President's Corner For May 2021

Happy Spring, everyone! The trees are budding, the birds are singing, and the antennas are sprouting! Well, that last one is more of a hope, but this is a great time to begin to get antenna projects outdoors and operating.

As I was unable to be present for the April meeting, I would like to thank Larry for stepping in and running the show, and Carl Lee for his presentation on Propagation.

At this time, we have no new news on easing of Covid restrictions. We're still hosting our monthly meetings on Zoom, and other in-person activities are suspended.

On air activities, however, are in full swing. This online calendar shows a startling number of contests and similar goings-on

https://www.contestcalendar.com/perpetualcal.php
Not all of them will be to anyone's taste, of course, but there should be something in here for most anyone.

73,

Michael Carson KC2OQF

FCC Radiation Rules Effective May 1

Please check out

http://www.arrl.org/the-fcc-s-new-rf-exposure-regulations

May 1 is the deadline for compliance, so be sure your station stays legal. These are the same limits, but now proper documentation is required.

Hamfests

There are some upcoming, in person, hamfests and swap meets. Risk decisions are personal, and I can't say if this is a good idea, but if any members are interested, here are some upcoming events:

Splitrock ARA Tailgate Hamfest, May 15 at Horseshoe Lake Park, 72 Eyland Avenue, Succasunna, NJ 07876, , Talk-in 146.985 PL 131.8, public contact Ed Ruping , W2EJR Phone: 407-766-4711

The Fair Lawn Amateur Radio Club (FLARC) Hamfest, June 5,

http://flarc.net/events/Hamfest_June_2021_.pdf

Terrestrial Amateur Radio Packet Network

by Michael Carson KC2OQF

A friend of mine turned me on to something called TARPN, the Terrestrial Amateur Radio Packet Network (http://tarpn.net/). It's something of a "what's old is new again" idea, in that hams that are interested in digital modes are using Terminal Node Controllers (TNCs) to send serial data over VHF/UHF frequencies, creating multi-hop networks of connected computers to host conversations and other keyboard-to-keyboard communications. If this sounds a lot like old-school packet, that's because it is. However, unlike packet in the 90s, the equipment is far less expensive, and the software is much less fiddly. One "rule" is that the Internet is not used to transport TARPN data. It's real radio-to-radio communication, with no dependence on the Internet.

The project's stated goals are:

● lowest cost per performance

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.

- able to be built by the widest spectrum of hams

- to be as engaging as possible an operating experience

- to enable creative enhancement of the art by as many of the participants as possible

- and to build and expand new and existing TARPNs.

The equipment involved is fairly simple. The computer that runs the TARPN software is a Raspberry Pi, and build instructions are available. Supposedly, pretty much any radio will work, although certain Kenwood

commercial radios seem to be favored, and are going for about $65 on eBay right now. Similarly, pretty much any TNC should work, but the group has also built one specifically for the needs of the project. I've got a pile of the boards and programmed microprocessors arriving in the mail today, and the rest of the parts are available from Digikey. They're all through-hole parts, and it looks simple enough to solder together.

If anyone else is interested, I'd be delighted to work with club members to establish links.

Ocean County ARES® News

by Bob Murdock WX2NJ May 2021

MARS / AMATEUR RADIO 60M INTEROPERABILITY NET - ANNOUNCEMENT

MARS (Military Auxilary Radio System) as a matter of ongoing, normal network operations, will lead scheduled NETS on 60 meter "Channel One" during the first week of each month. To achieve a high level of readiness and competency throughout MARS and cooperating Amateur Radio operators, it is necessary to integrate tasks and operations that support these requirements into routine ongoing operations. This MARS operation establishes ongoing NETS utilized for interoperability and conditions with Amateur radio operators to what they should expect while operating with US military stations.

1. Network Operation: 60 Meter Channel 1: 5,330.5

kHz USB. The prevailing operating mode will be SSB voice. Messages may be sent with voice or data mode.

2. Message Format: ICS-213 by voice or data. Send by voice using line numbers.

3. Data Mode: MIL-STD 188-110A Serial PSK. Synchronous Mode. Plain Text (not-encrypted) with Checksum header set to ALL.

4. M110A DMT Amateur Kit Plain Text Software (for receive only) is available at: https://drive.google.com/drive/folders/1pYDj7kQbm-QAyY4RPtx0dOXKohjaEjq9

Nets will occur at 1200 HRS (Noon) Local Time for local operations. Nets will occur at 2000 HRS Local Time for intermediate to long distance operations.

