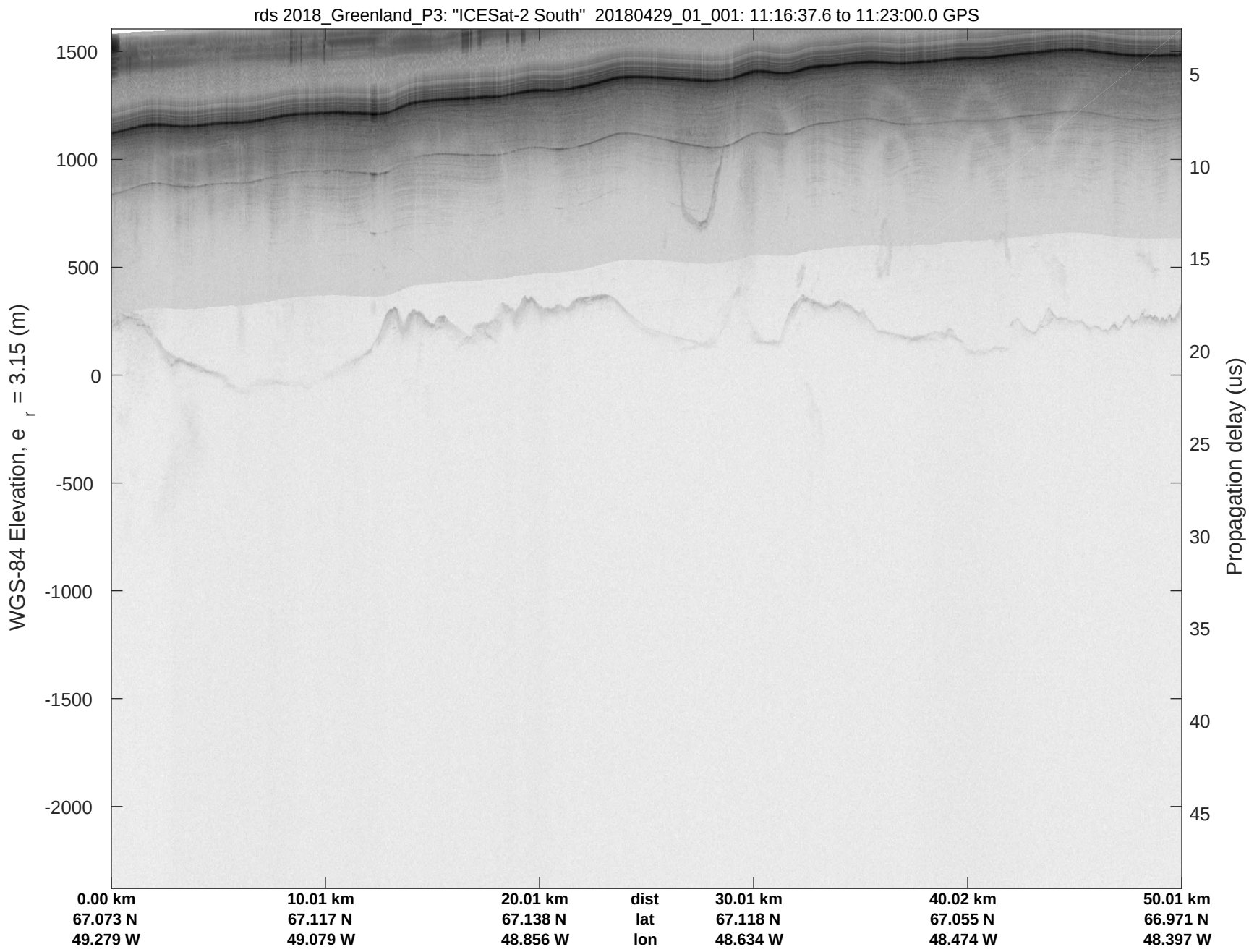
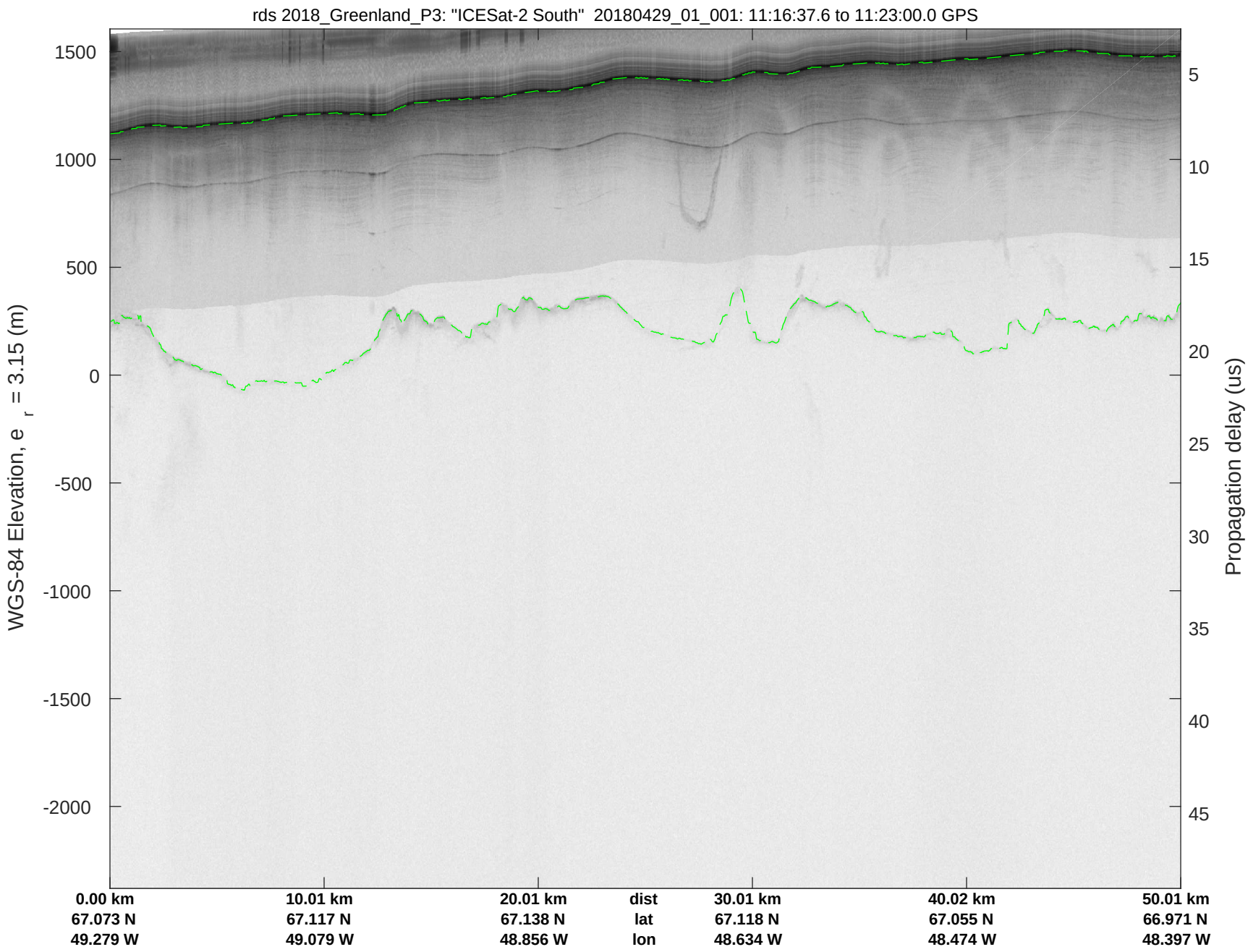

