

WMEX-LP PROPOSED MINOR CHANGE – AUGUST 8, 2018

Determination of HAAT:

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude 43° 17' 7" North
Longitude 70° 56' 29" West (NAD 27)

These coordinates convert to NAD 83 coordinates of
43° 17' 07.30", North, 70° 56' 27.22" West (NAD 83).

Height of antenna radiation center above mean sea level: 151 meters AMSL

Number of Evenly Spaced Radials = 360 0° is referenced to True North

Results

Calculated HAAT = 57 meters

Antenna Height Above Average Terrain calculated
using 1 km GLOBE terrain data

Determination of ERP:

Select Contour Type: F(50,50) Service Contour -- FM and NTSC (analog) TV
F(50,10) Interfering Contour
F(50,90) Digital TV Service Contour

Select Channel Range:
(not TV Virtual Channel) FM Radio or TV Transmit Channels 2-6
TV Transmit Channels 7-13
TV Transmit Channels 14-69

Find This: Field Strength, given a Distance (in km)
Distance, Given a Field Strength (in dBu)
FM ERP, given Distance and Field Strength [F(50,50) Service Contour]

.027
ERP (kW)

Distance (km)

57
HAAT (meters)

60
Field (dBu)

Find Result Clear Form

Results:

Calculated Distance = 5.639 km