THE NEXT VE SESSION of Ocean County ARES will be May 18th at 7:00 PM at the Ocean County EOC, Robert J. Miller Airpark. Exams will be administered by appointment only. Contact John, N2LD, Lead VE Examiner for information.

FROM WB2ALJ, SNJ SEC:

Amateur Radio Emergency Service Mutual Assistance Teams

What are Amateur Radio Emergency Service Mutual Assistance Teams (ARESMAT)?

Amateur Radio Emergency Service Mutual Assistance Teams consist of a group of voluntary operators who are willing and able to provide mutual assistance when another team becomes overwhelmed during a disaster.

During a disaster, an ARES group can quickly become overwhelmed. Local ARES members in an affected area may have to be focused on their own personal/family situations, such as protection of property, evacuation of family, or medical issues. Thus, depleting the availability of local operators within the team.

ARESMAT volunteers from other areas who can be spared are requested to provide mutual operating assistance. However, the ARESMAT process requires advanced planning, coordination, and training to ensure the needs of the local team being supported are achieved.

Why establishing ARESMAT within the Section and Mid-Atlantic Region?

The idea for ARESMAT team establishment has been created by past disaster events. The most recent examples have been Hurricane Michael's impact to Southern Florida and Hurricane Maria that left the devastation of Puerto Rico. During these events, local teams as well as their entire Section were overwhelmed. There were not enough operators, and they lacked specific operating skills, and in some situations lacked equipment. ARESMAT for Hurricane Michael was coordinated by other adjacent Sections, plus the ARRL sent "Ham Aid Go-Kits". The Maria mutual assistance effect was more extensive and longer to implement, since the adjacent Section of US Virgin Islands was also overwhelmed.

Some leaders of the emergency communication teams have some misconceptions of mutual assistance:

They believe mutual assistance only requires providing operators or equipment.

Unfortunately, operators who assist others may need different skills and operating protocols.

Additionally, equipment needs, and operating frequencies may be different even within a Section.

There is little or no planning and coordination that permits mutual assistance teams to access disaster areas and specific operating locations.

They believe ARESMAT will disrupt local team's positive relations with served agencies.

ARESMAT teams report directly to the receiving ARES team Emergency Coordinator, who is responsible for their assignments and leadership throughout the event.

The Section ARESMAT leader's primary focus is on the recruiting, training, coordination, and the deployment of the team.

The Section ARESMAT team's first priority would be to

support overwhelmed County ARES teams within their Section. If an adjacent Mid-Atlantic Section became overwhelmed while your Section was not, then voluntary mutual assistance could be provided to the Section in need.

However, all applications of mutual assistance require advanced planning, coordination, and training to ensure the needs of the local team being supported are met.

Where would Section ARESMAT members be recruited?

ARESMAT volunteers would be recruited from various teams, they would be prepared through training to

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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	KC2OQF	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..

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

local teams. While their priority is to their County assist others when the local team needs permit. Caution would be utilized to limit volunteers from a local team to ensure availability of enough local operators.

How would ARESMAT benefit the County Teams?

The County team providing a Section ARESMAT member would benefit from some of their members being trained in skills that could form a County Rapid Response group. The local Rapid Response group could be used to initially establish emergency communications sites during a local emergency event.

Another benefit will be expanding the local team's understanding on how it can utilize ARESMAT to support them in a disaster.

How could ARESMAT assistance be requested?

ARESMAT and HAM Aid equipment assistance can be requested by local Emergency Coordinators simply by contacting the Section Emergency Coordinator or Section Manager.

The Mid-Atlantic ARESMAT working group has established inter-section leadership contact lists for requesting assistance. The Mid-Atlantic ARESMAT working group plans to expand participating Sections/Counties database with;

1) operating frequencies,

2) skills & special training needs,

3) deployment checklist/procedure, receiving team's checklist/procedure, and a repository of other resources to support the sharing of mutual assistance resources.

Who leads ARESMAT when assisting your local teams?

The local Emergency Coordinator will oversee any ARESMAT assigned. Local ECs are the best to lead since they know the territory, server providers, and needs.

Summary

The ARESMAT process is planning and preparation for a situation that hopefully never happens. However, past events have demonstrated that our Section and Mid-Atlantic region has a responsibility to prepare for providing and receiving mutual assistance. This ARESMAT preparation process cannot be accomplished without support from all.