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_001: 11:16:37.6 to 11:23:00.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
0.00 km
67.073 N
49.279 W
10.01 km
67.117 N
49.079 W
20.01 km
67.138 N
48.856 W
dist
lat
lon
30.01 km
67.118 N
48.634 W
40.02 km
67.055 N
48.474 W
50.01 km
66.971 N
48.397 W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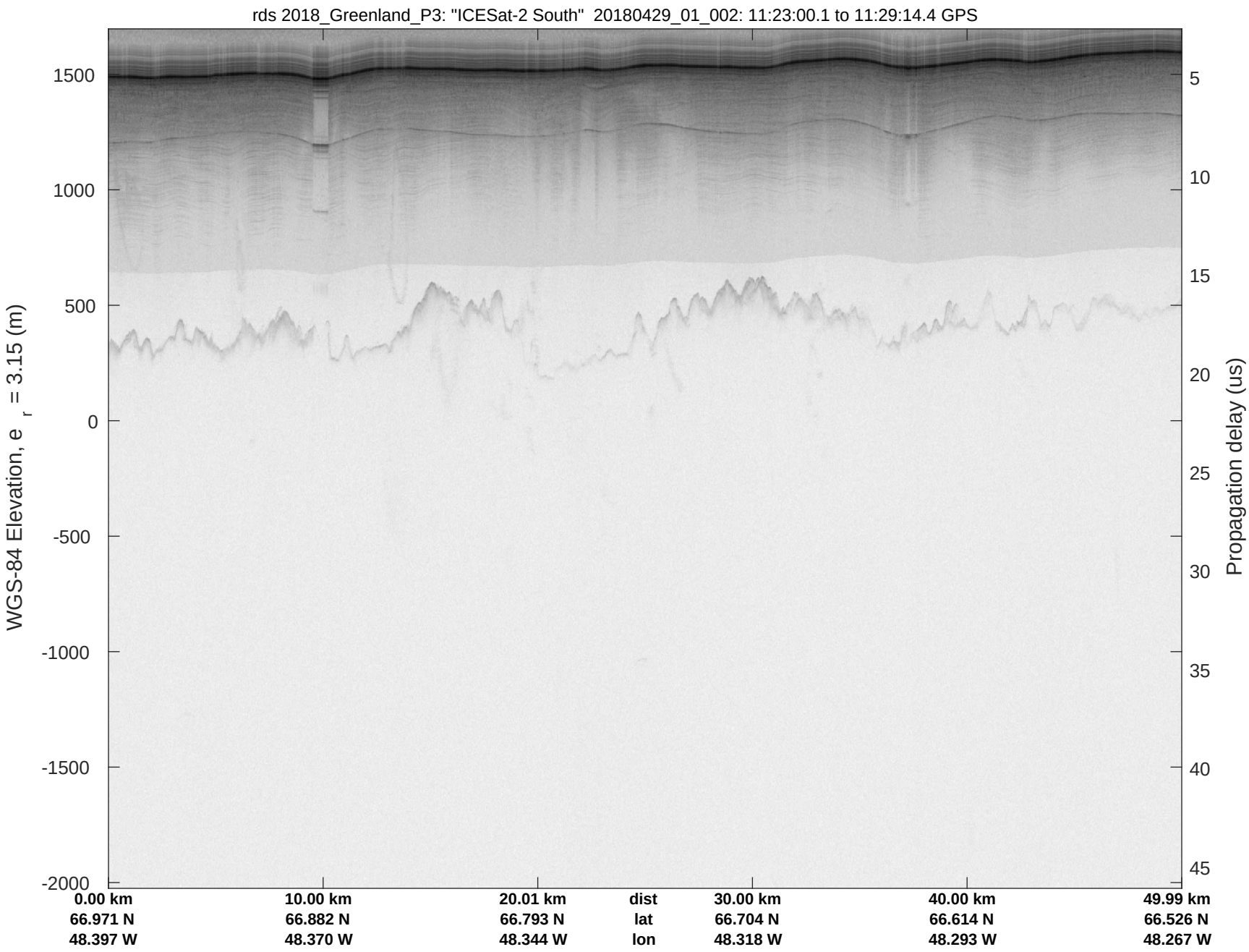
