

THE AERO AERIAL



A Salute to General Georgesnn KB3PGN

The newsletter of the Aero Amateur Radio Club
Middle River, Md
Volume 8 Issue 5
May 2011

Editor Frank Stone AC3P

Officers

Bob Landis	WA3SWA	President
Bob Venanzi	ND3D	Vice-President
Lou Kordek	KB3LJF	Recording Secretary
Pat Stone	AC3F	Corresponding Secretary
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Committees

Repeater	Phil Hock W3VRD
VE Testing	Pat Stone AC3F
Public Service	Bob Landis WA3SWA
Webmaster	Al Alexander K3ROJ
Trustee	Frank Stone AC3P
Club Nets	Joe Miko WB3FMT

ABOUT THE AERO AMATEUR RADIO CLUB

Meetings: First and Third Wednesdays at 7:30 pm at Coffman's Diner
(Middle River and Orem's Rd.)

Nets: See Local Area Net Schedule

Repeaters: W3PGA (147.24 MHz - / 449.575 MHz -)

WEBSITE: www.aeroarc.us

LOCAL AREA NETS

Day	Time	Frequency (MHz)	NET NAME
Daily	9 – 10 am	147.03	ORIOLE Net
Daily	5:30– 6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	146.670	Baltimore Traffic Net
Daily	7 pm and 10 pm	3.643	Maryland/DC/Delaware Traffic Net
1 st Tues	7:30 pm	145.330	Baltimore ARES Net
2 nd Tues	7:30 pm	146.670	Baltimore County <u>RACES</u> Net
2 nd Wed.	8 pm	28.445	AERO ARC Net
4 th Wed	8 pm	147.240	AERO ARC Net
5 th Wed.	8 pm	449.575	AERO ARC Net

The Aero Quantum Mechanics Net: Anytime any Frequency contact WB3FMT. The last one was on 449.575 MHz on Tuesday 8 pm on March 30th. Who knows where or when the next one may be?

Aero Net Reports

March

10 Meters: AC3P (NCS) WB3FMT W3VRD KA3SNY

2 Meters: WB3FMT (NCS) AC3P W3VRD KA3SNY KB3JDE KB3VAE

70 Cm: WB3FMT(NCS) AC3P KA3SNY KB3VAE KB3JVP

Station Activities

KB3PGN is hitting the study guides in Annapolis. Hard to learn those Colpitts and Hartley circuits with the protesters outside the window. **KB3JVP** made a rare appearance at Coffman's. **AC3F** has a new Vibroplex straight key. **WB3FMT** is learning the ropes on PSK31.

VE Corner *by Pat Stone AC3F*

It was another good showing at the Aero VE test session in White Marsh on Saturday March 19th. Despite the fact that the BARC Hamboree would be held the following weekend, seven candidates appeared for exams; two for upgrades and five to take Element 2 (Technician).

Congratulations to New Techs: Eric Littlefield **KB3VUA**, Bill Gunther **KB3VUB**, Nick Algi **KB3VTZ**, and Travis Galliher **KB3VUA**. Congrats also to General Georgiann Lynch **KB3PGN** and Extra Jim Benjamin **KB3SNC**.

Thanks to Ve's; WB3FMT, K3ROJ, KB3KRV, and AC3P for their help during this session.

Our next test session is May 21st, 1pm at White Marsh.

Election Day is May 18th



Don't get railroaded. Be sure to attend the May 18th meeting at Coffman's to nominate and vote for the slate of AERO ARC officers for the 2011-2012 year. The meeting starts at 7:30 p.m.

Proposed Constitution Change

During the meetings in March and April it was suggested that the Property Manager be updated to reflect actual practice.

Since the club owns no property the function has changed into more of a coordinator for property loaned by members for various club activities.

At the April 6 meeting Frank Stone, AC3P, presented changes to the Club Constitution for voting on at the April 20th meeting. Phil Hock, W3VRD, suggested additional changes which were incorporated in the language.

The final version will be published in next month's *Aerial*.

Prescott Forest Road Rally

October 1-2, 2010

by Georgianne Lynch KB3PGN

This year's event was like last year's, only better. I again joined the volunteers from the Yavapai Amateur Radio Club (YARC) to provide communications for the 23rd Annual Prescott Forest Road Rally. Witty Tom, at the northernmost end of the race stages, was our assigned camp, and Fred, N7PJN, and I, KB3PGN, arrived early on Friday to set up camp and equipment. Since this is a two-day event, and the radio set-up is on the elaborate side, we camp overnight. My rental, a Ford Explorer, provided a warm sleeping area, while Fred had his army cot with sleeping bag.



