

HF NVIS Propagation Forecast

Prepared for Pat Kilroy

Used 26 September 2009 as target date

Times are in local

The 3.5-4.0 MHz amateur band is optimum

Solar Flux used was 70

18 September 2009

John H. Klingelhoefter, WB4LNM

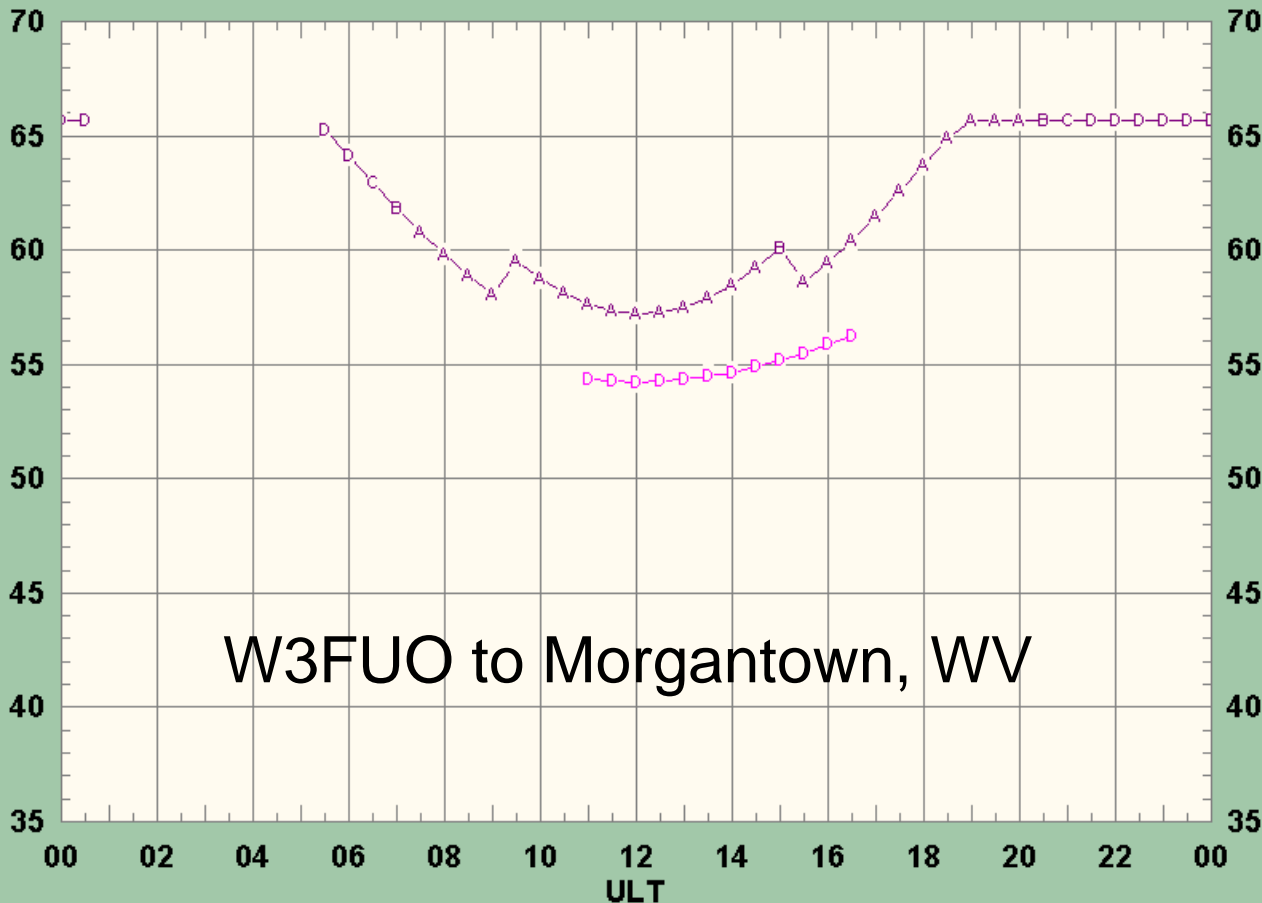
TERMINAL A: 39.00 N 76.90 W W3FUO
TERMINAL B: 39.40 N 79.90 W Morgantown WV
SSN: 9.0 Flux: 70.0 K: Average

Sunrise/Set: 0603/1755 ULT Bearing to B: 280.7 deg
Sunrise/Set: 0615/1807 ULT Bearing to A: 98.8 deg
Path Length: 262 km

SHORT-PATH SIGNAL LEVELS IN dB ABOVE 0.5 uV

- Frequencies**
- 3.6 MHz
 - 7.1 MHz
 - 14.1 MHz
 - 18.1 MHz
 - 21.2 MHz
 - 24.9 MHz
 - 28.3 MHz