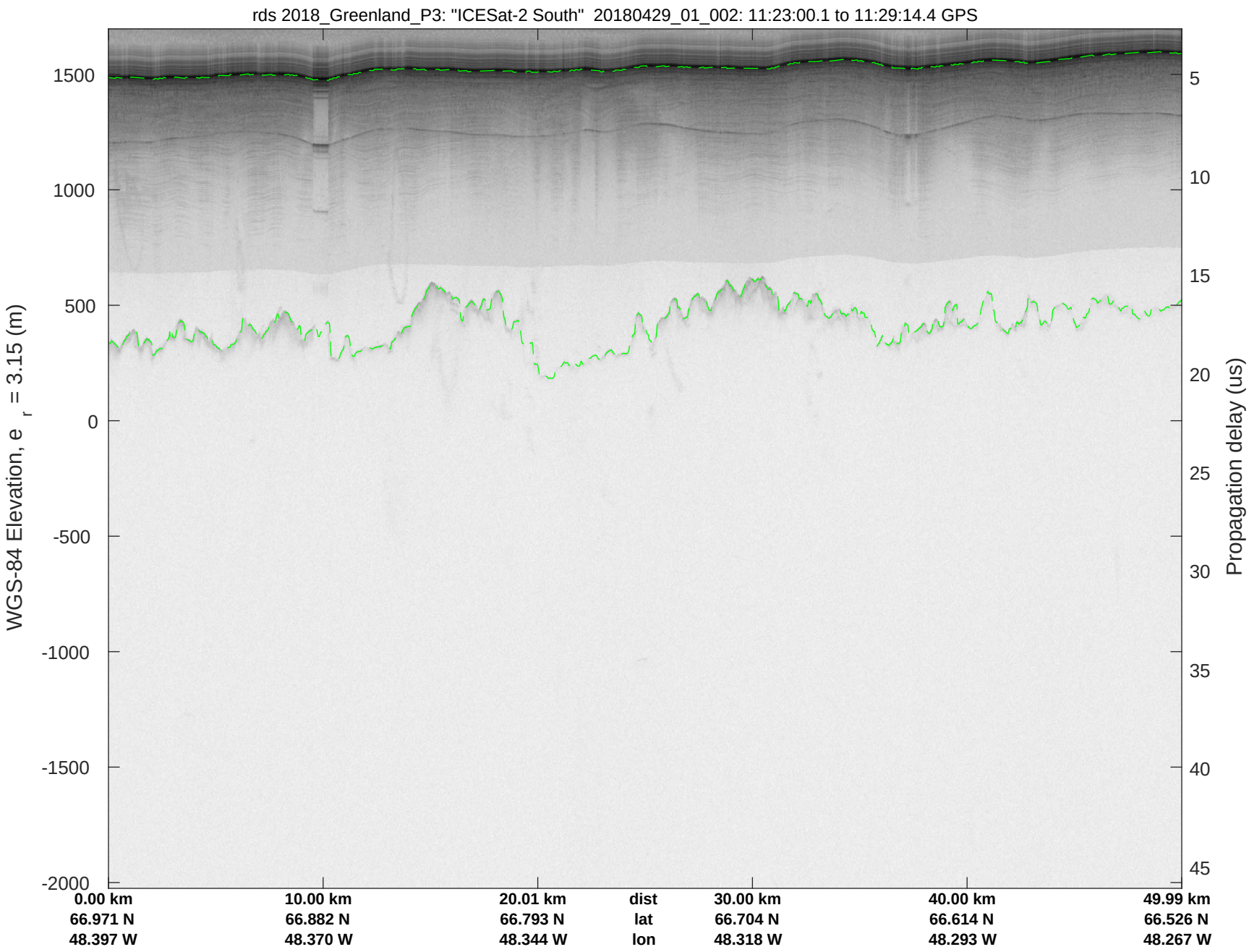
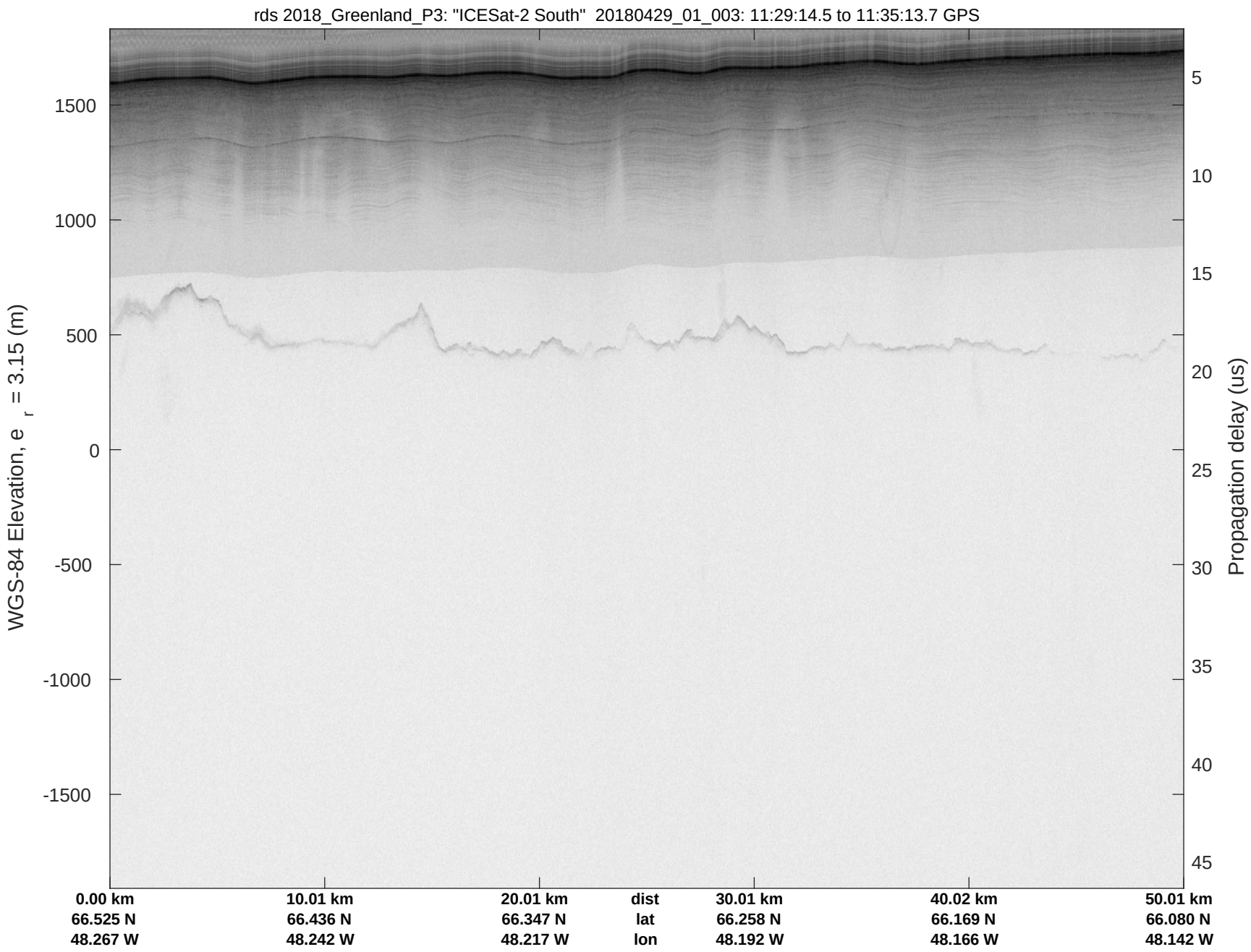
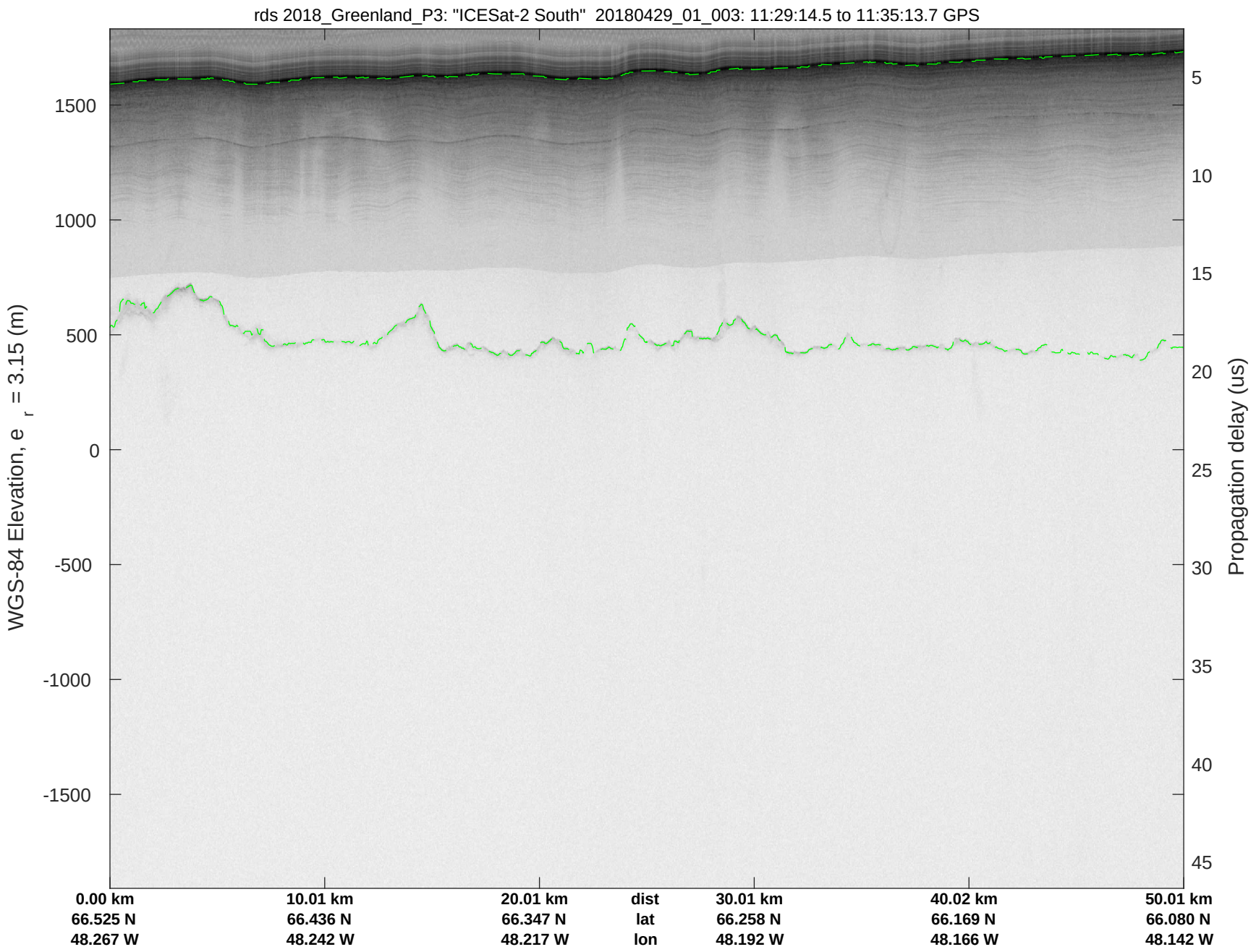
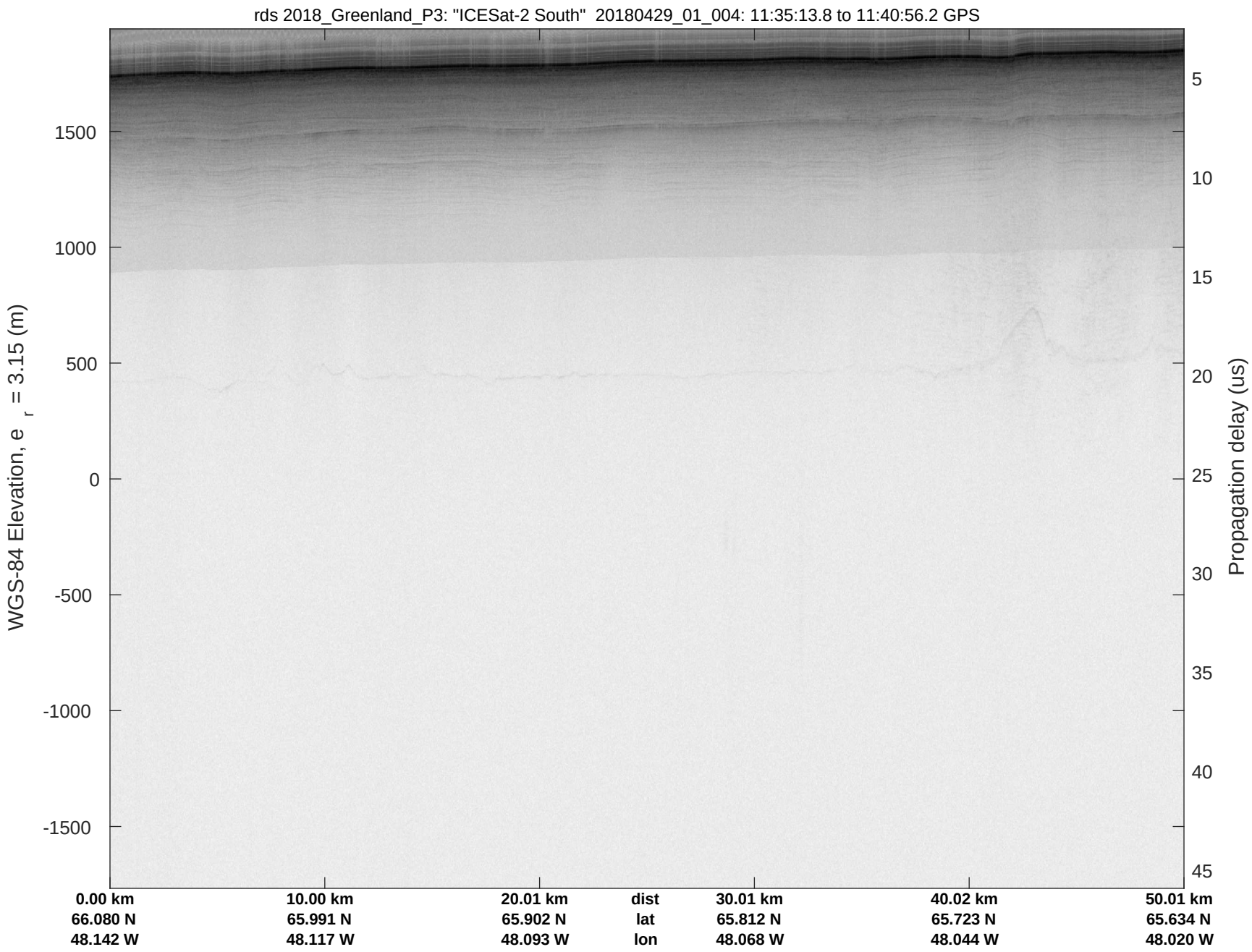
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
0.00 km
67.073 N
49.279 W
10.01 km
67.117 N
49.079 W
20.01 km
67.138 N
48.856 W
dist
lat
lon
30.01 km
67.118 N
48.634 W
40.02 km
67.055 N
48.474 W
50.01 km
66.971 N
48.397 W

