



Leaflet | © OpenStreetMap

Clear Markers

Choose File satellite_tle_data_saved.txt

Load Local TLE

Toggle Satellites

Download CSV

☒ Enable Latency Calculation

Time Offset (seconds): 3

Transfer complete in 8.368 s (simulated). Final E2E latency ~ 64.030 ms.

Video: Choose File WhatsApp V...94392c.mp4 Algorithm: Dijkstra

Per-hop proc delay (ms): 10

Bandwidth (Mbps): 5

ISL threshold (km): 1500

Start Transfer

UTC: 2025-10-28 20:48:59 | IN IST: 2025-10-29 02:18:59

#	Name	Latitude	Longitude	Altitude (km)
1	Point A	42.05	1.12	1000
2	Point B	42.05	1.12	1000
3	Point C	42.05	1.12	1000
4	Point D	42.05	1.12	1000
5	Point E	42.05	1.12	1000
6	Point F	42.05	1.12	1000
7	Point G	42.05	1.12	1000
8	Point H	42.05	1.12	1000
9	Point I	42.05	1.12	1000
10	Point J	42.05	1.12	1000
11	Point K	42.05	1.12	1000
12	Point L	42.05	1.12	1000
13	Point M	42.05	1.12	1000
14	Point N	42.05	1.12	1000
15	Point O	42.05	1.12	1000
16	Point P	42.05	1.12	1000
17	Point Q	42.05	1.12	1000
18	Point R	42.05	1.12	1000
19	Point S	42.05	1.12	1000
20	Point T	42.05	1.12	1000
21	Point U	42.05	1.12	1000
22	Point V	42.05	1.12	1000
23	Point W	42.05	1.12	1000
24	Point X	42.05	1.12	1000
25	Point Y	42.05	1.12	1000
26	Point Z	42.05	1.12	1000
27	Point AA	42.05	1.12	1000
28	Point AB	42.05	1.12	1000
29	Point AC	42.05	1.12	1000
30	Point AD	42.05	1.12	1000
31	Point AE	42.05	1.12	1000
32	Point AF	42.05	1.12	1000
33	Point AG	42.05	1.12	1000
34	Point AH	42.05	1.12	1000
35	Point AI	42.05	1.12	1000
36	Point AJ	42.05	1.12	1000
37	Point AK	42.05	1.12	1000
38	Point AL	42.05	1.12	1000
39	Point AM	42.05	1.12	1000
40	Point AN	42.05	1.12	1000
41	Point AO	42.05	1.12	1000
42	Point AP	42.05	1.12	1000
43	Point AQ	42.05	1.12	1000
44	Point AR	42.05	1.12	1000
45	Point AS	42.05	1.12	1000
46	Point AT	42.05	1.12	1000
47	Point AU	42.05	1.12	1000
48	Point AV	42.05	1.12	1000
49	Point AW	42.05	1.12	1000
50	Point AX	42.05	1.12	1000
51	Point AY	42.05	1.12	1000
52	Point AZ	42.05	1.12	1000
53	Point BA	42.05	1.12	1000
54	Point BB	42.05	1.12	1000
55	Point BC	42.05	1.12	1000
56	Point BD	42.05	1.12	1000
57	Point BE	42.05	1.12	1000
58	Point BF	42.05	1.12	1000
59	Point BG	42.05	1.12	1000
60	Point BH	42.05	1.12	1000
61	Point BI	42.05	1.12	1000
62	Point BJ	42.05	1.12	1000
63	Point BK	42.05	1.12	1000
64	Point BL	42.05	1.12	1000
65	Point BM	42.05	1.12	1000
66	Point BN	42.05	1.12	1000
67	Point BO	42.05	1.12	1000
68	Point BP	42.05	1.12	1000
69	Point BQ	42.05	1.12	1000
70	Point BR	42.05	1.12	1000
71	Point BS	42.05	1.12	1000
72	Point BT	42.05	1.12	1000
73	Point BU	42.05	1.12	1000
74	Point BV	42.05	1.12	1000
75	Point BW	42.05	1.12	1000
76	Point BX	42.05	1.12	1000
77	Point BY	42.05	1.12	1000
78	Point BZ	42.05	1.12	1000
79	Point CA	42.05	1.12	1000
80	Point CB	42.05	1.12	1000
81	Point CC	42.05	1.12	1000
82	Point CD	42.05	1.12	1000
83	Point CE	42.05	1.12	1000
84	Point CF	42.05	1.12	1000
85	Point CG	42.05	1.12	1000
86	Point CH	42.05	1.12	1000
87	Point CI	42.05	1.12	1000
88	Point CJ	42.05	1.12	1000
89	Point CK			

