

Appendix A

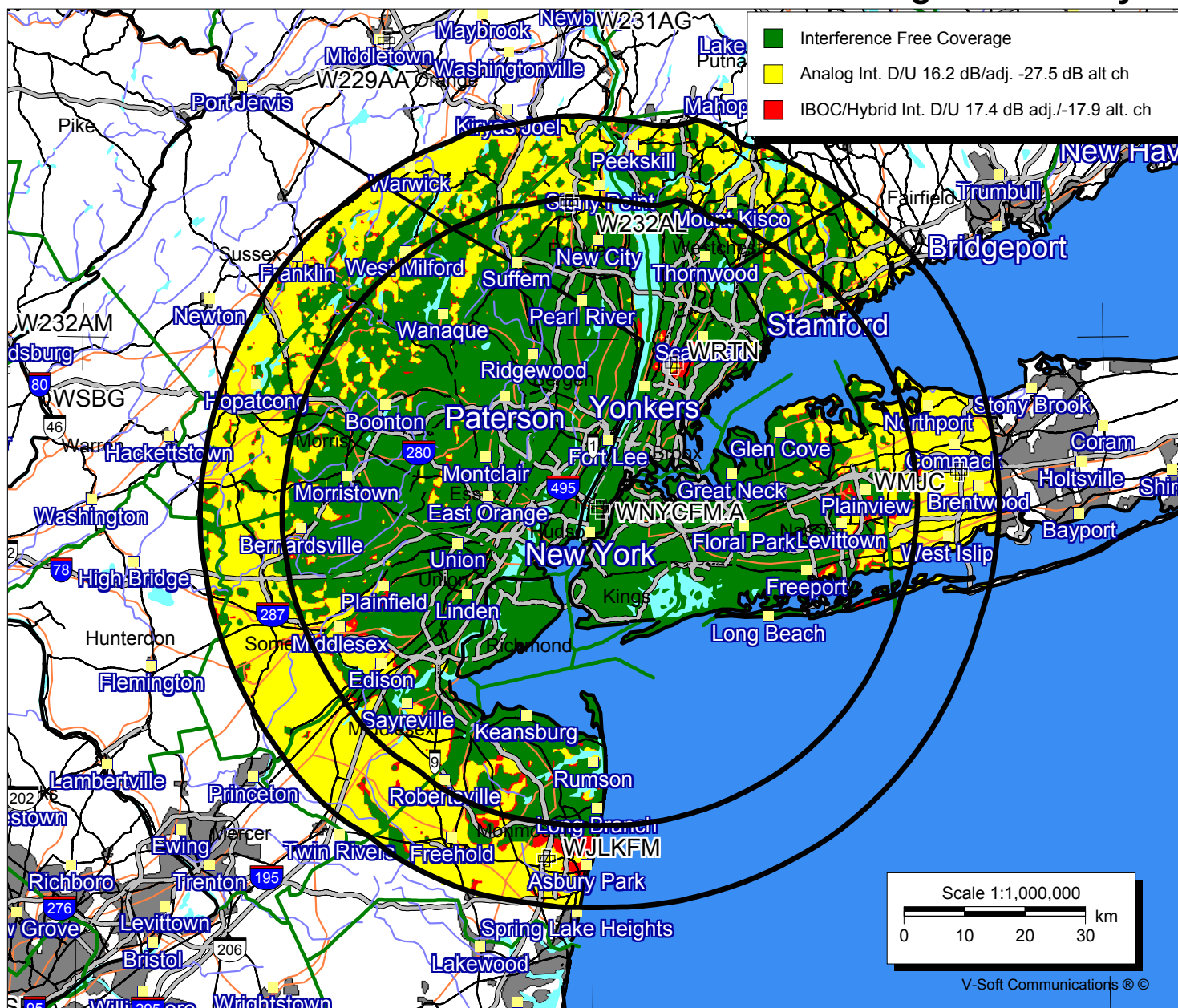
WNYC-FM Subcarrier Interference - Analog vs. IBOC Hybrid

WNYCFM, Ch.230, 93.9 MHz

Contours = 60 & 54 dBu
 BPH20011120AAW
 Latitude: 40-44-54 N
 Longitude: 073-59-10 W
 Power: 6.00 kW
 EIRP Used: 9.84 kW
 AMSL Height: 429.0 m
 HAAT: 415 m
 Elevation: 13.39 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0010
 Dielec Const: 15.0
 Refractivity: 312.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 16,841,430
 area = 13,612.4 sq. km
 Terrain Blockage loss
 pop. = 63,980
 area = 17.5 sq. km

25 dB WQP SNR
 Analog Int. loss
 pop. = 1,984,697
 area = 4,570.4 sq. km
 Hybrid IBOC Int. loss
 pop. = 255,676
 area = 510.1 sq. km
 Int. Free Pop. % = 1.76%



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KCSN Subcarrier Interference - Analog vs. IBOC Hybrid

KCSN, CH 203, 88.5 MHz

Contours = 60 & 54 dBu
 BLED20000127AAN
 Latitude: 34-19-11 N
 Longitude: 118-33-14 W
 Power: 0.32 kW
 AMSL Height: 943.0 m
 HAAT: 501
 Elevation: 836.75 m
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0080
 Dielec Const: 15.0
 Refractivity: 315.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

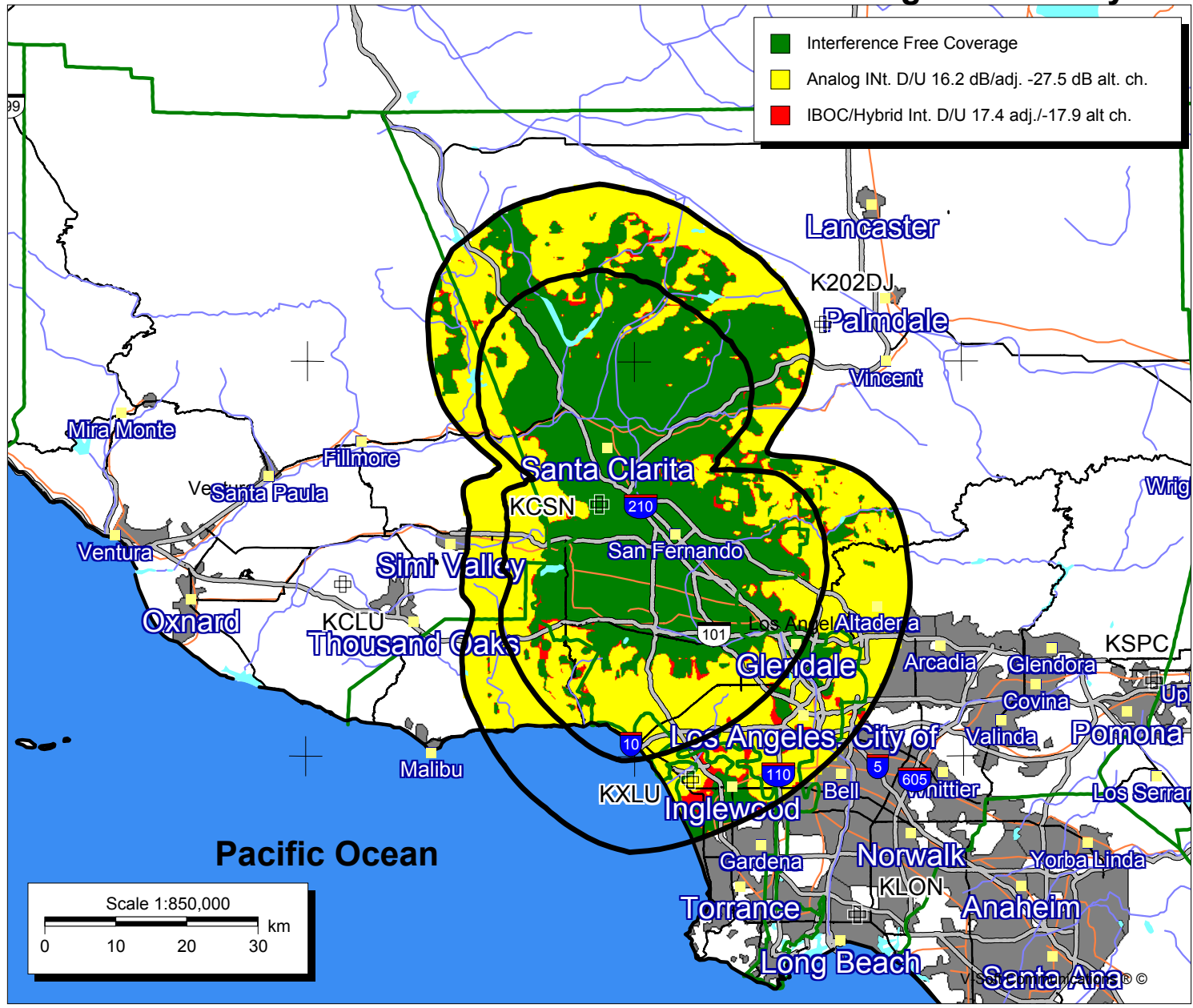
54-dBu Coverage Area:

pop. = 4,948,575
 area = 4,543.7 sq. km
 Terrain Blockage loss
 pop. = 21,733
 area = 27.2 sq. km

25 dB WQP SNR

Analog Int. loss
 pop. = 2,423,291
 area = 2,486.5 sq km
 Hybrid IBOC Int. loss
 pop. = 204,256
 area = 124 sq km
 Int. Free Pop. % = 8.2%

■	Interference Free Coverage
■	Analog Int. D/U 16.2 dB/adj. -27.5 dB alt. ch.
■	IBOC/Hybrid Int. D/U 17.4 adj./-17.9 alt ch.

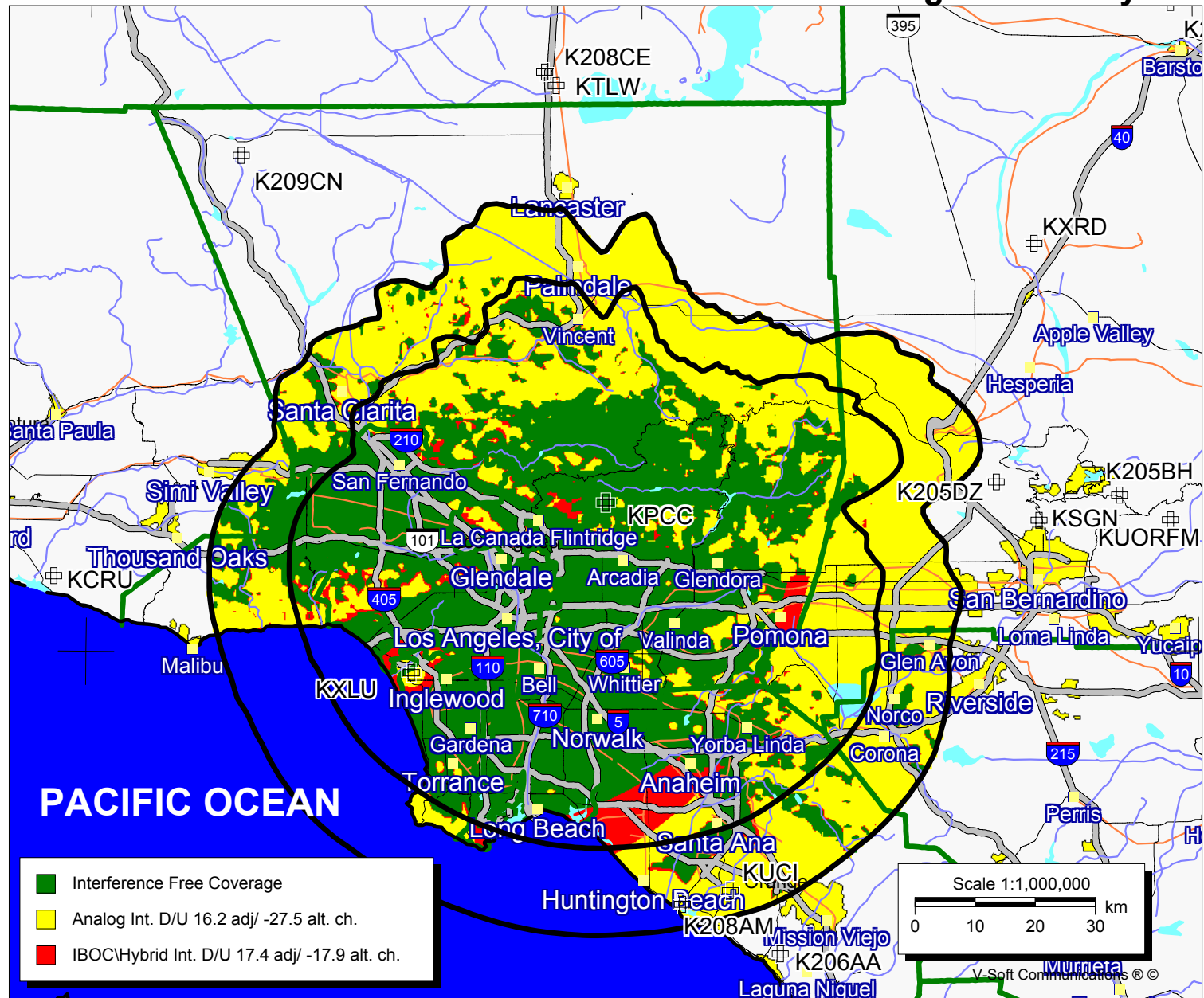


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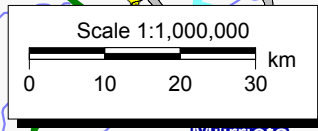
KPCC - Subcarrier Interference - Analog vs IBOC Hybrid

KPCC, CH 207, 89.3 MHz
 Contours= 60 & 54 dBu
 BLED19880708KB
 Latitude: 34-13-35 N
 Longitude: 118-03-58 W
 Power: 0.60 kW
 AMSL Height: 1783.0 m
 KAAT = 891 m
 Elevation: 1672.18 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0080
 Dielec Const: 8.0
 Refractivity: 315.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 12,670,407
 area = 11,431.3 sq. km
 Terrain Blockage loss
 pop. = 162,903
 area = 533.8 sq. km
 25 dB WQP SNR
 Analog Int. loss
 pop. = 2,441,731
 area = 5,846 sq. km
 Hybrid IBOC Int. loss
 pop. = 858,758
 area = 647.5 sq. km
 Int Free Pop. %= 8.48 %



- Interference Free Coverage
- Analog Int. D/U 16.2 adj/ -27.5 alt. ch.
- IBOC/Hybrid Int. D/U 17.4 adj/ -17.9 alt. ch.



