

column name	description
carrier_num	Carrier unique identification number. This convention appears in CR/116, with numbers < 1000 mapping directly to the corresponding links in CR116. For carrier numbers >= 1000, this document uses the convention that carrier_num = "XLNN", where X is the category (typically a different number for different source), L is the location (0: Miami, 1: DC, 2: Las Vegas) and NN is the carrier ID starting from "01"
admin_country	Administration where the specified link's Earth station location falls under.
geo_network_name	Name of the Geostationary Network that the link corresponds to.
source	Source document from which the link parameters were obtained.
gso_lon_deg	Orbital position of the GSO satellite (degree East). Not specified in CR/116 so values matching the latitude and 0.01% rainfall rate are assumed for these links.
satellite_eirp_dBW	Transmit EIRP per carrier in the direction of the receive Earth Station (dBW).
freq_GHz	Downlink Carrier Center Frequency (GHz).
ibw_kHz	Downlink occupied bandwidth per carrier (kHz).
es_rx_gain_dBi	Receive Earth Station peak antenna gain (dBi).
es_rx_diameter_m	Receive Earth Station antenna diameter (m).
es_Tsys_K	Noise Temperature of the receive Earth Station (K).
es_lat_deg	Latitude of the receive Earth Station (degree North).
es_lon_deg	Longitude of the receive Earth Station (degree East). Not specified in CR/116 so values matching the latitude and 0.01% rainfall rate are assumed for these links.
rr_mmh	Annual rainfall rate exceeded for 0.01% of an average year. If this is not provided by the source, it is calculated using ITU-R P.837 with the latitude and longitude of the receive Earth Station.
calc_gso_elevation_deg	Calculated elevation angle at the GSO receive Earth Station.
obj_cni_threshold_dB	Short-term C/(N+I) ratio (i.e. unavailability threshold) (dB).
obj_avail_perc	Percentage of time for which short-term C/(N+I) should be exceeded (%).
calc_baseline_unavail_perc	Baseline downlink unavailability calculated with the associated rainfall rate, ITU-R Recommendation P.618 and S.1323 Procedure D.
calc_cn_clearsky_dB	Calculated downlink Carrier-to-Noise ratio under clear-sky condition (C/N, dB).
ci_internal_dB	Downlink C/I from internal interference sources (e.g. intermod, x-pol, multi-beam frequency re-use, etc.). If no value is given, a value of 40 dB is assumed.
calc_cni_clearsky_dB	Calculated downlink Carrier-to-(Noise + Internal Interference Sources) (C/(N+I), dB).
calc_cni_clearsky_margin_dB	Calculated link margin for rain i.e. C/(N+I) - unavailability threshold.
ACM (Yes/No)	Yes if a link uses Adaptive Coding and Modulation or No if not.

gso_ref_id	operator_name	source	gso_lon_deg	satellite_eirp_dBW	freq_GHz	ibw_kHz	es_rx_gain_dBi	es_rx_diameter_m	es_Tsys_K	es_lat_deg	es_lon_deg	rr_mmh	calc_gso_elevation_deg	obj_cni_threshold_dB	calc_baseline_unavail_perc	ci_internal_dB	ACM (Yes/No)
KU00	Astranis	Schedule S	-83	59.90	11.70	250000.00	34.80	0.60	130.00	42.25	-94.50	42.00	39.80	0.70	0.006	16.73	No
