

# ***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

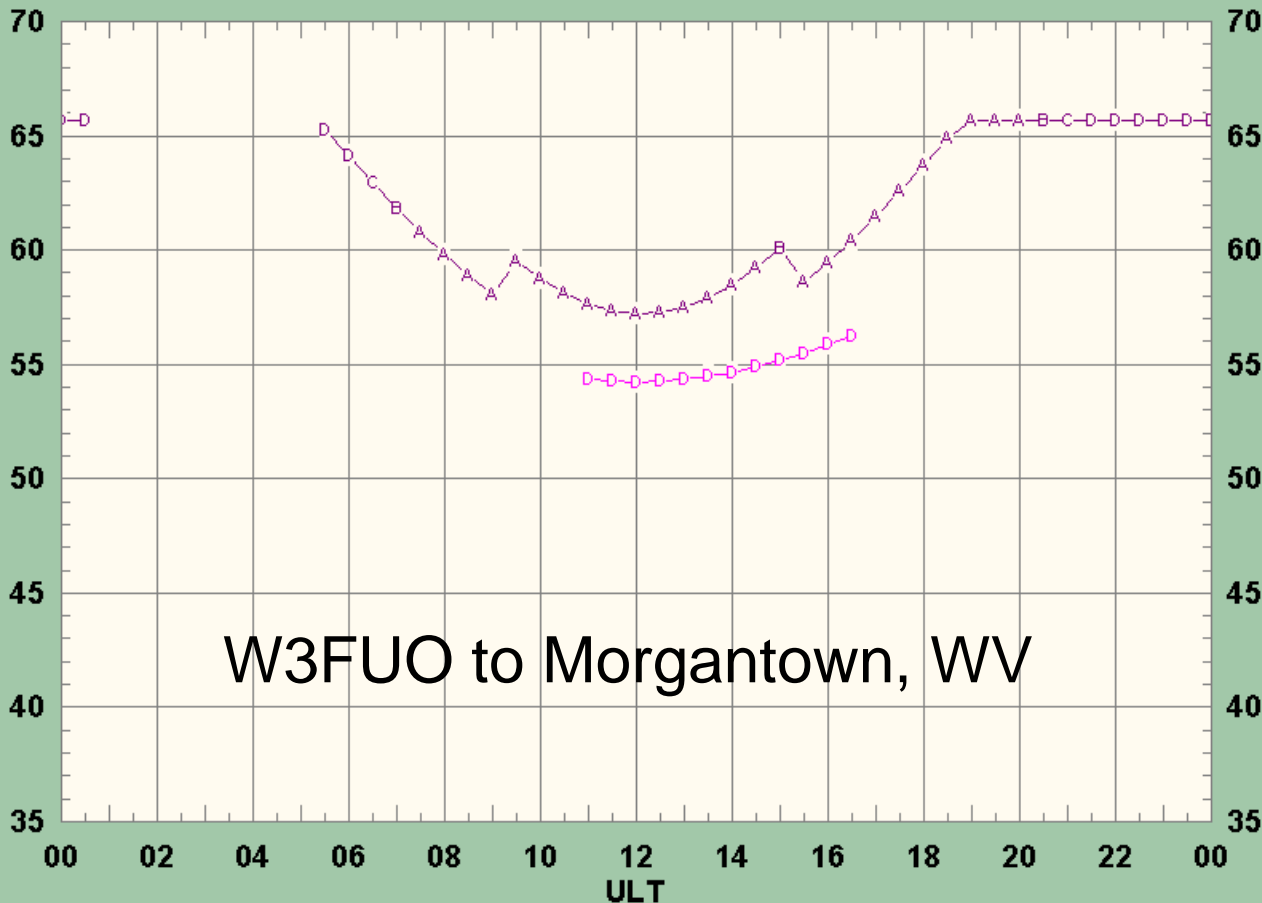
TERMINAL A: 39.00 N 76.90 W W3FUO  
 TERMINAL B: 39.40 N 79.90 W Morgantown WV  
 SSN: 9.0 Flux: 70.0 K: Average