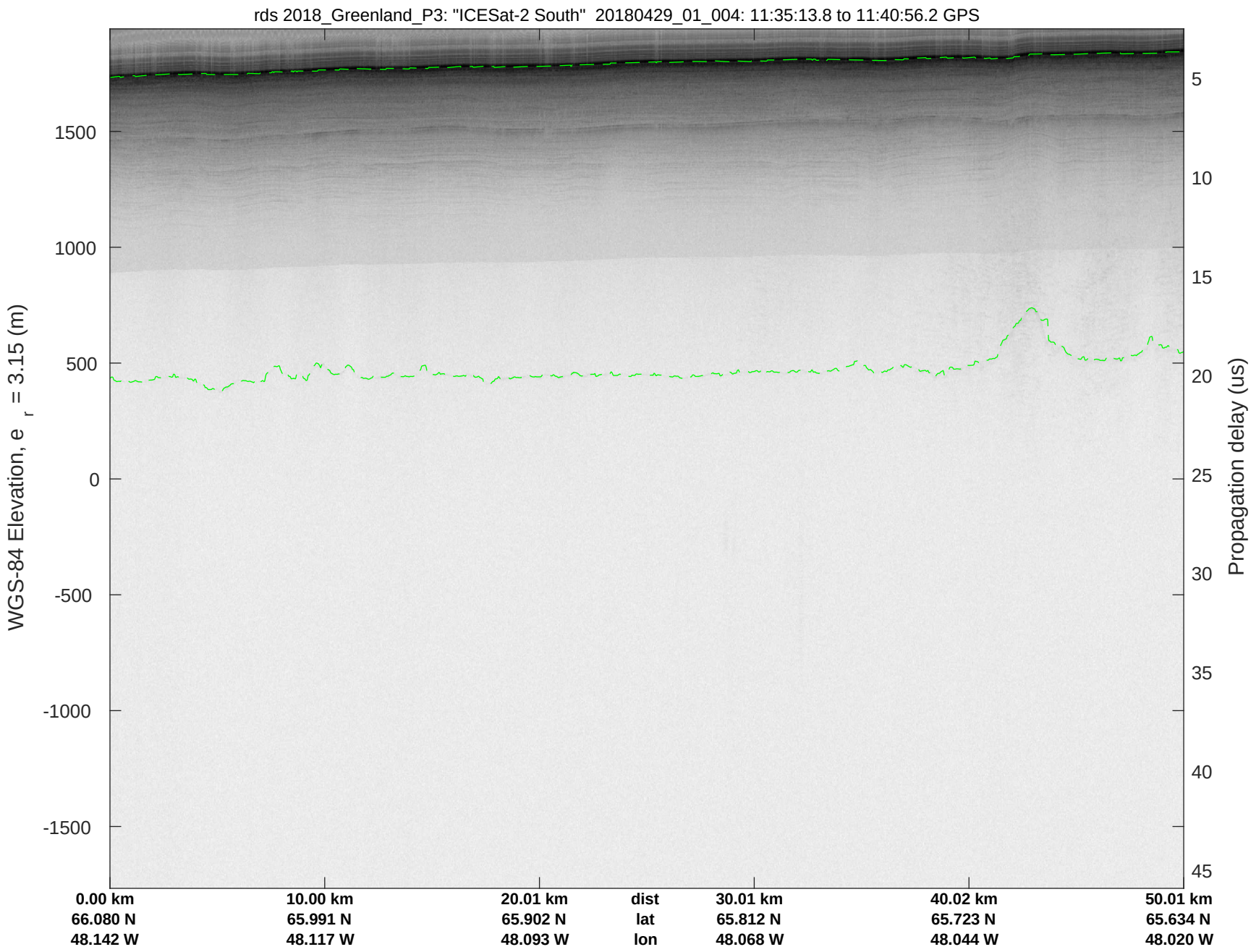

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_002: 11:23:00.1 to 11:29:14.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
0.00 km
66.971 N
48.397 W
10.00 km
66.882 N
48.370 W
20.01 km
66.793 N
48.344 W
dist
lat
lon
30.00 km
66.704 N
48.318 W
40.00 km
66.614 N
48.293 W
49.99 km
66.526 N
48.267 W

