

The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

December 2021

Toms River, NJ

Our President's Message

Well, it's that time of the year again. Time to be thankful, time to visit family and friends, and time to make resolutions. We should be thankful for our health and security. Our gratitude should extend to the leaders of the HCARC for the time and effort they have provided. Specifically, our gratitude goes out to Michael Carson for leading the club for the past year during the duration of the pandemic. Also, our appreciation is extended to Carl Lee who as the Vice President has provided the required support when Michael was unable to attend the monthly meetings due to his work schedule. A major portion of the club's responsibilities were handled by the Treasurer, Larry Puccio and we are thankful for his dedication. Our gratitude goes out to John Perry who continues to keep us all informed of past meetings and loose ends with his duties as the club Secretary. Certainly, we appreciate John Roberts for being the Editor of the Club Newsletter, the Skyhook.

As we enter the new year, let us evaluate our involvement in amateur radio. Are we doing enough to have satisfaction with the hobby? Are we stuck on an area of the hobby that we don't understand? Are we afraid to seek answers to questions about amateur radio? The HCARC is your vehicle to help with these challenges. Our programs will attempt to cover these areas so these hurdles may be overcome. Remember, your experience may be the answer to someone's problem. So become involved. Volunteer to make a presentation at a meeting and you will find enjoyment by sharing your knowledge.

I wish to take this opportunity to wish everyone a Merry Christmas, Happy Chanukah, and best wishes on whatever holiday you celebrate.

-Doug Poray, KC2TZC

Happy Birthday

Eric Schwab K2EDS



No Regular Meeting In December

As in the past few years, our December meeting is replaced by our December Club Luncheon, which will not be at our usual meeting place or time. Reservations are required, and it's now too late to make any.

Our next regular meeting will be the First Thursday of January, weather permitting. We intend to discuss antennas and their lightning protection.

We hope to see you January 6th if not sooner.

Dues Are Due In January

Our Treasurer, Larry Puccio wishes to remind our HCARC members that dues are expected at the January Meeting. Members who cannot attend may submit personal checks by mail to Larry Puccio, 22 Sabinas St, Toms River, NJ 08757. The annual rate is \$25, or \$30 for family membership.

OUR NEXT REGULAR MEETING:
Thursday January 6th at 7:00 PM
Holiday City South Clubhouse A
Santiago Drive at Mule Road
Toms River, NJ

Ocean County ARES® News

December 2021

The next meeting of Ocean County ARES will be a virtual Zoom meeting on Wednesday, December 15th at 7:00 PM. It will be hosted by Ocean County ARES EC, WX2NJ. The invite will be sent out a day or two before the 15th with instructions on how to attend.

On November 8th, Ocean County experienced an Internet outage on the Comcast network (Xfinity). The outage lasted for several hours. In some areas it was out completely and in others it was sporadic. The actual cause has not yet been revealed by Comcast and most likely never will (In my opinion).

The outage was actually two events with the first starting on the west coast the night of November 7th and the second on the morning of the 8th on the east coast. Experts have theorized that the outage was not due to an "attack of service" by virtue of the way the event occurred.

I would like to concentrate on how the outage affected amateur radio communications and not on how and why it happened.

One of the most obvious effects, if you were out and about, was that any establishment that involved payment by credit cards, was in disarray. This included gas stations, food markets, convenience stores, etc. Offices that depended on computers for appointments were thrown into a black hole.

If you were home and tried to send or receive email, you were out of luck. As far as amateur Radio was concerned, only services with Internet ties were disrupted. I remember multiple Open Spot connection announcements on the SNJ SCERN as services came and went. Finally, if you were trying to use Winlink mail, you had little or no connection to Telnet.

Ocean County ARES was largely unaffected by the outage and still would be if we were activated in an emergency situation. Let me explain.

1. The SNJ SCERN system would not be operational. Ocean County ARES rarely uses this system for

communications. The SCERN has not been included in the last two Simulated Emergency Test for SNJ.

2. Winlink mail would not be sent to servers for distribution. Winlink mail sent via Telnet would fail and not be sent. Any Winlink mail sent to RMS Gateways would not be forwarded to Winlink servers, HOWEVER In the case of Ocean County, RMS Gateway WX2NJ-10 would immediately default to a "post office" type mode with the loss of Internet.

Any Winlink message arriving at the RMS Gateway would be held on the WX2NJ-10 server and would be forwarded to the Winlink system automatically when the Internet connection is restored, ORA Winlink message could be downloaded from the WX2NJ-10 server to the station it was addressed to without involving the Internet.