KU00	Astranis	Schedule S	-83	54.00	11.70	250000.00	37.05	0.75	130.00	42.25	-94.50	42.00	39.80	0.70	0.020	16.73	No
KU00	Astranis	Schedule S	-83	52.00	11.70	250000.00	34.80	0.60	130.00	42.25	-94.50	42.00	39.80	0.70	0.223	16.73	No
KU00	Astranis	Schedule S	-83	59.90	11.70	250000.00	34.80	0.60	130.00	37.75	-120.00	19.00	31.80	0.70	0.000	16.73	No
KU00	Astranis	Schedule S	-83	54.00	11.70	250000.00	37.05	0.75	130.00	37.75	-120.00	19.00	31.80	0.70	0.003	16.73	No
KU00	Astranis	Schedule S	-83	52.00	11.70	250000.00	34.80	0.60	130.00	37.75	-120.00	19.00	31.80	0.70	0.021	16.73	No
KU00	DirecTV	DirecTV	-101	50.70	12.44	20000.00	34.30	0.46	145.00	37.00	-114.00	19.84	45.50	9.20	0.034	24.00	No
KU00	DirecTV	DirecTV	-101	52.00	12.44	20000.00	34.30	0.46	145.00	36.93	-99.40	41.95	47.14	9.20	0.106	24.00	No
KU00	DirecTV	DirecTV	-101	53.70	12.44	20000.00	34.30	0.46	145.00	34.32	-88.17	51.26	47.81	9.20	0.080	24.00	No
KU00	DirecTV	DirecTV	-101	52.14	12.44	20000.00	35.98	0.65	145.00	18.46	-65.99	91.65	44.81	9.20	0.278	24.00	No
KU00	DirecTV	DirecTV	-101	50.60	12.44	20000.00	34.30	0.46	145.00	32.00	-103.98	32.64	45.76	9.20	0.131	24.00	No
KU00	DirecTV	DirecTV	-101	52.00	12.44	20000.00	34.30	0.46	145.00	42.64	-73.74	34.99	35.19	9.20	0.108	24.00	No
KU00	DirecTV	DirecTV	-101	51.00	12.44	20000.00	34.30	0.46	145.00	46.19	-123.75	37.48	32.35	9.20	0.108	24.00	No
KU00	Eutelsat	Eutelsat	-117	51.37	11.94	30000.00	35.60	0.60	117.00	34.05	-118.25	24.95	50.39	6.90	0.001	28.90	No
KU00	Eutelsat	Eutelsat	-117	51.25	11.72	30000.00	32.60	0.60	117.00	32.72	-117.15	25.08	51.93	3.71	0.003	16.37	Yes
KU00	Eutelsat	Eutelsat	-117	51.25	11.72	8333.00	32.60	0.60	117.00	32.72	-117.15	25.08	51.93	6.30	0.036	16.37	Yes
KU00	Eutelsat	Eutelsat	172	61.81	12.34	64290.00	35.92	0.60	117.00	21.32	-157.87	64.60	47.85	6.21	0.501	16.99	Yes
KU00	Hispasat	Hispasat	-30	47.40	12.10	36000.00	33.24	0.45	145.58	44.25	-69.75	32.76	25.57	2.53	0.085	18.75	No
KU00	Hispasat	Hispasat	-30	48.10	12.10	36000.00	33.25	0.45	145.58	35.63	-77.38	53.67	25.55	1.73	0.090	18.75	No
KU00	Hispasat	Hispasat	-30	40.60	11.80	18000.00	39.26	0.92	136.03	25.75	-80.25	78.54	27.45	2.53	0.418	18.75	No
KU00	Hispasat	Hispasat	-61	37.78	11.77	5100	33.04	0.45	145.576742	39.75	-105	21.53	25.75	0	0.032	20.63	Yes
KU00	Hispasat	Hispasat	-61	41.98	11.77	27500	35.55	0.60	138.891794	25.75	-80.25	78.54	53.03	0	0.329	20.63	Yes
KU00	Hispasat	Hispasat	-61	34.88	11.77	10000	39.06	0.90	136.026816	25.75	-80.25	78.54	53.03	0	0.213	20.63	Yes
KU00	Hispasat	Hispasat	-61	46.25	12.00	36000	33.24	0.45	145.576742	39.75	-105	21.53	25.75	2.53	0.060	17.23	No
KU00	Hispasat	Hispasat	-61	47.50	12.10	36000	35.75	0.60	138.891794	40	-83	39.368	38.45	5.83	5.833	17.23	No
KU00	Hispasat	Hispasat	-61	44.20	12.10	36000	39.26	0.90	136.026816	25.75	-80.25	78.54	53.03	4.53	4.531	17.23	No
KU00	Hispasat	Hispasat	-61	43.20	12.10	36000	39.26	0.90	136.026816	39.5	-119.75	14.535	15.20	5.83	5.833	17.23	No
KU00	SES	SES	-101	50.6	12.00	36000	50.8	3.7	125	40.2	-103.7	27.9	43.4	9.5	0.000	40.00	No
KU00	SES	SES	-101	51.6	12.00	36000	50.8	3.7	125	38.91	-77.04	44.66	38.5	9.5	0.002	40.00	No