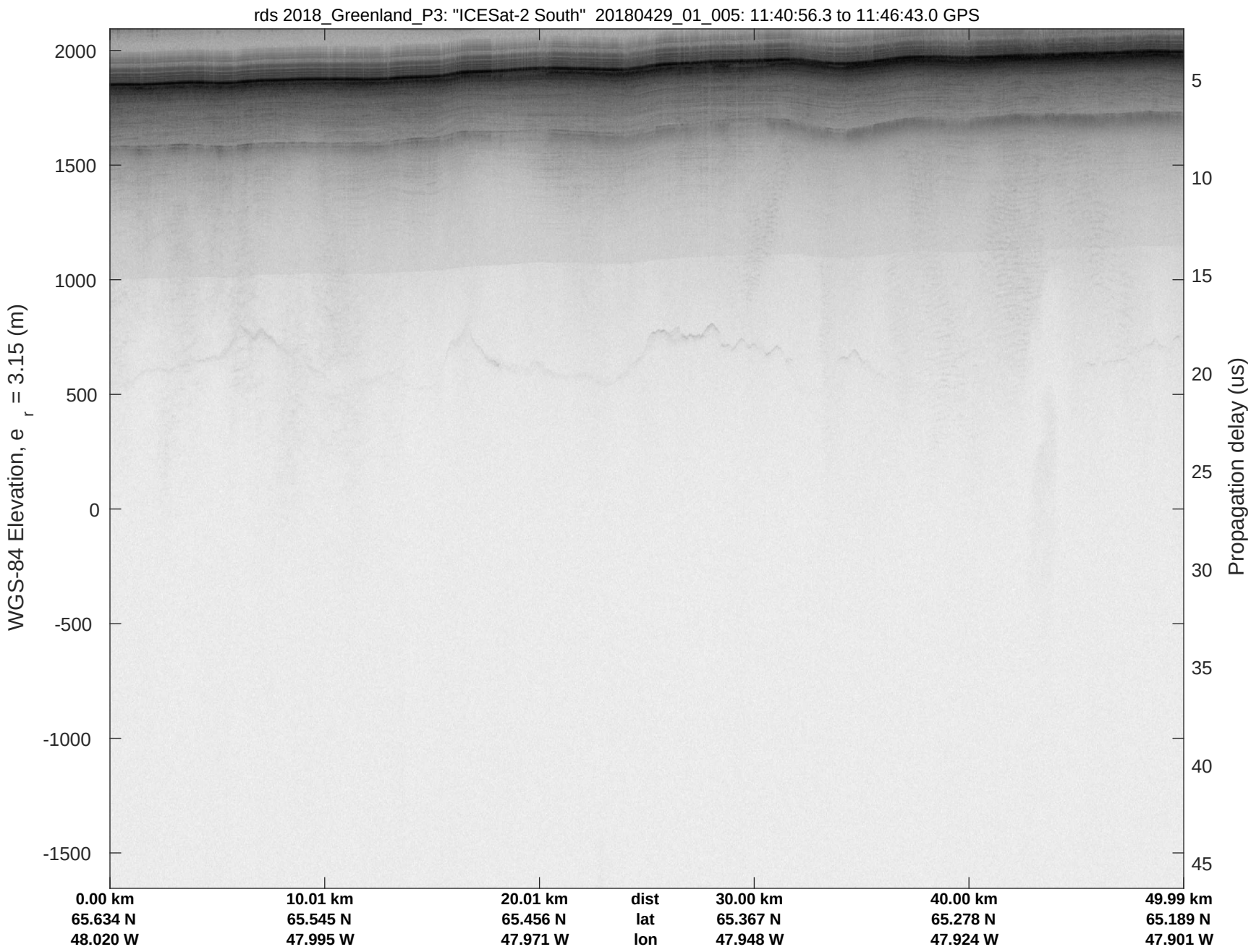

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_002: 11:23:00.1 to 11:29:14.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
0.00 km
66.971 N
48.397 W
10.00 km
66.882 N
48.370 W
20.01 km
66.793 N
48.344 W
dist
lat
lon
30.00 km
66.704 N
48.318 W
40.00 km
66.614 N
48.293 W
49.99 km
66.526 N
48.267 W

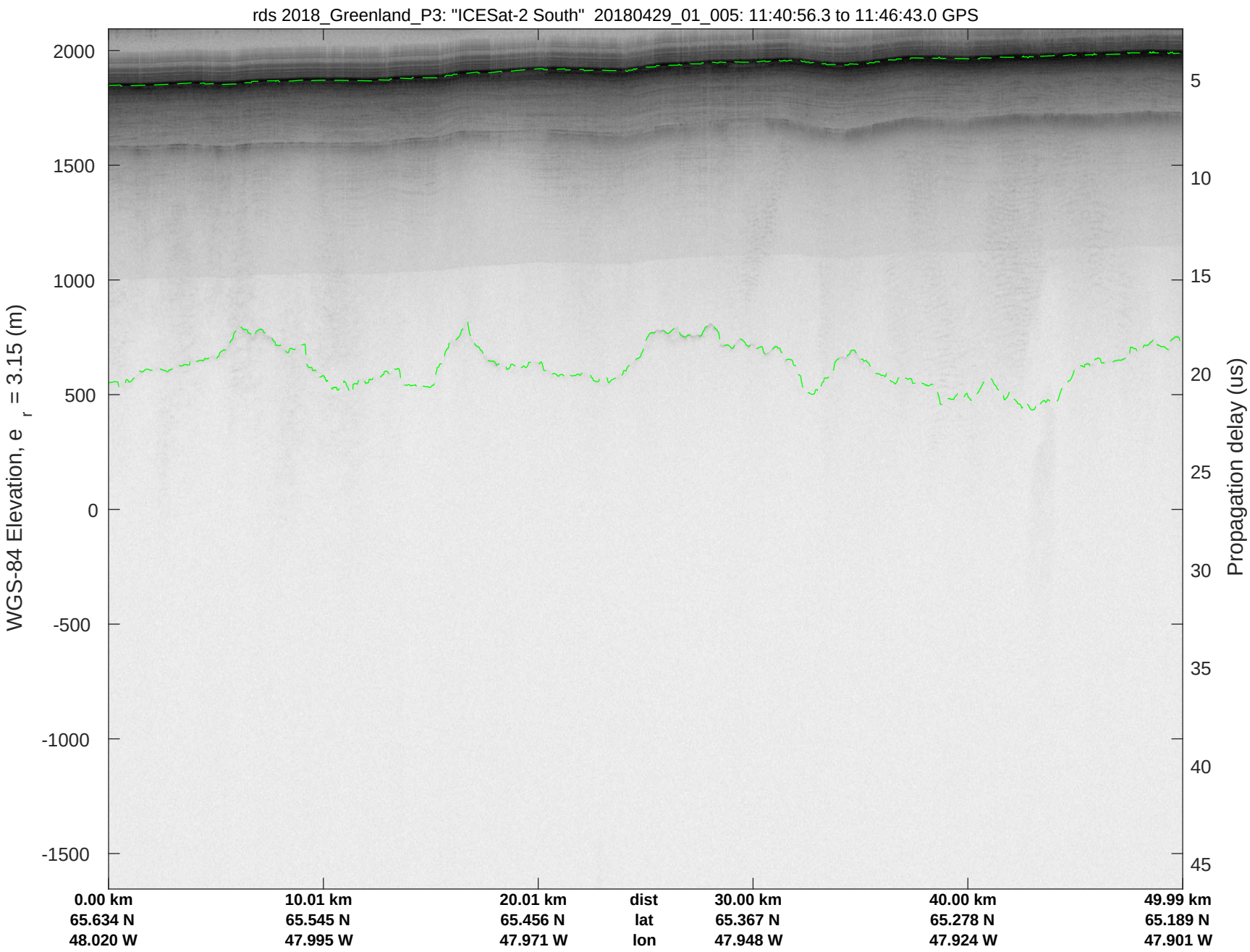

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_003: 11:29:14.5 to 11:35:13.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
1500
1000
500
0
-500
-1000
-1500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
66.525 N
48.267 W
10.01 km
66.436 N
48.242 W
20.01 km
66.347 N
48.217 W
dist
lat
lon
30.01 km
66.258 N
48.192 W
40.02 km
66.169 N
48.166 W
50.01 km
66.080 N
48.142 W