If Ocean County ARES were activated in an emergency situation, stations with pending messages could be notified via voice repeater that they have Winlink mail waiting on the server. Those stations could then connect to WX2NJ-10 using VARA FM on 145.010 MHz using Winlink Express and retrieve their message(s). Those stations out of range of WX2NJ-10 can use the WA2RES-15 VARA FM Digipeater, which covers all of Ocean County.

What is the hitch? The station must be using a registered copy of VARA FM to access the digipeater and needs to be set up to perform the task. We have had reduced price offers on group buys of VARA to lessen the cost impact. Weekly digital training nets and Winlink Wednesday exercises have sharpened operators skills in performing such a task.

I urge all Ocean County operators to get involved with Winlink Express and VARA. The system is here to stay and is being used by ARES groups around the country. It is quicker and more accurate than Radiograms sent via voice and does not tie up repeaters using FLDIGI and FLMSG.

73 de WX2NJ Bob Murdock,

Ocean County Amateur Radio Emergency Service EC

EZNEC® Antenna Design Software

Roy W. Lewallen, the creator of EZNEC® antenna design software, is retiring, and releasing the professional version of EZNEC®. Those of us who have enjoyed using the limited free sample version will appreciate being able to use the full version when it becomes available free to download from the Internet early in January.

A Plan Goes Awry

by John Perry KD2NDY

Back in 1977 my brother and I purchased some acreage on which to grow Christmas Trees. On larger acreage it is customary to plant seedlings by the thousands. With this volume of planting, a few of the seedlings may not exhibit a normal growth pattern. When this occurs, it may be prudent to transplant these young trees to an area where they can be observed. This was the case when my brother and I noticed two Colorado blue spruce that exhibited an odd growth and were then moved to another location. Planted about thirty feet apart they were left to grow. The problem was, that over time, the trees developed a normal growth pattern and not one that was worth holding for landscape stock. Well, they were planted in an area that enhanced the location so they remained there for about thirty years. Well, one of the spruce, upwind from the second tree developed a needle cast, which, over four years killed the tree. Now the tree planted downwind from the diseased tree did not develop any symptoms and the upwind tree had lost all of its needles.

Each spring there are very rainy and windy days, well, a day like this occurred three years ago at the farm. The rain saturated the ground, the gale wind blew through the dead tree and toppled over the disease free tree. Irony right? Well the dead tree was left standing for three years in order for it to gradually to dry out. The plan was to have the tree topped and carved into a Santa Claus. (You know, lemonade from lemons.) A chain saw carver was hired to do the job and the finished product is now being entered into the New Jersey Farmer Photo Contest .



--John Perry

Holiday City Amateur Radio Club

Toms River, New Jersey

Web Site www.hcarc.us

President	Doug Poray	KC2TZC	732-928-2316
Vice Pres.	Steve Jackson	N2WLH	732-255-7916
Secretary	John Perry	KD2NDY	732-349-2705
Treasurer	Larry Puccio	K2QDY	732-349-2950
Executive Board	(open)		
Executive Board	John Roberts	KQ4WR	732-350-1162
W2HC Trustee	Larry Puccio	K2QDY	732-349-2950

CLUB COMMITTEES

<i>Webmaster:</i>	Steve	N2WLH	N2WLH@yahoo.com
<i>Program Coord:</i>	(open)		
<i>Field Day:</i>	Larry	K2QDY	732-349-2950
<i>VE Sessions:</i>	Larry	K2QDY	732-349-2950
<i>Membership:</i>	Doug	KC2TZC	732-928-2316

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 except December, at 7:00 pm.

Location: Meeting Room #1 in 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 that's nearest the street intersection.

The SKYHOOK is published monthly as the HCARC's official newsletter.

Editor and Publisher:

John Roberts [KQ4WR](#) 7 Lincoln Ct. Whiting, NJ 08759-1505
e-mail KQ4WR@arrl.net 732 350-1162

Russ Young WA2VQV Worked:

DATE	UTC	MODE	BAND	FREQ	CALLSIGN	ENTITY	CONT	GRID	DIST	DIR
10/21/2021	2002Z	CW	15m	21030.1	J5T	GUINEA-BISSAU - AF-020	AF	IK22fa	4086	E
10/24/2021	1830Z	CW	15m	21015	7P8RU	LESOTHO	AF	KG40ak	8146	ESE
10/25/2021	1950Z	CW	20m	14037	7P8RU	LESOTHO	AF	KG40ak	8146	ESE
10/25/2021	2333Z	CW	30m	10109.2	V31XX	BELIZE	NA	EK58uk	1611	SSW
10/26/2021	1607Z	CW	17m	18071.25	TM2N	NOIRMOUTIER, FRANCE EU-064	EU	JN18ue	3764	NE
10/26/2021	1845Z	CW	17m	18080	HD8R	GALAPAGOS IS. - SA-004	SA	EI49kd	2922	SSW
10/26/2021	2040Z	CW	15m	21015	HD8R	GALAPAGOS IS. - SA-004	SA	EI49kd	2922	SSW
10/28/2021	0254Z	CW	30m	10103.9	HD8R	GALAPAGOS IS. - SA-004	SA	EI49kd	2922	SSW
10/28/2021	1910Z	CW	17m	18071.5	7P8RU	LESOTHO	AF	KG40ak	8146	ESE
10/29/2021	1739Z	CW	20m	14020	OM8CW	SLOVAK REPUBLIC	EU	KN09hb	4502	NE
10/29/2021	1937Z	CW	17m	18083	OX7AM	GREENLAND	NA	GP47ta	2172	NNE
10/30/2021	1612Z	CW	12m	24894	HD8R	GALAPAGOS IS. - SA-004	SA	EI49kd	2922	SSW
10/30/2021	1820Z	CW	17m	18068	TZ4AM	MALI	AF	IK52xo	4461	E
10/30/2021	1841Z	CW	17m	18074	TL7M	CENTRAL AFRICAN REPUBLIC	AF	JJ95ds	6167	E
10/31/2021	1324Z	CW	12m	24902	7P8RU	LESOTHO	AF	KG40ak	8146	ESE
11/1/2021	0010Z	CW	30m	10103	TZ4AM	MALI	AF	IK52xo	4461	E
11/1/2021	1338Z	CW	20m	14024	HD8R	GALAPAGOS IS. - SA-004	SA	EI49kd	2922	SSW
11/1/2021	2212Z	CW	10m	28023.9	HD8R	GALAPAGOS IS. - SA-004	SA	EI49kd	2922	SSW
11/2/2021	1434Z	CW	12m	24890.5	FY5KE	FRENCH GUIANA	SA	GJ35qd	2733	SE
11/2/2021	1459Z	CW	12m	24903.1	SX200BOH	GREECE	EU	KM18te	5045	NE
11/3/2021	1900z	CW	17m	18070	S01WS	WESTERN SAHARA	AF	IL46rd	3801	E
11/5/2021	1356Z	CW	17m	18084	RU60ANT	RYAZAN, EUROPEAN RUSSIA	EU	K085ss	4810	NNE

VE News

On Wednesday November 10th the Holiday City ARC Volunteer Examiners held their VE session at the Holiday City South clubhouse at 6:30 PM.

The VEs in attendance were Steve Jackson, Stan Stafiej and Larry Puccio who is also the Liaison member.

We had two candidates, the first was a first year high school student (KD2YDS) and he passed the General class test.

The other candidate, now KD2YHI, took the Technician test and also passed.

Larry Puccio K2QDY

Editor's Note:

When searching the FCC database, you have to use a space for an apostrophe. Name is not case-sensitive.

Ready to upgrade? Call Larry at 7323492316.

A Note From Russ



I always run 75 Watts output on CW, RTTY and SSB.

The OMNI VI Plus rig is capable of 100 Watts but I keep it down to 75 Watts because the MAG loop is in the attic, which is over my "guest" bedroom, which in turn, is over the downstairs neighbor's one-car garage.