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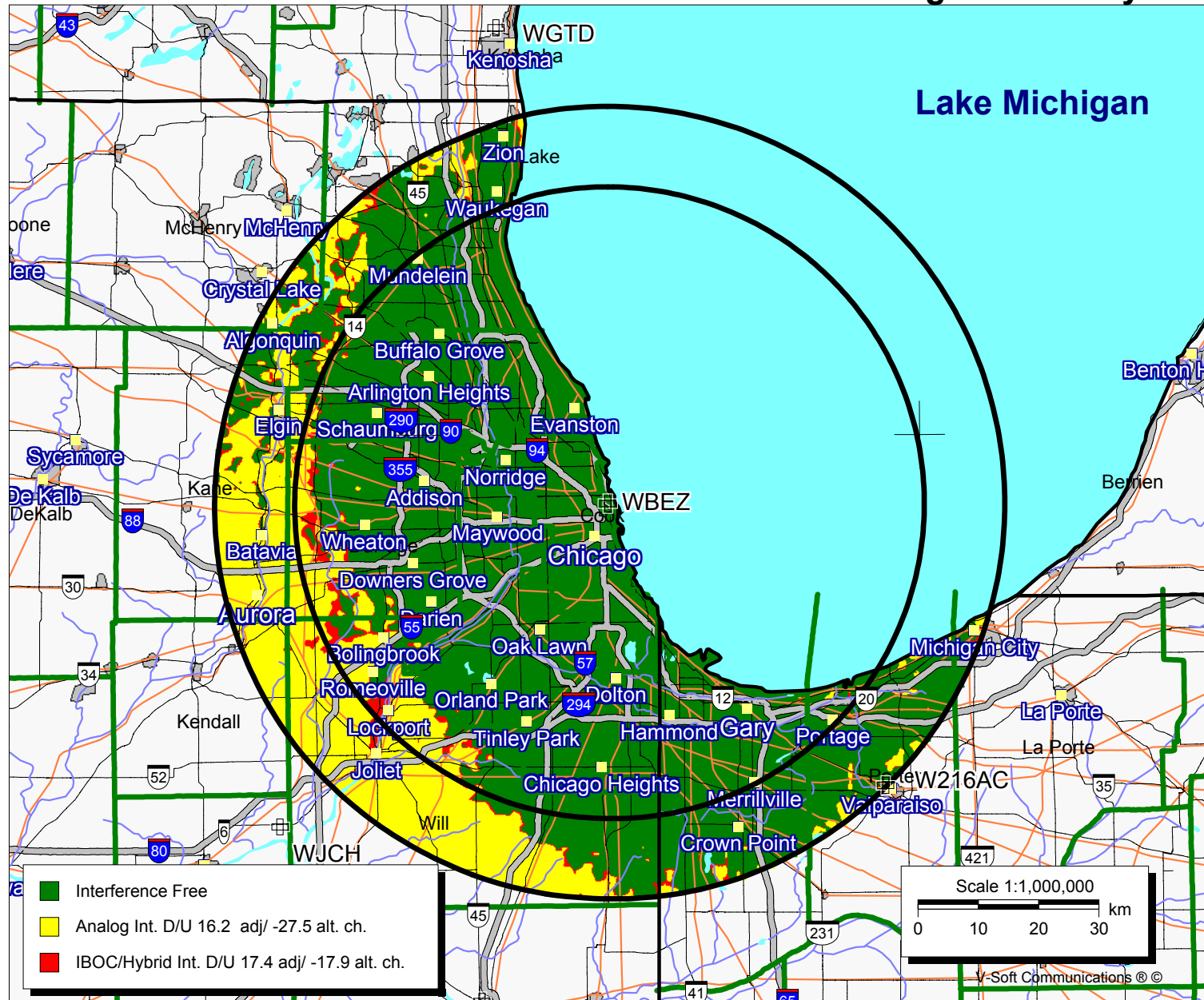
WBEZ - Subcarrier Interference - Analog vs IBOC Hybrid

WBEZ, CH 218, 91.5 MHz

Contours = 54 & 60 dBu
 BLED19850628KL
 Latitude: 41-53-56 N
 Longitude: 087-37-23 W
 Power: 8.30 kW
 AMSL Height: 539.0 m
 HAAT = 360 m
 Elevation: 177.21 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.008
 Dielec Const: 8.0
 Refractivity: 312.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 8,334,373
 area = 13,480.6 sq. km
 Terrain Blockage loss
 pop. = 1,913
 area = 0.01 sq. km

25 dB WQP SNR
 Analog Int. loss
 pop. = 872,746
 area = 2,980.9 sq. km
 Hybrid IBOC Int. loss
 pop. = 127,647
 area = 420 sq. km
 Int Free Pop. % = 1.71%



KALW Subcarrier Interference - Analog vs IBOC Hybrid

KALW, Ch 219, 91.7 MHz

Contours= 60 & 54 dBu

BLED1644

Latitude: 37-45-17 N

Longitude: 122-26-44 W

Power: 1.90 kW

AMSL Height: 310.0 m

HAAT=280 m

Elevation: 222.97 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: Longley/Rice

Climate: Cont temperate

Conductivity: 0.0300

Dielec Const: 30.0

Refractivity: 315.0

Receiver Ht AG: 10.0 m

Receiver Gain: 0 dB

Time Variability: 50.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

25 dB WQP SNR

54-dBu Coverage Area:

pop. = 3,791,451

area = 6,727.5 sq. km

Terrain Blockage loss

pop. = 8,987

area = 1.9 sq. km

Analog Int. loss

pop. = 1,489,312

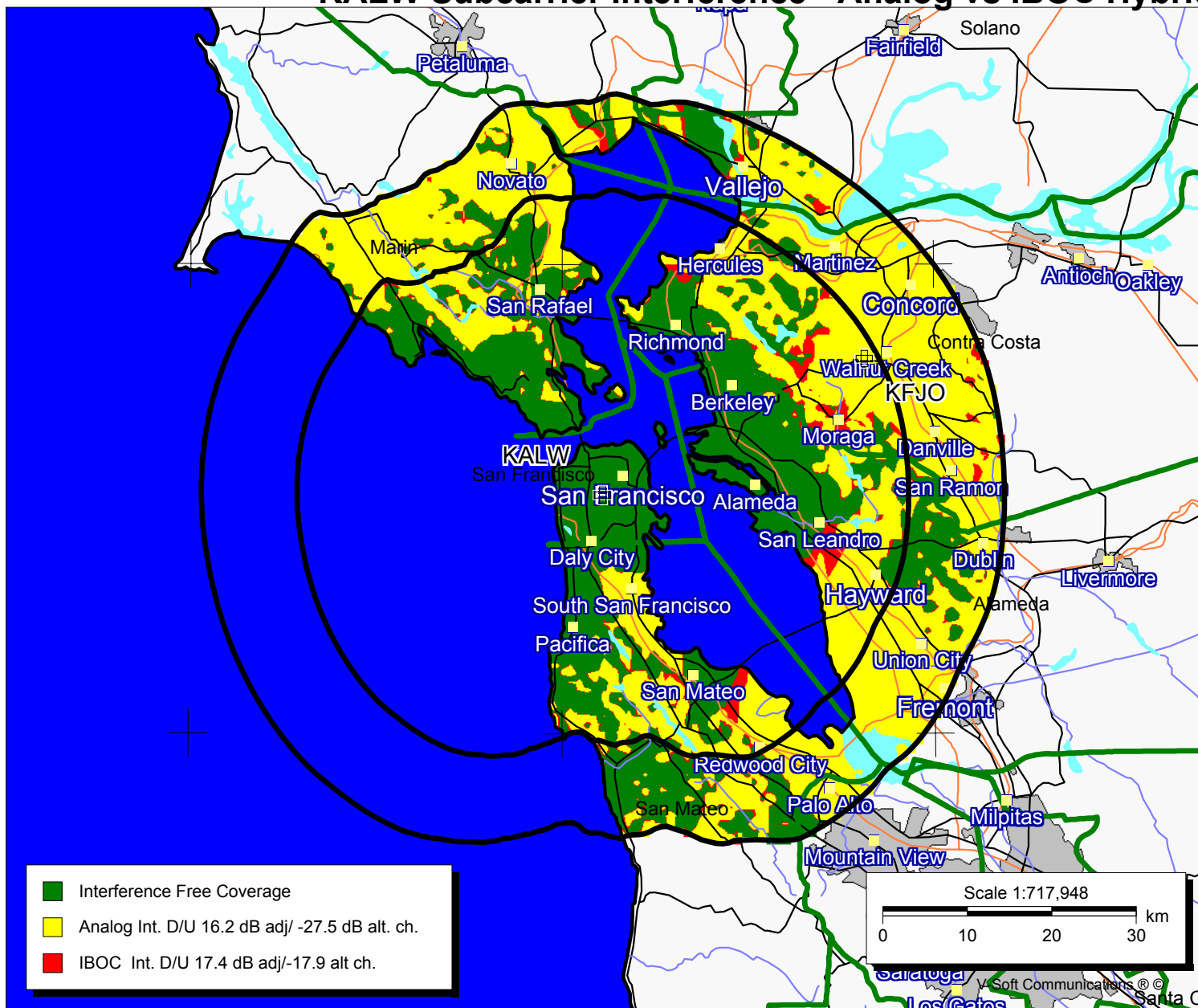
area = 2,907.2 sq. km

Hybrid IBOC Int. loss

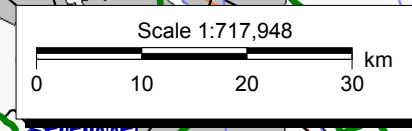
pop. = 142,077

area = 260.7 sq. km

Int Free Pop. % =6.17 %



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KERA Subcarrier Interference - Analog vs IBOC Hybrid

KERA, CH 211, 90.1 MHz

Contours = 60 & 54 dBu

BLED1280

Latitude: 32-34-43 N

Longitude: 096-57-12 W

Power: 100.00 kW

AMSL Height: 581.0 m

HAAT= 384 m

Elevation: 242.83 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: Longley/Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0

Receiver Ht AG: 5.0 m

Receiver Gain: 0 dB

Time Variability: 50.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

54-dBu Coverage Area:

pop. = 5,223,979

area = 26,716 sq. km

Terrain Blockage loss

pop. = 4,084

area = 2.1 sq. km

25 dB WQP SNR

Analog Int. loss

pop. = 1,247,915

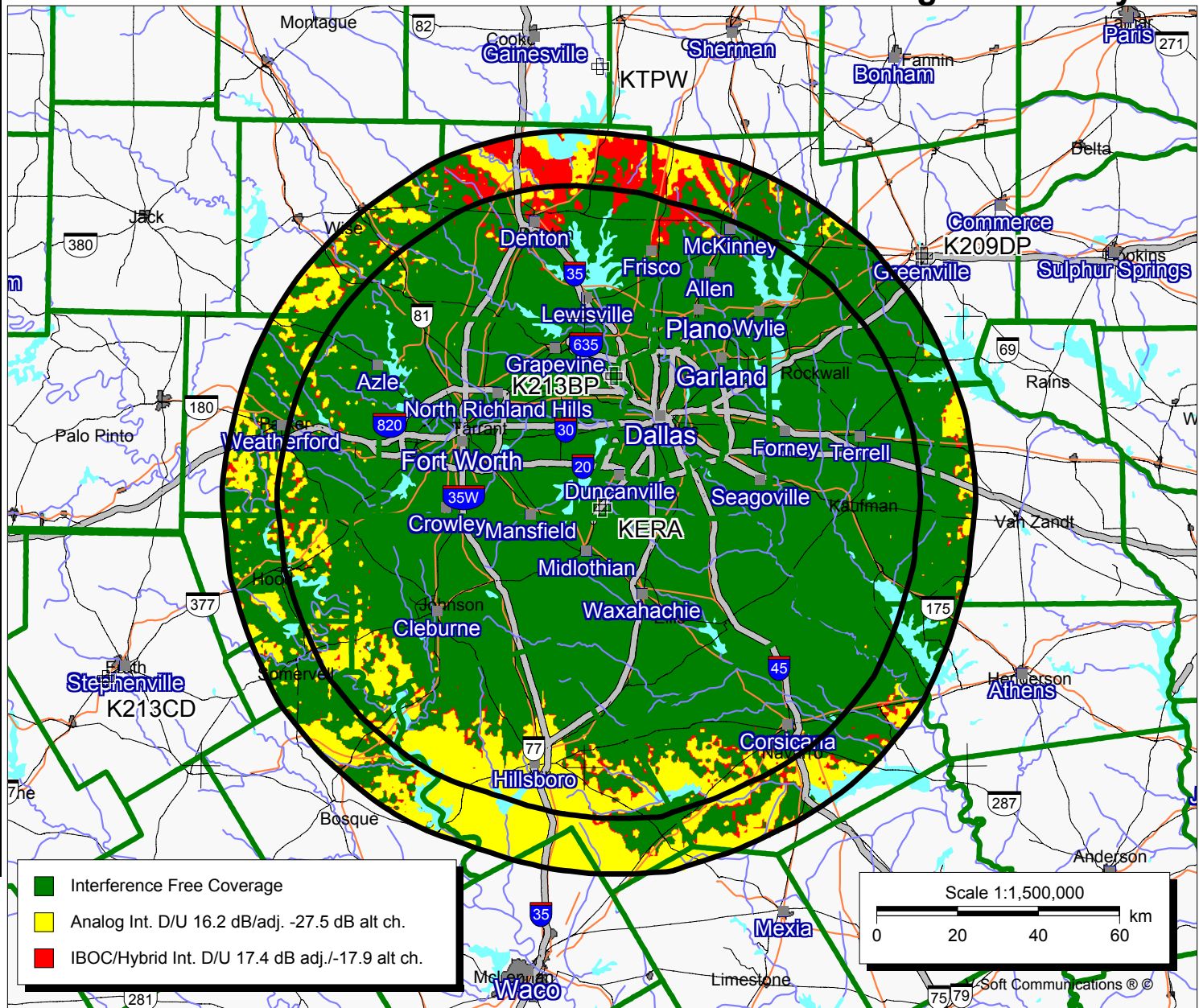
area = 4,217.1 sq. km

Hybrid IBOC Int. loss

pop. = 51,895

area = 1,010.2 sq. km

Int Free Pop. % = 1.13 %



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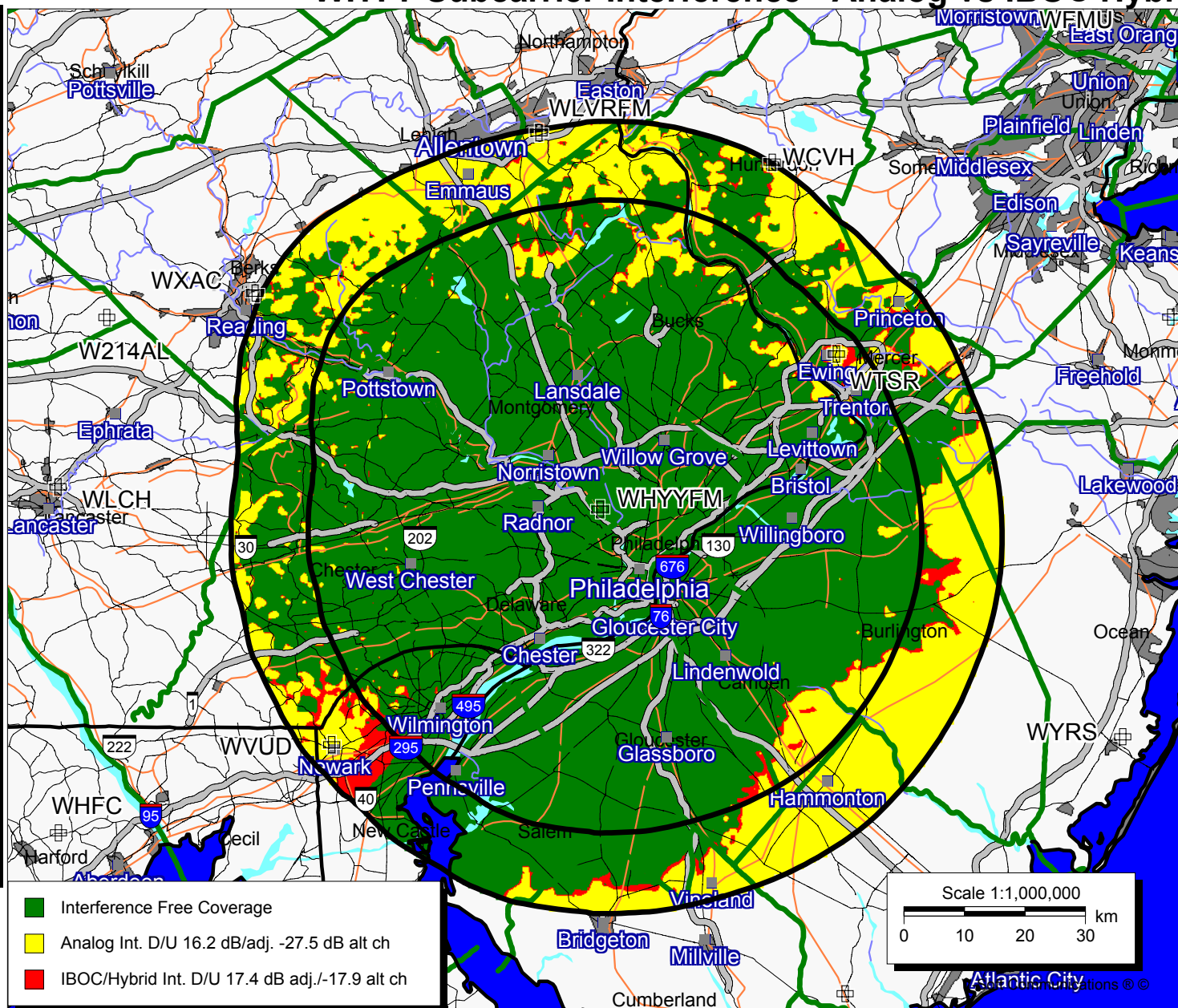
WHYY Subcarrier Interference - Analog vs IBOC Hybrid

WHYYFM, CH 215, 90.9 MHz

Contours = 60 & 54 dBu
 BLED19830722AD
 Latitude: 40-02-30 N
 Longitude: 075-14-24 W
 Power: 13.50 kW
 AMSL Height: 347.0 m
 Elevation: 55.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0050
 Dielec Const: 15.0
 Refractivity: 311.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 6,224,057
 area = 13,137.3sq. km
 Terrain Blockage loss
 pop. = 61,129
 area = 31.4 sq. km

25 dB WQP SNR
 Analog Int. loss
 pop. = 810,704
 area = 3,228.1 sq. km
 Hybrid IBOC Int. loss
 pop. = 128,410
 area = 383 sq. km
 Int Free Pop. % = 2.37%

