

E133WB Spot Beam – Additional Information

This document illustrates the projection areas and beam pointing locations for the uplink and downlink beams in both Ku-band and Ka-band in the accompanying Schedule S.

The EUTELSAT 133WB satellite generates sixty-five spot beams for both uplink and downlink in both the Ku-band and the Ka-band. The beam pointing locations for each of the four sets of spot beams are identical, provided in Table 1, and resulting in the coverage pattern illustrated in Figure 1. Figure 1 reflects the aggregate beam coverage patterns for uplink beams UUH1, UUH2, UUV1, UUV2, UAL1, UAL2, UAR1, UAR2. Figure 1 reflects the aggregate beam coverage patterns for downlink beams DUH1, DUH2, DUH3, DUH4, DUH5, DUV1, DUV2, DUV3, DUV4, DUV5, DAL1, DAL2, DAL3, DAL4, DAL5, DAL6, DAR1, DAR2, DAR3, DAR4, DAR5 AND DAR6.

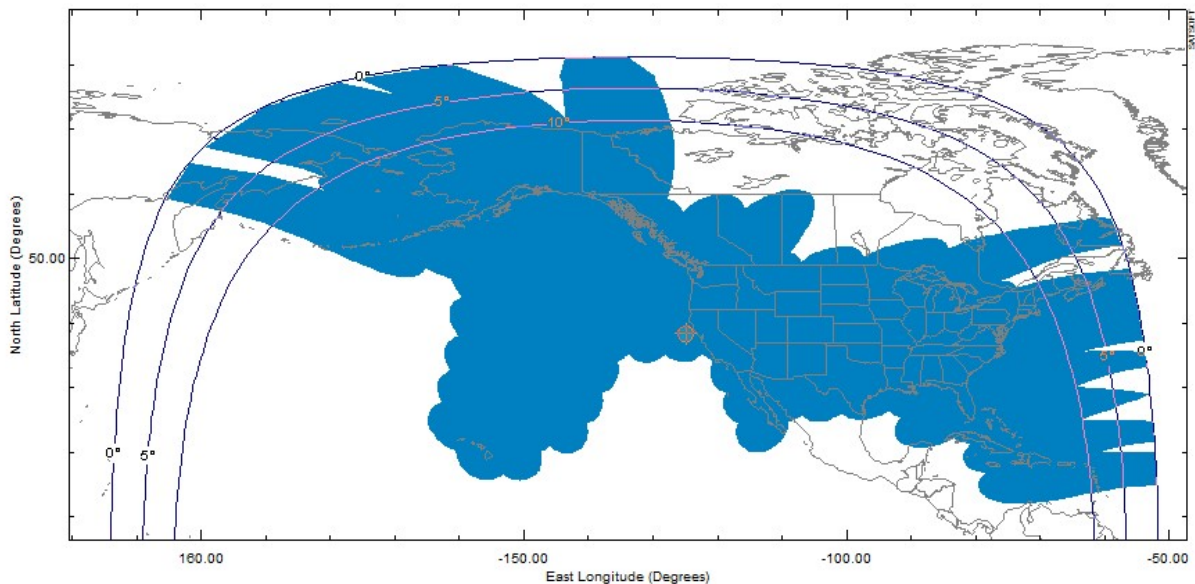


Figure 1 Ku-band and Ka-band Fixed Uplink and Downlink Service Area #1 from 132.85°W.L.

Table 1 Beam Pointing Locations for the Set of Sixty-Five Spot Beams

Ka-band Beam Pointing Locations			Ku-band Beam Pointing Locations		
Beam	Long	Lat	Beam	Long	Lat
Designation	°E	°N	Designation	°E	°N
A1	-154.404	23.7309	U1	-154.404	23.7309
A2	-148.954	23.6181	U2	-148.954	23.6181
A3	-143.739	23.5425	U3	-143.739	23.5425
A4	-75.1512	25.3954	U4	-75.1512	25.3954
A5	-152.585	28.3522	U5	-152.585	28.3522
A6	-146.973	28.2233	U6	-146.973	28.2233
A7	-141.584	28.1414	U7	-141.584	28.1414
A8	-114.996	28.357	U8	-114.996	28.357
A9	-109.157	28.5387	U9	-109.157	28.5387
A10	-102.843	28.7863	U10	-102.843	28.7863
A11	-95.778	29.1222	U11	-95.778	29.1222
A12	-87.4053	29.5937	U12	-87.4053	29.5937
A13	-76.1522	30.335	U13	-76.1522	30.335
A14	-150.84	33.2912	U14	-150.84	33.2912
A15	-144.97	33.1471	U15	-144.97	33.1471
A16	-139.314	33.0643	U16	-139.314	33.0643
A17	-116.817	33.2869	U17	-116.817	33.2869
A18	-110.717	33.4953	U18	-110.717	33.4953
A19	-104.124	33.7874	U19	-104.124	33.7874
A20	-96.7312	34.1916	U20	-96.7312	34.1916
A21	-87.9064	34.77	U21	-87.9064	34.77
A22	-75.7395	35.7102	U22	-75.7395	35.7102
A23	-155.799	38.9422	U23	-155.799	38.9422
A24	-149.156	38.6903	U24	-149.156	38.6903
A25	-142.888	38.5319	U25	-142.888	38.5319
A26	-136.827	38.4549	U26	-136.827	38.4549
A27	-130.842	38.4525	U27	-130.842	38.4525
A28	-124.815	38.5246	U28	-124.815	38.5246
A29	-118.622	38.6759	U29	-118.622	38.6759
A30	-112.108	38.9159	U30	-112.108	38.9159
A31	-105.052	39.2656	U31	-105.052	39.2656
A32	-97.0721	39.7656	U32	-97.0721	39.7656
A33	-87.3363	40.5079	U33	-87.3363	40.5079
A34	-72.7682	41.835	U34	-72.7682	41.835
A35	-154.872	45.0952	U35	-154.872	45.0952
A36	-147.54	44.7911	U36	-147.54	44.7911
A37	-140.637	44.6184	U37	-140.637	44.6184

A38	-133.937	44.559
A39	-127.261	44.6064
A40	-120.435	44.7654
A41	-113.251	45.0482
A42	-105.407	45.4868
A43	-96.3445	46.1458
A44	-84.6355	47.2044
A45	-177.028	54.3456
A46	-164.453	53.1674
A47	-154.657	52.4867
A48	-146.06	52.0879
A49	-138.033	51.8963
A50	-130.203	51.8833
A51	-122.262	52.0457
A52	-113.868	52.4047
A53	-172.926	64.3159
A54	-157.083	62.7279
A55	-145.191	62.016
A56	-134.511	61.7795
A57	-113.134	23.7448
A58	-86.1828	24.7823
A59	-72.9988	20.7358
A60	-156.317	19.3331
A61	-150.954	19.2389
A62	-157.063	33.5065
A63	-158.547	28.5373
A64	-160.213	23.8878
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