

**New Mexico Amateur Radio
Frequency Coordination
Committee
NMFCC**

Neil Addis – W7FED

What is this Forum about?

- New Mexico Amateur Radio VHF/UHF Repeater Frequency Coordination
- Target Audience = Repeater owners, Prospective repeater owners, and **ALL Amateur radio operators**
- Who is the NMFCC?
- Why do we need coordination?

What is the NMFCC?

- The NMFCC is a group of volunteers that maintain a database of repeater and link frequencies to help prevent interference between stations
- Provide planning for efficient use of the spectrum in the future

Who is the NMFCC?

- The NMFCC is recognized by the Federal Communications Commission Part [97.201(C); 97.205 (C)] as the official source of information regarding the coordination status for amateur stations in repeater and auxiliary operation within the State of New Mexico

Who is the NMFCC?

- Originally started as the NM Cooperative Interference Committee, the NMFCC now consists of three coordinators representing the northern, central, and southern parts of NM
- One coordinator also serves as secretary and database manager

What we DO

- Coordinate repeaters and links
- Maintain the master database
 - (Process new applications, update existing data, remove no longer in use, etc)
- Share “Verified & Published” data to the web and with adjacent state coordinators.

Coordinator Qualifications

What qualifications are required to be a frequency coordinator in New Mexico?

Coordinator Qualifications



The Crew

- **Neil Addis, W7FED, Secretary & Database manager, and Central NM coordinator**
- **Mike Olson, KB6JYF, Southern NM**
- **Brian Williams, NB5R, Northern NM**
- **Keith Hayes, KC5KH, Webmaster**

The Crew

- Neil Addis, W7FED, Secretary & database manager, and Central NM coordinator <https://www.qrz.com/db/w7fed>

Neil earned his amateur radio license (WN5JXY) in 1972, learning morse code on an old paper tape code generator at Ft. Bliss, TX (building #649). He is currently licensed as W7FED and resides in Albuquerque, New Mexico.

His electronics career started in the early '70s with MSD ignition in El Paso, Texas, as employee #10, earning 95 cents an hour. His career included working with the U.S. Border Patrol, EG&G WASC, Boeing Defense & Space, Dell Computer, EF Johnson, and finally retiring in 2020 from Motorola Solutions as a Senior Systems Technologist in the Federal division. In 2012, he was awarded the prestigious Motorola "Galvin Masters Support Professional" for exemplary technical support to the U.S. Federal Government.

The Crew

■ Brian Williams, NB5R, Northern NM

<https://www.qrz.com/db/nb5r>

Originally licensed in 1983 as KA5PWX in Wichita Falls, TX. Was active as Skywarn spotter with Wichita ARS, then Tarrant County RACES in Ft. Worth until moving to Taos, New Mexico around 1993. No storms there, so I joined Taos Search & Rescue and the Civil Air Patrol. Later became a SAR Field Coordinator for the NM State Police (DPS), working up to Type II Incident Commander before moving to South Texas early in 2004. Was a member of Hill Country REACT, S. Texas DX & Contest Club, Guadalupe Valley ARC. Former ARES DEC for S.TX District 12. Spent a couple years in Jackson, MS, designing military antenna systems while dodging tornadoes and hurricanes. Spent 4 years in NE Ohio, shoveled lots of snow..

Glad to be back home in Taos, New Mexico as of 2013. Active member of the Taos ARC and ARES DEC for Taos County.

The Crew

Mike Olson, KB6JYF, Southern NM

<https://www.qrz.com/db/kb6jyf>

Hello from Far West Texas. El Paso has been my home since exiting the Army in 1998. Originally licensed in 1984 my love of RF has been VHF and UHF repeaters. As a young ham in Sacramento I was part of the Sacramento Radio Club that had a repeater on 145.230. This is where I got my first taste of how a repeater can extend you signals beyond a 1 watt HT and open the world to you. As my interested grew many hams in the radio industry introduced me to voting, linking, simulcast and transmitter combining. I was hooked.

I am the Southern New Mexico Frequency Coordinator for all things ham radio. In my professional career I have been the Spectrum Manager for the Fort Bliss Army installation. This experience has helped me understand the balance it takes to operate lots of different RF emitting devices in a small geographical area (1.1 million acres) with minimal interference. Frequency reuse is key.

Please drop in and say hello on the T.R.A.S.H. radio network on our many different inputs, RF, Allstar, DMR and Echo link.

The Crew

- Keith Hayes, KC5KH, Webmaster

<https://www.qrz.com/db/kc5kh>

Keith is currently licensed as KC5KH and resides in Albuquerque, NM

Past Coordinators

- Bill Kauffman, W5YEJ (20+ years of service to NMFCC and the amateur radio community!)


Applause!

- Bob Fugate, W8GY
- Tom Ellis, K5TEE
- Paul Choc, WA5IHL; John Choc, WB5EZO
- Eddie Johnston, N5OBZ

WHY we Coordinate

(Finite spectrum!)

US Amateur Radio Bands



ARRL The national association for
AMATEUR RADIO®

6 Meters (50 MHz)
28.000 28.500 (200 W)
50.1 50.0 54.0 MHz E,A,G,T

2 Meters (144 MHz)
144.1 144.0 148.0 MHz E,A,G,T

1.25 Meters (222 MHz)
219.0 220.0 222.0 225.0 MHz E,A,G,T
N (25 W)

70 cm (420 MHz)*
420.0 450.0 MHz E,A,G,T

33 cm (902 MHz)*
902.0 928.0 MHz E,A,G,T

23 cm (1240 MHz)*
1240 1270 1295 MHz E,A,G,T
N (5 W)

KEY

Note:
CW operation is permitted throughout all amateur bands.
MCW is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz.
Test transmissions are authorized above 51 MHz, except for 219-220 MHz.

- = RTTY and data
- = phone and image
- = CW only
- = SSB phone
- = USB phone, CW, RTTY, and data
- = Fixed digital message forwarding systems only

E = Amateur Extra
A = Advanced
G = General
T = Technician
N = Novice

See *ARRLWeb* at www.arrl.org for detailed band plans.