#	Name	Latitude	Longitude	Altitude (km)
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
60	60	60	60	60
61	61	61	61	61
62	62	62	62	62
63	63	63	63	63
64	64	64	64	64
65	65	65	65	65
66	66	66	66	66
67	67	67	67	67
68	68	68	68	68
69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

4/13

5/13

#	Name	Latitude	Longitude	Altitude (km)
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
32	32	32	32	32
33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
60	60	60	60	60
61	61	61	61	61
62	62	62	62	62
63	63	63	63	63
64	64	64	64	64
65	65	65	65	65
66	66	66	66	66
67	67	67	67	67
68	68	68	68	68
69	69	69	69	69
70	70	70	70	70
71	71	71	71	71
72	72	72	72	72
73	73	73	73	73
74	74	74	74	74
75	75	75	75	75
76	76	76	76	76
77	77	77	77	77
78	78	78	78	78
79	79	79	79	79
80	80	80	80	80
81	81	81	81	81
82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100


Table 1: Overall Instantaneous Latency (All Satellites & Ground Points)

Satellite Name	Nearest Ground Station	Distance (km)	Latency (ms)
STARLINK-1008	St Johns, NL	6177.16	20.605
STARLINK-1010	Merrillan, WI	397.65	1.326
STARLINK-1011	—	Infinity	Infinity
STARLINK-1012	—	Infinity	Infinity
STARLINK-1017	—	Infinity	Infinity
STARLINK-1019	—	Infinity	Infinity
STARLINK-1020	—	Infinity	Infinity
STARLINK-1031	Marathon, ON	1098.75	3.665
STARLINK-1036	St Johns, NL	5395.86	17.999
STARLINK-1039	Akita, Japan	8961.74	29.893
STARLINK-1042	Marathon, ON	4223.82	14.089
STARLINK-1043	—	Infinity	Infinity
STARLINK-1046	North Bend, WA	8050.19	26.853
STARLINK-1047	Cabo San Lucas, Mexico	1160.49	3.871
STARLINK-1048	Akita, Japan	6877.81	22.942
STARLINK-1053	Cabo San Lucas, Mexico	3412.46	11.383
STARLINK-1054	Akita, Japan	4628.62	15.439
STARLINK-1056	St Johns, NL	3580.84	11.944
STARLINK-1060	St Johns, NL	4473.46	14.922
STARLINK-1063	Marathon, ON	2205.63	7.357
STARLINK-1067	—	Infinity	Infinity
STARLINK-1068	Angeles, Philippines	6248.34	20.842
STARLINK-1112	Akita, Japan	6322.52	21.090
STARLINK-1114	Akita, Japan	1877.32	6.262
STARLINK-1123	Akita, Japan	1951.75	6.510
STARLINK-1144	Akita, Japan	7241.60	24.155
STARLINK-1091	Cabo San Lucas, Mexico	1839.55	6.136
STARLINK-1094	North Bend, WA	2792.70	9.315
STARLINK-1096	North Bend, WA	1416.12	4.724
STARLINK-1122	Angeles, Philippines	3672.07	12.249
STARLINK-1080	—	Infinity	Infinity
STARLINK-1090	St Johns, NL	503.17	1.678
STARLINK-1107	Akita, Japan	4850.45	16.179
STARLINK-1132	St Johns, NL	5254.55	17.527
STARLINK-1131	Marathon, ON	661.69	2.207
STARLINK-1134	Hawthorne, CA	2060.08	6.872
STARLINK-1156	North Bend, WA	1430.88	4.773
STARLINK-1159	Merrillan, WI	2712.78	9.049
STARLINK-1166	—	Infinity	Infinity

