

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: W21EK_ASR369_180AGL, Model: Longley-Rice

Start: 2021.02.08 15:43:27

Study created: 2021.02.08 15:43:27

Study build station data: LMS TV 2021-01-30

Proposal: W21EK-D D21 LD APP KEY WEST, FL

File number: W21EK_ASR369_180AGL

Facility ID: 182540

Station data: User record

Record ID: 682

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Baseline record excluded if station has CP

User records included:

683 W22FI-D D22 LD APP KEY WEST, FL W22FI_ASR369

Individual records excluded:

20090825AGQ W22FI-D D22 LD CP KEY WEST, FL BNPDTL20090825AGQ

Stations potentially affected by proposal:

IX	Call Distance	Chan	Svc	Status	City, State	File Number
No	WLMF-LD 177.0 km	D20	LD	CP	MIAMI, FL	BLANK0000082244
No	WCLF 357.2	D21	DT	LIC	CLEARWATER, FL	BLCDT20060627AAQ
No	WCLF 357.2	D21	DT	CP	CLEARWATER, FL	BLANK0000036056
No	WGPS-LD 194.4	D21	LD	CP	FORT MYERS, FL	BLANK0000051656
No	WKME-CD 409.5	D21	DC	LIC	KISSIMMEE, FL	BLANK0000090448
Yes	W21CL-D 58.0	D21-	LD	LIC	MARATHON, FL	BLANK0000048661
No	WPXM-TV 193.2	D21	DT	LIC	MIAMI, FL	BLANK0000064072
No	WSLF-LD 293.5	D21	LD	CP	PORT ST. LUCIE, FL	BLANK0000072577
No	WGPS-LD 199.3	D22	LD	LIC	FORT MYERS, FL	BLDTL20140626ACN

No	WGCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706
	239.0					
No	W22FI-D	D22	LD	APP	KEY WEST, FL	W22FI_ASR369
	0.0					
No	WFOR-TV	D22	DT	LIC	MIAMI, FL	BLCDT20130909AAV
	193.3					
No	W25DQ	N25	TX	LIC	KEY WEST, FL	BLTTL20060425ABS
	17.6					
No	WYMI-LP	N28-	TX	LIC	SUMMERLAND KEY, FL	BLTTL20060803ALL
	0.0					
No	W29CW	N29z	TX	LIC	DUCK KEY, FL	BLTTL20050912ACC
	58.0					

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21
Mask: Stringent
Latitude: 24 40 37.40 N (NAD83)
Longitude: 81 30 38.00 W
Height AMSL: 181.2 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: SCA-SL-8 (ID 23503) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.75

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	181.2 m	50.5 km
45.0	12.8	181.2	49.7
90.0	6.94	181.1	46.6
135.0	6.73	181.2	46.4
180.0	7.78	181.2	47.2
225.0	6.24	181.2	46.1
270.0	7.14	181.2	46.8
315.0	12.4	181.2	49.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 181 m

Distance to Canadian border: 1891.3 km

Distance to Mexican border: 1554.4 km

Conditions at FCC monitoring station: Vero Beach FL

Bearing: 14.8 degrees Distance: 337.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 313.6 degrees Distance: 2795.0 km

No land mobile station failures found

Study cell size: 1.00 km

Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

Interference to BLANK0000048661 LIC scenario 1

Call Distance	Chan	Svc	Status	City, State	File Number
Desired: W21CL-D	D21-	LD	LIC	MARATHON, FL	BLANK0000048661

Undesireds: W21EK-D	D21	LD	APP	KEY WEST, FL
W21EK_ASR369_180AGL	58.0	km		

Service area after	Percent New IX	Terrain-limited	IX-free, before	IX-free,
4073.8	11,821	4073.8	11,821	2830.4
11,748	30.52	0.62		

Undesired after	Total IX	Unique IX, before	Unique IX,
W21EK-D D21 LD APP	1243.4	73	1243.4
73			

Interference to proposal scenario 1

11.98% interference received

Call Distance	Chan	Svc	Status	City, State	File Number
Desired: W21EK-D	D21	LD	APP	KEY WEST, FL	
W21EK_ASR369_180AGL					

Undesireds: W21CL-D	D21-	LD	LIC	MARATHON, FL	BLANK0000048661
58.0	km				

Service area		Terrain-limited			IX-free	Percent IX	
7201.8	48,893	7201.8	48,893	6600.4	43,035	8.35	11.98
Undesired			Total IX		Unique IX	Prcnt Unique IX	
W21CL-D D21- LD LIC		601.3	5,858	601.3	5,858	8.35	11.98