



# DARE COUNTY REPEATER NETWORK TOPOLOGY

OBRA – Outer Banks Repeater Association

### LEGEND

- RF Voice Link (Analog FM)
- UHF Backbone / Interlink (Analog)
- BrandMeister Network (Internet)
- Packet Radio Network (Internet)
- Other Internet / Services

## 1. DARE COUNTY LINKED FM REPEATER NETWORK (Analog FM)

**W4PCN MAMIE**

Output: 146.940 MHz  
Input: 146.340 MHz  
Offset: -600 kHz  
PL Tone: 131.8 Hz  
Location: Mamie

**W4PCN KILL DEVIL HILLS**

Output: 145.110 MHz  
Input: 144.510 MHz  
Offset: -600 kHz  
PL Tone: 131.8 Hz  
Location: Kill Devil Hills

**K4OBX BODIE ISLAND / NAGS HEAD**

Output: 145.290 MHz  
Input: 144.690 MHz  
Offset: -600 kHz  
**PL Tone: 100.0 Hz**  
Location: Nags Head

**K4OBX BUXTON (VHF)**

Output: 145.150 MHz  
Input: 144.550 MHz  
Offset: -600 kHz  
PL Tone: 131.8 Hz  
Location: Buxton

**DARE COUNTY EOC**  
Emergency Operations Center  
Primary Communications Interface

### BRANDMEISTER NETWORK (Internet)

**MAMIE DMR (BrandMeister)**

Output: 147.060 MHz  
Input: 147.660 MHz  
Offset: +600 kHz  
Color Code (CC): 1

Time Slot	Static Talk Groups
TS 1	TG 31337 (OBX)
TS 2	OBRA Local / Regional (Check BM Config for Others)

**BUXTON DMR (BrandMeister)**

Output: 146.625 MHz  
Input: 146.025 MHz  
Offset: -600 kHz  
Color Code (CC): 1

Time Slot	Static Talk Groups
TS 1	TG 31377 (OBX)
TS 2	TG 3137x (See BM Config)

**K4OBX / WR4SC COLUMBIA BACKBONE (UHF)**

Output: 442.725 MHz  
Input: 447.725 MHz  
Offset: +5.0 MHz  
PL Tone: 131.8 Hz  
Location: Columbia

**\* NOTE:**  
Carolina 440 lists Hatteras PL 203.5.  
RepeaterBook shows system PL 131.8.  
Verify with controller programming.

**K4OBX OCRACOKE**

Output: 444.225 MHz  
Input: 449.225 MHz  
Offset: +5.0 MHz  
PL Tone: 131.8 Hz  
Location: Ocracoke

**K4OBX WAVES**

Output: 444.325 MHz  
Input: 449.325 MHz  
Offset: +5.0 MHz  
PL Tone: 131.8 Hz  
Location: Waves

**K4OBX HATTERAS**

Output: 444.725 MHz  
Input: 449.725 MHz  
Offset: +5.0 MHz  
PL Tone: 131.8 Hz  
Location: Hatteras

**K4OBX BUXTON IRLP**

Output: 442.425 MHz  
Input: 447.425 MHz  
Offset: +5.0 MHz  
PL Tone: 100.0 Hz  
IRLP Node: 9214

**K4OBX BUXTON ECHOLINK / ALLSTAR**

Output: 444.925 MHz  
Input: 449.925 MHz  
Offset: +5.0 MHz  
PL Tone: 131.8 Hz  
Location: **Nags Head (AllStar Node)**  
AllStar Node: 47731

**K4OBX BODIE ISLAND (UHF)**

Output: 444.125 MHz  
Input: 449.125 MHz  
Offset: +5.0 MHz  
PL Tone: 100.0 Hz  
Location: Bodie Island

## 2. NC-PRN DMR NETWORK (NCPRN)

**SKYCO DMR (NCPRN)**

Output: 444.9875 MHz  
Input: 449.9875 MHz  
Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

**MAMIE DMR (NCPRN)**

Output: 442.850 MHz  
Input: 447.850 MHz  
Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

**BUXTON DMR (NCPRN)**

Output: 444.0625 MHz  
Input: 449.0625 MHz  
Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