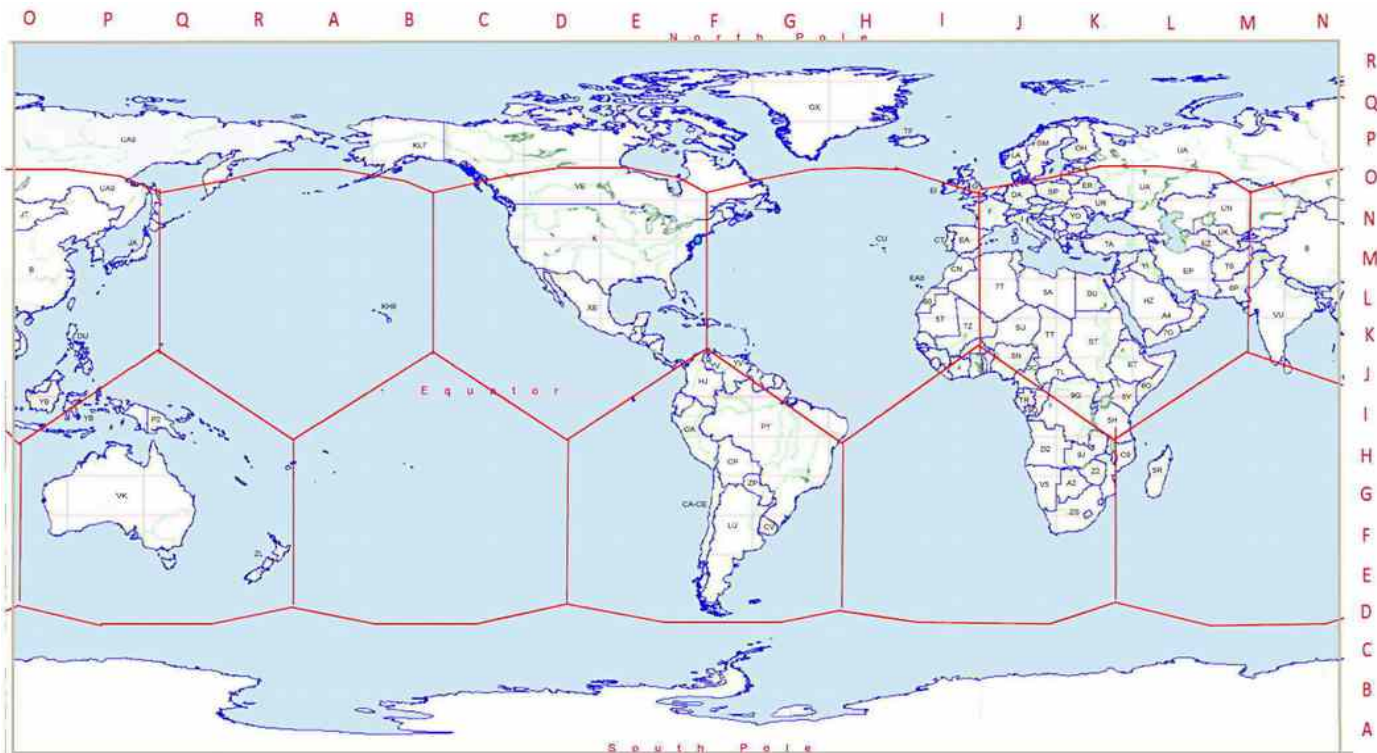
I never know when the neighbor might be in his garage, so I like to be cautious about the RF radiation.

Kevin Wagner W2FA Worked:

Call	QSO_start	Date_Time	RX_freq	Band	Mode	Pwr	QSL_rcvd	DXCC_entity	Loc	Miles	Dir
MI0TIP	2021-10-01	19:52:33	14.18	20m	USB	150		Northern Ireland	I074cr	4031	NE
EA7GX	2021-10-01	20:02:51	14.214	20m	USB	150		Spain	IM76he	4319	ENE
OE120XGM	2021-10-01	20:05:29	14.285	20m	USB	150	eQSL	Austria	JN77nm	5035	NE
OT8M	2021-10-01	20:07:03	14.258	20m	USB	150		Belgium	J020or	4537	NE
PY5QW	2021-10-01	20:49:49	28.52	10m	USB	150	LoTW	Brazil	GG54fo	4301	SSE
IU1NKS	2021-10-01	20:57:32	14.2689	20m	USB	150	LoTW	Italy	JN44dj	4816	NE
EC5K	2021-10-01	21:00:14	21.254	15m	USB	150	eQSL	Spain	IM99ri	4504	ENE
G6AD	2021-10-01	21:02:10	18.16	17m	USB	150	LoTW	England	I092gl	4231	NE
LB7PI	2021-10-08	15:49:41	21.3032	15m	USB	100		Norway	J059jv	4565	NNE
F4ARU	2021-10-08	16:07:49	21.287	15m	USB	100		France	JN03mm	4495	NE
G4VZR	2021-10-08	16:13:53	21.3071	15m	USB	100		England	I081uq	4206	NE
FM4SA	2021-10-08	16:46:33	21.275	15m	USB	100	eQSL	Martinique	FK94lo	1616	SE
TF3T	2021-10-09	19:28:57	14.277	20m	USB	150	LoTW	Iceland	HP93lu	3529	NNE
YT8WW	2021-10-09	19:37:34	14.234	20m	USB	150		Serbia	JN93sx	5334	NE
OZ4EDR	2021-10-09	19:42:29	14.296	20m	USB	150		Denmark	J075ic	4812	NE
HB9CVQ	2021-10-09	19:46:45	18.165	17m	USB	150	LoTW	Switzerland	JN47ei	4747	NE
SK6HD	2021-10-09	19:54:00	14.173	20m	USB	150		Sweden	J068sd	4696	NE
HG5D	2021-10-10	15:53:02	21.08785	15m	RTTY-L	150		Hungary	KN06qr	5322	NE
IZ4NPE	2021-10-20	14:51:48	21.235	15m	USB	50		Italy	JN54tt	4957	NE
HD8R	2021-10-27	18:30:34	21.26	15m	USB	100		Galapagos Is	EI49kd	2172	SSW
N4MUH	2021-10-29	20:23:15	7.07435	40m	FT8	50	LoTW	United States	EM90cf	97	NNW
K5VJZ	2021-10-29	20:26:15	7.07435	40m	FT8	50	LoTW	United States	EM35lg	828	NW
WA4CAS	2021-10-29	20:31:45	7.07435	40m	FT8	50	eQSL	United States	EM92ql	240	N
KC8YDS	2021-10-29	20:33:45	7.07435	40m	FT8	50	LoTW	United States	EN91oe	841	N
AI5II	2021-10-29	22:42:53	7.04843	40m	FT4	50	LoTW	United States	EM72nm	336	NW
WA3YMH	2021-10-29	22:43:38	7.0489	40m	FT4	50	eQSL	United States	FN10af	793	NNE
EA1I0K	2021-10-29	22:44:38	7.04944	40m	FT4	50	LoTW	Spain	IN62fn	4093	NE
M3AWD	2021-10-29	22:46:08	7.04957	40m	FT4	50	LoTW	England	I091ms	4261	NE
W8JES	2021-10-29	22:49:23	7.0485	40m	FT4	50	eQSL	United States	EN81eb	846	N
IK5BCM	2021-10-29	22:51:53	7.04915	40m	FT4	50	eQSL	Italy	JN53nu	4960	NE
AC4UK	2021-10-30	13:46:15	7.0755	40m	FT8	50	LoTW	United States	FM18iq	700	NNE
P40W	2021-10-30	14:59:32	21.444	15m	USB	100	LoTW	Aruba	FK52bk	1350	SE
G9W	2021-10-30	15:00:41	21.3369	15m	USB	100		England	J001as	4303	NE
OR3A	2021-10-30	15:04:10	21.332	15m	USB	100	LoTW	Belgium	J020lw	4523	NE
SP9KAO	2021-10-30	15:24:12	14.2771	20m	USB	100		Poland	K000la	5198	NE
S50K	2021-10-30	15:30:33	21.424	15m	USB	100		Slovenia	JN75cw	5041	NE
UT4U	2021-10-30	15:46:59	14.3495	20m	USB	100		Ukraine	K050dq	5527	NE
W4DOC	2021-10-30	15:56:53	7.2437	40m	LSB	100		United States	EM73tw	395	NNW
PJ2T	2021-10-30	17:20:08	21.308	15m	USB	50	LoTW	Curacao	FK52kg	1386	SE
EA2W	2021-10-30	17:20:41	21.341	15m	USB	50	LoTW	Spain	IN83xh	4350	NE
CQ8M	2021-10-30	19:00:57	21.3895	15m	USB	200		Azores	HM68jr	3112	ENE
D4F	2021-10-30	19:04:12	28.466	10m	USB	200		Cape Verde	HK76mu	3630	E
ZM4T	2021-10-30	19:18:23	21.378	15m	USB	200	LoTW	New Zealand	RF80lf	8075	WSW
EA8RM	2021-10-30	19:23:15	21.4051	15m	USB	200	LoTW	Canary Islands	IL28gd	3922	ENE
CQ9T	2021-10-30	20:11:08	21.436	15m	USB	200	LoTW	Madeira Islands	IM12ju	3732	ENE
ZW8T	2021-10-30	20:20:42	21.2207	15m	USB	200		Brazil	GI84or	3471	SE
9A9R	2021-10-31	12:12:57	21.3164	15m	USB	200		Croatia	JN85oq	5179	NE
LY7Z	2021-10-31	12:18:13	21.2505	15m	USB	200	LoTW	Lithuania	K015kx	5077	NE
UY5ZZ	2021-10-31	12:24:59	14.288	20m	USB	200	LoTW	Ukraine	K050eg	5546	NE
HI3T	2021-10-31	12:45:54	14.234	20m	USB	200		Dominican Rep	FK49tl	937	SE
LZ9W	2021-10-31	13:36:34	21.296	15m	USB	200	LoTW	Bulgaria	KN12kr	5523	NE

Larry Puccio K2QDY Worked:

DATE	TIME	FREQ	MODE	CALL	ENTITY	LOC	MILES	DIR
10/20/21	05:25 PM	14.033	CW	IK4EWX	Italy	JN54pr	4174	NE
10/20/21	09:10 PM	14.033	CW	E78A	Bosnia-Herzegovina	JN83sx	4467	NE
10/20/21	11:26 PM	10.109	CW	CT9ABV	Madeira Is. AF-014	IM12mr	3174	E
10/23/21	02:12 AM	7.009	CW	V31XX	Belize NA-073	EK58uk	1707	SSW
10/23/21	02:16 AM	7.004	CW	LZ1QI	Bulgaria	KN12pr	4755	NE
10/23/21	11:49 PM	7.006	CW	9A3MR	Croatia	JN85et	4352	NE
10/23/21	11:54 PM	7.005	CW	YP0K	Romania	KN34bk	4801	NE
10/28/21	04:29 PM	14.024	CW	HD8R	Galapagos Is.	EI59gc	2983	SSW
10/31/21	06:51 PM	14.025	CW	HB9HBY	Switzerland	JN36hm	3917	NE
11/02/21	11:02 PM	14.015	CW	XE2I	Mexico	DL44ud	2356	WSW
11/16/21	11:40 PM	7.008	CW	S57V	Slovenia	JN76	4300	NE
11/16/21	11:45 PM	7.010	CW	EA2BV	Spain	IN92eb	3672	ENE
11/18/21	04:00 PM	14.015	CW	OK2PVF	Czech Republic	JN99gu	4298	NE
11/18/21	04:23 PM	14.020	CW	PA1FP	Netherlands	JO22mp	3688	NE
11/18/21	06:01 PM	14.025	CW	EA1DAV/8	Canary Is. AF-004	IL18	3340	E
11/18/21	11:37 PM	7.005	CW	S57V	Slovenia	JN76	4300	NE
11/19/21	09:21 PM	7.018	CW	9A3SMS	Croatia	JN92cp	4544	NE
11/20/21	04:06 PM	14.005	CW	OQ5M	Belgium	JO20ar	3694	NE
11/20/21	04:10 PM	14.002	CW	OZ1AA	Denmark	JO65fu	3885	NE
11/20/21	04:26 PM	14.022	CW	EA4FL	Spain	IN80dj	3620	ENE
11/20/21	04:45 PM	14.001	CW	OY9JD	Faroe Is. EU-018	IP62oa	3122	NE
11/20/21	04:57 PM	14.004	CW	IK2CAW	Italy	JN62ks	4309	NE
11/20/21	05:19 PM	14.021	CW	DK9IP	Germany, Fed Rep of	JN48fx	3923	NE
11/20/21	06:01 PM	14.020	CW	IK1PMR	Italy	JN45fd	4037	NE
11/20/21	06:07 PM	14.028	CW	DL5AXX	Germany, Fed Rep of	JO40jp	3889	NE
11/20/21	06:11 PM	14.038	CW	MD0CCE	Isle of Man EU-116	IO74ti	3284	NE
11/20/21	11:13 PM	7.012	CW	EA3KD	Spain	IN80	3600	ENE
11/20/21	11:15 PM	7.011	CW	VE1RSM	Canada	FN75vb	621	NE
11/20/21	11:20 PM	7.010	CW	S52AW	Slovenia	JN75ru	4312	NE
11/20/21	11:24 PM	7.015	CW	VE9HF	Canada	FN65mu	549	NE



Some DX Opportunities

In alphanumeric order of Callsign

Mode codes: 8 = FT8, 9 = JT9, A = AM, C = CW, D = Digital, E = EME, R = RTTY, S = SSB, T = SSTV.

Bands: "Low" usually means 160, 80 & 40m. HF means 3 to 30 MHz (includes 80 to 10 meters).

