

K2MDW

73 de WX2NJ

Bob Murdock
Ocean County Amateur Radio Emergency Service® EC

My Quest For Rhode Island

When I first received my Amateur Radio License I formed a personal goal in my mind to contact all the lower 48 states using code. Within the first year I had QSOs with all the states east of the Mississippi River except for Rhode Island. I have contacted 43 states since in the last three years except for Rhode Island. On January 22 of this year I received an e-mail from a Straight Key Century Club member that he and two other night owls will be available to receive QSOs stationed in Rhode Island from 12 a.m. to 5 a.m. I haven't been the best sleeper in the last few years so I thought I would give this opportunity a try. I tried several times since receiving the e-mail but was not successful. On February 5th of this year I made a concerted effort to make a contact so at 1:30 a.m. I had a chat with hams in Belgium and Kansas.

Toms River to KnoKKe-Heist Belgium is 3,649 miles away and Lansing Kansas is 1,227 miles away. Rhode Island is 239 miles away from Toms River. Using the call sign of the Rhode Island contact, I found an e-mail address for the Ham and wrote a short note. The response I received was encouraging and repeated what I already knew - for some reason it is difficult to send or receive short wave transmissions to and from Rhode Island to New Jersey.

Because of the different time zones, my other goal for sending code after midnight was to, hopefully, make a QSO with the western states with which I have not made contact. The best part of transmitting after midnight is that the air waves are not as full as during the day or early evening and, as long as the propagation is good, I have made some nice hits. If the weather had been more favorable these last few weeks, I just might have had discussions with hams in additional states. (Three days ago an Oklahoma Ham said it was getting cold.)

Well, I haven't forgotten about Rhode Island. I'll keep pounding the brass in the early hours in the hope of getting a response from the Ocean State.

Take care and stay safe everyone,

73,

John Perry, KD2NDY

Some DX Opportunities

In alphanumeric order of Callsign

Italics if over 6000 miles

Mode codes: 8 = JT8, 9 = JT9, A = AM, C = CW, D = Digital, E = EME, 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, DXWorld, DXNews & QRZ.com for the data.

