

**September 2010**  
**WNUE-FM Channel 251C2**  
**Deltona, FL**  
**Section 307(b) Analysis Engineering**

By the instant minor change application, it is requested that the Commission modify the license for WNUE-FM (currently licensed on Channel 251C1 at Titusville, Florida) to specify operation on Channel 251C2 at Deltona, Florida. Unless otherwise noted, all population numbers are from the 2000 Census.

**First Local Service to Deltona**

The proposed Channel 251C2 allotment site is located 30 km from the far side of Deltona. The standard 70 dBu contour distance for a Class C2 facility is 32.6 km. Therefore, the proposed allotment will provide 70 dBu service to 100% of Deltona.

The proposed operation will provide the first local service to Deltona, an incorporated city with a 2000 Census population of 69,543 persons. Titusville will retain local transmission service from FM station WPIO on Channel 207C3, and AM station WIXC on 1060 kHz.

**No "Tuck" Study Required**

Deltona (the proposed community of license) is the central city of the Deltona Urbanized Area, while Titusville (the current community of license) is the central city of the Titusville Urbanized Area. This proposal does not provide 70 dBu service to greater than 50% of any Urbanized Area, other than the Deltona and Titusville Urbanized Areas. Since the proposed reallocation will provide the first local service to the central city of an Urbanized Area, the instant proposal is not believed to require a "Tuck" study.

**Gain and Loss Area Analysis**

The Commission generally assumes for the purpose of gain and loss area analysis that a station is operating with the maximum facilities for its class. Based on this assumption, the loss area directly associated with the reallocation of WNUE-FM encompasses an area of 2,546 sq km (land area) and a population of 472,701 persons.

However, it should be noted that the licensed WNUE-FM operation on Channel 251C1 at Titusville is at a reduced HAAT of just 145 meters, slightly under half of the standard HAAT for a Class C1 station. When compared against the licensed WNUE-FM operation, the instant proposal results in a loss area of 80,458 persons and a gain area of 225,368 persons, for a net gain in service to 144,910 persons.

**Loss Area Remaining Services Analysis**

The proposed reallocation of WNUE-FM will not result in the creation of any white, gray, or underserved areas. The entire loss area is considered to be well-served, with in excess of five remaining services.<sup>1</sup> The following stations provide service to the loss area:

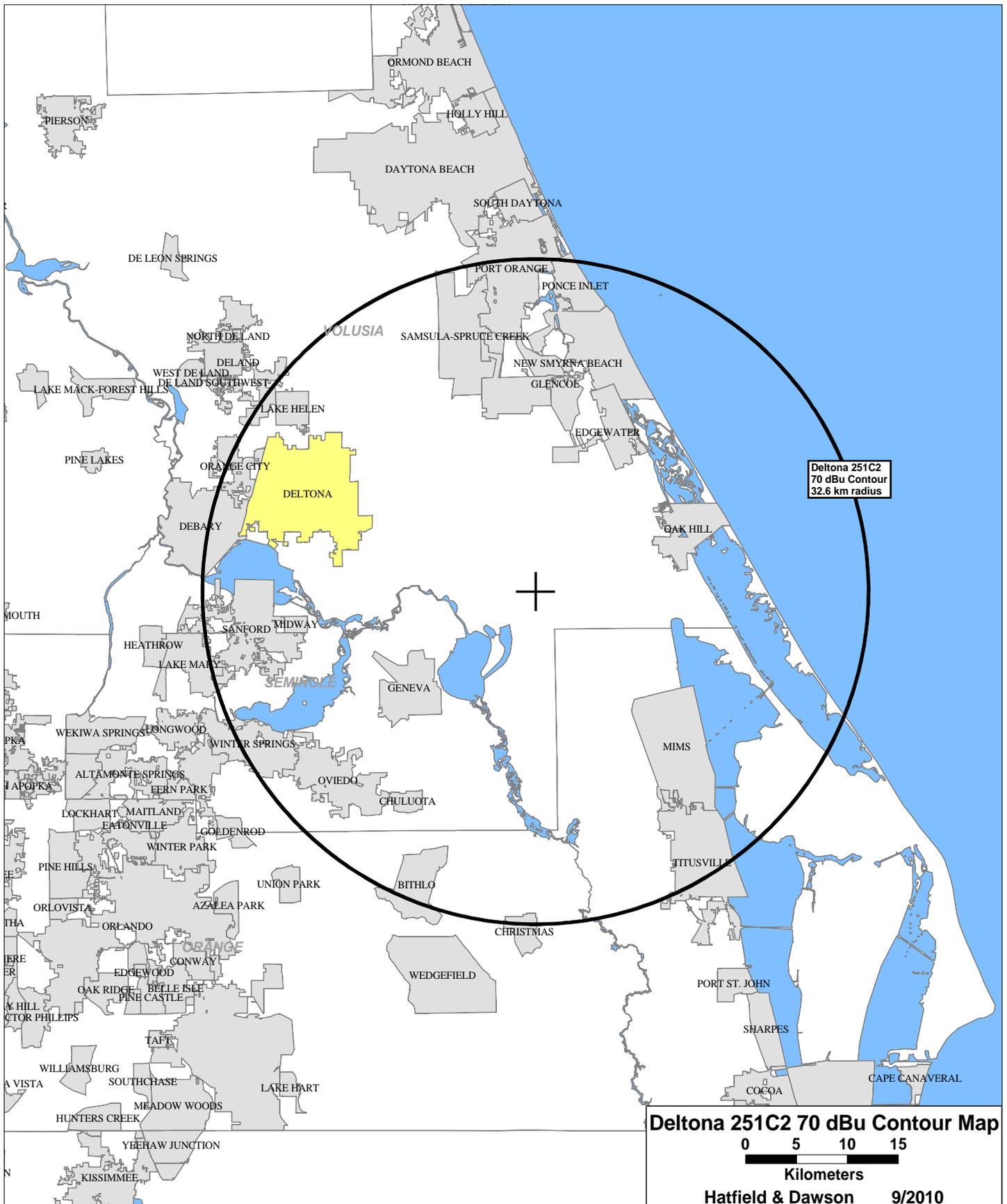
A	WPOZ	202C1	Union Park
B	WMYZ	204A	Clermont
C	WKTO	205C2	Edgewater
D	WLAZ	206A	Kissimmee
E	WPIO	207C3	Titusville
F	WKSG	208C2	Cedar Creek
G	WUCF	210C3	Orlando
H	WJLH	212C3	Flagler Beach
I	WEJF	212C3	Palm Bay
J	WMFE-FM	214C1	Orlando
K	WHYZ	216C3	Palm Coast
L	WMIE-FM	218C3	Cocoa
M	WAPN	218A	Holly Hill