**ENGELHARD DMR (NCPRN)**

Output: 442.4625 MHz  
Input: 447.4625 MHz  
Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

**PACKET RADIO NETWORK**  
(North Carolina Packet Radio Network)  
Statewide Digital Packet Interoperability (IPSC)

### 3. ECHOLINK & ALLSTAR SERVICES

- K4OBX-L ECHOLINK**  
Node: 2014  
Location: Nags Head
- K4OBX-R ECHOLINK**  
Node: 2003  
Location: Buxton
- CAROLINA 440 ALLSTAR**  
Node: 47731  
Location: Nags Head

### 4. INTERNET / NETWORK CONNECTIONS

- BRANDMEISTER NETWORK**  
Global DMR Network
- PACKET RADIO NETWORK (IPSC)**  
NC Statewide DMR System
- WINLINK 2000 (RMS GATEWAYS)**  
Skyco-10, KY4RY-10, N4ACT-10  
VARA FM / Packet Email
- DARE COUNTY EOC NETWORK**  
IP Connectivity for  
Emergency Communications

This diagram reflects data from RepeaterBook.com and other publicly available sources as of May 2025. Frequencies, PL tones, offsets, and talk groups are subject to change. Verify with local repeater trustees.

Last Updated: May 19, 2025



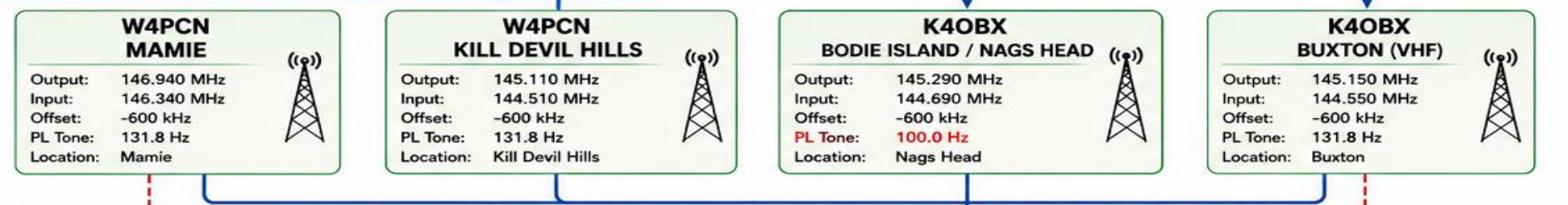
# OBX AREA REPEATER NETWORK TOPOLOGY

## OBRA-FRS Repeater Topology

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Color Code (CC): 1

Time Slot	Static Talk Groups
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#### BUXTON DMR (BrandMeister)

Output: 146.625 MHz  
Input: 146.025 MHz  
Offset: -600 kHz  
Color Code (CC): 1

Time Slot	Static Talk Groups
TS 1	TG 31337 (OBX)
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#### K4OBX / WR4SC COLUMBIA BACKBONE (UHF)

Output: 442.725 MHz  
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Location: Columbia

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Output: 444.925 MHz  
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Location: Nags Head  
AllStar Node: 47731

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Output: 444.125 MHz  
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Location: Bodie Island

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#### SKYCO DMR (NCPRN)

Output: 444.9875 MHz  
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Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

#### MAMIE DMR (NCPRN)

Output: 442.850 MHz  
Input: 447.850 MHz  
Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

#### BUXTON DMR (NCPRN)

Output: 444.0625 MHz  
Input: 449.0625 MHz  
Offset: +5.0 MHz  
Color Code (CC): 1

Time Slot	Use
TS 1	NCPRN Statewide
TS 2	Local / Regional

#### ENGELHARD DMR (NCPRN)

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Offset: +5.0 MHz  
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(North Carolina Packet Radio Network)  
Statewide Digital Packet Interoperability (IPSC)

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Location: Nags Head

##### K4OBX-R ECHOLINK

Node: 2003  
Location: Buxton

##### CAROLINA 440 ALLSTAR

Node: 47731  
Location: Nags Head

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Global DMR Network
- PACKET RADIO NETWORK**  
(IPSC) NC Statewide DMR System
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