

**Broadcast Engineering Services of Bonny Doon, Inc.**

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**Engineering Statement  
in support of a Minor Change  
K264BL, Honolulu, Hawaii  
BLFT-20151013AIM**

Hawaii Public Radio (HPR), licensee of K264BL, is requesting a minor change to the K264BL license, this to change the effective radiated power.

K264BL is a fill-in translator for KIPO, Honolulu. There are no full power FM or TV facilities in the entire state of Hawaii that are affected or overlapped by this proposal except for KCCN-FM and KORL-FM. Because the proposed 100 dbu F5/10 contour does not overlap any populated areas, it will not cause any interference. An allocation study, along with detail maps, is attached to this statement.

The proposed power increase is to .099 KW. This will contribute less than 1% to the existing RFR levels at this multi-user tower site. Because the proposed power is less than 100 watts, it is categorically exempt from environmental processing

This site is primarily accessible by helicopter, and located adjacent to a hiking trail, and fully surrounded by a security fence. RFR signage is already in place.

Respectfully submitted,



Donald E. Mussell Jr. NCE-CBT  
Consulting Engineer  
August 18, 2020

Broadcast Engineering Services of Bonny Doon, Inc  
 Don Mussell, Consulting Engineer

K264BL

Hawaii Public Radio, Inc

REFERENCE  
 21 19 37.50 N.  
 157 45 14.10 W.

CH# 264D - 100.7 MHz, Pwr= 0.099 kw, HAAT= 667.9 M, COR= 748 M  
 Average Protected F(50-50)= 27.12 km  
 Omni-directional

DISPLAY DATES  
 DATA 08-13-20  
 SEARCH 08-13-20

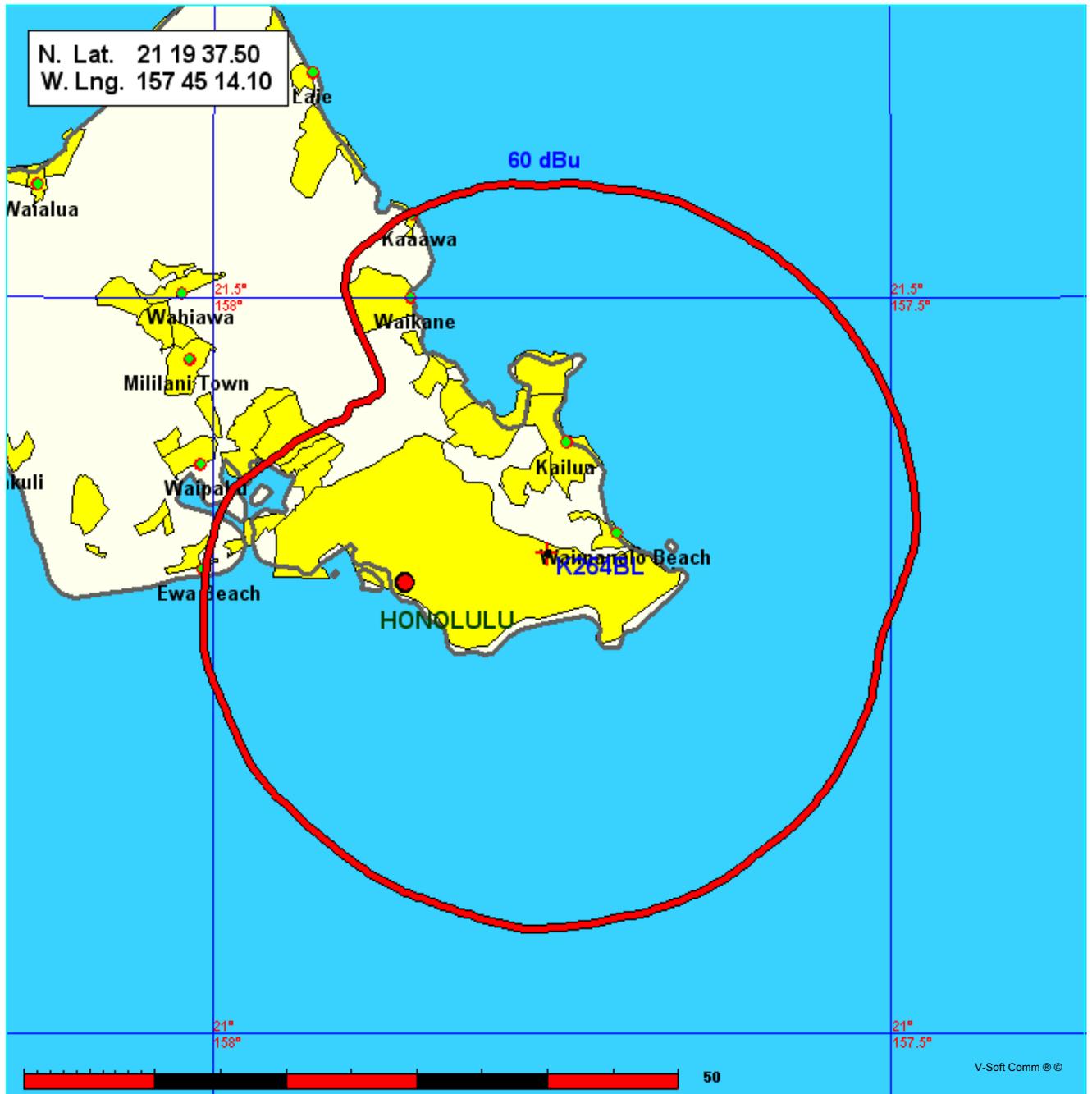
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
264D Honolulu	K264BL	LIC HI	___	0.0 0.0	0.00 BLFT20151013AIM	21 19 37.50 157 45 14.10	0.010 668	748	---Reference---		
266C Waianae	AL9254	RSV-A HI	___	281.9 101.8	36.40 RM10623	21 23 39.64 158 05 51.13	100.000 600	15.1 736	95.5	-3.6	-59.8*
266C Waianae	KORL-FM	LIC D HI	___	282.1 102.0	36.63 BLH20070706ACG	21 23 45.00 158 05 58.00	100.000 592	14.5 734	94.8	-2.1	-58.9*
262C Honolulu	KCCN-FM	LIC D HI	___	281.9 101.8	36.40 BLH19940331KA	21 23 39.60 158 05 51.10	100.000 599	14.0 742	94.1	-1.9	-58.3*
264C0 Kihei	KMKV	LIC HI	___	113.7 294.2	169.35 BLED20190917AAD	20 42 34.00 156 15 49.00	3.500 1798	167.5 2995	77.6	-25.3	8.3