- Availabilities**
- A 75-100%
 - B 50-75%
 - C 25-50%
 - D 1-25%



W3FUO to Morgantown, WV

Show Long Path Show Signal-to-Noise Ratios Close

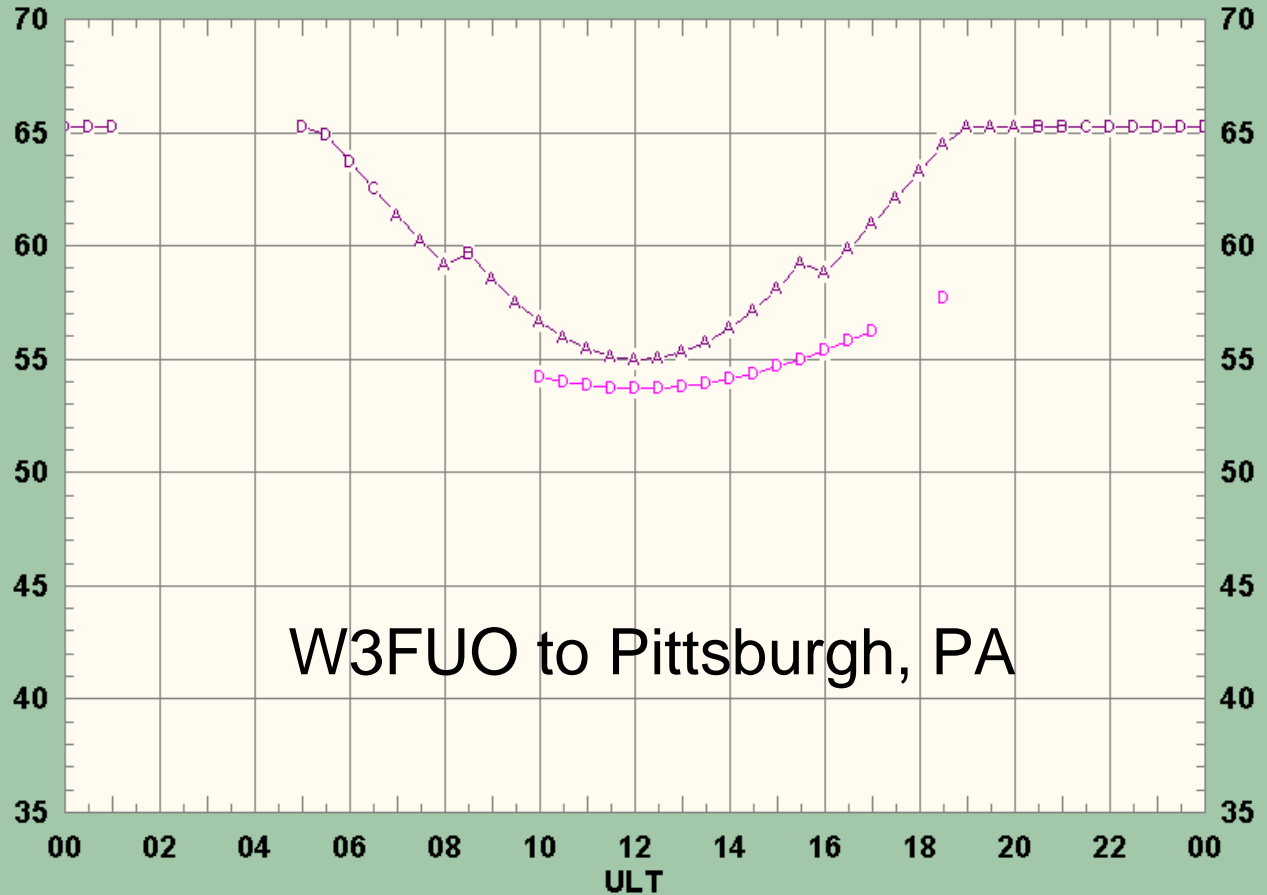
Click a curve to identify its frequency Press F1 for Help

TERMINAL A: 39.00 N 76.90 W W3FUO **Sunrise/Set:** 0603/1755 ULT **Bearing to B:** 302.4 deg
TERMINAL B: 40.50 N 80.10 W PittsPA **Sunrise/Set:** 0616/1807 ULT **Bearing to A:** 120.3 deg
SSN: 9.0 **Flux:** 70.0 **K:** Average **Path Length:** 320 km

SHORT-PATH SIGNAL LEVELS IN dB ABOVE 0.5 uV

- Frequencies**
- 3.6 MHz
 - 7.1 MHz
 - 14.1 MHz
 - 18.1 MHz
 - 21.2 MHz
 - 24.9 MHz
 - 28.3 MHz