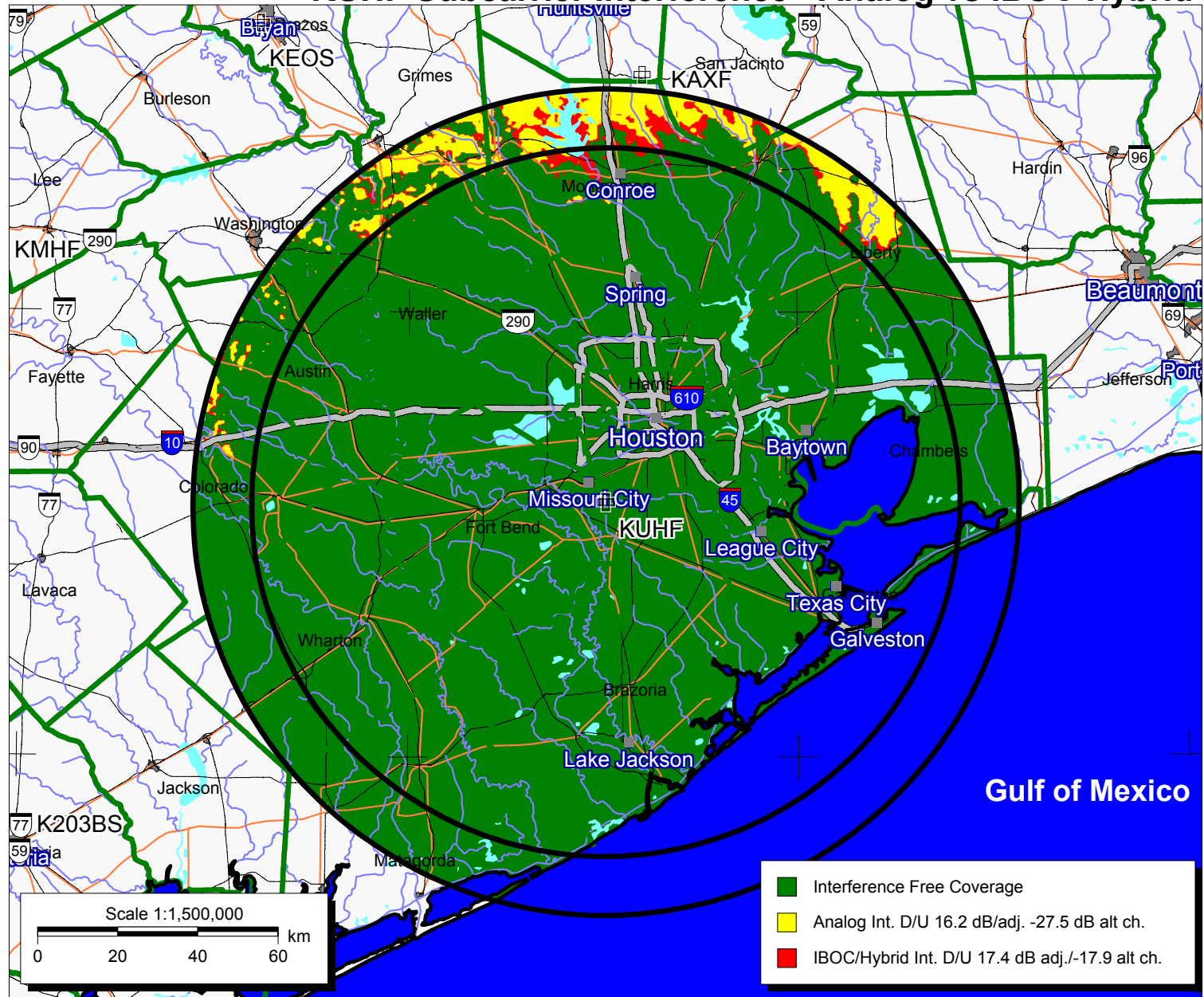


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KUHF Subcarrier Interference - Analog vs IBOC Hybrid

KUHF, CH 204, 89.7 MHz
 Contours = 54 & 60 dBu
 BLED19990810KA
 Latitude: 29-34-27 N
 Longitude: 095-29-37 W
 Power: 100.00 kW
 AMSL Height: 544.0 m
 HAAT = 524 m
 Elevation: 24.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0050
 Dielec Const: 15.0
 Refractivity: 315.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 4,771,581
 area = 33,244.4 sq. km
 Terrain Blockage loss
 pop. = 478
 area = 0.01 sq. km
 25 dB WQP SNR
 Analog Int. loss
 pop. = 28,926
 area = 1,238.4sq. km
 Hybrid IBOC Int. loss
 pop. = 25,128
 area = 439.0 sq. km
 Int Free Pop. % = 0.53 %



- Interference Free Coverage
- Analog Int. D/U 16.2 dB/adj. -27.5 dB alt ch.
- IBOC/Hybrid Int. D/U 17.4 dB adj./-17.9 alt ch.

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Scale 1:1,500,000

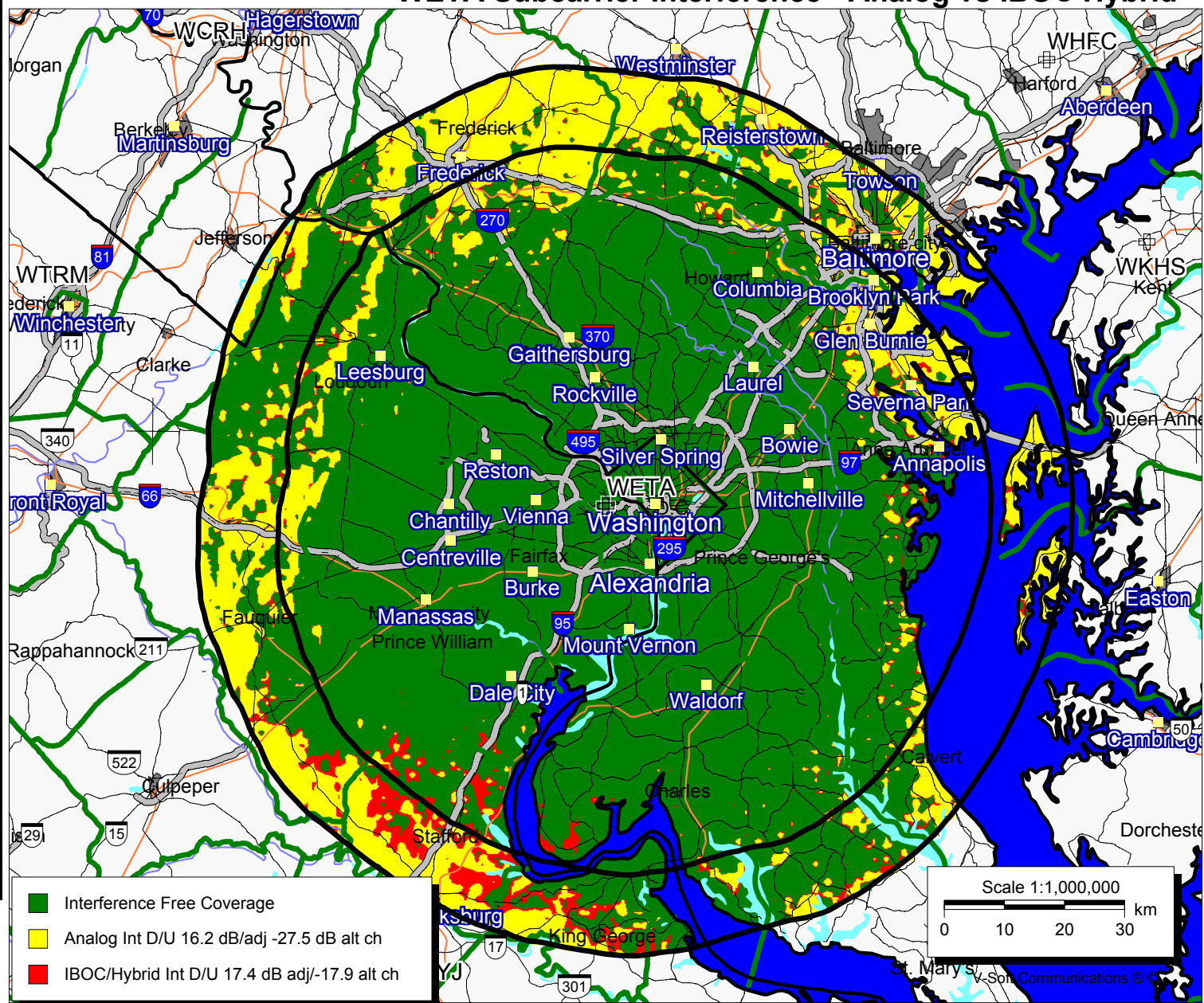
WETA Subcarrier Interference - Analog vs IBOC Hybrid

WETA, CH 215, 90.9 MHz

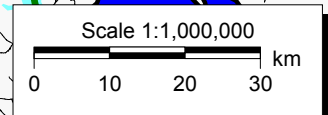
Contours = 54 and 60 dBu
 BMLED19900315KB
 Latitude: 38-53-30 N
 Longitude: 077-07-55 W
 Power: 75.00 kW
 AMSL Height: 252.0 m
 HAAT = 186 m
 Elevation: 121.41 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0040
 Dielec Const: 4.0
 Refractivity: 311.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 6,481,338
 area = 16,684.6 sq. km
 Terrain Blockage loss
 pop. = 57,732
 area = 41.8 sq. km

25 dB WQP SNR
 Analog Int. loss
 pop. = 1,182,367
 area = 4,214.7 sq. km
 Hybrid IBOC Int. loss
 pop. = 122,621
 area = 630.4 sq. km
 Int Free Pop. % = 2.31%