START	FINISH	ENTITY	CALLSIGN	IOTA	BANDS	MODES	QSL via	LOC	Miles	Dir	Info by
Feb 24	Mar 02	Monaco	3A/F4FRL		40-20m	S D	LoTW	JN33qr	4036	ENE	OPDX
Feb 24	Mar 02	Monaco	3A/F5RBB		40-20m	S D	LoTW	JN33qr	4036	ENE	OPDX
Feb xx	Mar 21	<i>Viet Nam</i>	<i>3W9FAR</i>		<i>80-10m</i>	<i>S D</i>	<i>SP5FAR</i>	<i>OK46ca</i>	<i>8570</i>	<i>N</i>	<i>ARLD006</i>
		Georgia	4L1PJ		80-10m	S	N4GNR	LN02vp	5274	NE	ARLD001
	Apr 30	<i>Japan</i>	<i>8N0J</i>				<i>bureau</i>	<i>PM97cd</i>	<i>6729</i>	<i>NNW</i>	<i>ARLD005</i>
Jan 01	Mar 31	<i>Japan</i>	<i>8N1IZA</i>				<i>QRZ</i>	<i>PM95st</i>	<i>6782</i>	<i>NNW</i>	<i>ARLD001</i>
Mar 06	Mar 22	<i>Maldives</i>	<i>8Q7CQ</i>	<i>AS-013</i>	<i>80-10m</i>	<i>S D c</i>	<i>OQRS</i>	<i>MJ63oe</i>	<i>8818</i>	<i>NE</i>	<i>DXNews</i>
Jan 01	Sep 01	<i>Angola</i>	<i>D2FJZ</i>		<i>80-10m</i>	<i>S</i>	<i>CT1FJZ</i>	<i>JH87sx</i>	<i>6847</i>	<i>E</i>	<i>ARLD001</i>
Jan 01	Dec 31	Germany	DB100AVUS				DO2PZ	JO62o1	4019	NE	ARLD001
Feb xx	Apr 30	Germany	DC220GERKE		80-10m		DJ6SI	JO40sc	3934	NE	ARLD005
	Mar 15	<i>Antarctica</i>	<i>DP1POL</i>	<i>AN-016</i>	<i>80-10m *</i>	<i>C D *</i>	<i>DL1ZBHO</i>	<i>IB59ui</i>	<i>8307</i>	<i>SSE</i>	<i>ARLD003</i>
	Jan 31	<i>Rep of Korea</i>	<i>DS4DRE/4</i>	<i>AS-060</i>	<i>80-10m</i>	<i>C S</i>	<i>DS4DRE</i>	<i>PM37sm</i>	<i>6912</i>	<i>NNW</i>	<i>ARLD005</i>
Jan 30	Dec 31	England	GB75ISWL	EU-005	80-10m	most	bureau	JO01pu	3556	NE	ARLD004
Jan 01	Dec 31	Poland	HF100LEM				SP9PKZ	JO90xb	4344	NE	ARLD004
Feb xx	Jan xx	<i>Antarctica</i>	<i>JG3PLH</i>	<i>AN-015</i>			<i>bureau</i>	<i>KC90sx</i>	<i>9352</i>	<i>SSE</i>	<i>GB2RS</i>
Mar 10	Mar 31	<i>Minami Torishi</i>	<i>JG8NQJ/JD1</i>	<i>OC-073</i>			<i>JA8CJY</i>	<i>QL64xh</i>	<i>7024</i>	<i>NW</i>	<i>TDDX</i>
	Jun 01	Svalbard	JW/LB2PG	EU-027	80-20m	S	LB2PG	JQ94mm	3637	NNE	ARLD002
Feb 15	May 15	<i>Wake Island</i>	<i>KH9/NL7RR</i>	<i>OC-053</i>	<i>40, 20m</i>	<i>S</i>	<i>AL7JX</i>	<i>RK39hh</i>	<i>6777</i>	<i>WNW</i>	<i>ARLD006</i>
Jan xx	Dec 31	Argentina	L21RCA				bureau	GF06ta	5211	SSE	ARLD004
	Dec 31	Bulgaria	LZ190FT				LZ2VP	KN12pq	4757	NE	ARLD003
Feb xx	Mar 31	Scotland	MM0MOL/p	EU-012	80-10m	QRP	M0MOL	IO75ut	3266	NE	ARLD005
Jan 01	Dec 31	Finland	OH100SRAL				bureau	KP34aa	4068	NNE	ARLD005
Feb xx	Mar 31	Denmark	OV0JUTLANDIA		80-10m	C S D	LoTW	JO65hq	3896	NE	ARLD005
	Mar 10	Netherlands	PC19HOPE				PA7HPH	JO22kj	3687	NE	ARLD002
Mar 04	Mar 23	Curacao	PJ2/DK5ON				LoTW	FK52jf	1942	S	DK5ON
Feb 27	Mar 27	Sint Maarten	PJ7AA	NA-105	80-10m	C S 8	LoTW	FK881b	1655	SSE	DXW.Net
	Apr 30	Poland	SQ0MORSE		80-10m		SP1EG	JO72gk	4061	NE	ARLD002
2020	2022	Corsica	TK4VQO	EU-014	160-6m	C S	DL8UW	JN411r	4168	ENE	DXNews
Jan 30	Mar 20	France	TM1CCA		80-10m	C S R D	LoTW	JN18dt	3669	NE	ARLD004
Mar 16	Mar 23	<i>Cocos Keeling</i>	<i>VK9CE</i>	<i>OC-003</i>	<i>80-6m</i>	<i>C S D</i>	<i>LoTW</i>	<i>NH87jt</i>	<i>10448</i>	<i>NNE</i>	<i>DXW.net</i>
Jan 01	Dec 31	Serbia	YT165TESLA				YU1MM	KN04gv	4557	NE	ARLD005
Feb 20	Mar 05	Cayman Is	ZF2BJ	NA-016	WARC	C d	K0BJ	EK99sm	1460	SSW	DXNews

March						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 ARES Net 8:30 449.825	4 HCARC ZOOM Mtg 7:00 PM	5	6 ARRL Intl DX contest SSB (2days)
7 (contest continues) arrl.org/arrl-dx	8	9	10 Skywarn 8:00 & ARES 8:30 145.170	11	12	13 North American Sprint, RTTY
14 (contest continues) ncjweb.com	15	16 License Exams 7:00PM contact N2LD@arrl.net for appointment	17 ARES Net 8:30 449.825	18	19	20
21	22	23	24 ARES Net 8:30 145.170	25	26	27
28	29	30	31			