KU00	SES	SES	-101	52.6	12.00	36000	50.8	3.7	125	25.76	-80.19	78.18	52	9.5	0.003	40.00	No
KU00	SES	SES	-101	39	12.00	10000	34.5	0.6	175	32.7	-80	60.9	45.7	0	0.36	40.00	No
KU00	SES	SES	-101	39	12.00	10000	34.5	0.6	175	44.75	-69.5	31.3	29.7	0	0.23	40.00	No
KU00	SES	SES	-129	44	11.70	18000	38.1	0.9	150	21.68	-158.03	64.8	48.6	0	0.017	40.00	Yes
KU00	SES	SES	-87	41.5	11.90	36000	39.8	1.1	150	38.91	-77.04	44.66	43.7	0	0.036	40.00	Yes
KU00	SES	SES	-87	40.5	11.90	36000	39.8	1.1	150	36.17	-115.14	17.05	38.6	0	0.005	40.00	Yes
KU00	SES	SES	-87	40.5	11.90	36000	39.8	1.1	150	25.76	-80.19	78.18	58.9	0	0.163	40.00	Yes
KU00	SES	SES	-90	41.7	11.80	10000	32.1	0.45	200	32.7	-80	60.9	50.4	0	0.260	40.00	Yes
KU00	SES	SES	-101	38	12.00	10000	34.5	0.6	250	38.91	-77.04	44.66	38.5	0	0.290	40.00	Yes
KU00	SES	SES	-101	39.6	12.00	10000	34.5	0.6	250	38.91	-77.04	44.66	38.5	0	0.080	40.00	Yes
KU00	SES	SES	-101	38	12.00	10000	34.5	0.6	250	36.17	-115.14	17.05	45.4	0	0.030	40.00	Yes
KU00	SES	SES	-101	38	12.00	10000	34.5	0.6	250	25.76	-80.19	78.18	52	0	0.470	40.00	Yes
KU00	SES	SES	-129	38.5	11.70	18000	38.1	0.9	300	38.91	-77.04	44.66	20.5	0	0.400	40.00	Yes
KU00	SES	SES	-129	40	11.70	18000	38.1	0.9	300	38.91	-77.04	44.66	20.5	0	0.150	40.00	Yes

KU00	SES	SES	-129	38.5	11.70	18000	38.1	0.9	300	36.17	-115.14	17.05	45.5	0	0.020	40.00	Yes
KU00	SES	SES	-129	38.5	11.70	18000	38.1	0.9	300	25.76	-80.19	78.18	28.7	0	0.600	40.00	Yes
KU00	SES	SES	-129	40	11.70	18000	38.1	0.9	300	25.76	-80.19	78.18	28.7	0	0.260	40.00	Yes
KU00	SES	SES	-87	40.5	11.90	36000	39.8	1.1	300	38.91	-77.04	44.66	43.7	0	0.070	40.00	Yes
KU00	SES	SES	-87	40.5	11.90	36000	39.8	1.1	300	36.17	-115.14	17.05	38.6	0	0.020	40.00	Yes
KU00	SES	SES	-87	40.5	11.90	36000	39.8	1.1	300	25.76	-80.19	78.18	58.9	0	0.160	40.00	Yes
KU00	SES	SES	-90	42.5	11.80	10000	32.1	0.45	200	41.86	-87.7	37.4	41.6	0	0.074	40.00	Yes
KA00	Alascom	ICFS	-138.9	59.5	19.95	62500	45.00		290.00	56.25	-134.65			0.00		40.00	Yes
KA00	Alascom	ICFS	-138.9	59.5	19.95	62500	45.00		290.00	56.12	-133.12			0.00		40.00	Yes
KA00	Alascom	ICFS	-138.9	59.5	19.95	62500	45.00		290.00	56.12	-133.12			0.00		40.00	Yes
KA00	Alascom	ICFS	-138.9	59.5	19.95	62500	45.00		290.00	56.25	-134.65			0.00		40.00	Yes
KA00	Astranis	Schedule S	-121	60.4	19.00	250000	39.90	0.60	200.00	42.25	-94.50	42.00	34.30	0.00	0.040	15.92	Yes
KA00	Astranis	Schedule S	-121	53	19.00	250000	39.90	0.60	200.00	42.25	-94.50	42.00	34.30	0.00	0.147	15.92	Yes
KA00	Astranis	Schedule S	-121	60.5	19.00	250000	43.40	0.90	200.00	42.25	-94.50	42.00	34.30	0.00	0.022	15.92	Yes
KA00	Astranis	Schedule S	-121	49.5	19.00	250000	43.40	0.90	200.00	42.25	-94.50	42.00	34.30	0.00	0.153	15.92	Yes
KA00	Astranis	Schedule S	-121	60.4	19.00	250000	39.90	0.60	200.00	37.75	-120.00	19.00	46.20	0.00	0.007	15.92	Yes
KA00	Astranis	Schedule S	-121	53	19.00	250000	39.90	0.60	200.00	37.75	-120.00	19.00	46.20	0.00	0.032	15.92	Yes
KA00	Astranis	Schedule S	-121	60.5	19.00	250000	43.40	0.90	200.00	37.75	-120.00	19.00	46.20	0.00	0.003	15.92	Yes