Satellite Name	Nearest Ground Station	Distance (km)	Latency (ms)
STARLINK-1169	Conrad, MT	1691.04	5.641
STARLINK-1171	Hawthorne, CA	7222.40	24.091
STARLINK-1133	North Bend, WA	1275.97	4.256
STARLINK-1167	Marathon, ON	5081.71	16.951
STARLINK-1168	Elwood, NE	2379.92	7.939
STARLINK-1172	Akita, Japan	4938.31	16.472
STARLINK-1153	Angeles, Philippines	3039.93	10.140
STARLINK-1151	North Bend, WA	5549.81	18.512
STARLINK-1190	St Johns, NL	4337.80	14.469
STARLINK-1173	St Johns, NL	5009.52	16.710
STARLINK-1185	Angeles, Philippines	3967.64	13.235
STARLINK-1183	North Bend, WA	6048.16	20.174
STARLINK-1176	St Johns, NL	2247.75	7.498
STARLINK-1142	Akita, Japan	5614.65	18.728
STARLINK-1152	Akita, Japan	4789.51	15.976
STARLINK-1184	Angeles, Philippines	3764.37	12.557
STARLINK-1193	Akita, Japan	5427.42	18.104
STARLINK-1143	Akita, Japan	3168.35	10.568
STARLINK-1202	St Johns, NL	3617.18	12.066
STARLINK-1216	Akita, Japan	7847.28	26.176
STARLINK-1225	Akita, Japan	1616.25	5.391
STARLINK-1230	Hawthorne, CA	6110.58	20.383
STARLINK-1234	Hawthorne, CA	8462.80	28.229
STARLINK-1269	North Bend, WA	5673.82	18.926
STARLINK-1154	North Bend, WA	7812.51	26.060
STARLINK-1199	St Johns, NL	4200.81	14.012
STARLINK-1209	Akita, Japan	3456.72	11.530
STARLINK-1210	Marathon, ON	2279.15	7.602
STARLINK-1231	Akita, Japan	5890.26	19.648
STARLINK-1271	Hawthorne, CA	7150.65	23.852
STARLINK-1191	St Johns, NL	6633.22	22.126
STARLINK-1212	Angeles, Philippines	4801.18	16.015
STARLINK-1215	St Johns, NL	4059.05	13.540
STARLINK-1221	Angeles, Philippines	5611.88	18.719
STARLINK-1222	Marathon, ON	2991.59	9.979
STARLINK-1226	Akita, Japan	4810.74	16.047
STARLINK-1227	Akita, Japan	4585.03	15.294
STARLINK-1246	Elwood, NE	2383.84	7.952
STARLINK-1270	Akita, Japan	2487.58	8.298
STARLINK-1279	Cabo San Lucas, Mexico	1819.69	6.070
STARLINK-1301	Marathon, ON	1712.40	5.712