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

K264BL Proposed  
Hawaii Public Radio, Inc

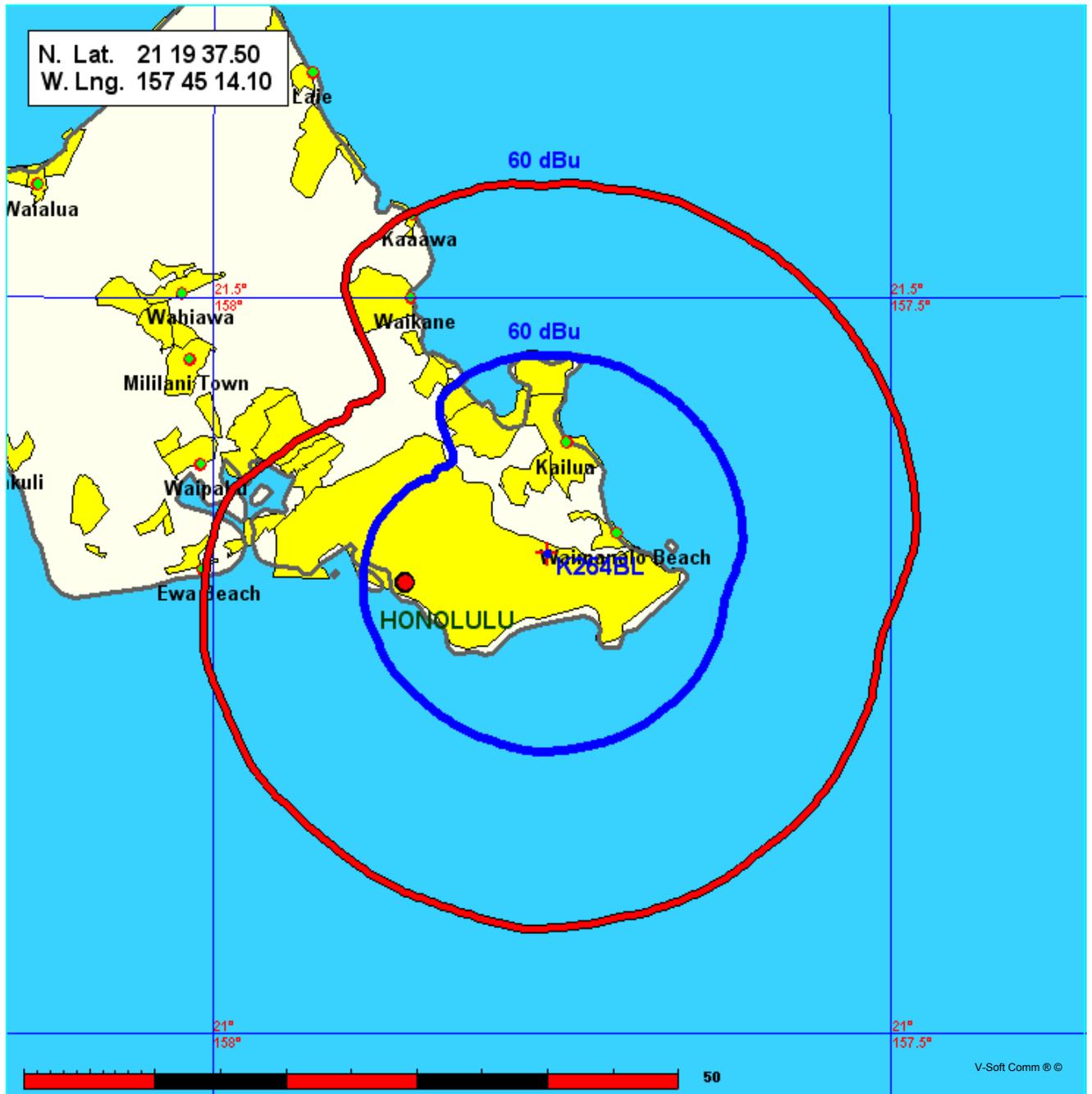
Coverage Study - FCC NGDC 30 Sec  
08-17-2020

K264BL CH264 D , 0.099 kW, 667.9m HAAT, 748.0m COR AMSL  
Service Contour = 60 dBu.