ARRL
We're At Your Service

ARRL Headquarters:
860-594-0200 (Fax 860-594-0259)
email: hq@arrl.org

Publication Orders:
www.arrl.org/shop
Toll-Free 1-888-277-5289 (860-594-0355)
email: orders@arrl.org

Membership/Circulation Desk:
www.arrl.org/membership
Toll-Free 1-888-277-5289 (860-594-0338)
email: membership@arrl.org

Getting Started in Amateur Radio:
Toll-Free 1-800-326-3942 (860-594-0355)
email: newham@arrl.org

Exams: 860-594-0300 email: veo@arrl.org

Copyright © ARRL 2017 rev. 9/22/2017

*Geographical and power restrictions may apply to all bands above 420 MHz. See *The ARRL Operating Manual* for information about your area.

All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	10.0-10.5 GHz ‡	122.25-123.0 GHz
2390-2450 MHz	24.0-24.25 GHz	134-141 GHz
3300-3500 MHz	47.0-47.2 GHz	241-250 GHz
5650-5925 MHz	76.0-81.0 GHz	All above 275 GHz

‡ No pulse emissions

WHY we Coordinate



WHY we Coordinate – cont'd

- Coordination Means Cooperation!
- <https://www.ecfr.gov/current/title-47/section-97.205>

§97.205 Repeater station.

(c) Where the transmissions of a repeater cause harmful interference to another repeater, the two station licensees are equally and fully responsible for resolving the interference *unless the operation of one station is recommended by a frequency coordinator and the operation of the other station is not*. In that case, the licensee of the non-coordinated repeater has primary responsibility to resolve the interference.

What we DON'T do

Enforce Rules

- Coordinate APRS (consult the ARRL bandplan)
- Coordinate Packet
- Coordinate low power MMDVM “hotspots”
- Coordinate simplex channels
- Coordinate anything above 2300 Mhz
- Charge fees or request funding

The NM Database

as of Sept 2024

- Open Office Calc
- 60+ columns
- ~667 line entries (repeaters & links)
- 188 VHF repeaters
- 386 70cm repeaters & links
- 13 1.25 cm repeaters
- 7 900 & 1200 MHz repeaters
- 5 6M repeaters

Maintaining the database

- PLEASE let us know if ANY of the following changes:
- Frequency or frequencies of operation
- Change of EMISSION
- Transmitter site location
- Receiver site location or locations
- Increase of Effective Radiated Power above coordinated levels
- Increase of antenna elevation above the coordinated elevation of antenna
- Change of radiation pattern of antenna if the ERP in any direction will be increased 3db above coordinated levels
- System Owner or Trustee
- Repeater Callsign, email address, etc.

The NMFCC Web Site

- <https://www.qsl.net/nmfcc>
 - Maintained by KC5KH
 - Hosting offered as a free service by QSL.NET
- Coordination forms & tools for using the forms (HAAT, ERP calculators)
- Repeater listings of all “verified & published” coordinated repeaters in NM
- Pending and Recently Approved Repeaters
- Chirp and ICS217A import files

The NMFCC Web Site



New Mexico Frequency Coordination Committee

Secretary and Database Manager

Neil Addis W7FED

Northern New Mexico Coordinator

Brian Williams NB5R
nb5r@yahoo.com

Central New Mexico Coordinator

Neil Addis W7FED
w7fed@protonmail.com

Southern New Mexico Coordinator

Mike Olson KB6JYF
kb6jyf@gmail.com

Site Index

- Annual Repeater Verification Requirement
- NM Public Repeater Listings
- NMFCC Policy and Forms
- Tools for ERP HAAT Grid-Square
- Resources

Content © NMFCC

This site is made possible as a service to
Amateur Radio by QSL.net.

Version: Mon Aug 26 14:42:10 2024

New Mexico Amateur Radio Frequency Coordination Committee

www.qsl.net/nmfcc/

"Coordination means Cooperation"

Repeater Owners...see NOTICE on ANNUAL VERIFICATION REQUIREMENT

NM Public Repeater Listings

Database updated Aug 22 2024

For changes not yet shown in these band lists see **Pending or Recently Approved Repeaters**

52MHz (6 meter)

144MHz (2 meter)

222MHz (1.25 meter)

440MHz (70 cm)

902 and 1240 MHz

2300MHz or Higher Information

All bands

All Bands - Digital Mode Repeaters

Pending or Recently Approved Repeaters

Chirp and ICS217A import files

Repeaters not shown in the regular Public Listings since they have not completed Annual Verification Requirement

All bands Unverified Repeaters



The NMFCC Web Site



New Mexico Amateur Radio Frequency Coordination Committee

www.qsl.net/nmfcc/

"Coordination means Cooperation"
Repeater Owners...see NOTICE on ANNUAL VERIFICATION REQUIREMENT

NM Public Repeater Listings

Database updated Aug 22 2024

For changes not yet shown in these band lists see Pending or Recently Approved Repeaters

- 52MHz (6 meter)
- 144MHz (2 meter)
- 222MHz (1.25 meter)
- 440MHz (70 cm)
- 902 and 1240 MHz
- 2300MHz or Higher Information

- All bands
- All Bands - Digital Mode Repeaters
- Pending or Recently Approved Repeaters
- Chirp and ICS217A import files

Repeaters not shown in the regular Public Listings since they have not completed Annual Verification Requirement

All bands Unverified Repeaters



New Mexico Frequency Coordination Committee

Secretary and Database Manager

Neil Addis W7FED

Northern New Mexico Coordinator

Brian Williams NB5R
nb5r@yahoo.com

Central New Mexico Coordinator

Neil Addis W7FED
w7fed@protonmail.com

Southern New Mexico Coordinator

Mike Olson KB6JYF
kb6jyf@gmail.com

Site Index

Annual Repeater Verification Requirement

NM Public Repeater Listings

NMFCC Policy and Forms

Tools for ERP HAAT Grid-Square

Resources

Content © NMFCC

This site is made possible as a service to Amateur Radio by QSL.net.