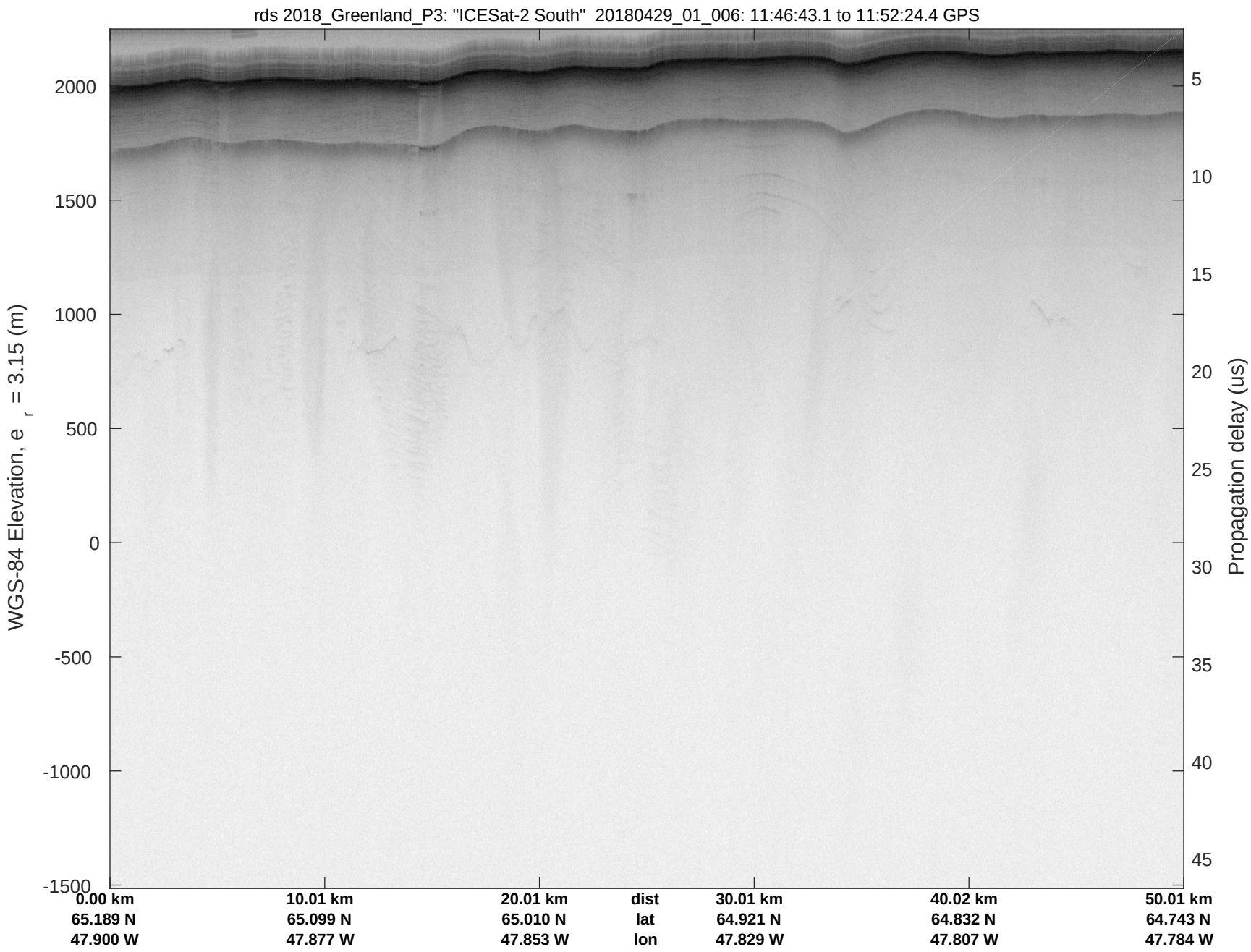

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_003: 11:29:14.5 to 11:35:13.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
66.525 N
48.267 W
10.01 km
66.436 N
48.242 W
20.01 km
66.347 N
48.217 W
dist
lat
lon
30.01 km
66.258 N
48.192 W
40.02 km
66.169 N
48.166 W
50.01 km
66.080 N
48.142 W

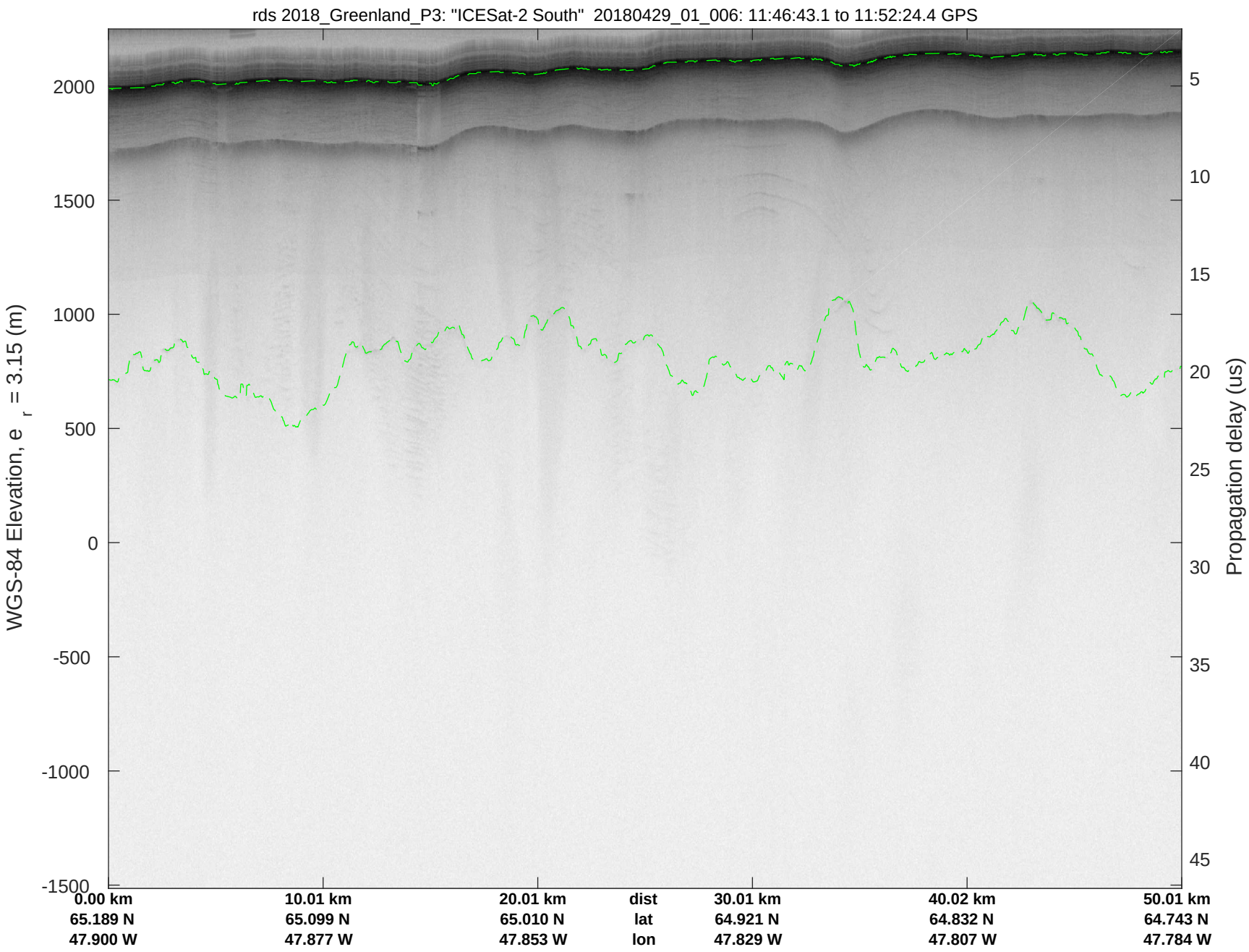

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_004: 11:35:13.8 to 11:40:56.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
Propagation delay (us)
0.00 km
66.080 N
48.142 W
10.00 km
65.991 N
48.117 W
20.01 km
65.902 N
48.093 W
dist
lat
lon
30.01 km
65.812 N
48.068 W
40.02 km
65.723 N
48.044 W
50.01 km
65.634 N
48.020 W