K264BL Existing and Proposed  
Hawaii Public Radio, Inc

Coverage Study - FCC NGDC 30 Sec  
08-17-2020

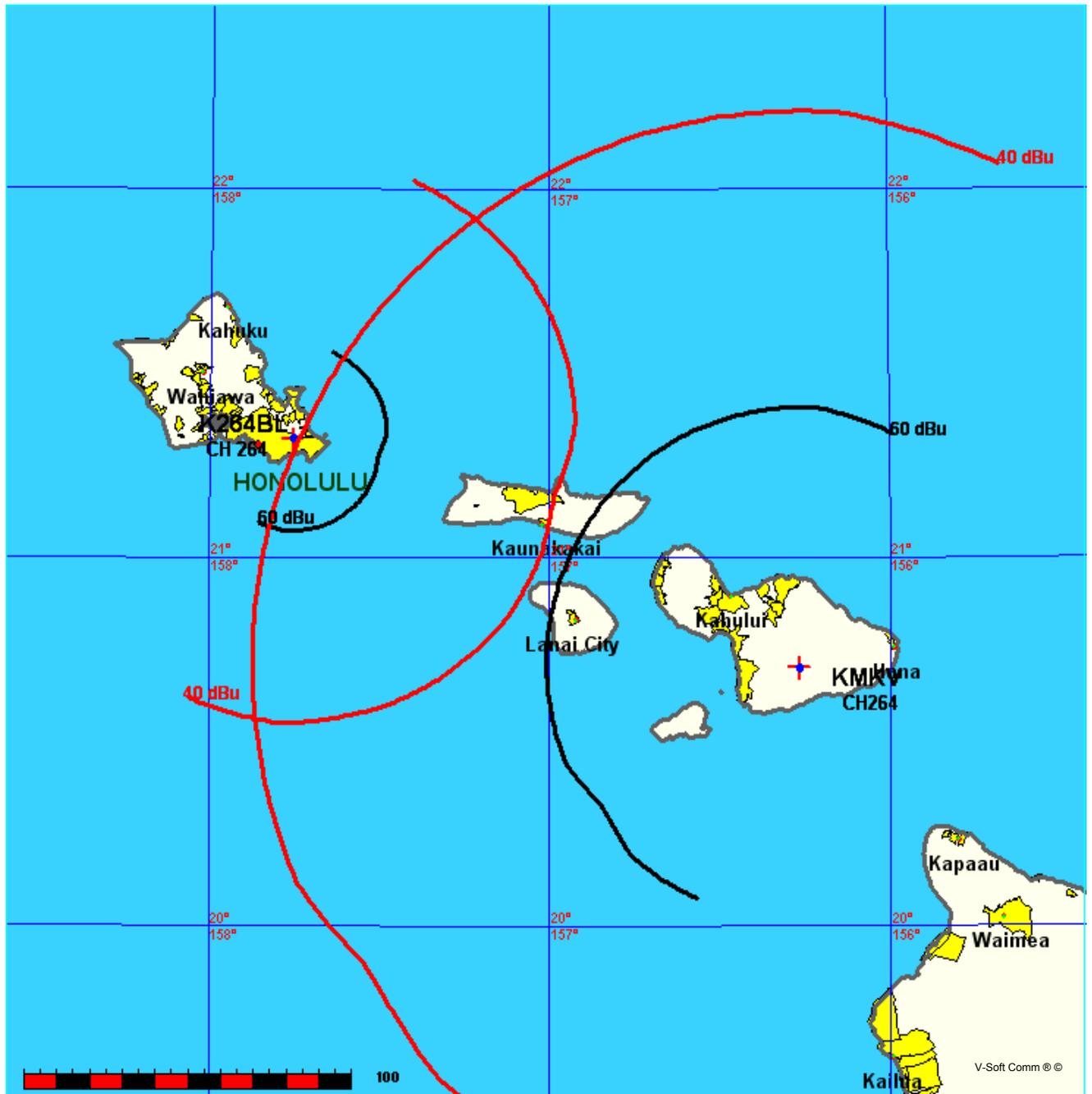


K264BL - KMKV  
Hawaii Public Radio, Inc

FMCommander Single Allocation Study - 08-17-2020 - FCC NGDC 30 Sec  
K264BL's Overlaps (In= -25.31 km, Out= 8.34 km)

K264BL CH 264 D  
Lat= 21 19 37.50, Lng= 157 45 14.10  
0.099 kW 667.9 m HAAT, 748 m COR  
Prot.= 60 dBu, Intef.= 40 dBu

KMKV CH 264 C0 BLED20190917AAD  
Lat= 20 42 34.00, Lng= 156 15 49.00  
3.5 kW 1798 m HAAT, 2995 m COR  
Prot.= 60 dBu, Intef.= 40 dBu