Version: Mon Aug 26 14:42:10 2024

The NMFCC Web

Site



**New Mexico Frequency
Coordination Committee**

Secretary and Database Manager
Neil Addis W7FED

**Northern New Mexico
Coordinator**
Brian Williams NB5R
nb5r@yahoo.com

Central New Mexico Coordinator
Neil Addis W7FED
w7fed@protonmail.com

**Southern New Mexico
Coordinator**
Mike Olson KB6JYF
kb6jyf@gmail.com

Site Index

[Annual Repeater Verification
Requirement](#)

[NM Public Repeater Listings](#)

[NMFCC Policy and Forms](#)

[Tools for ERP HAAT Grid-Square](#)

[Resources](#)

Content © NMFCC
This site is made possible as a service to
Amateur Radio by QSL.net
Version: Mon Aug 26 14:42:10 2024

New Mexico Amateur Radio Frequency Coordination Committee

www.qsl.net/nmfcc/

"Coordination means Cooperation"

Repeater Owners...see NOTICE on ANNUAL VERIFICATION REQUIREMENT

NM Public Repeater Listings

Database updated Aug 22 2024

For changes not yet shown in these band lists see Pending or Recently Approved Repeaters

52MHz (6 meter)

144MHz (2 meter)

222MHz (1.25 meter)

440MHz (70 cm)

902 and 1240 MHz

2300MHz or Higher Information

All bands

~~All Bands - Digital Mode Repeaters~~

Pending or Recently Approved Repeaters

Chirp and ICS217A import files

**Repeaters not shown in the regular Public Listings since they have not completed Annual
Verification Requirement**

All bands Unverified Repeaters



The NMFCC Web Site



New Mexico Frequency Coordination Committee

Secretary and Database Manager
Neil Addis W7FED

Northern New Mexico Coordinator
Brian Williams NB5R
nb5r@yahoo.com

Central New Mexico Coordinator
Neil Addis W7FED
w7fed@protonmail.com

Southern New Mexico Coordinator
Mike Olson KB6JYF
kb6jyf@gmail.com

Site Index

- Annual Repeater Verification Requirement
- NM Public Repeater Listings
- NMFCC Policy and Forms
- Tools for ERP HAAT Grid-Square

Resources

Content © NMFCC
This site is made possible as a service to Amateur Radio by QSL.net.
Version: Mon Aug 26 14:42:10 2024

New Mexico Amateur Radio Frequency Coordination Committee

www.qsl.net/nmfcc/

"Coordination means Cooperation"

Repeater Owners...see NOTICE on ANNUAL VERIFICATION REQUIREMENT

Pending or Recently Approved Repeaters

[Return to Repeaters Index](#)

Additions/deletions/revisions submitted to NMFCC coordinators since Aug 22 2024

CORRECTED items shown in the main listings. Other changes will be shown in the main repeater listings at the next full database update during 2024 or 2025.

OUTPUT	INPUT	ACCESS	LOCATION	MODE	NOTES/STATUS	USE	CALL	SPONSOR	REGION
1248.60	1248.60		Farminton (Bluffs)	DSTAR	Approved-Operational 08/30/2024		KF5VBF	San Juan Co OEM	North West

The following changes were incorporated into the data between Dec 28 2023 and Aug 22 2024

OUTPUT	INPUT	ACCESS	LOCATION	MODE	NOTES/STATUS	USE	CALL	SPONSOR	REGION
443.150	448.150	CC1	T or C	DMR	Approved-Operational (Standalone) 07/17/2024	OPEN	WR7HLN	MPRG	South Central
444.300	449.300	CC1	Chama (Rabbit Pk)	DMR	Approved-Operational 06/24/2024	OPEN	WR7HLN	MPRG	North Central
147.300	147.900	100.0	Farmington	FM	CANCELLED Never on air. 05/22/2024	OPEN	KG5RGN	KG5RGN	North West
442.275	447.275	107.2	Milan	FM	Approved-Operational 07/17/2024	OPEN	K5HLH	K5HLH	West Central
147.320	147.920	146.2	Roswell (Comanche Pk)	FM	Approved-Operational (owner chg) 02/19/2024	OPEN	W5ZU	PVARC	South East
443.425	448.425	100.0	Los Lunas (Tome)	FUSION FM	Approved-Operational 08/02/2024	OPEN	KJ5DZQ	VCARA	Central
145.250	144.650	88.5	Lordsburg (Jacks PK)	FM	DELETED - Not in service 02/22/2024	CLOSED	WB5QHS	JPARA	South West
444.225	449.225	141.3	White Rock	FM	Approved-Operational 06/17/2024	OPEN	W7FED	T.R.A.S.H.	North Central
444.350	449.350	123.0	Albuquerque (West Mesa)	NFM	Approved-Operational 07/02/2024	OPEN	W5OMU	W5OMU	Albuquerque
444.950	449.950	151.4	Grants (Microwave Ridge)	FM	Approved-Operational 07/30/2024	OPEN	KE5FYL	Cibola County ARC	West Central
145.390	144.790	127.3	Grants (Microwave Ridge)	FM	Approved-Operational 07/30/2024	OPEN	KE5FYL	Cibola County ARC	West Central
442.925	447.925	131.8	Carlsbad	FM	Approved-Operational 08/15/2024	OPEN	W7FED	T.R.A.S.H.	South East
223.940	222.340		Las Cruces	FM	Approved-Operational 08/19/2024	OPEN	WD8AJJ	WD8AJJ	South Central

MODE	Labels and Abbreviations used in the tables:
	Repeater operating mode
	ATV - Amateur television, analog.
	DATV - Amateur television, digital.
	DMR - Digital Mobile Radio (TDMA technology).
	DSTAR - Digital Smart Technologies for Amateur Radio. DD=data, DV=digital voice.

Coordinator Resources

- ARRL band plans
- Topo Maps (Topo USA)
- Google Earth
- FCC web pages for part 97 Rules, ASR, coordinate conversions, on-line resources (QRZ, repeaterbook, etc).
- Radio Mobile Propagation Simulation software by Roger Coudé VE2DBE
- NM Repeater owners email reflector (google groups)
- Adjacent state coordinator web sites (AZ, CO, OK, TX, UT).
- And most importantly!

FEEDBACK FROM LOCAL AMATEURS!

Coordinator Resources - VE2DBE

- Radio Mobile Propagation Simulation software by Roger Coudé VE2DBE
- <https://www.ve2dbe.com/english1.html>

Coordinator Resources - VE2DBE



[Mobile Radio Online](#)

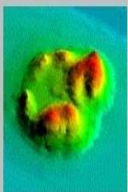
[English](#)

[RM Handbooks\(Free Download - In Memory of Ian D. Brown G3TVU\)](#)

[Mobile Radio for the Moon](#)

[News...](#)

[Download...](#)



[How to do it...](#)

The Radio Mobile software is the intellectual property of Roger Coudé VE2DBE. Radio Mobile is dedicated to amateur radio and humanitarian purposes. Although commercial use is not prohibited, the author does not agree to the cannot be held responsible for the use that will be made of it. The material produced by the software is the sole responsibility of the user. The user should comply with the restrictions that apply to the sources of data from outside sources.