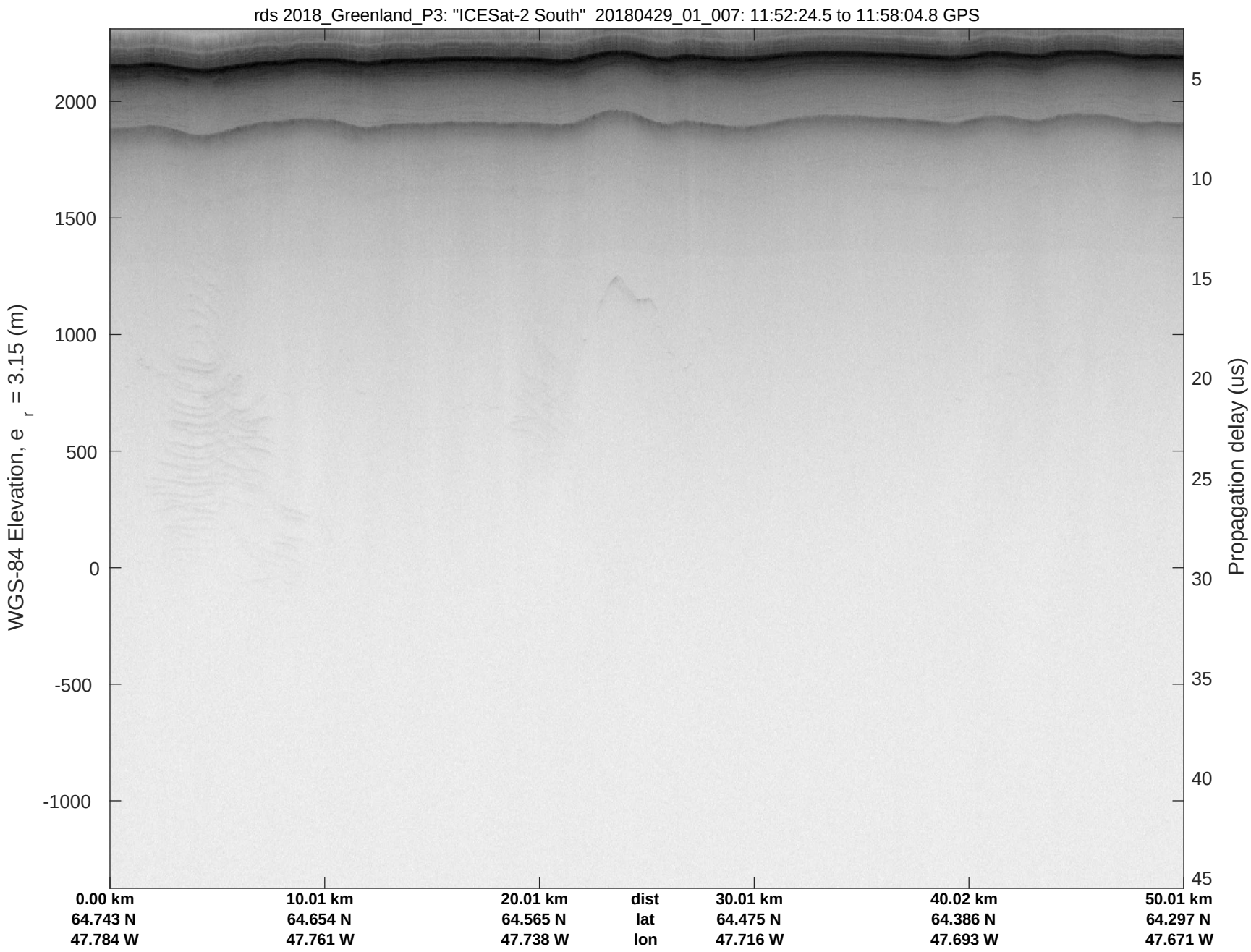

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_004: 11:35:13.8 to 11:40:56.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
1500
1000
500
0
-500
-1000
-1500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
66.080 N
48.142 W
10.00 km
65.991 N
48.117 W
20.01 km
65.902 N
48.093 W
dist
lat
lon
30.01 km
65.812 N
48.068 W
40.02 km
65.723 N
48.044 W
50.01 km
65.634 N
48.020 W

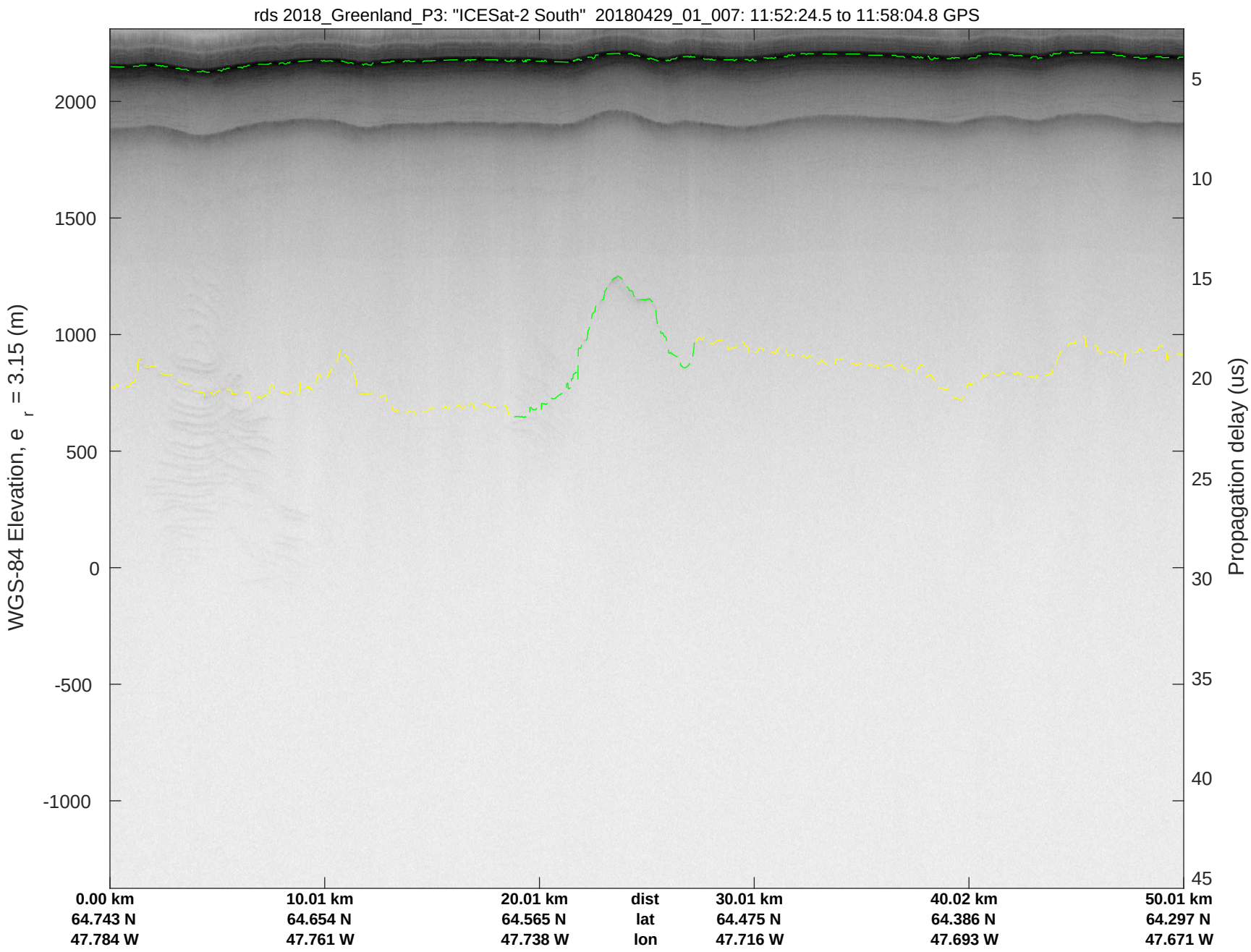

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_005: 11:40:56.3 to 11:46:43.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
65.634 N
48.020 W
10.01 km
65.545 N
47.995 W
20.01 km
65.456 N
47.971 W
dist
lat
lon
30.00 km
65.367 N
47.948 W
40.00 km
65.278 N
47.924 W
49.99 km
65.189 N
47.901 W