Equipment was a Kenwood TM-732A radio with external speaker, which I used on simplex to communicate with the comms coordinator for our stage, Patty, KD7VBG. Fred manned the HT's (one main and one back-up) for communication with Net Control. NC was on the Mingus Mountain repeater frequency, in easy HT range. The main antenna was the same as last year, a Hustler co-linear 5/8 wave with a 1/4 wave ground plane, the only difference being a shorter mast, about 8' to the antenna base, as opposed to the 20' mast we used last year. Fred had determined that the extra height was not needed, and he was quite right. We still operated using minimum power of 5 Watts over a distance of about 20 miles as the crow flies, a fact of which Fred is justly proud. Batteries, including the Jeep battery, were kept charged by a 3 amp solar panel.

There were fewer cars entering the race than last year, only 22 cars/trucks and 2 motorcycles, whereas before we had 25 cars and 5 motorcycles. Three cars left the road over the two-day event and had to be towed, but there were no injuries to drivers or navigators.



Car #12 leaves Witty Tom. Race stage Captain and assistant observe the dust.

The race was conducted the same way. How do you improve on perfection? When our station was the end point, we reported cars arriving. When we were the start, we reported them leaving. Comms got a bit involved when a car went off the road. The race people are naturally concerned, first for the driver's and navigator's safety, then for the rest of the racers. Other drivers need to be warned, and the race officials need to know what kind of help to send. With so much information flying back and forth, it helps to keep good notes. For me personally, last year's experience was a good preparation, and just talking on our club repeater was also good experience. So that, when it was crunch time, they tell me I did well in relaying messages and information to the concerned parties. So I'm learning something!

And it wasn't all work –



That's me, target shooting on Saturday morning.

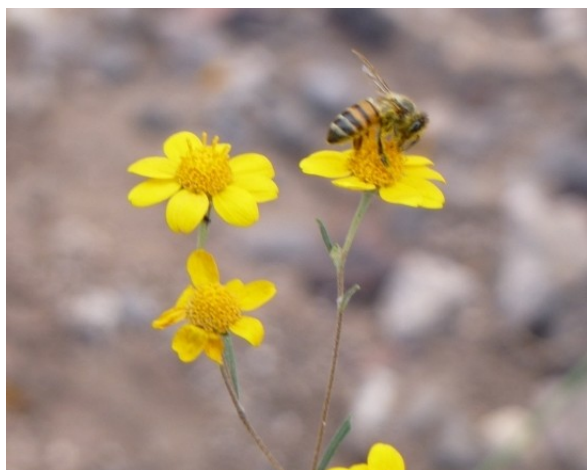
There were more visitors than last year. For example ...



Bovine visitors to a near-by water tank took an interest in the race. They had no regard for their personal safety, however. Some of them insisted on viewing from the roadway. Arizona is a free-range state.



Besides K7DOG, we were assisted by new ham KS7NAK, a Western Rattlesnake. Note the greenish brown color. He wasn't really much help, though. Left early without saying goodbye.



N7BEE was also around, and not much actual help. Yellow flower is called goldfields.

Again, this year's race was a triumph of organization and efficiency on the part of both the Prescott Road Rally officials and the Yavapai Amateur Radio Club. I am proud to have been a small part of it.

Charlie and Emily Celebrate

70th Anniversary *by Al K3ROJ*



Congratulations!

Charlie Cox, K7AQ (ex-W3JVI) is an Honorary member of the AERO Club since he had a part in organizing it way back in the early 40's. Charlie and his wife Emily just celebrated their 70th Anniversary in Glendale, Arizona. Charlie just turned 91 and I talk to him now and then on CQ100 since they live in a condo where antennas are prohibited. Charlie hangs out at around 14.255 MHz on CQ100 USB.

They were married March 22, 1941. Emily was 17 and Charlie was 22.

But they had known each other since childhood.

Charlie Cox said the reason he and his wife, Emily, have been happily married 70 years is "we both grew up together as kids at the same church and school. We went together as young people and gave our lives to Christ." Charlie said he and Emily made the decision they would live by the teachings of the Bible for a lifetime, and that would give them a guide in their conduct and how to make good decisions.

"It's worked out well," Charlie said. "Like all couples, we've had ups and downs, and been privileged to live all over the country; the East Coast, California, Oregon. At all times, we went to church. We both have a ministry of music. I sing and she plays the piano."

