

ANNUAL ARMED FORCES DAY CROSSBAND TEST (14 May 2022)

The Department of Defense will host this year's Armed Forces Day (AFD) Crossband Test, scheduled for May 14, 2022. **This annual event is open to all licensed amateur radio operators** and will not impact any public or private communications. For more than 50 years, military and amateur stations have taken part in this event, which is an interoperability exercise between hobbyist and government radio stations.

The AFD Crossband Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service (ARS), as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly controlled exercise scenario that does not impact any public or private communications.

Military stations will transmit on selected military frequencies and will announce the specific ARS frequencies monitored. All times are ZULU (Z) and all frequencies are Upper Side Band (USB) unless otherwise noted. The frequencies used for the test will not impact any public or private communications and will not stray outside the of the exercise.

The following stations will be making two-way radiotelephone contacts with stations in the ARS between the time periods listed on the frequencies listed in Kilohertz below.

AAZ / FT HUACHUCA, AZ

1500Z - 2359Z 5,330.5 kHz USB 14,579.0 kHz USB 18,211.0 kHz USB

AAC / BARROW ARMY RESERVE CENTER, KY (USB + RTTY)

1100Z - 2259Z 5,346.5 kHz USB 6,968.5 kHz USB 13,963.5 kHz USB

AAN / U.S. NORTHERN COMMAND, CO

1300Z - 1800Z 5,357.0 kHz USB 6,970.5 kHz USB 14,550.5 kHz USB

AAU / HQ US ARMY GARRISON FORT KNOX, KY (USB + RTTY)

1400Z - 1800Z 5,346.5 kHz US 7,493.5 kHz USB 14,441.5 kHz USB

18,281.5 kHz USB

ABH / SCHOFIELD BARRACKS, HI

1900Z - 0200Z 14,512.5 kHz USB 18,254.0 kHz USB 20,997.0 kHz USB

ADB / CAMP FOSTER, OKINAWA

1500Z - 2400Z 14,487.0 kHz USB 20,994.0 kHz USB

AAM046 / NAS WHIDBEY ISLAND, WA

1500Z - 2400Z 5,346.5 kHz USB 6,897.5 kHz USB 13,538.5 kHz USB

AFM4NPD / NAVAL SUPPORT ACTIVITY MID-SOUTH, MILLINGTON, TN

1200Z - 2000Z 4,575.0 kHz USB 7,540.0 kHz USB 15,807.0 kHz USB

20,740.0 kHz USB

AAM3D / DISA CYBERSPACE OPERATIONS DIRECTORATE, FT MEADE, MD

1300Z - 2000Z 5,403.5 kHz USB 13,509.0 kHz USB 18,272.5 kHz USB

WAR / PENTAGON WASHINGTON, DC (USB + CW + RTTY)

1200Z - 2400Z 5,357.0 kHz USB 7,357.0 kHz USB 13,910.5 kHz USB

20,920.0 kHz USB

AIR / ANDREWS AFB

1200Z - 2359Z 4,517.0 kHz USB 7,305.0 kHz USB 15,807.0 kHz USB
20,740.0 kHz USB

AGA2SY / HANCOCK FIELD, NY

1200Z - 2359Z 4,575.0 kHz USB 7,540.0 kHz USB 13,993.0 kHz USB

AGA5SC / SCOTT AFB, IL

1600Z - 2300Z 7,305.0 kHz U 7,915.0 kHz USB 14,832.0 kHz USB
27,736.0 kHz USB

AGA5TR / TRAVIS AFB, CA

1600Z - 2359MARSZ 4,017.0 kHz USB 7,329.0 kHz USB 13,996.0 kHz USB
14,411.0 kHz USB

MARSRADIO /

1400Z ?0100Z 4,557.0 kHz USB 7,460.0 kHz USB 14,606.0 kHz USB

MARSCOMM /

1400Z - 0100Z 4,448.5 kHz USB 6,994.5.0 kHz USB 14,877.0 kHz USB

NBKJ / USS YORKTOWN PATRIOTS POINT, SC

1300Z - 2200Z 4,027.0 kHz USB 7,360.0 kHz USB 14,438.5 kHz USB

NEPM / USS IOWA BB 61 LOS ANGELES, CA (USB + CW)

1400Z - 2359Z 4,018.0 kHz USB 5,371.5 kHz USB 7,360.0 kHz USB
13,506.5 kHz USB 18,639 kHz USB 20,518.5 kHz USB

NIIW / USS MIDWAY CV-41 SAN DIEGO, CA (USB + CW + RTTY)

0000Z - 0600Z & 1401Z -2359Z 4,003.5 kHz USB 5,403.5 kHz USB 7,357.0 kHz
USB
14,383.5 kHz USB 18,293.0 kHz USB

NWVC / LST-325 EVANSVILLE, IN (USB + CW)

1200Z - 0300Z 3,325.0 kHz USB 6,913.0 kHz USB 9,988.5 kHz USB
13,974.0 kHz USB

NSS / US NAVAL ACADEMY ANNAPOLIS, MD (USB + CW)

1300Z - 0200Z 4,038.5 kHz USB 5,330.5 kHz USB 7,533.5 kHz USB
9,947.0 kHz USB 14,487.0 kHz USB

NAF / NEWPORT NAVAL RADIO STATION MUSEUM NEWPORT, RI (USB + CW)

1300Z - 2300Z 7,498.5 kHz USB 14,463.5 kHz USB

NMC1/ US COAST GUARD BASE ALAMEDA, CA

1700Z - 2359Z 7,351.5 kHz USB 14,459.5 kHz USB

SCHOOLHOUSE/ SAVANNAH CYBER TRAINING CENTER SAVANNAH, GA

1200Z - 1900Z 5,371.5 kHz USB 7,431.5 kHz USB 13,528.5 kHz USB

An AFD message will be transmitted utilizing the Military Standard (MIL-STD) Serial PSK waveform (M110) followed by MIL-STD Wide Shift FSK (850 Hz RTTY) as described in MIL-STD 188-110A/B.

Technical information regarding these waveforms is provided at:

<https://drive.google.com/drive/folders/1pYDj7kQbm-QAyY4RPtx0dOXXKohjaEjq9?usp=sharing>

The AFD Sec Def Message will also be sent in Continuous Wave (CW) mode and Radio Teletype (RTTY) at 1400Z and 2000Z on the frequency designated below.

AAZ: MILSTD110 14,579.0 kHz USB

AAU: MILSTD110 14,441.5 kHz USB

AAC: MILSTD110/RTTY 13,963.5 kHz USB

AAM046: MILSTD110 13,538.5 kHz USB

ADB: MILSTD110 20,994.0 kHz USB

WAR: MILSTD110/RTTY/CW 13,910.5 kHz USB

AAM3D: MILSTD110 13,509.0 kHz USB

NEPM: RTTY 13,506.5 kHz USB

NWVC: CW 13,974.0 kHz USB

NIIW: MILSTD110/RTTY/CW 14,383.5 kHz USB

For those who wish to document their contacts with a QSL card, go to <https://www.usarmymars.org/events> and complete the request form.