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

FINISH	ENTITY	PFX	CALLSIGN	TOTA	BANDS	MODES	QSL via	LOC	Miles	Dir	INFO
230101	Guinea	3X	3X2021		160-6m		ClubLog F1TMY	IJ39ea	4274	ESE	ARLD034
220125	Bouvet I	3Y0	3Y0I	AN-002	160-6m	C S 4 8 R	3Z9DX team	JD15rn	7972	SE	DXW.Net
211231	Georgia	4L	4L1PJ		80-10m	S	N4GNR	LN04vp	5376	NE	ARLD001
211203	Tanzania	5H	5H3WX	AF-032	80-10m	C S	HA3JB	KI73PM	7542	E	ARLD045
211216	Kenya	5Z	5Z4/HB9DSP		20-10m	S 8	LoTW / HB9DSP	LI06bs	7646	ENE	TDDX
220331	Japan	JA	8J100CB	AS-007			bureau	QM05bo	6781	NNW	ARLD014
211231	Antarctica	—	8J1RL	AN-015			bureau	KC90sx	9352	SSE	ARLD004
211231	Japan	JA	8J2SUSON	AS-007			bureau	PM86tf	6800	NNW	ARLD030
220430	Japan	JA	8N0J	AS-007			bureau	PM97cd	6729	NNW	ARLD005
221231	Japan	JA	8N1MORSE	AS-007		C	bureau	PM86tf	6794	NNW	ARLD016
220630	Japan	JA	8N1TAMA		160-.07m	C S F	bureau	PM95rp	6794	NNW	ARLD042
211231	Croatia	9A	9A10FF				9A2MF	JN85et	4355	NE	ARLD007
220701	Croatia	9A	9A302AA				9A2AA	JN85et	4352	NE	ARLD040
220315	Zambia	9J	9J2BG		20m		HB9EUW	KI40iq	7322	E	ARLD010
211201	Rwanda	9X	9X4X		160-10m	C S R 8	4Z5FI	KI47ts	4054	E	ARLD032
211201	Rwanda	9X	9X4X		160-10m	C S R 8	4Z5FI or OQRS	KI48xe	7053	E	ARLD041
211214	India	VU	AU2JCB		80-10m	S	VU2DSI	MK79ia	7902	NNE	ARLD046
211214	India	VU	AU2JCB		10-6m	F	VU2DSI	MK79ia	7902	NNE	ARLD046
211231	Taiwan	BV	BX30ARL	AS-020	40-6m		BM2JCC	PL05rb	7836	NNW	ARLD031
211202	The Gambia	C5	C56XA		40-10m	C	LoTW or G3SWH	IK13uj	3941	E	ARLD041
211207	Bahamas	C6	C6AQQ	NA-001	80-10m	C	EA5GL	FL15hb	1045	S	ARLD046
211231	Uruguay	CX	CW60ATS					GF16wv	5183	SSE	ARLD026
211201	Angola	D2	D2UY		20-10m	C	per op instr	JH87sx	6847	E	ARLD038
211231	Germany	DA	D8100AVUS				D02PZ	J062rk	6019	NE	ARLD001
211231	Germany	DA	DL65ESSEN				bureau	J0311j	3798	NE	ARLD018
211231	Germany	DA	DP70BAC				DH10K	JN48rw	3965	NE	ARLD039
211231	Germany	DA	DR00EBIS		80-10m	C S R D	bureau	J0521k	3924	NE	ARLD042
220131	Rep of Korea	HL	DS4DRE/4	AS-060	80-10m	C S	DS4DRE	PM34ig	7114	NNW	ARLD005
211231	S. Shetland Is	—	DT8A	AN-010	80-10m	C S 8	DS5TOS	GC07os	7117	S	ARLD046
211231	Ukraine	EM30	EM30UARL				UX7UU	KN59rb	4809	NE	ARLD034
211231	Ukraine	EM	EM60KTS				IK2DUW	KN59rb	4810	NE	ARLD026
211231	England	G	GB75ISWL	EU-005	80-10m	most	bureau	J001pu	3560	NE	ARLD004
211231	Hungary	HA	HA60ANT				HA6LT	JN97uu	4415	NE	DXNews
211231	Poland	SP	HF100LEM				SP9PKZ	J090xb	4347	NE	ARLD004
240501	Haiti	HH	HH2JA	NA-096	80-6m	C S 8	LoTW	FK38um	1487	S	ARLD021
211214	Dominican Repub	HI2	HI2/DL2SBY	NA-122	80-10m	C 8 s	DL2SBY	FK48nu	1473	S	TDDX
211214	Dominican Repub	HI7	HI7/DL2SBY	NA-096	80-10m	C 8 s	DL2SBY	FK38um	1487	S	TDDX
211231	Dominican Repub	HI	HI95RCD	?NA-096	160m-UHF	C S F 8	RW6HS	FK58ak	1509	S	ARLD029
220531	Columbia	HK	HK3JCL		20m	S	DK8LRF	FJ35aa	2415	S	ARLD035
211231	Honduras	HR	HR5/F2JD					EK54ju	1957	SSW	F2JD
220405	Honduras	HR5	HR5/F2JD		80-10m	C S D	F6AJA (B/d)	EK54kt	1957	SSW	TDDX
211231	Italy	I	II0LXXV				bureau	JN62ks	4311	NE	ARLD026