KA00	Astranis	Schedule S	-121	49.5	19.00	250000	43.40	0.90	200.00	37.75	-120.00	19.00	46.20	0.00	0.031	15.92	Yes
KA00	DirecTV	S.1328 (Ka)	-101	41.8	18.33	54000	54.50		160.00	25.76	-80.19			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	18.68	54000	54.50		160.00	25.76	-80.19			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.3	18.33	36000	39.90		150.00	25.76	-80.19			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.3	18.68	36000	39.90		150.00	25.76	-80.19			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	59.5	18.33	36000	39.90		150.00	25.76	-80.19			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	59.5	18.68	36000	39.90		150.00	25.76	-80.19			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.4	19.95	24000	39.90		150.00	25.76	-80.19			9.00		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	18.33	54000	54.50		160.00	38.91	-77.04			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	18.68	54000	54.50		160.00	38.91	-77.04			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	19.95	54000	54.50		160.00	38.91	-77.04			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.3	18.33	36000	39.90		150.00	38.91	-77.04			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.3	18.68	36000	39.90		150.00	38.91	-77.04			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	59.5	18.33	36000	39.90		150.00	38.91	-77.04			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	59.5	18.68	36000	39.90		150.00	38.91	-77.04			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.4	19.95	24000	39.90		150.00	38.91	-77.04			9.00		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	18.33	54000	54.50		160.00	36.17	-115.14			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	18.68	54000	54.50		160.00	36.17	-115.14			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-101	41.8	19.95	54000	54.50		160.00	36.17	-115.14			6.90		40.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.3	18.33	36000	39.90		150.00	36.17	-115.14			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.3	18.68	36000	39.90		150.00	36.17	-115.14			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	59.5	18.33	36000	39.90		150.00	36.17	-115.14			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	59.5	18.68	36000	39.90		150.00	36.17	-115.14			5.20		20.00	No
KA00	DirecTV	S.1328 (Ka)	-103	58.4	19.95	24000	39.90		150.00	36.17	-115.14			9.00		40.00	No
KA00	DirecTV	Schedule-S	-102.75	59.5	19.95	36000	65.40		250.00	35.31	-119.08			0.00		40.00	Yes
KA00	DirecTV	IFCS/Filing	-99.2	53.4	19.00	30000	41.30		195.00	46.19	-123.75			8.90		24.00	No
KA00	DirecTV	IFCS/Filing	-99.2	49.6	19.00	30000	41.30		195.00	37.00	-114.00			6.40		24.00	No

KA00	DirecTV	IFCS/Filing	-99.2	49.5	19.00	30000	41.30		195.00	36.93	-99.40			4.70		24.00	No
KA00	DirecTV	IFCS/Filing	-99.2	52.2	19.00	30000	41.30		195.00	42.64	-73.74			7.90		24.00	No
KA00	DirecTV	IFCS/Filing	-99.2	53.9	19.00	30000	41.30		195.00	34.32	-88.17			6.40		24.00	No
KA00	DirecTV	IFCS/Filing	-99.2	49.8	19.00	30000	41.30		195.00	32.00	-103.98			6.40		24.00	No