The official page of Mobile Radio is hosted at [Link Technologies, Inc.](#)

[Short Career Summary](#)

[My experiences in astronomy](#)

[Message Center...](#)

[Footage...](#)

[Pages to visit...](#)

ve2dbe@yahoo.ca

Website dedicated to Amateur Radio since 1997. Last Updated: December 2, 2023

Coordinator Resources - VE2DBE

[Radio Mobile](#) Par/By Roger Coudé VE2DBE [Information](#)

This tool is sponsored by  TowerCoverage.com commandite cet outil


Radio Mobile Online / En ligne

[Try the new Windows Desktop version - RmWeb 2.1.2.0 - Essayez la nouvelle version pour bureau Windows](#)

Utilisateur	<input type="text"/>	User
Mot de passe	<input type="password"/>	Password
13 + 1 =	<input type="text"/>	
<input type="button" value="Soumettre - Submit"/>		

[Create a New account](#) English [Lost your user name or password...](#)

Coordinator Resources - VE2DBE



The screenshot displays the 'Radio Mobile' web interface. At the top, there is a header with a small icon and the text 'Radio Mobile'. Below this, a welcome message reads 'Welcome w7fed'. A vertical menu of options is presented, each with a small icon and a text label. The 'New Site' option is highlighted with a red oval. The options are: My Settings (gear icon), New Site (radio tower icon, highlighted), My Sites (radio tower icon), Multiple Sites (radio tower icon), New Link (link icon), My Links (link icon), Multiple Links (link icon), New Coverage (plus sign icon), My Coverages (plus sign icon), Multiple Coverages (plus sign icon), New Antenna type (antenna icon), My Antenna types (antenna icon), and Log Out (arrow icon). At the bottom of the page, the text 'Copyright Roger Coudé Canada 2005' is visible.

Radio Mobile

Welcome w7fed

- My Settings
- New Site
- My Sites
- Multiple Sites
- New Link
- My Links
- Multiple Links
- New Coverage
- My Coverages
- Multiple Coverages
- New Antenna type
- My Antenna types
- Log Out

Copyright Roger Coudé Canada 2005

Coordinator Resources - VE2DBE

Par/By Roger Coudé VE2DBE

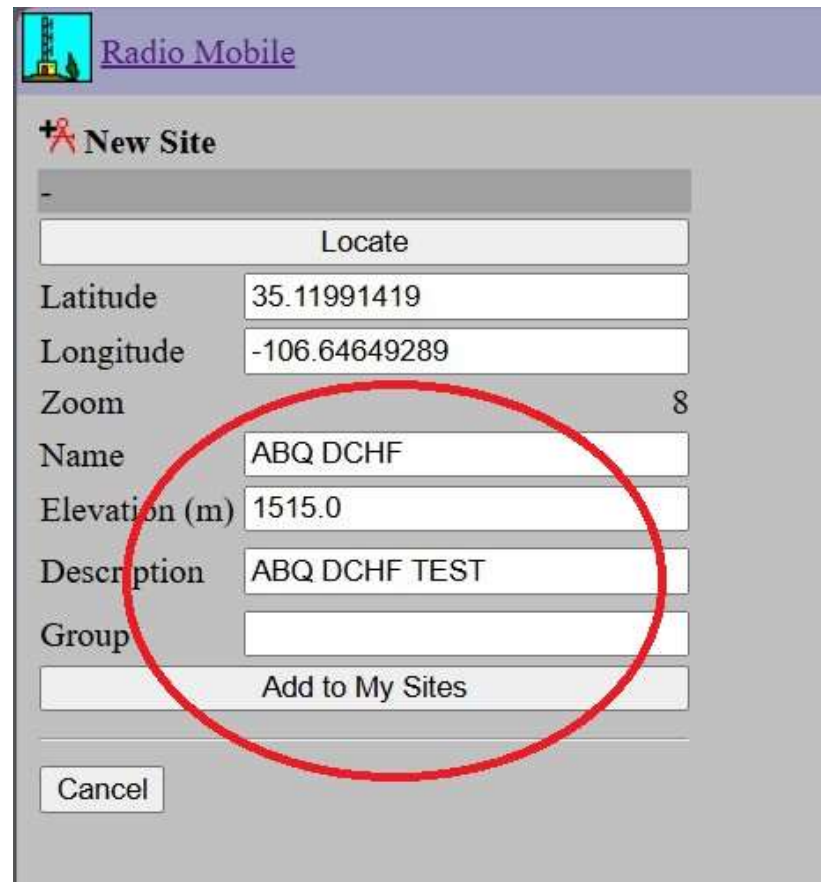
The map displays the Albuquerque, New Mexico region. Key locations and features include: San Luis Valley Field Office, Jicarilla Apache Nation / Jicarilla Dindéi, Rio Grande del Norte National Monument, Carson National Forest, Pecos Wilderness, Los Alamos, Santa Fe, Albuquerque, Laguna Pueblo / Kawaiika, Pueblo of Isleta / Shiewhibak, and Sevilleta National. A blue location pin is placed near Albuquerque, and a red star icon marks 'New Site 43'.

New Site 43 OpenStreetMap - Road ▾

Latitude 35.27031193 35° 16' 13" N
Longitude -106.61806930 106° 37' 5" W

Cancel Center at cursor Place cursor at center Submit

Coordinator Resources - VE2DBE



The screenshot shows the 'Radio Mobile' software interface. At the top, there is a title bar with a radio tower icon and the text 'Radio Mobile'. Below this is a 'New Site' dialog box. The dialog has a header with a red cross icon and the text 'New Site'. Below the header is a 'Locate' button. The main area of the dialog contains several input fields: 'Latitude' with the value '35.11991419', 'Longitude' with the value '-106.64649289', 'Zoom' with the value '8', 'Name' with the value 'ABQ DCHF', 'Elevation (m)' with the value '1515.0', and 'Description' with the value 'ABQ DCHF TEST'. There is also an empty 'Group' field. At the bottom of the dialog are two buttons: 'Add to My Sites' and 'Cancel'. A red circle is drawn around the 'Name' and 'Description' fields.