The day they were married, they had a difficult time finding a place to stay for just a day in Maryland, where Charlie was working at the time. The next day on a Sunday afternoon, after a little sightseeing around Washington, D.C., they headed to Dover, Del. to tell Emily's folks they had run off and got married.

"Emily's Dad was not very happy with us but soon accepted it," Charlie said. "We had to head back to Maryland as I had to be back to work Monday. After a few visits to Emily's folks, as man and wife and with me doing a lot of needed jobs around the house for Pop, and Emily cleaning the house for Mom, they decided that maybe they didn't lose a daughter after all, but gained a handy son.

Emily's folks were already old as they didn't get married until their late 30s, so I guess its not hard to understand why they were upset when their daughter ran off and got married at 17 years old, but she turned 18 the next day. She aged fast."

Charlie was an electronics tool designer. He worked for the Martin Company (now Lockheed Martin), the company that built the Titan II Missile designed to carry nuclear warheads. He supervised a team of men who designed and built electronic testing tools used to test the functions of the missile. He retired from Lockheed Martin after 30 years.

But he did not just sit around. He has been an amateur radio operator since he was a teen-ager.

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Emily was a stay-at-home mom. She raised two children: Charles Jr. and Charlotte, who lives near her parents. The couple also has six grandchildren and two great-grandchildren. They have resided at Glencroft Community 11 years.

Their son, Charles Jr., said, "My dad goes over to the cafeteria at noon and talks to the people there. Then, he goes up the care facility and sings to those who are ill."

Charlie said he and Emily sing the old gospel hymns.

"So that's worked out real well for us," he said. "We take part in the church here. And, I do some special singing."

Charlie and Emily have nothing special planned.

Charlie said, "We're going to go out to a nice restaurant together the day before. We're going to go out with some friends the day after, the 23rd. I can tell everybody Emily was 17 years old. The next day, I woke up and she was an old lady."

Charlie said, "As I look back over my life, I can testify to you that the most important thing in my life was a consistent personal relationship with Jesus Christ. I am not talking about religion or membership in the organized church, but the true Church, which is the body of Christ made up of all believers, who accept Christ and His Gospel. The Bible is the source of all spiritual and righteous wisdom. If we live by it we are promised divine guidance in our lives. Proverbs chapter 2 and chapter 3 instructs us in these matters".



May 2011

			Meeting Coffman's 7:30 pm			
1	2	3	4	5	6	7
8	9	10	10 Meter Net 28.445 Mhz 8 pm	12	13	Armed Forces/ Amateur Radio Communications Test
15	16	17	Election Day Coffman's 7:30 pm	19	Dayton Hamvention	VE Testing White Marsh 1pm Dayton Hamvention
Dayton Hamvention	23	24	2 Meter Net 147.24 Mhz 8 pm	26	27	28
Md FM Hamfest Howard County Fg www.marylandfm.org	30	31				

From the Skies over Mt. Essex

SKY Events for May 2011

How far is that? Angular Distances

May 3rd - New Moon and Saturn is at opposition.

May 7th – Mercury is 27° west of the Sun.

May 8th – Mercury is 1.4° to the lower left of Venus.

May 10th – First Quarter Moon

May 11th – Jupiter is 0.6° upper left of Venus, Mercury is 2.1° below Jupiter.

May 16th - Full Moon “**Flower**” Native American tribes or “**Milk Moon**” the Colonial Americans.

May 18th – Mercury is 1.3° below Venus, double shadow transit on Jupiter 7:39 UT, 3:39 EDT.

May 21st – Mars is 2.1° to the upper left of Mercury.

May 23rd – Mars is 1.1° to the upper left of Venus.

May 24th - Last Quarter Moon.

May 25th – Double shadow transit on Jupiter 9:33 UT, 5:33 EDT.

May 28th – Double shadow transit on Jupiter 22:30 UT, 18:30 EDT.

Planet Lookout

Mercury, Venus, Mars, and Jupiter are all in the morning sky. Visible in the low eastern sky at dawn. On May 15th all of the above planets will fit in a 9° circle. Note the Moon is 1/2° wide.

Mercury - +0.1 magnitude, angular diameter 7”.

Venus – -3.9 magnitude, angular diameter 11”.

Mars – + 1.3 magnitude, angular diameter 4”.

Jupiter- -2.1 magnitude, angular diameter 34”.

Saturn- +0.6 magnitude, angular diameter 15” disk.

Uranus - +5.9 magnitude, angular diameter 3”

All telescopes have a limit to what they can see. This is based on the objective size (how big the lens or mirror) of the telescope and also the function of light.