- Availabilities**
- A — 75-100%
 - B — 50-75%
 - C — 25-50%
 - D — 1-25%



W3FUO to Pittsburgh, PA

Click a curve to identify its frequency

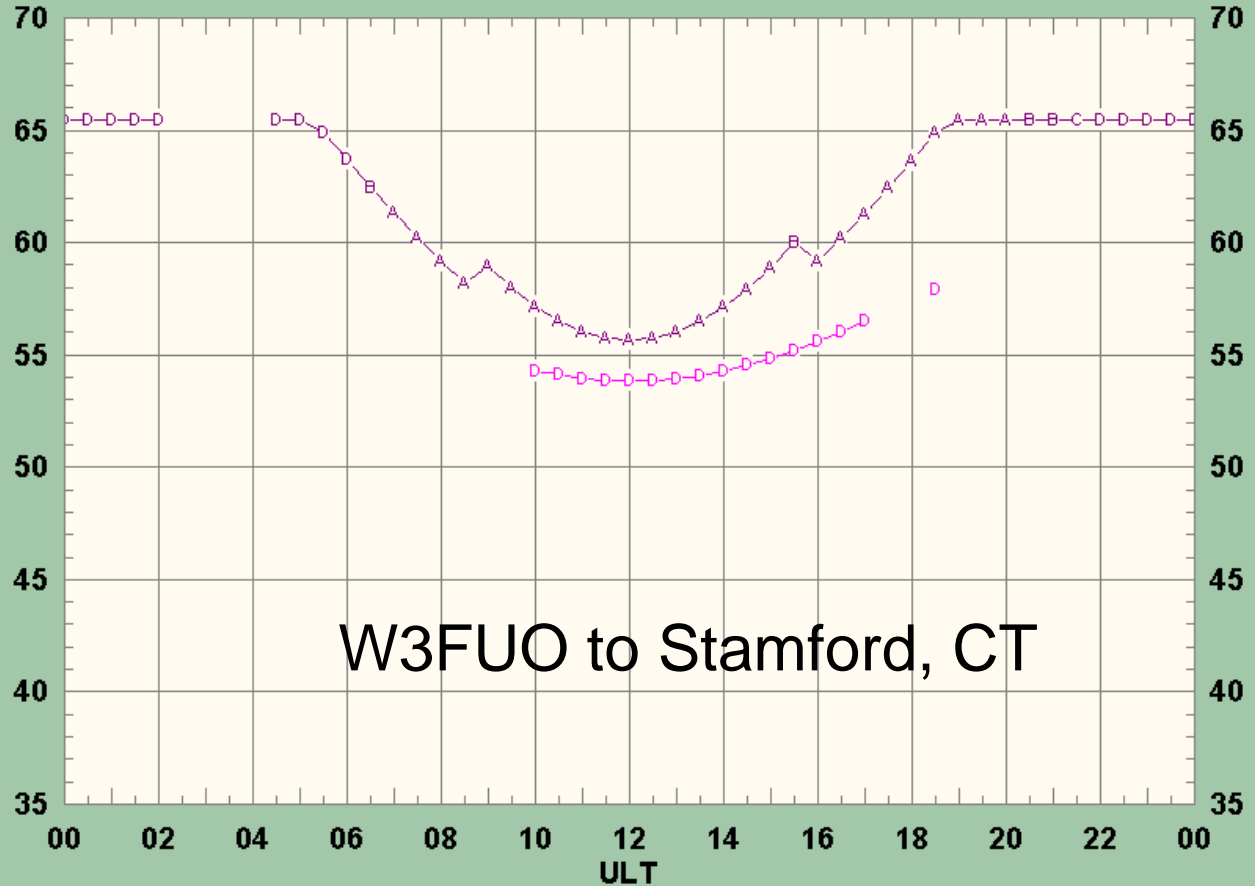
Press F1 for Help

TERMINAL A: 39.00 N 76.90 W W3FUO Sunrise/Set: 0603/1755 ULT Bearing to B: 192.2 deg
TERMINAL B: 36.40 N 77.60 W StamfordCT Sunrise/Set: 0606/1758 ULT Bearing to A: 11.8 deg
SSN: 9.0 Flux: 70.0 K: Average Path Length: 296 km

SHORT-PATH SIGNAL LEVELS IN dB ABOVE 0.5 uV

- Frequencies**
- 3.6 MHz
 - 7.1 MHz
 - 14.1 MHz
 - 18.1 MHz
 - 21.2 MHz
 - 24.9 MHz
 - 28.3 MHz