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

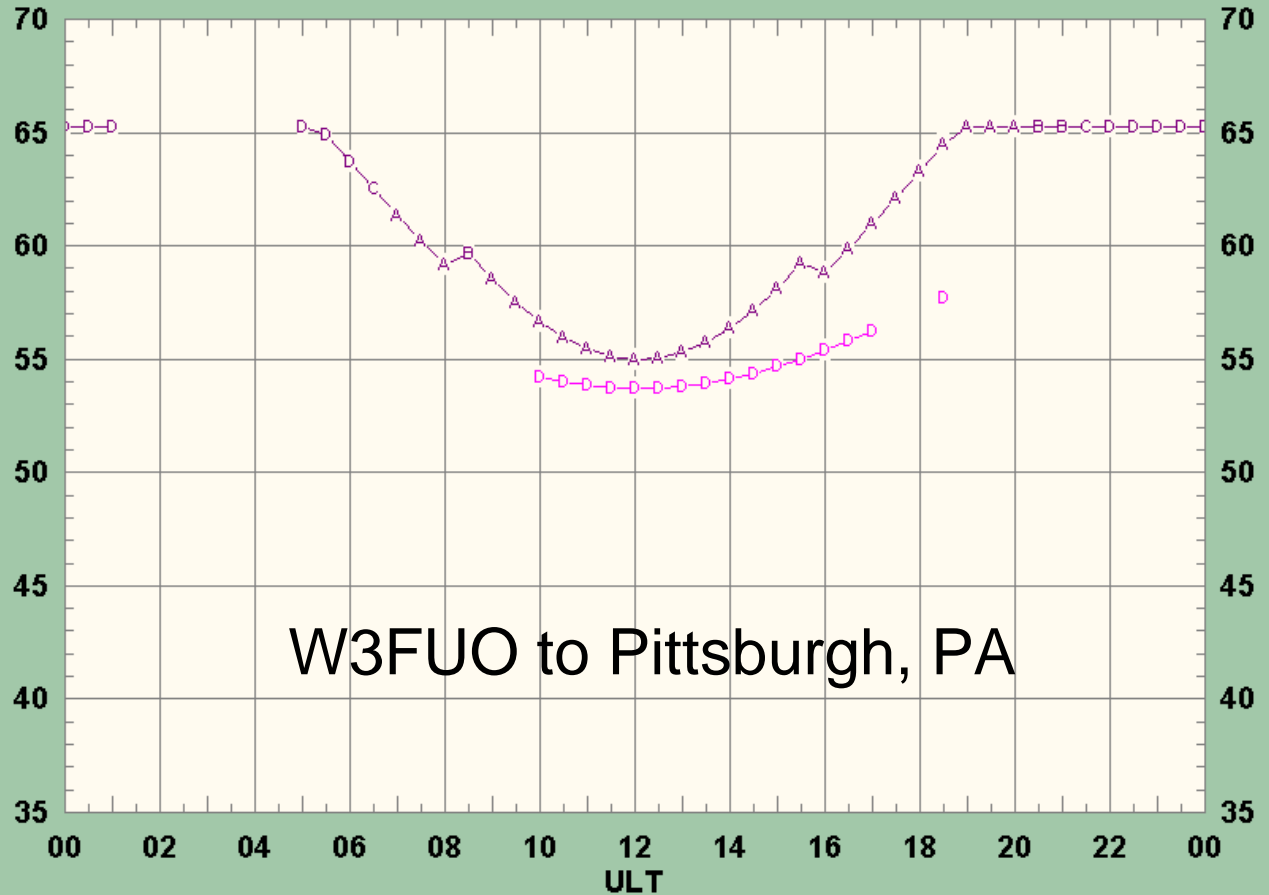
Click a curve to identify its frequency    Press F1 for Help