The resolution of an object is based on its size in “arc seconds”. When looking at the stars how do you explain that the next object is 10° east of what you are looking at? Instead of using feet we use angular measures such as degrees, minutes and arc seconds. Your hand is an easy measuring tool. Your index finger is 1° wide; 3 middle fingers are 5°; your closed fist is 10° and your open hand is 20°.

Even the stars can help you determine distances. The two pointer stars in the Big Dipper are 5° apart and point to the North Star Polaris which is 30° away. The three belt stars in Orion span 2 ½°, the distance from Betelgeuse (right shoulder) to the left foot (Rigel) is 18 ½°. The Sun, Moon and Planets are measured in arc seconds *average size. Planet sizes depend on our and its orbit around the Sun.

1° = 60 minutes, 3,600 arc seconds
1/2° = 30 minutes, 1,800 arc seconds
1’ minute = 60 arc seconds

Object	Angular Size sec	Notes
Sun	1,920”	32’ arc minutes
Moon	1,860”	31’ arc minutes 1 second per mile
Jupiter	31 - 49” 40”*	
Saturn Ball Saturn Ring	15 - 21” 18”* 42”	
Venus	9 - 58” 20”*	
Mars	3 - 25” 8”*	
Mercury	4 - 12”	
Uranus	3.4 - 3.9”	
Neptune	2.1 - 2.3”	
Pluto	0.1”	
M31 Andr Neb	160’	5x > Moon
M42 Ori Neb	60’	2x > Moon
M45 Pleiades	120’	4x > Moon
M57 Ring Neb	1 ½’	
M13 Her Cluster	10’	
M44 Beehive Clu	90’	

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Saturn Ball Saturn Ring	15 - 21" 18"* 42"	
Venus	9 - 58" 20"*	
Mars	3 - 25" 8"*	
Mercury	4 - 12"	
Uranus	3.4 - 3.9"	
Neptune	2.1 - 2.3"	
Pluto	0.1"	
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M44 Beehive Clu	90'	

MILITARY/AMATEUR RADIO COMMUNICATIONS TEST

(14 MAY 2011)

1. THE ARMY, AIR FORCE, NAVY, MARINE CORPS, AND COAST GUARD ARE COSPONSORING THE ANNUAL MILITARY/AMATEUR RADIO COMMUNICATIONS TESTS IN CELEBRATION OF THE 61TH ANNIVERSARY OF ARMED FORCES DAY (AFD).

ALTHOUGH THE ACTUAL ARMED FORCES DAY IS CELEBRATED ON SATURDAY, MAY 21, 2011, THE AFD MILITARY/AMATEUR CROSSBAND COMMUNICATIONS TEST WILL BE CONDUCTED 14 MAY 2011 TO PREVENT CONFLICT WITH THE DAYTON HAMVENTION (20-22 MAY 2011), WHICH IS THE SAME WEEKEND AS THE ACTUAL ARMED FORCES DAY.

2. THE ANNUAL CELEBRATION FEATURES TRADITIONAL MILITARY TO AMATEUR CROSS BAND COMMUNICATIONS SSB VOICE AND MORSE CODE TESTS. THESE TESTS GIVE AMATEUR RADIO OPERATORS AND SHORT WAVE LISTENERS (SWL) AN OPPORTUNITY TO DEMONSTRATE THEIR INDIVIDUAL TECHNICAL SKILLS, AND TO RECEIVE RECOGNITION FROM THE APPROPRIATE MILITARY RADIO STATION FOR THEIR PROVEN EXPERTISE. QSL CARDS WILL BE PROVIDED TO THOSE STATIONS

MAKING CONTACT WITH THE MILITARY STATIONS.

3. MILITARY-TO-AMATEUR CROSS BAND SSB & CW TEST CONTACTS.

MILITARY-TO-AMATEUR CROSS BAND OPERATIONS WILL TAKE PLACE ON THE DATES/TIMES IN ZULU (UTC), AND FREQUENCIES LISTED BELOW FOR EACH STATION. VOICE CONTACTS WILL INCLUDE OPERATIONS IN SINGLE SIDEBAND VOICE (SSB). SOME STATIONS MAY NOT OPERATE THE ENTIRE PERIOD, DEPENDING ON PROPAGATION AND MANNING. PARTICIPATING MILITARY STATIONS WILL TRANSMIT ON SELECTED MILITARY MARS FREQUENCIES AND LISTEN FOR AMATEUR RADIO STATIONS IN THE AMATEUR BANDS INDICATED BELOW. THE MILITARY STATION OPERATOR WILL ANNOUNCE THE SPECIFIC AMATEUR BAND FREQUENCY BEING MONITORED. DURATION OF EACH VOICE CONTACT SHOULD BE LIMITED TO 1-2 MINUTES. THE FOLLOWING STATIONS WILL BE TRANSMITTING ON MARS FREQUENCIES LISTED BELOW WHICH ARE PROVIDED AS WINDOW/DIAL FREQUENCY' IN KHZ.