KA00	DirecTV	IFCS/Filing	-99.2	55.7	19.00	30000	41.30		195.00	18.46	-65.99			6.40		24.00	No
KA00	EchoStar	Schedule-S	-97.1	71.00	20.08	250000	62.00		250.00	35.09	-106.65			0.00		40.00	Yes
KA00	EchoStar	Schedule-S	-97.1	71.00	18.68	500000	43.70		250.00	25.76	-80.19			0.00		40.00	Yes
KA00	EchoStar	Schedule-S	-97.1	71.00	18.68	500000	43.70		250.00	38.91	-77.04			0.00		40.00	Yes
KA00	EchoStar	Schedule-S	-97.1	71.00	18.68	500000	43.70		250.00	36.17	-115.14			0.00		40.00	Yes
KA00	EchoStar	ICFS	-121	65.27	19.95	200000	59.00		290.00	41.13	-104.74			0.00		40.00	Yes
KA00	EchoStar	ICFS	-121	65.54	19.95	200000	59.00		290.00	41.13	-104.74			0.00		40.00	Yes
KA00	EchoStar	ICFS	-121	65.70	19.95	200000	59.00		290.00	41.13	-104.74			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	57.80	20.20	500000	48.00		290.00	25.92	-97.47			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	56.20	20.20	500000	48.00		290.00	25.92	-97.47			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	60.50	20.20	500000	48.00		290.00	25.92	-97.47			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	65.10	20.20	500000	48.00		290.00	25.92	-97.47			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	69.00	20.20	500000	48.00		290.00	25.92	-97.47			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	56.20	20.20	500000	48.00		290.00	31.85	-102.33			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	69.00	20.20	500000	48.00		290.00	31.85	-102.33			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	56.20	20.20	500000	66.00		290.00	41.13	-104.74			0.00		40.00	Yes
KA00	EchoStar	ICFS	-95.2	69.00	20.20	500000	66.00		290.00	41.13	-104.74			0.00		40.00	Yes
KA00	Hispasat	ICFS	-61	36.80	18.00	15000	63.60		275.40	40.90	-96.30			0.00		40.00	Yes
KA00	Hispasat	ICFS	-61	37.20	18.20	15000	63.60		275.40	40.61	-74.66			0.00		40.00	Yes
KA00	Hispasat	ICFS	-61	32.60	18.40	15000	67.10		252.30	39.28	-104.81			0.00		40.00	Yes
KA00	Hispasat	ICFS	-61	35.70	18.60	15000	63.60		275.40	32.99	-106.98			0.00		40.00	Yes
KA00	SES	ITU Filing (ODYSSEY-9	-115.14	-19.50	19.00	0.001	59.70		200.00	36.17	-115.14			0.00		40.00	Yes
KA00	SES	ITU Filing (ODYSSEY-9	-115.14	-24.00	19.00	0.001	36.70		200.00	36.17	-115.14			0.00		40.00	Yes
KA00	SES	Schedule-S	-125	64.00	19.95	140000	62.00		250.00	48.15	-119.69			0.00		40.00	Yes
KA00	SES	Schedule-S	-67	63.30	18.40	225000	59.20		250.00	27.69	-99.45			0.00		40.00	Yes
KA00	SES	Schedule-S	-125	64.00	19.95	500000	44.10		250.00	25.76	-80.19			0.00		40.00	Yes
KA00	SES	Schedule-S	-67	61.40	18.00	72000	42.70		250.00	25.76	-80.19			0.00		40.00	Yes
KA00	SES	Schedule-S	-67	61.40	18.00	72000	42.70		250.00	38.91	-77.04			0.00		40.00	Yes
KA00	SES	Schedule-S	-125	64.00	19.95	500000	44.10		250.00	36.17	-115.14			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	63.30	19.50	150000	60.00		290.00	27.69	-99.45			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.00	19.50	250000	40.00		290.00	38.91	-77.04			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.00	19.50	250000	40.00		290.00	25.76	-80.19			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.70	19.90	250000	40.00		290.00	25.76	-80.19			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.70	19.90	800000	43.00		290.00	38.91	-77.04			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.70	19.90	800000	43.00		290.00	25.76	-80.19			0.00		40.00	Yes