Satellite Name	Nearest Ground Station	Distance (km)	Latency (ms)
STARLINK-1306	Cabo San Lucas, Mexico	864.86	2.885
STARLINK-1262	St Johns, NL	1662.88	5.547
STARLINK-1273	Cabo San Lucas, Mexico	2780.41	9.274
STARLINK-1276	Cabo San Lucas, Mexico	4372.41	14.585
STARLINK-1277	—	Infinity	Infinity
STARLINK-1281	—	Infinity	Infinity
STARLINK-1300	St Johns, NL	3134.51	10.456
STARLINK-1302	St Johns, NL	4498.99	15.007
STARLINK-1304	Akita, Japan	3358.17	11.202
STARLINK-1305	—	Infinity	Infinity
STARLINK-1319	—	Infinity	Infinity
STARLINK-1266	Cabo San Lucas, Mexico	4046.61	13.498
STARLINK-1267	St Johns, NL	1062.48	3.544
STARLINK-1272	Cabo San Lucas, Mexico	474.02	1.581
STARLINK-1274	—	Infinity	Infinity
STARLINK-1280	St Johns, NL	3906.62	13.031
STARLINK-1283	Hawthorne, CA	2543.87	8.485
STARLINK-1284	Merrillan, WI	1419.53	4.735
STARLINK-1292	Akita, Japan	874.12	2.916
STARLINK-1297	St Johns, NL	4112.95	13.719
STARLINK-1307	Hawthorne, CA	1908.16	6.365
STARLINK-1312	Elwood, NE	2599.51	8.671
STARLINK-1255	Marathon, ON	3779.41	12.607
STARLINK-1259	Elwood, NE	2066.80	6.894
STARLINK-1260	Elwood, NE	1141.51	3.808
STARLINK-1263	Marathon, ON	4775.43	15.929
STARLINK-1265	St Johns, NL	3032.35	10.115
STARLINK-1278	—	Infinity	Infinity
STARLINK-1296	Hawthorne, CA	3644.36	12.156
STARLINK-1298	Merrillan, WI	1034.61	3.451
STARLINK-1309	Angeles, Philippines	281.58	0.939
STARLINK-1316	Merrillan, WI	1256.23	4.190
STARLINK-1318	Cabo San Lucas, Mexico	1721.24	5.741
STARLINK-1286	Elwood, NE	3667.45	12.233
STARLINK-1308	St Johns, NL	2180.26	7.273
STARLINK-1329	Akita, Japan	2115.21	7.056
STARLINK-1338	Elwood, NE	1179.36	3.934
STARLINK-1350	North Bend, WA	1125.45	3.754
STARLINK-1362	Merrillan, WI	2786.15	9.294
STARLINK-1368	Merrillan, WI	755.88	2.521
STARLINK-1371	St Johns, NL	1963.84	6.551

Satellite Name	Nearest Ground Station	Distance (km)	Latency (ms)
STARLINK-1372	Cabo San Lucas, Mexico	4287.93	14.303
STARLINK-1373	Cabo San Lucas, Mexico	3470.66	11.577
STARLINK-1294	Akita, Japan	7448.52	24.846
STARLINK-1325	St Johns, NL	3132.53	10.449
STARLINK-1327	Hawthorne, CA	2227.33	7.430
STARLINK-1336	Angeles, Philippines	4034.04	13.456
STARLINK-1356	Marathon, ON	1324.41	4.418
STARLINK-1357	Hawthorne, CA	2381.75	7.945
STARLINK-1361	Akita, Japan	5630.09	18.780
STARLINK-1363	Angeles, Philippines	3759.63	12.541
STARLINK-1366	Angeles, Philippines	3919.25	13.073
STARLINK-1376	Hawthorne, CA	1157.40	3.861
STARLINK-1320	Akita, Japan	6938.22	23.143
STARLINK-1321	Merrillan, WI	2445.26	8.157
STARLINK-1328	Merrillan, WI	746.50	2.490
STARLINK-1331	Hawthorne, CA	1865.43	6.222
STARLINK-1333	Hawthorne, CA	810.86	2.705
STARLINK-1335	North Bend, WA	3316.93	11.064
STARLINK-1337	Cabo San Lucas, Mexico	1733.94	5.784
STARLINK-1347	Merrillan, WI	1736.93	5.794
STARLINK-1360	Angeles, Philippines	5801.16	19.351
STARLINK-1364	Akita, Japan	4182.96	13.953
STARLINK-1365	Marathon, ON	1643.00	5.480
STARLINK-1443	Akita, Japan	5144.10	17.159
STARLINK-1446	Cabo San Lucas, Mexico	2984.11	9.954
STARLINK-1448	Akita, Japan	7060.38	23.551
STARLINK-1451	Akita, Japan	8175.58	27.271
STARLINK-1452	St Johns, NL	3616.84	12.064
STARLINK-1453	Conrad, MT	673.63	2.247
STARLINK-1454	Cabo San Lucas, Mexico	2879.77	9.606
STARLINK-1456	North Bend, WA	3502.07	11.682
STARLINK-1457	Merrillan, WI	1483.70	4.949
STARLINK-1458	North Bend, WA	4361.10	14.547
STARLINK-1460	Akita, Japan	8682.17	28.961
STARLINK-1392	Elwood, NE	3035.13	10.124
STARLINK-1394	Merrillan, WI	2284.32	7.620
STARLINK-1402	St Johns, NL	3712.30	12.383
STARLINK-1404	North Bend, WA	4170.00	13.910
STARLINK-1413	Akita, Japan	3514.47	11.723
STARLINK-1417	Angeles, Philippines	2483.78	8.285
STARLINK-1420	Akita, Japan	710.12	2.369