Field	Value
Latitude	35.11991419
Longitude	-106.64649289
Zoom	8
Name	ABQ DCHF
Elevation (m)	1515.0
Description	ABQ DCHF TEST
Group	

Coordinator Resources - VE2DBE



The screenshot displays the 'Radio Mobile' web interface. At the top, there is a header with a radio tower icon and the text 'Radio Mobile'. Below this, a welcome message reads 'Welcome w7fed'. A vertical menu of options is presented, each with a small icon and a text label. The options are: 'My Settings' (gear icon), 'New Site' (site icon with a red 'X'), 'My Sites' (site icon), 'Multiple Sites' (site icon), 'New Link' (link icon), 'My Links' (link icon), 'Multiple Links' (link icon), 'New Coverage' (coverage icon with a red oval around it), 'My Coverages' (coverage icon), 'Multiple Coverages' (coverage icon), 'New Antenna type' (antenna icon), 'My Antenna types' (antenna icon), and 'Log Out' (logout icon). At the bottom of the menu, a status message states 'ABQ DCHF has been added to my sites'.


Radio Mobile

Welcome w7fed

- My Settings
- New Site
- My Sites
- Multiple Sites
- New Link
- My Links
- Multiple Links
- New Coverage
- My Coverages
- Multiple Coverages
- New Antenna type
- My Antenna types
- Log Out

ABQ DCHF has been added to my sites

Coordinator Resources - VE2DBE

 Radio Mobile

New Coverage

Centre Site

Antenna Height (m above ground) 6.56 ft

Antenna Type

Antenna Azimuth (°)

Antenna Tilt (°)

Antenna Gain (dBi)

Mobile Antenna Height (m) 6.56 ft

Mobile Antenna Gain (dBi)

Description

Frequency (MHz)

Tx power (Watts) 43.01 dBm

Tx line loss (dB)

Rx line loss (dB)

Rx threshold (µV) -113.02 dBm

Required reliability (%)

Strong Signal Margin (dB)

Strong Signal Color

Weak Signal Color

Opacity (%)