211231	Italy	I	II60ANT				I1HYW	JN34tt	4011	NE	ARLD039
211215	Minami Torishima	JD1	JG8NQJ/JD1	OC-073				QL07mm	7256	NNW	ARLD036
211231	Argentina	LU	L21RCA				LU4AA	FF75qq	5170	S	ARLD042
211231	Bulgaria	LZ	LZ190FT					KN22dg	4801	NE	ARLD003
211231	Peru	OA	OC4B		40-15m	S 8	LoTW	FH19na	3525	S	ARLD023
211231	Peru	OA	OC6B		40-15m	S 8	LoTW	FH19na	3525	S	ARLD023
211231	Peru	OA	OC7B		40-15m	S 8	LoTW	FH19na	3525	S	ARLD023
211231	Austria	OE	OE60ANT				OE3DMA	JN78tp	4223	NE	ARLD039
220301	Finland	OH	OF60RR				OH8DR	KP20np	4156	NE	ARLD010
211231	Finland	OH	OH100SRAL					KP20np	4156	NE	ARLD005
211231	Czech Republic	OL	OL75KCR				ClubLog	JN79vw	4130	NE	ARLD013
211231	Belgium	ON	ON75AF				opr instr	J0201w	3726	NE	ARLD042
211231	Belgium	ON	ON75BAF				opr instr	J020os	3741	NE	ARLD042
211231	Belgium	ON	ON75BFS				opr instr	J020os	3741	NE	ARLD042
211231	Belgium	ON	OR40NOL					J021pf	3736	NE	ARLD018
211231	Belgium	ON	OR95B				OR4K	J020ar	3694	NE	ARLD045
211231	Netherlands	PA	PA7VACCIN				PA7HPH	J022xh	3732	NE	ARLD045
211222	Bangladesh	S2	S21DX	AS-140	40-10m	S	LoTW / EB7DX	NL44nj	7868	NNE	DXW.Net
211231	Slovenia	S50	S5030DX				LoTW	JN76hc	4269	NE	ARLD035
220205	Poland	SP	SN0ZOSP				SP90DM	K002mg	4310	NE	ARLD009
220205	Poland	SP	SN100ZOSP				SP9PJ	K002mg	4310	NE	ARLD009
220201	Poland	SP	SO39SYBIR		80-10m	C S D	SP4PZM	K013od	4354	NE	ARLD038
211210	Dodecanese	SV5	SV5/G2JL	EU-001	"all"	"all"	G2JL	KM37ih	5126	NE	ARLD032
211231	Crete	SV9	SX200CJO	EU-015			Per Opr Instr	KM25fi	5110	ENE	ARLD039
211231	Greece	SV	SZ200P				LoTW	KM18te	4958	NE	ARLD016
211210	St. Martin	T09	T09W	NA-105	160-40m	C s 8 D	W9ILY	FK881c	1652	SSE	TDDX
211208	Mali	TZ	TZ1CE		160-6m	C s 8	DK1CE	IK87nv	4460	E	ARLD046
220301	Namibia	V5	V51WH		80-10m		DK2WH	JG88ap	7171	ESE	ARLD045
211231	Australia	VK	VI50SG				bureau	QF56na	9922	W	ARLD019
220131	Antarctica	—	VP8/SQ15GB		40m	S	EB7DX	HB74fk	8277	SSE	ARLD046
211218	India	V	VU2ABE		40-10m		LoTW / AB1F	NL55wn	7827	NNE	425DXN
211220	Burkina Faso	XT	XT2AW		160-6m	8 C S	LoTW / M00XO	IK92fi	4763	E	TDDX
211231	Serbia	YT	YT165TESLA				YU1MM	KN04gv	4557	NE	ARLD005
211230	Serbia	YU	YU2022NS				YU7BPQ	JN95wg	4516	NE	ARLD041
211231	Venezuela	YV	YW200BC		80-10m	C S D	YV4KW	FK60ad	2096	SSE	ARLD019
211231	Cyprus UK Base	ZC4	ZC4GR	AS-004	80-10m	S D	EB7DX	KM641n	5514	NE	ARLD037
211231	Ascension I	ZD8	ZD8HZ	AF-003			TA1HZ	II22tb	5048	ESE	ARLD012

December						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 HCARC LUNCHEON (reservation required)	3	4
5	6	7	8 VE Session (?)	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24 Christmas Eve	25 Merry Christmas
26	27	28	29	30	31 New years Eve	

A Special Thank You

The editor wishes to thank Doug Poray, Larry Puccio, Bob Murdock, John Perry, Russ Young, and Kevin Wagner for contributing articles for this issue.

Merry Christmas To All

Hanukkah starts earlier this year, running from sundown on November 28 until sundown December 6, so have a Happy Hanukkah.

And I wish you all a **Very Merry Christmas**.

73,

John Roberts KQ4WR