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<sup>1</sup>In determining reception service provided by FM stations, the area of service circumscribed by the station's 1.0 mV/m signal contour was considered, assuming 1) actual facilities for non-commercial stations operating on reserved channels, 2) maximum facilities for the class of station for stations (other than Class C stations) operating on non-reserved channels, and 3) minimum or existing Class C facilities, whichever is greater, for Class C stations. For clear channel Class A AM stations, the service area was defined by the station's 0.5 mV/m groundwave contour, based on its licensed facilities. For all other classes of full-time AM stations, reception service was defined as that service received within a station's nighttime interference-free contour. See Meeker and Craig, Colorado, 15 FCC Rcd 23858 (2000), Stamps and Fouke, Arkansas, 14 FCC Rcd 10533 (1999), Silverton and Bayfield, Colorado, 14 FCC Rcd 4071 (1999), Malvern and Bryant, Arkansas, 13 FCC Rcd 8426 (1998).

N	WPRK	218A	Winter Park
O	WWKA	222C	Orlando
P	WBHQ	224A	Beverly Beach
Q	WMFQ	225C2	Ocala
R	WOGK	229C0	Ocala
S	WCFB	233C	Daytona Beach
T	WBVD	236A	Melbourne
U	WPYO	237C3	Maitland
V	WHOG-FM	239C3	Ormond-By-The-Sea
W	WHTQ	243C	Orlando
X	WPCV	248C0	Winter Haven
Y	WSBH	253A	Satellite Beach
Z	WMMO	255C2	Orlando
AA	WLRQ-FM	257C2	Cocoa
AB	WRUM	262C	Orlando
AC	WJRR	266C	Cocoa Beach
AD	WJHM	270C	Daytona Beach
AE	WHKR	274C2	Rockledge
AF	WLOQ	276C2	Windermere
AG	WVYB	277A	Holly Hill
AH	WTKS-FM	281C	Cocoa Beach
AI	WOMX-FM	286C	Orlando
AJ	WOCL	290C	Deland
AK	WCIF	292C3	Melbourne
AL	WXXL	294C1	Tavares
AM	WAOA-FM	296C1	Melbourne
AN	WMGF	299C	Mount Dora

Numerous AM stations also provide service to portions of the loss area, but are omitted from this study for the sake of clarity.