- Availabilities**
- A — 75-100%
 - B — 50-75%
 - C — 25-50%
 - D — 1-25%



W3FUO to Stamford, CT

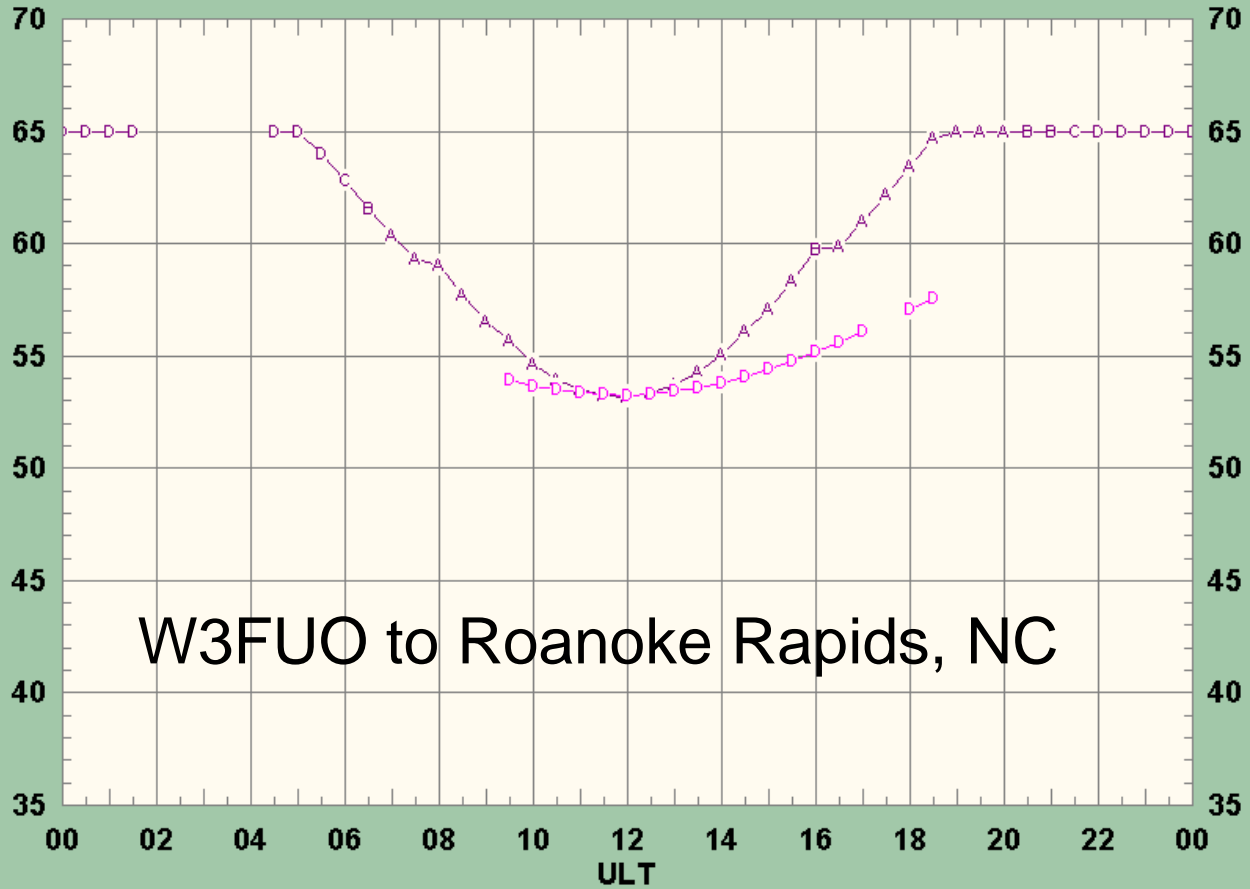
Click a curve to identify its frequency Press F1 for Help

TERMINAL A: 39.00 N 76.90 W W3FUO **Sunrise/Set:** 0603/1755 ULT **Bearing to B:** 51.4 deg
TERMINAL B: 41.00 N 73.50 W RoanokeR VA **Sunrise/Set:** 0550/1741 ULT **Bearing to A:** 233.6 deg
SSN: 9.0 **Flux:** 70.0 **K:** Average **Path Length:** 365 km

SHORT-PATH SIGNAL LEVELS IN dB ABOVE 0.5 uV

- Frequencies**
- 3.6 MHz
 - 7.1 MHz
 - 14.1 MHz
 - 18.1 MHz
 - 21.2 MHz
 - 24.9 MHz
 - 28.3 MHz

- Availabilities**
- A — 75-100%
 - B — 50-75%
 - C — 25-50%
 - D — 1-25%



W3FUO to Roanoke Rapids, NC

Click a curve to identify its frequency

Press F1 for Help