- Interference Free Coverage
- Analog Int D/U 16.2 dB/adj -27.5 dB alt ch
- IBOC/Hybrid Int D/U 17.4 dB adj/-17.9 alt ch



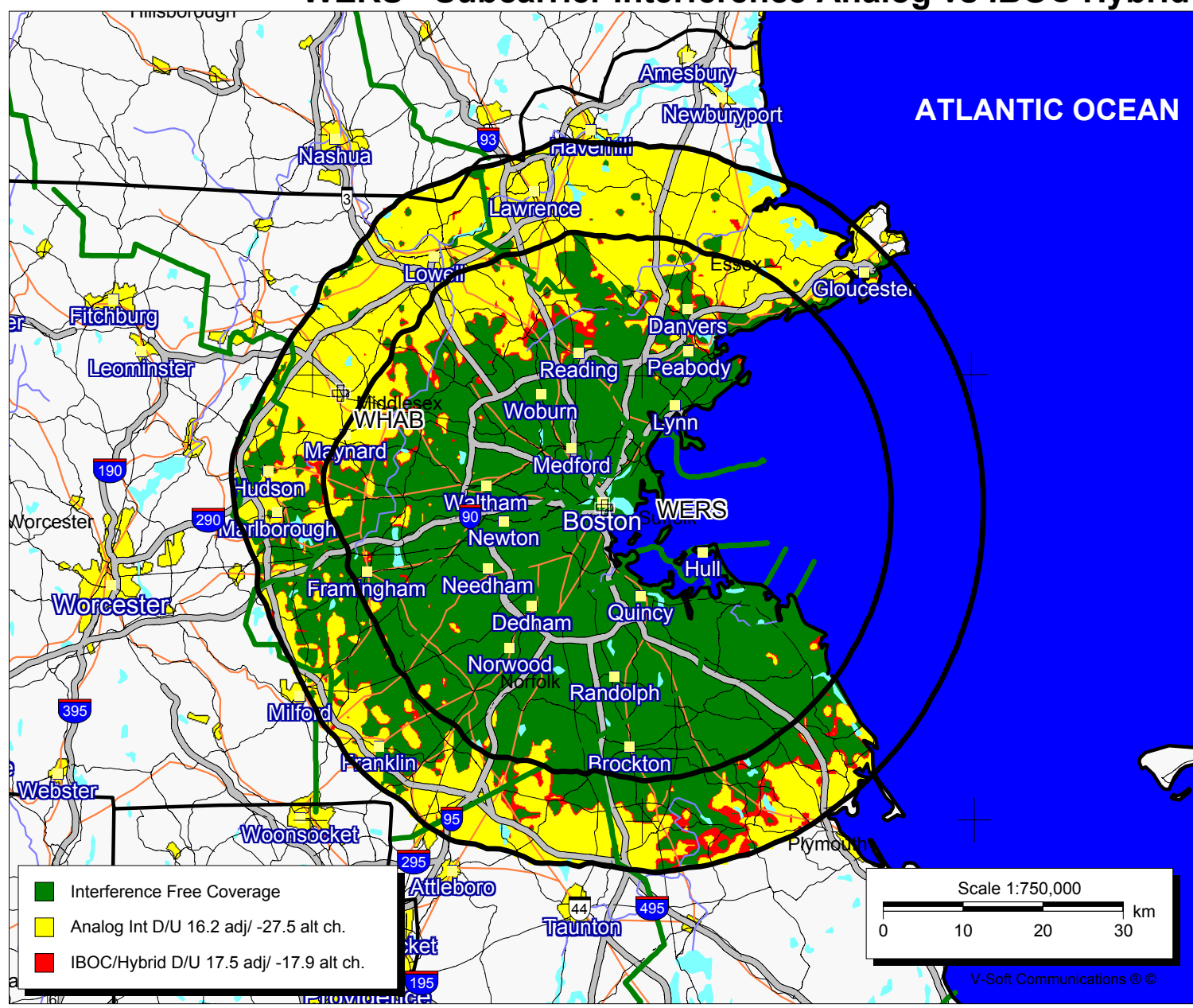
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WERS - Subcarrier Interference Analog vs IBOC Hybrid

WERS, CH 205, 88.9 MHz
 Contours = 60 & 54 dBu
 BLED19900706KB
 Latitude: 42-21-08 N
 Longitude: 071-03-25 W
 Power: 4.00 kW
 AMSL Height: 203.0 m
 HAAT = 186 m
 Elevation: 2.78 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0020
 Dielec Const: 2.0
 Refractivity: 312.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 3,739,332
 area = 6,614.8 sq. km
 Terrain Blockage loss
 pop. = 6,224
 area = 0.9 sq. km

25 dB WQP SNR:
 Analog Int. loss
 pop. = 777,946
 area = 2,690.5 sq. km
 Hybrid IBOC Int. loss
 pop. = 80,692
 area = 347.3 sq. km
 Int Free Pop. % = 2.72%



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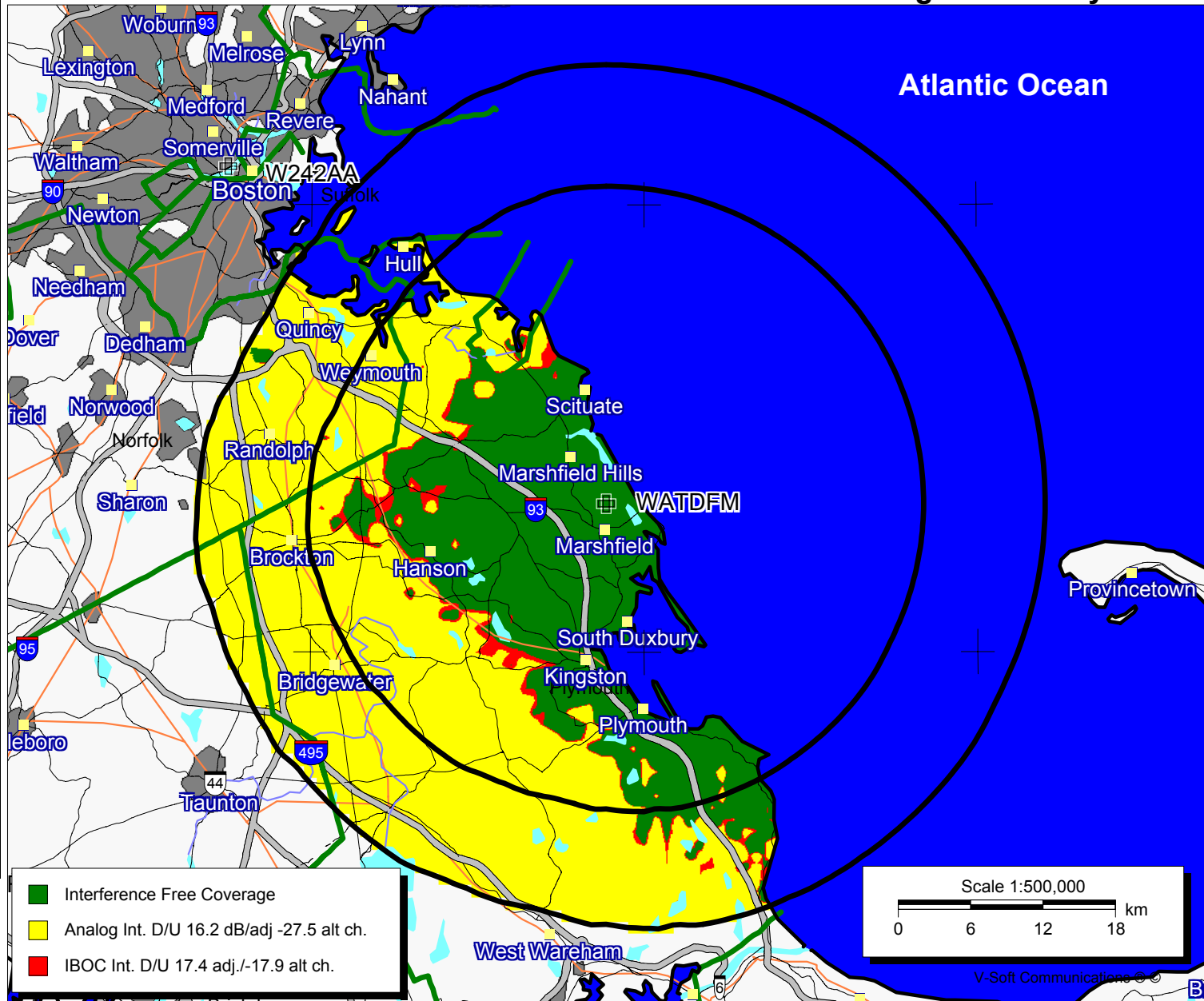
WATDFM - Subcarrier Interference - Analog vs IBOC Hybrid