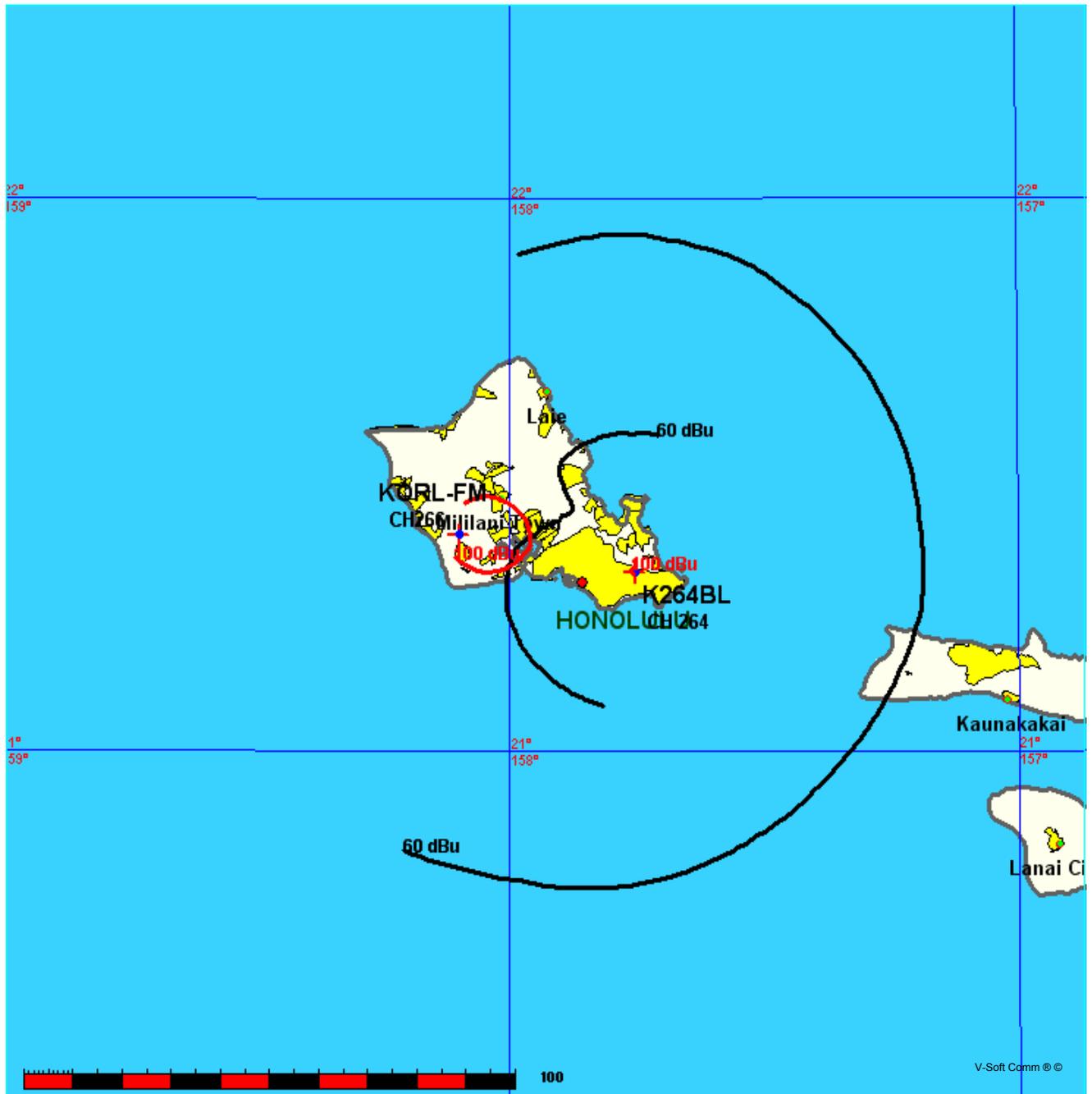


K264BL - KORL  
Hawaii Public Radio, Inc

FMCommander Single Allocation Study - 08-17-2020 - FCC NGDC 30 Sec  
K264BL's Overlaps (In= -2.1 km, Out= -58.88 km)

K264BL CH 264 D  
Lat= 21 19 37.50, Lng= 157 45 14.10  
0.099 kW 667.9 m HAAT, 748 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

KORL-FM CH 266 C DA BLH20070706ACG  
Lat= 21 23 45.00, Lng= 158 05 58.00  
100.0 kW 592 m HAAT, 734 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