PIERSON

ORMOND BEACH

HOLLY HILL

DAYTONA BEACH

SOUTH DAYTONA

DE LEON SPRINGS

PORT ORANGE

PONCE INLET

NORTH DELAND

VOLUSIA

SAMSULA-SPRUCE CREEK

DELAND

NEW SMYRNA BEACH

WEST DE LAND

GLENCOE

LAKE MACK-FOREST HILLS

LAKE HELEN

EDGEWATER

PINE LAKES

ORANGE CITY

DELTONA

DEBARY

OAK HILL

MOUTH

HEATHROW

SANFORD

MIDWAY

GENEVA

SEMINOLE

WEKIWA SPRINGS

LONGWOOD

WINTER SPRINGS

MIMS

ALTAMONTE SPRINGS

SEMI

OVIEDO

CHULUOTA

LOCKHART

MAITLAND

EATONVILLE

GOLDENROD

TITUSVILLE

PINE HILLS

WINTER PARK

UNION PARK

BITHLO

ORLOVISTA

AZALEA PARK

CHRISTMAS

ORLANDO

ORANGE

WEDGEFIELD

EDGEWOOD

CONWAY

PORT ST. JOHN

OAK RIDGE

BELLE ISLE

PINE CASTLE

SHARPES

WILLIAMSBURG

SOUTHCHASE

LAKE HART

COCOA

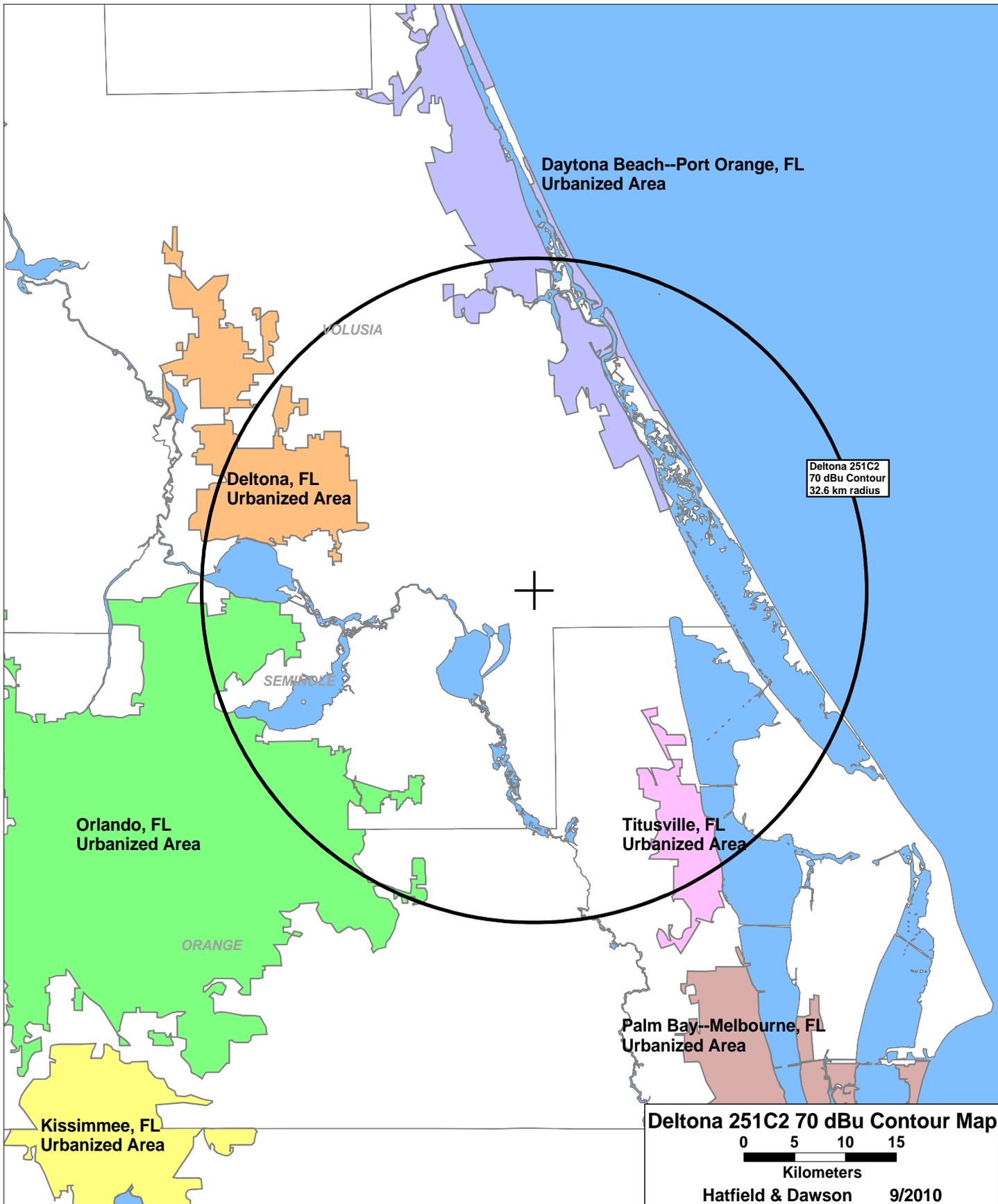
CAPE CANAVERAL

HUNTERS CREEK

MEADOW WOODS

YEEHAW JUNCTION

KISSIMEE



Daytona Beach--Port Orange, FL  
Urbanized Area

VOLUSIA

Deltona, FL  
Urbanized Area

Deltona 251C2  
70 dBu Contour  
32.6 km radius

SEMINOLE

Orlando, FL  
Urbanized Area

ORANGE