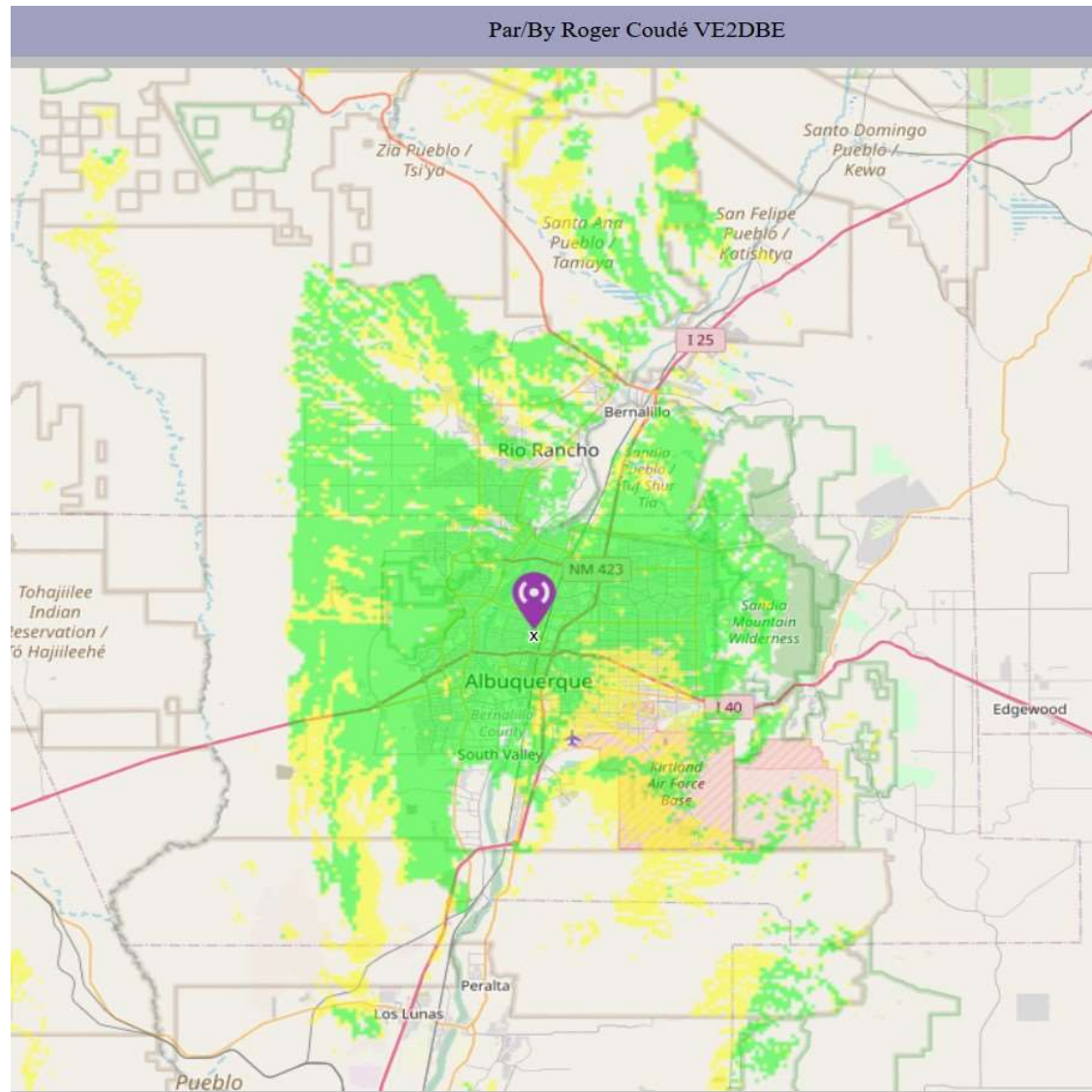
Maximum range (km) 62.1371 mi

Rendering

Use land cover

Use two rays

Coordinator Resources - VE2DBE



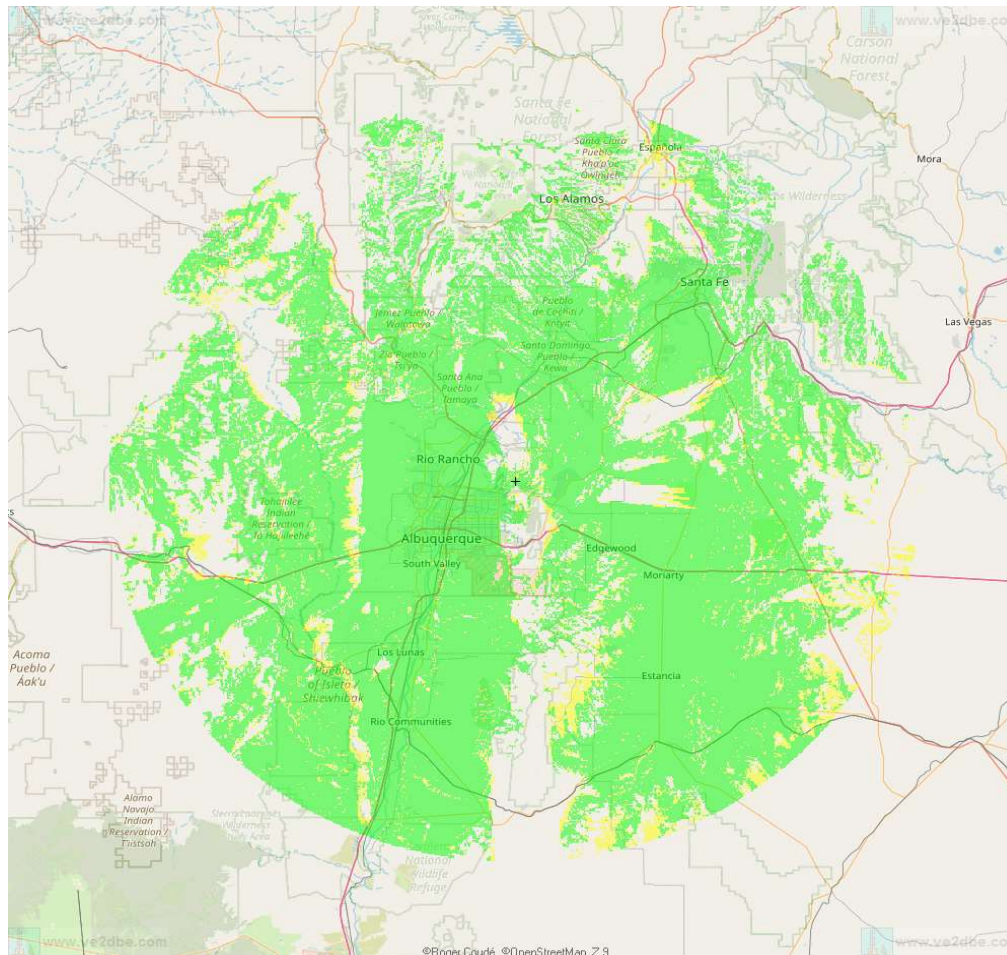
Coordinator Resources - VE2DBE

Radio Mobile Online Coverage report

Description	WR7HLN 927.300
Frequency	927.3 MHz
Base Name	WR7HLN 927.300
Latitude	35.21642600 °
Longitude	-106.45192300 °
Latitude	35° 12' 59.13"N
Longitude	106° 27' 06.92"W
QRA	DM65SF
UTM (WGS84)	13S E367855 N3898010
Elevation	3251 m
Base Antenna Height	31 m
Base Antenna Gain	8.0 dBi
Base Antenna Type	omni
Base Antenna Azimuth	0 °
Base Antenna Tilt	0 °
Mobile Antenna Height	2.0 m
Mobile Antenna Gain	2.0 dBi
Tx Power	50.00000 W
Tx Line Loss	3.0 dB
Rx Line Loss	0.5 dB
Rx Threshold	0.500 µV (-113.0 dBm)
Required Reliability	70%
Strong signal margin	10.0 dB
Weak signal field	21.5 dBµV/m
Strong signal field	31.5 dBµV/m
Weak signal covered area	20699 km ²
Strong signal covered area	18518 km ²
Weak signal population reached	861145 pop
Strong signal population reached	842974 pop
Landcover used	Yes
Two rays method used	Yes
User ID	w7fed
Radio coverage ID	RM211C0236D2E0_0
Generated on	7/27/2023 2:28:36 PM

Coordinator Resources - VE2DBE

Radio Mobile Propagation Simulation software by Roger Coudé VE2DBE



FAQ's

Steps to start the coordination process

1. Download and READ the NMFCC Policy and Procedures document!
 2. CHOOSE an available transmit and receive frequency pair
 3. LISTEN to both frequencies for possible activity
- ***IMPORTANT*** The frequency may already be coordinated and unpublished!
1. Go to the NMFCC web site and download FORM 1, fill it out, sign, scan, and email to the appropriate NM coordinator

NMFCC FORM 1

NEW MEXICO FREQUENCY COORDINATION FORM 1

For Amateur Radio Stations at Fixed Sites in Auxiliary or Repeater Operation

Use this form for new applications or to update technical data for frequencies already coordinated. This form should include information about all receivers and transmitters operated by one trustee at one specific fixed site in the state of NM. This includes all repeater and auxiliary operations at the site. If more than one receiver and one transmitter are in operation at this site, attach enough Supplementary Data Sheets (Form 2) to cover all equipment and frequencies. The receive and transmit frequencies listed on each sheet (either this form or Supplementary Data Sheet) should be grouped in logical pairs based on the application checked for that sheet. For instance, repeater input/output, link input/output, repeater input/link output (for remote receiver sites) form logical pairing of frequencies. If split site operations are involved, a separate Form 1 (and Form 2, if needed) should be completed for each site. Fill out the forms completely. Incomplete forms will require the coordinator to obtain the missing information and will cause delays in approval. The trustee should not make any financial commitment that might be affected by the failure of the Committee to approve the application. Applications are considered on a first-come, first-served basis; there may be other applications for the frequencies you are requesting. No frequencies will be considered coordinated without a signed, approved application form on file with the Secretary.