SOME STATIONS WILL USE CW TO PROVIDE THE OPPORTUNITY TO CHECK IN BY MORSE CODE.

4. ARMY STATIONS:

STATION: AAZ (14 MAY 1400Z - 15 MAY 0300Z)

FREQUENCY EMISSION AMATEUR BAND

4038.9 KHZ LSB 80M

6913.0 KHZ LSB 40M

14402.0 KHZ USB 20M

13996.0 KHZ USB 20M

18211.0 KHZ USB 17M

7577.0 KHZ CW 40M

13507.0 KHZ CW 20M

7639.5 KHZ RTTY 40M

13512.5 KHZ MT-63 20M

LOCATION: FORT HUACHUCA, AZ

ADDRESS: COMMANDER NETCOM/9TH ASC

ATTN: NETCOM-OPE-M (MARS) (31)

2133 CUSHING STREET

FT. HUACHUCA, AZ 85616-7070

POC: MR. DEWAYNE SMITH

DSN: 821-7324

COMMERCIAL: (520) 533-7324

STATION: AAC (14 MAY 1300Z - 15 MAY 0100Z)

FREQUENCY EMISSION AMATEUR BAND

3348.5 KHZ LSB 80M

7363.0 KHZ LSB 40M

13910.5 KHZ USB 20M

27788.5 KHZ USB 10M

LOCATION: LEXINGTON, KY

ADDRESS: HQ 3RD BDE, 95TH DIV (IT) MARS STATION

BARROW ARMY RESERVE TRAINING CENTER

1051 RUSSELL CAVE PIKE

LEXINGTON, KY 40505

POC: BARRY JACKSON, AAR4BZ

COMMERCIAL: (859) 227-0137

STATION: ABH (14 MAY 1600Z - 15 MAY 2300Z)

FREQUENCY EMISSION AMATEUR BAND

3350.0 KHZ LSB 80M

4441.5 KHZ LSB 80M

4792.5 KHZ LSB 80M

7360.0 KHZ LSB 40M

7721.5 KHZ LSB 40M

8040.0 KHZ LSB 40M

14402.0 KHZ USB 20M

14438.5 KHZ USB 20M

14487.0 KHZ USB 20M

17443.0 KHZ USB 17M

17592.5 KHZ USB 17M

20976.0 KHZ USB 15M

20558.5 KHZ USB 15M

LOCATION: SCHOFIELD BARRACKS, HI

COMMANDER, 396TH SIGNAL COMPANY

30TH SIGNAL BATTALION, 96857

POC: WO1 WILLIAM PEMBERTON

COMMERCIAL: (808) 655-3387

STATION: WAR (14 MAY 1200Z - 2400Z)

FREQUENCY EMISSION AMATEUR BAND

4020.9 KHZ LSB/CW 80M

7314.0 KHZ LSB/CW 40M

14438.5 KHZ USB/CW 20M

27991.0 KHZ USB/CW 10M

LOCATION: PENTAGON, WASHINGTON, DC

ADDRESS: PENTAGON AMATEUR RADIO CLUB

ATTN: AFDCBT

PO BOX 2322

ARLINGTON VA 22202

POC MR. GARY SESSUMS

STATION TELEPHONE:

COMMERCIAL: (703) 693-8423 DSN 223-8423

STATION: WUG-231 (14 MAY 1300Z - 15 MAY 0200Z)

FREQUENCY EMISSION AMATEUR BAND

4032.9 KHZ LSB 80M

7424.0 KHZ LSB 40M

6826.0 KHZ LSB/CW 40M

14486.0 KHZ USB 20M

14663.5 KHZ USB/CW 20M

20973.5 KHZ USB/CW 15M

LOCATION: MEMPHIS, TN

ADDRESS: USACE MEMPHIS DISTRICT OFFICE

ATTN: JIM POGUE

PUBLIC AFFAIRS OFFICE ROOM B-202

167 N. MAIN ST.

MEMPHIS, TN 38103-1894

POC: MR. JIM POGUE

COMMERCIAL: (901) 544-4109

5. NAVY/MARINE CORPS STATIONS

STATION: NAJ (14 MAY 1200Z - 15 MAY 0400Z)