SNJ ARES members interested in participating on the SNJ ARESMAT should contact Tim, NJ2N.

73 de WX2NJ

Bob Murdock

Ocean County Amateur Radio Emergency Service® EC

Public Service

by Doug Poray KC2TZC

One of the aspects of amateur radio is the involvement in public service. During times of emergencies and natural disasters, amateur radio operators are available to assist in supplying critical communication support. As stated in Section 97 of the FCC Rules and Regulations, "When normal communication systems are overloaded, damaged or disrupted because a disaster has occurred or is likely to occur…an amateur station may make transmissions necessary to meet essential communication needs and facilitate relief actions". Radio amateurs are employed to help the American Red Cross and other public safety

organizations. Other public service aspects of amateur radio include communication assistance in community activities such as bicycle races and running marathons.

There are specialized amateur radio groups involved in public service. Some of the groups are described below:

ARES (Amateur Radio Emergency Service) and RACES (Radio Amateur Civil Emergency Service).

These services support local and regional government and non-governmental agencies. Any licensed amateur can participate in ARES, which involves being trained and attending periodic meetings and practice drills. RACES, in addition to the above support, extends the public service assistance to civil emergencies.

MARS (Military Auxiliary Radio System).

MARS is a public service program managed by the US Army and the US Air Force. It consists mainly of amateur radio operators who are interested in assisting the military in communication services.

NTS (National Traffic System).

During disasters or other emergencies, radiograms are used to communicate information critical to saving lives or property, or to inquire about the health or welfare of a disaster victim. This service works closely with ARES during these situations. A radiogram is a formal written document, the contents of which are relayed from amateur operator to amateur operator until the destination is reached. At the destination, the information is transcribed to the radiogram form and delivered to the desired party.

SKYWARN (supporting the National Weather Service).

Amateur radio operators coordinate their services and equipment to support the National Weather Service in nationwide, state, local early weather warning, and emergency communication functions. This service is particularly useful with the threat of severe weather conditions such as hurricanes and tornadoes.

These are just a few of the agencies amateur radio operators assist. All the agencies provide training and support for the volunteers. These public service efforts provide the manpower, and the equipment of the amateur radio community when the infrastructure such as telephones, internet, and electrical power facilities are disrupted.

Ham Radio's Windfall - Part 4

by Stan Stafiej KB2PD

Wellington, the capital of New Zealand, is a very hilly city. Stan's (ZL2RK) house was situated on the side of one of the steep ones with a sharp drop off toward the water below. There was nothing remarkable about his radio station; it was a 100 watt transceiver model popular in its time. What was eye-jarring was that his station towered OVER his three-element triband Yagi. Although its physical location denied access to certain parts of the world, it provided a clear, over the water, shot toward the United States, accounting for his always strong signal.

The Dallas' then took us on a home-grown motor tour of the north island. And I do mean home-grown!

One of Stan's relatives was in hospital, and on our trek north we had occasion to visit him; a side venture not normally part of a foreign sightseeing trip, but an opportunity to make comparisons with our own health facilities.

Sheep and its products are a mainstay of the country's economy. So, it was only natural that we spent some time at a sheep auction, witnessing not only the process but the varieties available and the differences

between them; an education in itself.

During our entire ZL trip we met no other Kiwi hams, and driving extensively on both islands we saw no other ham antennas, indicating that the ham population density in New Zealand was a lot lower than in the United States.

At the end of the week we made it to our destination, the Auckland airport, and flew to our next destination, Adelaide in South Australia.

3Y0J Dxpedition To Bouvet Island

press release January/February 2023

As we completed our successful VP8STI-South Sandwich and VP8SGI-South Georgia DXpeditions in 2016, we began to plan for our next Dxpedition. Our target is the Norwegian Island Bouvet. This is the #2FCC License Exams

The Holiday City ARC is going to resume VE testing in May. A letter was sent to Maria Somma at the ARRL indicating the dates, starting in May, the time and location for the remainder of the year. The testing will be done at the Whispering Pines park located here in Holiday City South and all appointments must be made with Larry Puccio mailto:lpuccio071@gmail.com before the test date. A new ruling, the **FCC requires all applicants to have previously obtained an FRN** number from them as no applications will have Social Security numbers recorded. most wanted DXCC entity.

At this time, it gives us great pleasure to announce that we have joined forces with Intrepid Norwegian DXpeditioner Ken Opskar-LA7GIA in our quest to activate Bouvet.