Satellite Name	Nearest Ground Station	Distance (km)	Latency (ms)
STARLINK-1422	Akita, Japan	7399.19	24.681
STARLINK-1351	St Johns, NL	1201.03	4.006
STARLINK-1398	Akita, Japan	3476.47	11.596
STARLINK-1400	North Bend, WA	4179.94	13.943
STARLINK-1403	North Bend, WA	1167.50	3.894
STARLINK-1407	St Johns, NL	7713.15	25.728
STARLINK-1411	St Johns, NL	3869.64	12.908
STARLINK-1423	Akita, Japan	7379.72	24.616
STARLINK-1433	Angeles, Philippines	2784.00	9.286
STARLINK-1434	North Bend, WA	7390.65	24.653
STARLINK-1465	Angeles, Philippines	5333.83	17.792
STARLINK-1471	Akita, Japan	6560.03	21.882
STARLINK-1474	—	Infinity	Infinity
STARLINK-1475	Conrad, MT	2019.28	6.736
STARLINK-1480	North Bend, WA	4875.09	16.262
STARLINK-1500	Angeles, Philippines	5576.95	18.603
STARLINK-1504	—	Infinity	Infinity
STARLINK-1506	North Bend, WA	2091.43	6.976
STARLINK-1464	North Bend, WA	7385.46	24.635
STARLINK-1477	Angeles, Philippines	5625.65	18.765
STARLINK-1478	Akita, Japan	6549.20	21.846
STARLINK-1484	Marathon, ON	2644.45	8.821
STARLINK-1493	Merrillan, WI	2998.82	10.003
STARLINK-1494	Akita, Japan	7860.48	26.220
STARLINK-1502	Cabo San Lucas, Mexico	652.90	2.178
STARLINK-1470	St Johns, NL	5372.25	17.920
STARLINK-1482	St Johns, NL	2341.23	7.810
STARLINK-1485	Cabo San Lucas, Mexico	2624.96	8.756
STARLINK-1496	Cabo San Lucas, Mexico	1879.05	6.268
STARLINK-1497	Marathon, ON	2368.15	7.899
STARLINK-1510	—	Infinity	Infinity
STARLINK-1513	St Johns, NL	4627.06	15.434
STARLINK-1522	Marathon, ON	1650.52	5.506
STARLINK-1523	St Johns, NL	3104.35	10.355
STARLINK-1526	Marathon, ON	3845.73	12.828
STARLINK-1555	Conrad, MT	1756.36	5.859
STARLINK-1556	St Johns, NL	3670.59	12.244
STARLINK-1557	St Johns, NL	888.54	2.964

✳ Table 2: Inter-Nodal (A ↔ B) Latency

Node A	Node B	Distance (km)	Latency (ms)
A	B	NaN	NaN

 **Table 3: Ground ↔ Satellite Latency Summary**

Ground Station	Nearest Satellite	Distance (km)	Latency (ms)
North Bend, WA	STARLINK-1350	1125.45	3.754
Conrad, MT	STARLINK-1453	673.63	2.247
Elwood, NE	STARLINK-1260	1141.51	3.808
Merrillan, WI	STARLINK-1010	397.65	1.326
Hawthorne, CA	STARLINK-1333	810.86	2.705
Marathon, ON	STARLINK-1131	661.69	2.207
St Johns, NL	STARLINK-1090	503.17	1.678
Akita, Japan	STARLINK-1420	710.12	2.369
Angeles, Philippines	STARLINK-1309	281.58	0.939
Cabo San Lucas, Mexico	STARLINK-1272	474.02	1.581