Send the completed application and #10 SASE to: Neil Addis, W7FED, 8401 Disney PL NE, Albuquerque NM 87122-2789

This is a New Application or Update Or email to: w7fed@protonmail.com in .pdf format

I. INFORMATION ABOUT THE TRUSTEE: Name: _____ Call: _____ Home Phone _____ Work Phone _____ Address _____ email _____ City _____ State _____ ZIP _____			
II. INFORMATION ABOUT THE OWNER/SPONSOR: Name/Organization _____ Point of Contact _____ Address _____ Home Phone _____ Work Phone _____ City _____ State _____ ZIP _____ email _____			
III. SITE DATA: The following site data applies to the frequencies listed on this sheet and all attached Supplementary Data Sheets (Form 2). Town/City _____ Elevation (ASL, ft) _____ HAAT (ft) _____ Mountain Name _____ Latitude _____ Longitude _____ Elevation is at the base of the tower. For Lat/Lon please use WGS-84 datum. See Height Above Average Terrain calculator to determine HAAT . Site Power is: Commercial <input type="checkbox"/> Solar <input type="checkbox"/> Wind <input type="checkbox"/> Emergency Power is: (Solar, Wind, Gen, Battery, etc) _____			
IV. For the receive/transmit frequencies listed below, check the one description that best describes how these frequencies are used: Common Site Full Duplex Repeater <input type="checkbox"/> Control Receiver input <input type="checkbox"/> Transmitter end of a split repeater site <input type="checkbox"/> Operation of a Remote Base <input type="checkbox"/> Remote/auxiliary input receiver site for a repeater <input type="checkbox"/> Receiver end of a split repeater site <input type="checkbox"/> Linking of a repeater at this site to another fixed site <input type="checkbox"/> ; Linked frequency _____			
V. Information about the Transmitter at this site: Frequency _____ Emission _____ CTCSS _____ CC/DCS/DSQ/NAC/RAN _____ Antenna Height above ground, in feet, at center of vertical axis _____ Repeater Call _____ Antenna Polarization (V, H) _____ Antenna Pattern (Omni, Directional) _____ Antenna Bearing _____ Gain (dBD) _____ Output Power (W) at TX terminals _____ Effective Radiated Power (ERP) _____			
VI. Information about the Receiver at this site: Frequency _____ Emission _____ CTCSS _____ CC/DCS/DSQ/NAC/RAN _____			
VII. NOTES AND SPECIAL FEATURES: Check all that apply. Open System <input type="checkbox"/> Remote Base <input type="checkbox"/> Linked or cross band system <input type="checkbox"/> RACES Affiliated <input type="checkbox"/> ARES affiliated <input type="checkbox"/> Weather net/weather usage <input type="checkbox"/> Portable system <input type="checkbox"/> MODE: FM Wide <input type="checkbox"/> FM NARROW <input type="checkbox"/> D Star DV <input type="checkbox"/> D Star DD <input type="checkbox"/> DMR <input type="checkbox"/> Fusion <input type="checkbox"/> P25-1 <input type="checkbox"/> P25-2 <input type="checkbox"/> NXDN <input type="checkbox"/> ATV <input type="checkbox"/> DATV <input type="checkbox"/>			
VIII. Link information (for Point-to-Point Applications): All transmitters and protected receivers must be coordinated, except Remote Bases. Location of other end of link: _____ Call: _____ Other end previously coordinated (Y/N): _____ (Previously coordinated Hub sites do not need to be re-submitted.)			
IX. For Remote Base applications: Frequency of Remote Base _____ Output power (W) _____ Note that Remote Base frequencies are not to be considered as coordinated but noted for database and Directory use only.			

Trustee's Signature _____ Date _____

FOR NMFCC USE ONLY

APPROVED NOT APPROVED REASON _____

Coordinator _____ Date _____

NMFCC Form 1, Revised Jan 1 2016. Previous versions obsolete.

Whats NEW!

- NMFCC now uses “Spiceworks Cloud HELPDESK Ticketing software”

<https://www.spiceworks.com/free-cloud-help-desk-software>

1. ALL coordination tasks generate a ticket #
2. Every ticket action sends an email to ticket owner (and all participants) for tracking
3. Can attach files (i.e. FORM₁, FORM₂, Signed forms, coverage plot, etc)
4. It's FREE !

What's COMING (2023-2024)!

- On-line **FILLABLE FORMS** (no need to print, fill out, scan, mail or email)
- On-line **REPEATER STATUS VERIFICATION QUESTIONNAIRE**
 - ➔ **Owners will be required to VERIFY OPERATING STATUS YEARLY or coordination will be moved to PENDING RELEASE OF COORDINATION link on the NMFCC web page*
 - ➔ **Repeater frequency will be de-coordinated and available for re-issue if not verified after 24 months.*
- Links will be posted on the NMFCC website

General Questions

?

T.R.A.S.H. RADIO GROUP



(photo of Sandia Crest, NM)

<https://www.qsl.net/w7fed>

T.R.A.S.H. RADIO GROUP



Neil W7FED left, Mike KB6JYF right

TRASHMASTER (ver 2.0)