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

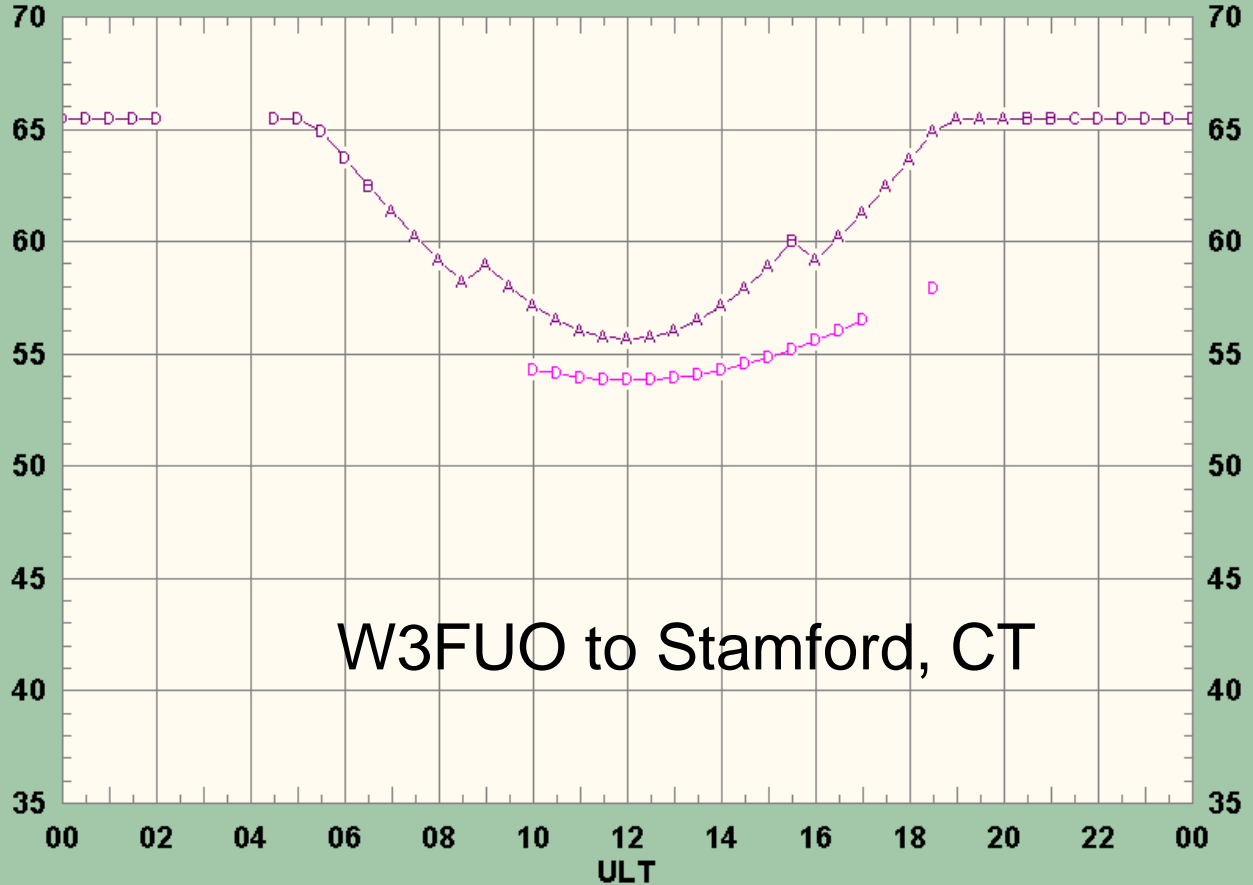
Press F1 for Help

**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%



Click a curve to identify its frequency

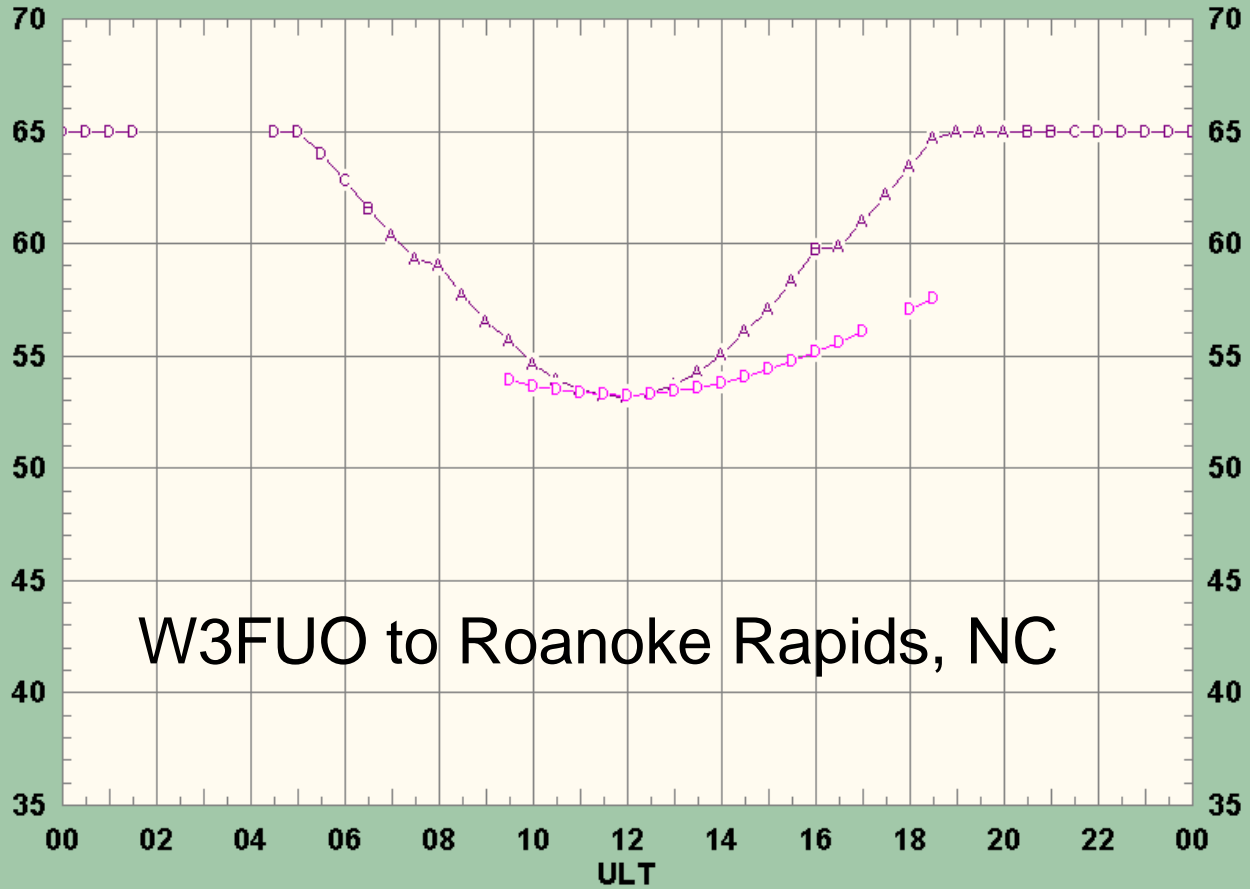
Press F1 for Help

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%



Click a curve to identify its frequency Press F1 for Help