WATDFM CH 240 95.9 MHz

Contours = 54 & 60 dBu
 BLH19990305KC
 Latitude: 42-06-39 N
 Longitude: 070-42-17 W
 Power: 1.60 kW
 AMSL Height: 166.0 m
 HAAT: 143 m
 Elevation: 30.12 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0020
 Dielec Const: 2.0
 Refractivity: 312.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:

pop. = 680,412
 area = 3,861.4 sq. km
 Terrain Blockage loss
 pop. = 1,130
 area = 0.01 sq. km
 25 dB WQP SNR
 Analog Int. loss
 pop. = 505,637
 area = 2,577.6 sq. km
 Hybrid IBOC Int. loss
 pop. = 13,633
 area = 347.3 sq. km
 Int Free Pop. % = 7.8%



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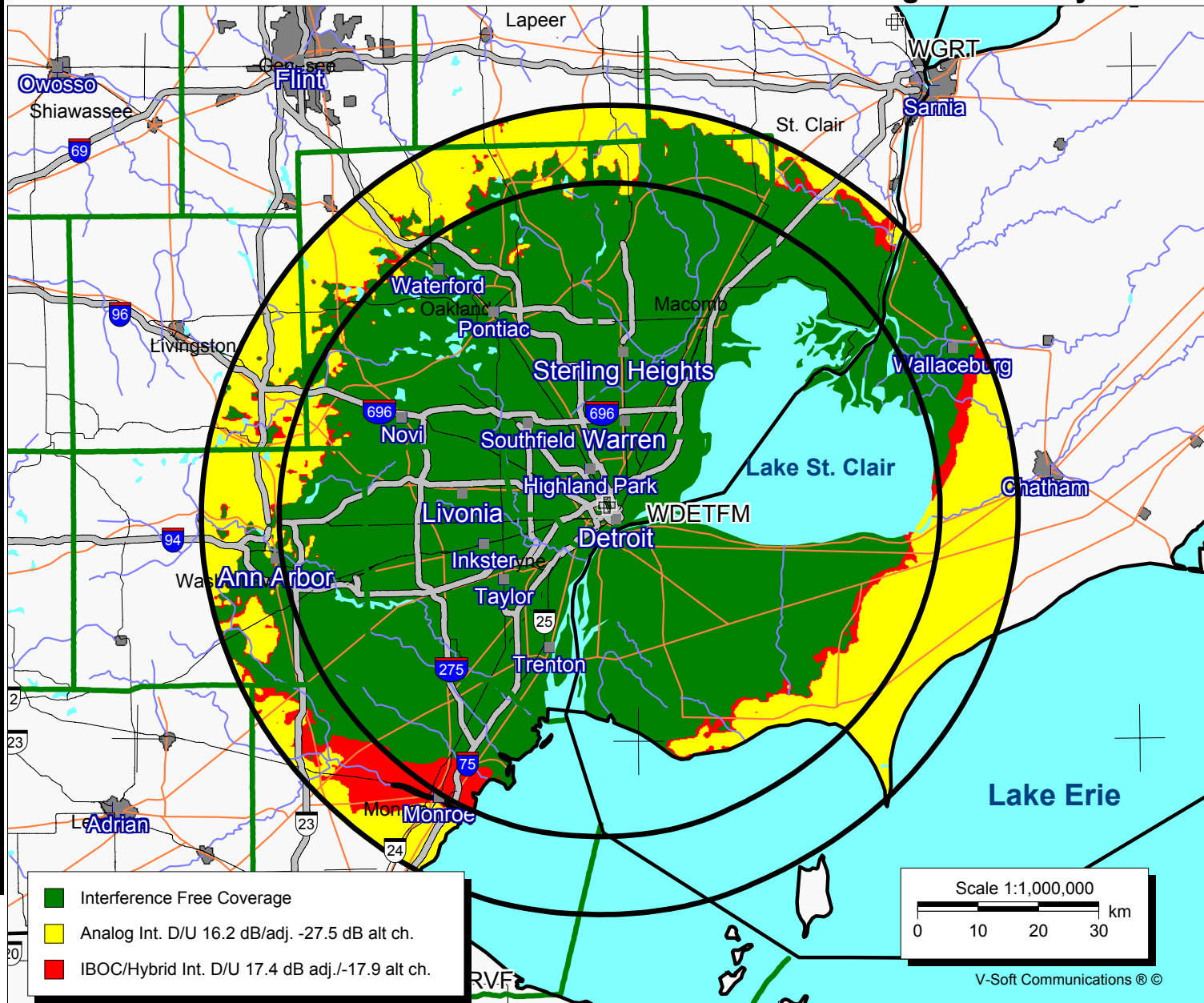
WDET Subcarrier Interference - Analog vs IBOC Hybrid

WDETFM CH 270 101.9 MHz

Contours = 60 and 54 dBu
 BLED19980624KB
 Latitude: 42-21-06 N
 Longitude: 083-03-48 W
 Power: 48.00 kW
 AMSL Height: 354.0 m
 HAAT= 169 m
 Elevation: 190.05 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: Longley/Rice
 Climate: Cont temperate
 Conductivity: 0.0080
 Dielec Const: 8.0
 Refractivity: 312.0
 Receiver Ht AG: 5.0 m
 Receiver Gain: 0 dB
 Time Variability: 50.0%
 Sit. Variability: 50.0%
 ITM Mode: Broadcast

54-dBu Coverage Area:
 pop. = 4,535,327
 area = 14,070.2 sq. km
 Terrain Blockage loss
 pop. = 890
 area = 2.7 sq. km
 Analog Int. loss

25 dB WQP SNR
 pop. = 236,500
 area = 4,140.5 sq. km
 Hybrid IBOC Int. loss
 pop. = 71,524
 area = 709.1 sq. km
 Int Free Pop. %= 1.66%



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Scale 1:1,000,000
 0 10 20 30 km

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