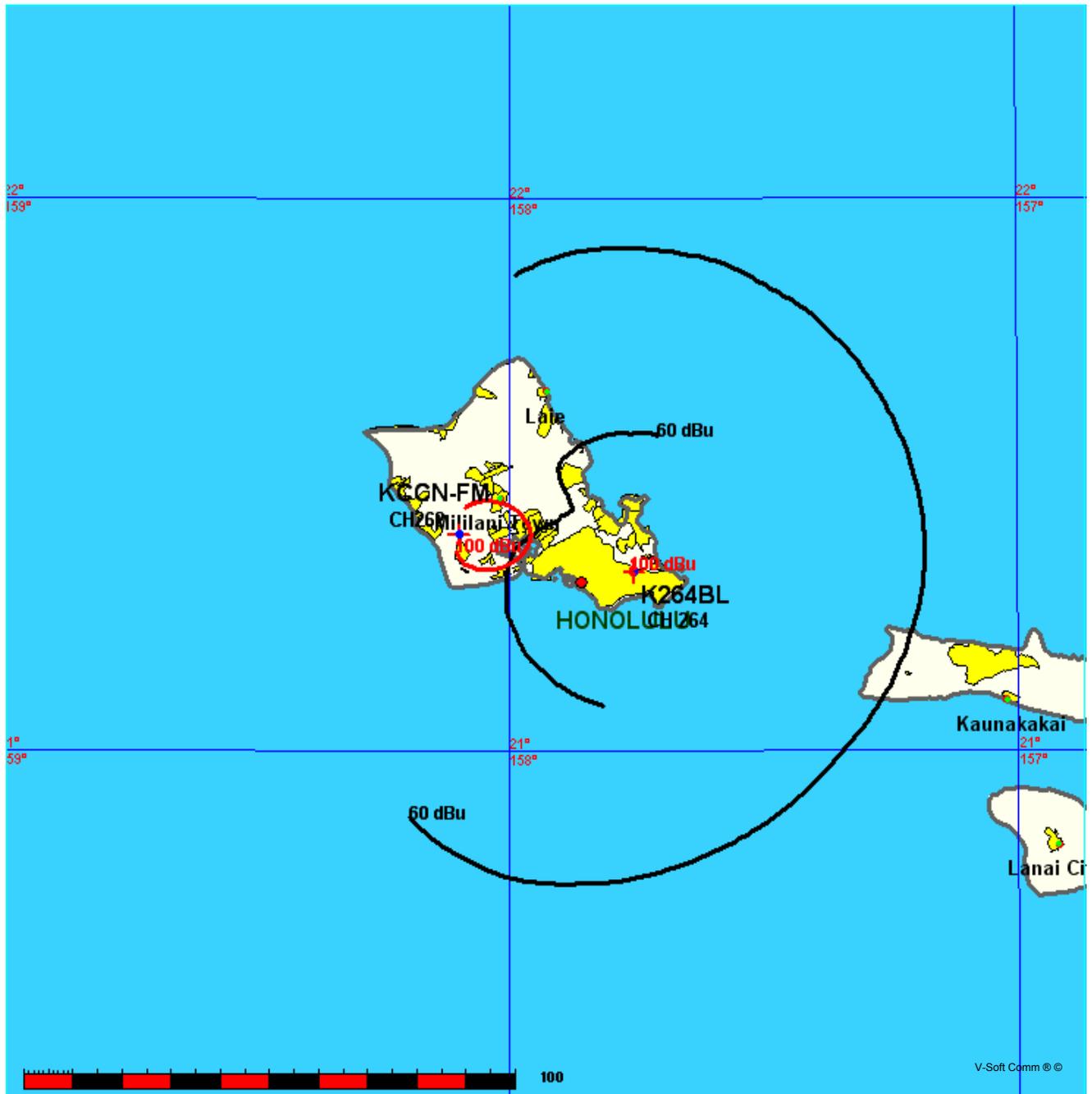


K264BL - KCCN  
Hawaii Public Radio, Inc

FMCommander Single Allocation Study - 08-17-2020 - FCC NGDC 30 Sec  
K264BL's Overlaps (In= -1.91 km, Out= -58.35 km)

K264BL CH 264 D  
Lat= 21 19 37.50, Lng= 157 45 14.10  
0.099 kW 667.9 m HAAT, 748 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

KCCN-FM CH 262 C DA BLH19940331KA  
Lat= 21 23 39.60, Lng= 158 05 51.10  
100.0 kW 599 m HAAT, 742 m COR  
Prot.= 60 dBu, Intef.= 100 dBu



K264BL - Proposed 100 dbu F50/10  
Hawaii Public Radio, Inc

Coverage Study - FCC NGDC 30 Sec  
08-17-2020

K264BL CH264 D , 0.099 kW, 667.9m HAAT, 748.0m COR AMSL  
Service Contour = 100 dBu.