Neil Addis W7FED

Site Index

TRASH RADIO Repeater Listings

TRASH RADIO Pictures

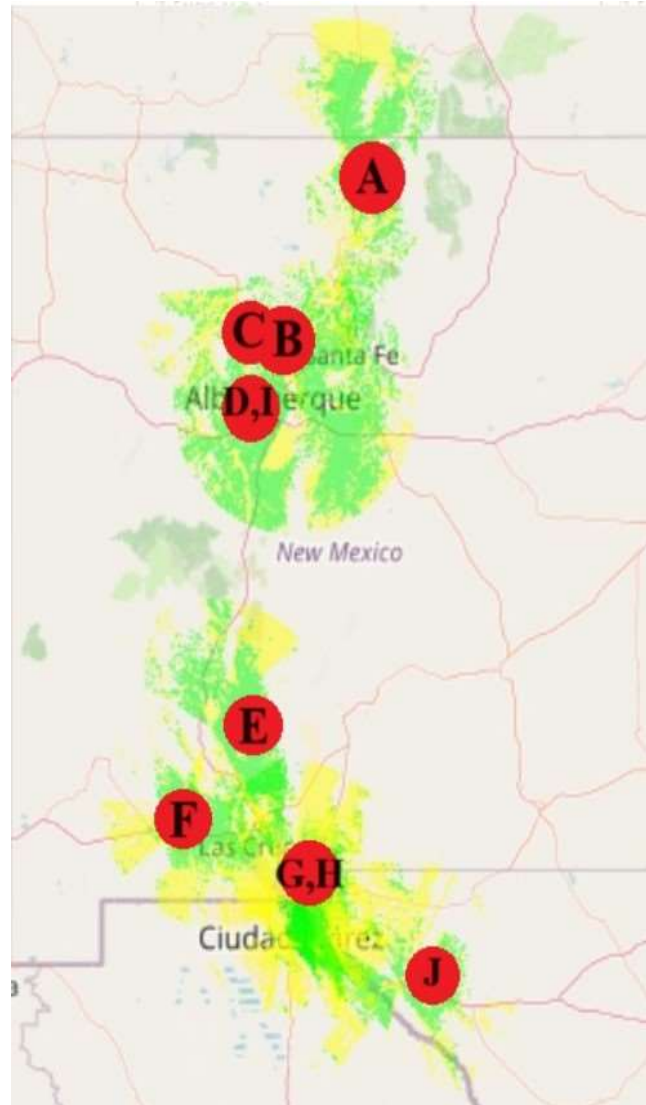
TRASH RADIO Policy and Forms

Content Copyright TRASHRADIOGROUP

*This site is made possible as a service to
Amateur Radio by QSL.net.*

Version: Wed Aug 21 10:16:20 2024

T.R.A.S.H. RADIO GROUP



T.R.A.S.H. RADIO GROUP

T.R.A.S.H. REPEATER LIST

(as of 07/27/2024)

NODE	LOCATION	SITE	OUTPUT	PL	CALLSIGN	STATUS	MAP REFERENCE
271845	TAOS, NM	SAN ANTONIO MTN	443.050+	123.0	W7FED	OPERATIONAL	A
270511	WHITE ROCK, NM	@KC2SHO QTH	444.225+	141.3	KC2SHO	OPERATIONAL	B
274233	N. CENTRAL NM	EUREKA MESA	443.075+	100.0	KBoPMY	OPERATIONAL	C
270518	ALBUQUERQUE	SANDIA CREST	442.600+	100.0	W7FED	OPERATIONAL	D
270516	ALBUQUERQUE	N.E. HEIGHTS	442.400 S	NAC 293	W7FED P25	OPERATIONAL	D
270517	TorC	CABALLO MTN	447.850-	131.8	W7FED	OPERATIONAL	E
27421	SOUTHWEST NM	MAGDALENA PK	440.050+	173.8	W7FED	OPERATIONAL	F
270515	EL PASO, TX	MT FRANKLIN	445.875-	114.8	W7FED	OPERATIONAL	G
27081	EL PASO, TX	@KB6JYF QTH	443.850 +	77.0	KB6JYF	OPERATIONAL	G
270512	EL PASO, TX	AIRPORT	146.960-	162.2	W7FED	OPERATIONAL	H
271846	EL PASO, TX	MT FRANKLIN	147.100+	162.2	W7FED	OPERATIONAL	H
274237	EL PASO, TX	TBD - TESTING	147.440 S	192.8	W7FED	SOON	
274231	W. TEXAS	QUITTMAN MTN	440.200+	141.3	W7FED	OPERATIONAL	J
271847	RUIDOSO, NM	RUIDOSO, NM	442.375+	162.2	W7FED	SOON	
271848	VAN HORN, TX	VAN HORN, TX	442.000+	88.5	W7FED	SOON	
274230	ROSWELL	@N5IMJ QTH	443.050+	100.0	W7FED	SOON	
52252	SELAH, WA	@KO7W QTH	443.275+	88.5	KO7W	OPERATIONAL	SOON
274235	ALBUQUERQUE	N.E. HEIGHTS	442.675+	156.7	W7FED	OPERATIONAL	I
270513	CARLSBAD, NM	CARLSBAD	442.925+	131.8	W7FED	SOON	SOON

T.R.A.S.H. RADIO GROUP

T.R.A.S.H. Allstar "HUB" LIST

Incoming Allstar connections allowed as long as the node you are using is NOT connected to other nodes!

(Please connect to a "hub" rather than an RF node#, use the nearest hub to your location)

ALL HUBS ARE LINKED FULL-TIME

MAIN HUB	WESTERN HUB	EASTERN HUB	INTERSTELLAR HUB	NORTHERN HUB
27080	271840	55769	55770	274240
El Paso, TX area	West of El Paso	East of El Paso	ECHOLINK, SPACE, etc	Albuquerque & North NM
OPERATIONAL	OPERATIONAL	OPERATIONAL	OPERATIONAL	OPERATIONAL

T.R.A.S.H. RADIO GROUP

Other ways to connect to the T.R.A.S.H. system:

Echolink connections should connect to # **375562 W7FED-R**

APCO P25 connections = 442.400 Simplex NAC 293 ([ABQ area only](#))

MotoTrbo (DMR) connections = Use **Brandmeister "GROUP CALL" 3153397**

Click [HERE](#) to listen to TG 3153397
(click PLAYER on the top right after it opens)

"SKYWARN"

now linked to selected T.R.A.S.H. repeaters as a public service

You will hear the "NBC" tone when alerts and warnings come from the NWS

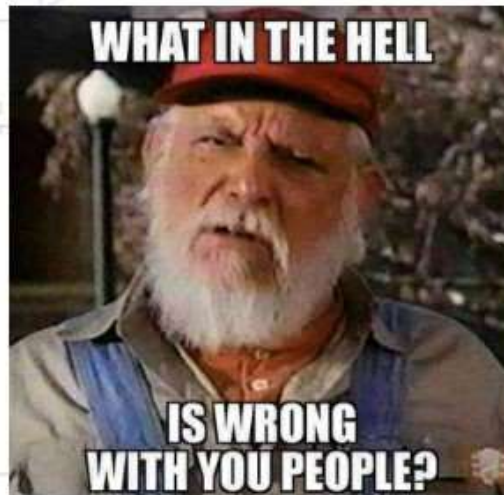
If you hear an alert or warning, please tune to your local weather radio or TV channel for details

T.R.A.S.H. NWS SkywarnPlus alerts are now "regionalized" and alert only for the counties near the repeater

T.R.A.S.H. RADIO GROUP

Many have asked, what does T.R.A.S.H. stand for?, well, now you know!

This Represents A Serious Hobby!



*For additional information contact Neil W7FED, or Mike KB6JYF
(We're good on QRZ)*

T.R.A.S.H. RADIO GROUP



(photo of Sandia Crest, NM)

<https://www.qsl.net/w7fed>