Titusville, FL  
Urbanized Area

Palm Bay--Melbourne, FL  
Urbanized Area

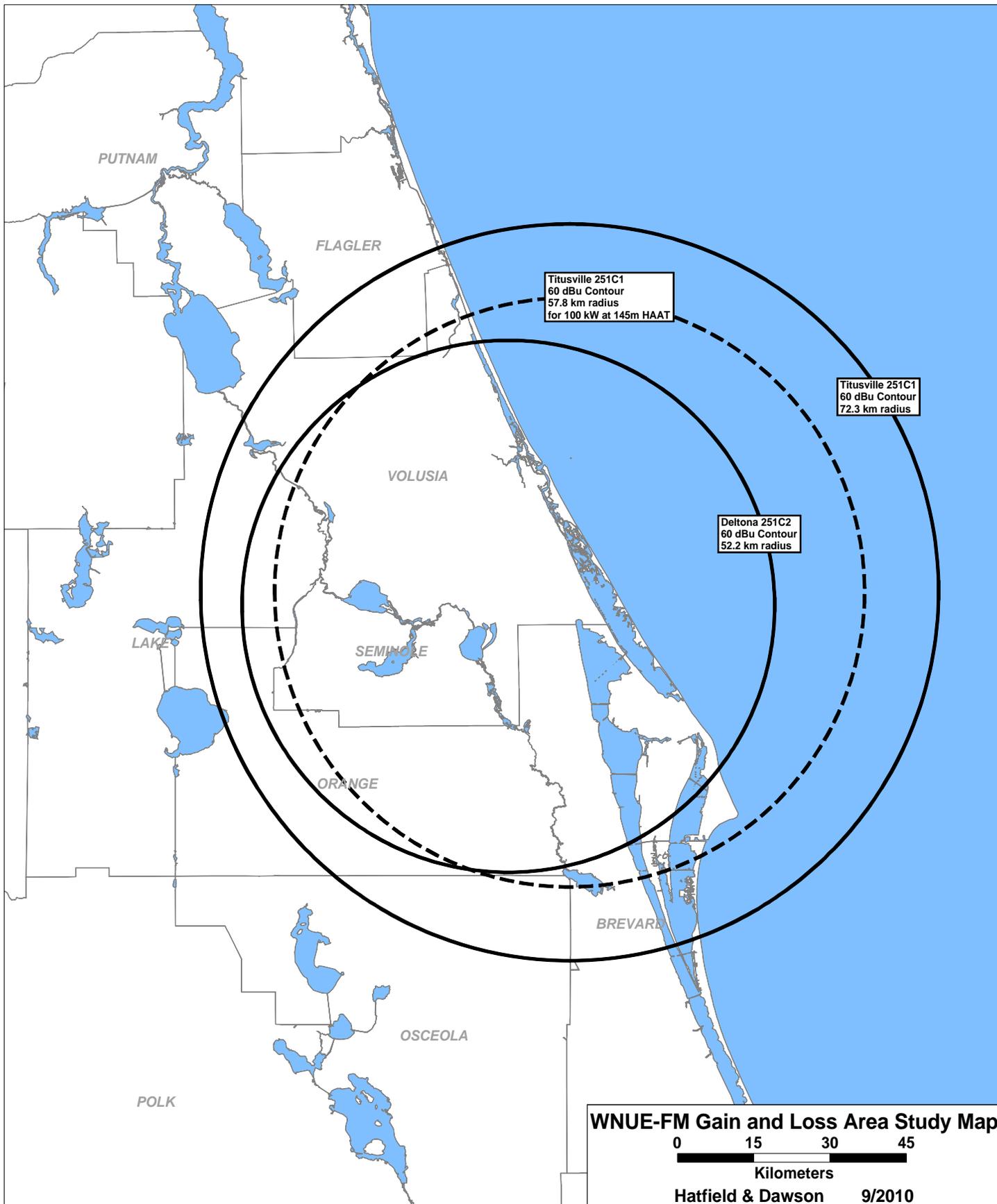
Kissimmee, FL  
Urbanized Area

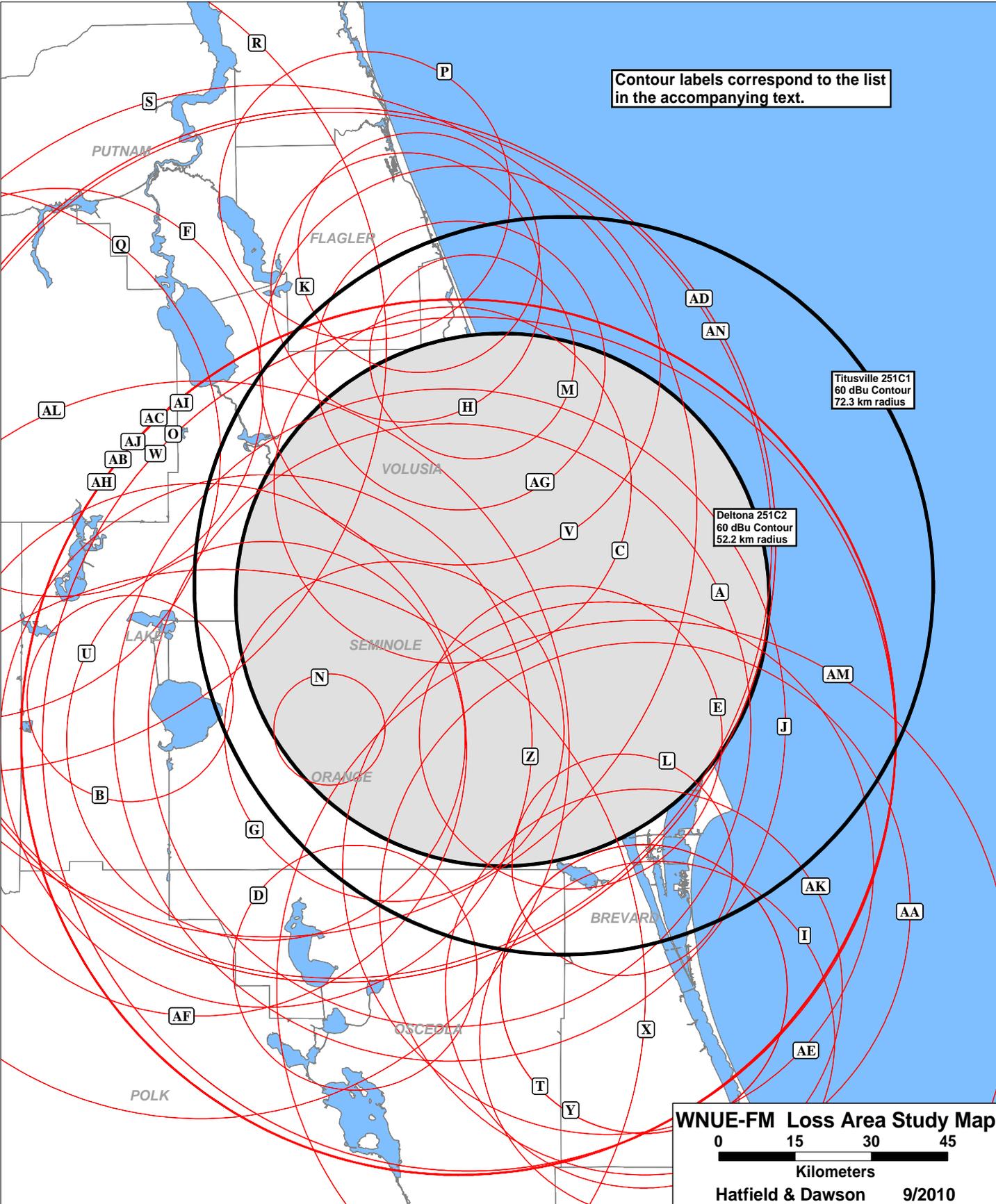
Deltona 251C2 70 dBu Contour Map

0 5 10 15

Kilometers

Hatfield & Dawson 9/2010





Contour labels correspond to the list in the accompanying text.

Titusville 251C1  
60 dBu Contour  
72.3 km radius

Deltona 251C2  
60 dBu Contour  
52.2 km radius

**WNUE-FM Loss Area Study Map**

0 15 30 45  
Kilometers

Hatfield & Dawson 9/2010