KA00	SES	ICFS	-105	61.40	19.90	800000	43.00		290.00	38.78	-77.57			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.70	19.95	250000	40.00		290.00	38.91	-77.04			0.00		40.00	Yes
KA00	SES	ICFS	-105	61.74	19.95	125000	58.00		290.00	34.33	-119.00			0.00		40.00	Yes
KA00	SES	ICFS	-67.1	62.70	19.95	250000	59.00		290.00	27.69	-99.45			0.00		40.00	Yes
KA00	SES	ICFS	-105	61.74	19.95	125000	58.00		290.00	34.33	-119.00			0.00		40.00	Yes
KA00	U.S. DoW	CR/116 (Ka)	-119	69.50	19.60	3200000	70.70		255.00	39.00	-119.00			10.00		40.00	No

KA00	U.S. DoW	CR/116 (Ka)	-119	69.50	19.60	3200000	70.70		255.00	39.00	-119.00			10.00		40.00	No
KA00	U.S. DoW	CR/116 (Ka)	-119	69.50	19.60	3200000	70.70		255.00	39.00	-119.00			10.00		40.00	No
KA00	U.S. DoW	CR/116 (Ka)	-119	69.50	19.60	3200000	70.70		255.00	39.00	-119.00			10.00		40.00	No
KA00	U.S. DoW	S.1328 (Ka)	-115.14	69.50	19.60	3200000	70.00		255.00	36.17	-115.14			17.50		23.00	No
KA00	Viasat	ICFS/Filing	-115.1	35.00	18.60	1000	40.90		209.00	49.00	-120.00			0.00		24.20	Yes
KA00	Viasat	ICFS/Filing	-115.1	26.00	18.60	1000	57.12		162.87	45.13	-93.10			9.50		21.00	No
KA00	Viasat	ICFS/Filing	-115.1	26.00	18.60	1000	57.12		162.87	38.75	-78.64			9.50		21.00	No
KA00	Viasat	ICFS/Filing	-115.1	26.00	18.60	1000	60.70		209.00	45.33	-85.23			12.00		21.00	No
KA00	Viasat	ICFS/Filing	-115.1	26.00	18.60	1000	60.70		209.00	33.16	-117.35			14.00		21.00	No
KA00	Viasat	ICFS/Filing	-88.9	40.00	18.60	1000	36.00		137.00	49.00	-120.00			0.00		23.10	Yes
KA00	Viasat	ICFS/Filing	-88.9	40.00	18.60	1000	40.90		209.00	49.00	-120.00			0.00		24.20	Yes
KA00	Viasat	ICFS/Filing	-88.9	26.00	18.60	1000	51.50		162.87	38.75	-78.64			8.50		16.00	No
KA00	Viasat	ICFS/Filing	-88.9	38.00	18.60	1000	51.50		162.87	45.33	-85.23			12.00		16.00	No
KA00	Viasat	ICFS/Filing	-88.9	26.00	18.60	1000	57.12		162.87	45.13	-93.10			10.50		21.00	No
KA00	Viasat	ICFS/Filing	-88.9	26.00	18.60	1000	51.50		162.87	33.16	-117.35			9.50		16.00	No
KA00	Viasat	ICFS/Filing	-69.9	35.00	18.60	1000	46.00		235.00	49.00	-97.50			0.00		24.70	Yes
KA00	Viasat	ICFS/Filing	-69.9	35.00	18.60	1000	40.90		209.00	49.00	-97.50			0.00		24.20	Yes
KA00	Viasat	ICFS/Filing	-69.9	26.00	18.60	1000	57.12		162.87	38.75	-78.64			10.50		21.00	No
KA00	Viasat	ICFS/Filing	-69.9	26.00	18.60	1000	60.70		209.00	45.33	-85.23			13.00		21.00	No
KA00	Viasat	ICFS/Filing	-69.9	26.00	18.60	1000	60.70		209.00	33.16	-117.35			13.00		21.00	No
KA00	Viasat	ICFS/Filing	-63	35.00	18.60	1000	40.90		209.00	37.00	-108.50			0.00		24.20	Yes
KA00	Viasat	ICFS/Filing	-63	26.00	18.60	1000	57.12		162.87	45.13	-93.10			9.50		21.00	No
KA00	Viasat	ICFS/Filing	-63	26.00	18.60	1000	60.70		209.00	45.33	-85.23			13.00		21.00	No
KA00	Viasat	ICFS/Filing	-63	26.00	18.60	1000	57.12		162.87	38.75	-78.64			10.50		21.00	No