Together, in January 2023, 14 men will board the Braveheart in Capetown and make the treacherous voyage to Bouvet. We will plan to spend twenty days at Bouvet and weather permitting, we plan to have 14 to 16 good days of radio activity.

This will be an arduous and expensive mission. Our budget is $764,000 USD and the 3Y0J team will fund much of this mission. We desperately need the global DX Community to support our mission and help us make this important activation of the #2 most wanted DXCC entity. It is only through this kind of support that

we can achieve our mission of making 100,000 contacts or more from Bouvet.

We plan to make best use of Propagation and Modes on 10-160 meters.

We pledge to assemble the strongest team possible and to use good operating practices to optimize your ability to reach our stations. We are confident that the Braveheart crew can get us there and back safely.

In closing, we especially wish to recognize and thank the Northern California DX Foundation and the International DX Association as our premier donors. Without the support of the NCDXF and INDEXA, operations to the world's rarest entities would not be possible.

You can follow our plans from our website and the 3Y0J Facebook pages:

http://www.3y0j.com/

https://www.facebook.com/groups/901378553769436

Thank you,

Paul Ewing-N6PSE Co-Leader

Kenneth Opskar-LA7GIA Co-Leader

Printing 8 Pages On 2 Sheets

Printing all 8 pages of SKYHOOK on two regular size sheets of paper is easy enough when you know how.

"Open" the issue of SKYHOOK. Select "File" (at top of screen), select "Print...", then select "1" at "Copies", "All" at "Pages to Print", "Booklet" at "Page Sizing and Handling", "Back Side Only" at "Booklet Subset", "1" at "Sheets from", and "2" at "to"; "Left" at "Binding", and "Portrait" at "Orientation". Then press "Print". That should print Pages 2 and 7 on one sheet, and 4 and 5 on the next.
Without rotating it, put the sheet that has pages 4 and 5 on it (Sheet 2), back in the paper feed tray.
Go back to the Print setup, and select "Booklet" again, and "Front Side Only" at "Booklet Subset", and "2" at "Sheets from",and "2" at "to". Now press "Print". That should successfully print pages 6 and 3 on the other (front) side of Sheet 2.
Now to print pages 8 and 1 on the front side of sheet 1, put sheet 1 (pages 2 and 7) back in the paper feed tray as you did with sheet 2, and repeat what you did to get sheet 2, except select "1" at "Sheets from" and "1" at "Sheets to". Press "Print".
That should get you all 8 pages printed on the 2 sheets, ready to fold to make into a booklet.

FCC License Exams

The Holiday City ARC is going to resume VE testing in May. A letter was sent to Maria Somma at the ARRL indicating the dates, starting in May, the time and location for the remainder of the year. The testing will be done at the Whispering Pines park located here in Holiday City South and all appointments must be made with Larry Puccio mailto:lpuccio071@gmail.com before the test date. A new ruling, the **FCC requires all applicants to have previously obtained an FRN** number from them as no applications will have Social Security numbers recorded.

Happy Birthday To:

Anthony Manus KD2RBZ

My Parks On The Air Activity

by Michael Carson KC2OQF

On 24 March, the South Jersey Radio Association hosted a webinar on Parks On The Air (POTA). It seemed like an interesting idea, and I signed up right away. On 3 April, I brought the HAE FT8 station out to Allaire State Park (K-1607) and worked for about two hours, making 17 contacts including both DX and US stations. It was a successful test and a fun way to while away a couple hours.

[See Next Page]

Larry Puccio K2QDY Worked:

DATE	TIME	FREQ	MODE	CALL	ENTITY	MILES	DIR
03/06/21	11:24 PM	14.186	SSB	LW5HR	Argentina	4966	S
03/07/21	04:50 PM	14.299	SSB	IO5O	Italy	4300	ENE
03/07/21	04:51 PM	14.329	SSB	OK7K	Czech Rep	4100	NE
03/07/21	04:59 PM	14.231	SSB	OK5Z	Czech Rep	4100	NE
03/07/21	05:53 PM	14.247	SSB	I5MXX	Italy	4300	ENE
03/07/21	05:55 PM	14.252	SSB	IK0ETA	Italy	4300	ENE
03/07/21	05:59 PM	14.216	SSB	Z35T	Macedonia	4500	NE
03/07/21	06:01 PM	14.342	SSB	IB8A	Italy	4300	ENE
03/07/21	06:04 PM	14.246	SSB	S57C	Slovenia	4300	NE
03/07/21	06:05 PM	14.247	SSB	EA5DFV	Spain	3600	ENE
03/07/21	06:12 PM	14.219	SSB	DJ5AN	Germany	3800	NE
03/07/21	06:18 PM	14.228	SSB	DQ2C	Germany	3800	NE
03/07/21	07:18 PM	14.232	SSB	LZ9W	Bulgaria	4800	NE
03/07/21	07:39 PM	14.322	SSB	ZF1A	Cayman Is.	1500	SSW
03/07/21	10:08 PM	14.228	SSB	ZW2W	Brazil	4714	SSE
03/09/21	10:53 PM	7.004	CW	LZ1QI	Bulgaria	4800	NE
03/09/21	11:39 PM	7.002	CW	9G5FI	Ghana	5100	E
03/09/21	11:46 PM	7.012	CW	DK7GH	Germany	3800	NE
03/11/21	10:15 PM	7.012	CW	LZ1QI	Bulgaria	4800	NE
03/11/21	10:21 PM	7.003	CW	S57V	Slovenia	4300	NE
03/11/21	10:26 PM	7.026	CW	IQ2XZ	Italy	4300	ENE
03/11/21	10:34 PM	7.010	CW	YU7QF	Serbia	4600	NE
03/17/21	12:28 AM	7.003	CW	TF4M	Iceland	2650	NNE
03/20/21	05:50 PM	14.033	CW	YT3X	Serbia	4600	NE
03/22/21	09:33 PM	14.011	CW	MM0ZBH	Scotland	3300	NE
03/28/21	04:17 PM	21.258	SSB	ZW8T	Brazil	3713	SE
03/28/21	04:24 PM	14.307	SSB	SQ2A	Poland	4300	NE
04/03/21	10:50 PM	14.005	CW	HC1MD	Ecuador	2800	S
04/03/21	11:14 PM	7.008	CW	SN7Q	Poland	4300	NE
04/03/21	11:17 PM	7.014	CW	SP9HE	Poland	4300	NE
04/03/21	11:19 PM	7.024	CW	SN9J	Poland	4300	NE

Michael Carson KC2OQF Worked:

Call	Country	Distance Miles	Freq. MHz	Grid	Mode	Date UTC	Time
YO9HP	Romania	4765	14.0756	KN35	FT8	20210403	1427
MI0NWA	Northern Ireland	3193	14.0756	IO64	FT8	20210403	1449
UR7CT	Ukraine	4804	14.0756	KN69	FT8	20210403	1457
DM2DXA	Germany	3958	14.0756	JO64	FT8	20210403	1509
KO4O	United States	803	14.0756	EM64	FT8	20210403	1535
KA0BOJ	United States	1168	14.0756	EN10	FT8	20210403	1542
WZ9B	United States	759	14.0756	EM58	FT8	20210403	1544
K9EXY	United States	738	14.0756	EM68	FT8	20210403	1546
KO4CAA	United States	633	14.0756	EM83	FT8	20210403	1551
HI8ILO	Dominican Rep	1512	14.0756	FK48	FT8	20210403	1556
9A6NDZ	Croatia	4358	14.0756	JN85	FT8	20210403	1604
KO4FHS	United States	1050	14.0756	EL96	FT8	20210403	1610
AA5HH	United States	1306	14.0756	EM21	FT8	20210403	1612
KN4WOW	United States	893	14.0756	EM70	FT8	20210403	1614
IZ5DKI	Italy	4299	14.0756	JN53	FT8	20210403	1619
S55HS	Slovenia	4295	14.0756	JN76	FT8	20210403	1624

May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Indiana, Delaware, New England, 7th area QSO Parties
2 Indiana, Delaware, New England, 7th area QSO Parties	**3**	**4**	**5** ARES Net 8:30pm 449.825,-,131.8	**6**	**7**	**8** Arkansas QSO Party
9 Arkansas QSO Party	**10** 4-States QRP Sprint	**11** License Exams by appoint. Larry, lpuccio071@gmail.com	**12** ARES Net 8:30pm 145.170,-,131.8	**13**	**14**	**15**
16	**17**	**18** License Exams 7PM by appoint., call John N2LD@arrl.net	**19** ARES Net 8:30pm 449.825,-,131.8	**20**	**21**	**22**
23	**24**	**25**	**26** ARES Net 8:30pm 145.170,-,131.8	**27**	**28**	**29** CQWW WPX CW Contest
30 CQWW WPX CW Contest	**31**					