NAVMARCORMARS RADIO STATION, GREAT LAKES, IL

FREQUENCY EMISSION AMATEUR BAND

4011.5 KHZ LSB/MT63 80M

7376.5 KHZ LSB 40M

14467.0 KHZ USB 20M

21758.5 KHZ USB 15M

ADDRESS: MR. DAVID OUELLETTE/NNN0ASG

6148 WEST CUTLER RD

DEWITT, MICHIGAN 48820

COMMERCIAL: (517) 515-6080

STATION: NBL (14 MAY 1200Z - 15 MAY 0400Z)

NAVMARCORMARS RADIO STATION, GROTON, CT

FREQUENCY EMISSION AMATEUR BAND

4041.5 KHZ LSB 80M

7371.5 KHZ LSB 40M

14391.5 KHZ USB 20M

20623.5 KHZ USB 15M

POC AND ADDRESS: ROBERT VETH, DIRECTOR REGION ONE

4 LANTERN LANE, CHELMSFORD MA 01824-1316

COMMERCIAL: (978) 256-5264

STATION: NNN0ASF (14 MAY 1200Z - 15 MAY 0400Z)

NAVMARCORMARS RADIO STATION, NNN0ASF

FREQUENCY EMISSION AMATEUR BAND

4014.0 KHZ LSB 80M

7394.5 KHZ LSB 40M 1200-2359Z, 0200-0400Z

7394.5 KHZ LSB PSK31 40M 0000-0200Z

13974.0 KHZ USB 20M 1200-1800Z, 2000-0400Z

13974.0 KHZ USB PSK31 20M 1800-2000Z

20997.0 KHZ USB 15M

POC AND ADDRESS: NAVMARCORMARS RADIO STATION NNN0ASF

KEN KEEHNER, PO BOX 224, BENNINGTON KS 67422

COMMERCIAL: (785) 488-2241COMMERCIAL: (978) 256-5264

STATION: NNN0CQQ (14 MAY 1500Z - 15 MAY 0400Z)

EX-USS MIDWAY MUSEUM SHIP MARS STATION

FREQUENCY EMISSION AMATEUR BAND

4003.0 KHZ LSB 80M

7351.5 KHZ LSB 40M

14463.5 KHZ USB 20M

20936.0 KHZ USB 15M

POC AND ADDRESS: JOSE GARZA, NNN0XBQ

9789 PASEO MONTRIL, SAN DIEGO CA 92129-3910

COMMERCIAL: (858) 484-0469 CELL: 858-254-0175

STATION: NUW (14 MAY 1500Z - 15 MAY 0400Z)

NAVMARCORMARS RADIO STATION, NAS WHIDBEY ISLAND, WA

FREQUENCY EMISSION AMATEUR BAND

4044.0 KHZ LSB 80M

7381.5 KHZ LSB 40M

13528.5 KHZ USB 20M

20952.5 KHZ USB 15M

POC AND ADDRESS: NAVMARCORMARS RADIO STATION

MR. DIGGER O'DELL, 260 W. PIONEER FSC BLDG.

NAS WHIDBEY ISLAND, WA 98277

COMMERCIAL: (360) 675-2823 DSN: 820-8038

STATION: NWKJ (14 MAY 1200Z - 15 MAY 0400Z)

FREQUENCY EMISSION AMATEUR BAND

4010.0 KHZ LSB 80M

7348.0 KHZ LSB 40M

14478.5 KHZ USB 20M

20994.0 KHZ USB 15M

ADDRESS: EX-USS YORKTOWN (CV-10)

PATRIOTS POINT MARITIME MUSEUM, SC

C/O FRED HAMBRECHT/NNN0GBS

129 INDIAN TRACE COURT

GILBERT, SC 29054

COMMERCIAL: (803) 657-3602

STATION: NWVC (14 MAY 1200Z - 15 MAY 0400Z)

FREQUENCY EMISSION AMATEUR BAND

4041.5 KHZ LSB 80M

7389.0 KHZ LSB 40M

13826.0 KHZ USB 20M

20678.5 KHZ USB 15M

ADDRESS: USS LST 325

840 LST DRIVE

EVANSVILLE, IN 47713

POC: PERRY BALLINGER, NNN0VNO

COMMERCIAL: 330-932-8612/330-705-8449