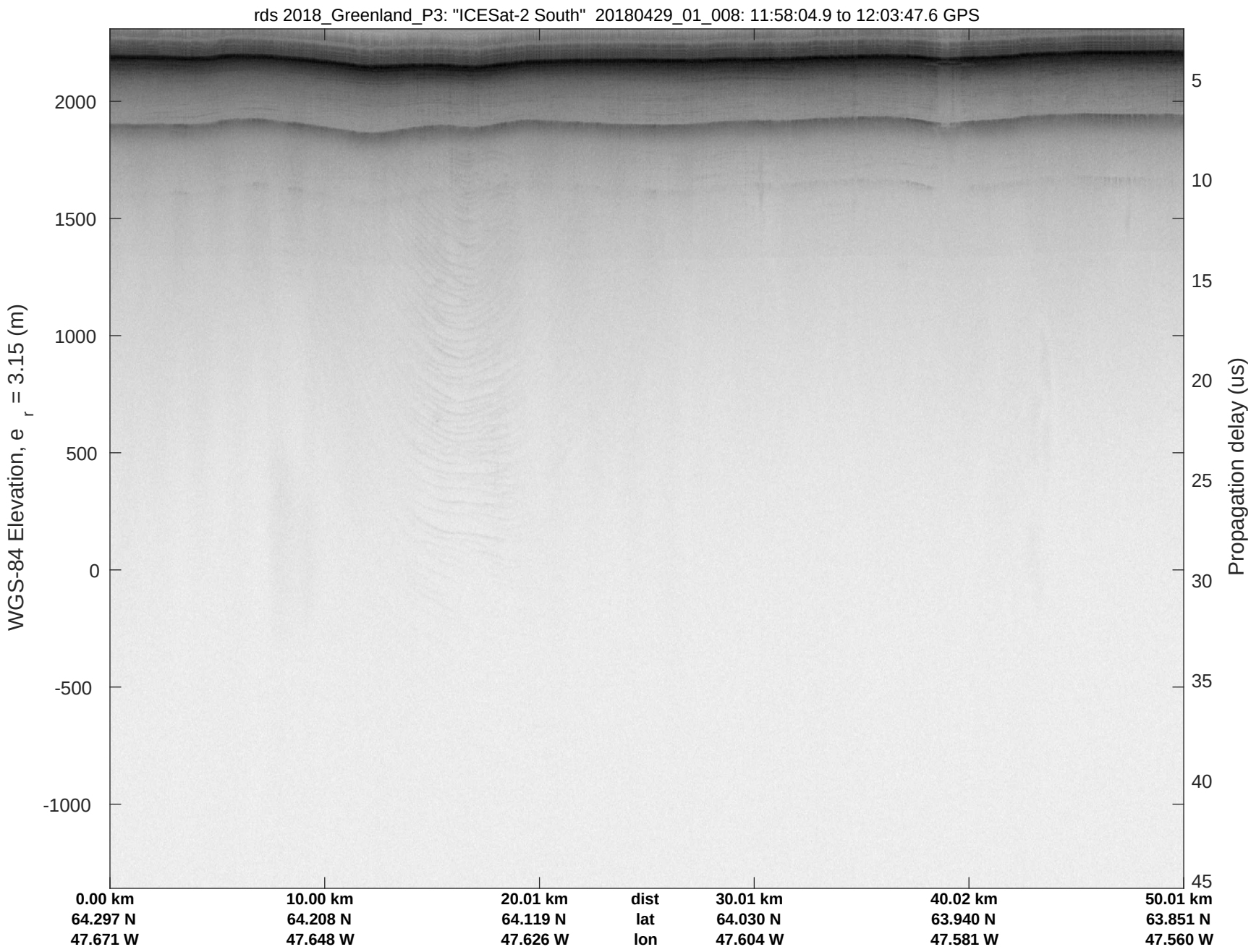

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_005: 11:40:56.3 to 11:46:43.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
65.634 N
48.020 W
10.01 km
65.545 N
47.995 W
20.01 km
65.456 N
47.971 W
dist
lat
lon
30.00 km
65.367 N
47.948 W
40.00 km
65.278 N
47.924 W
49.99 km
65.189 N
47.901 W

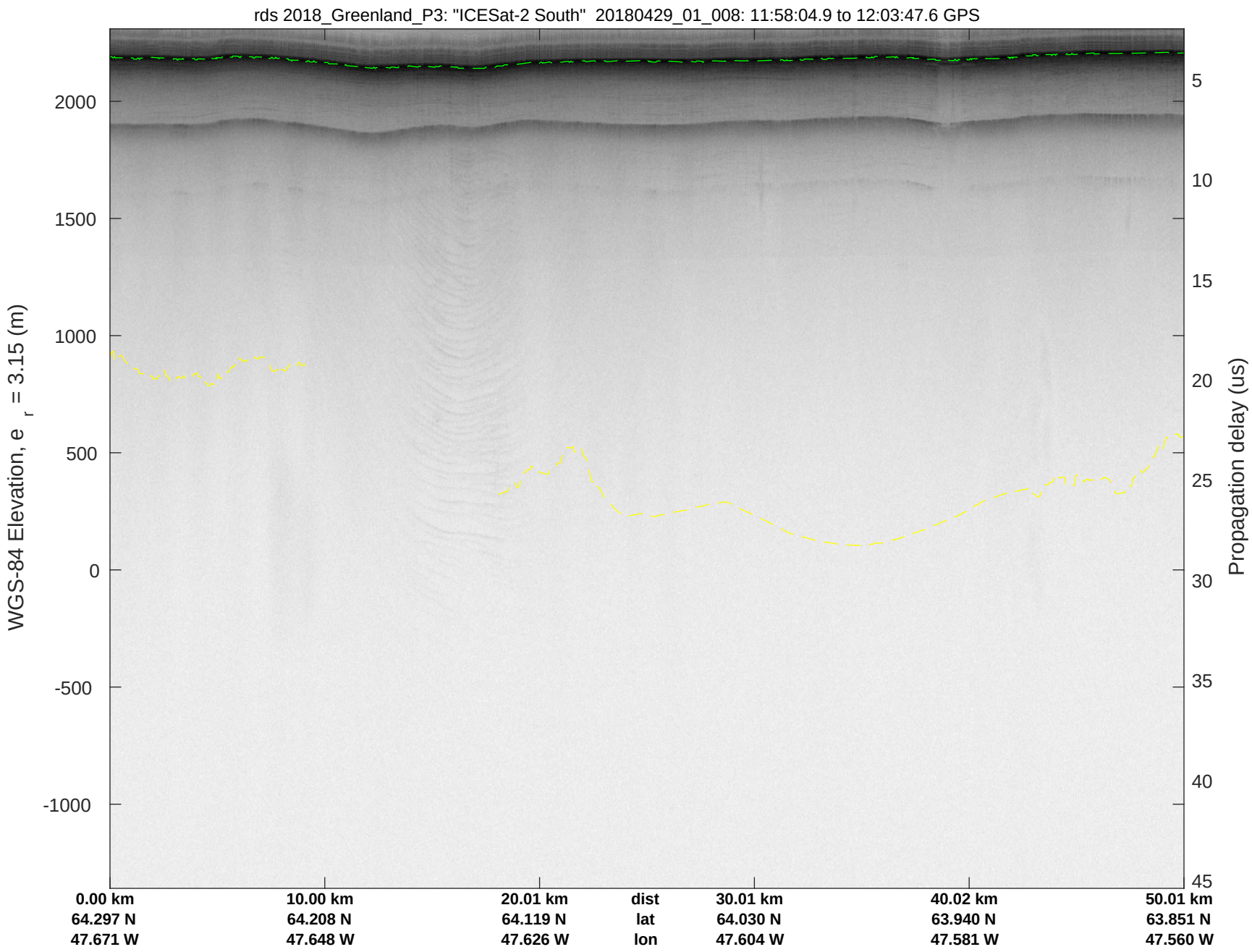

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_006: 11:46:43.1 to 11:52:24.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
65.189 N
47.900 W
10.01 km
65.099 N
47.877 W
20.01 km
65.010 N
47.853 W
dist
lat
lon
30.01 km
64.921 N
47.829 W
40.02 km
64.832 N
47.807 W
50.01 km
64.743 N
47.784 W

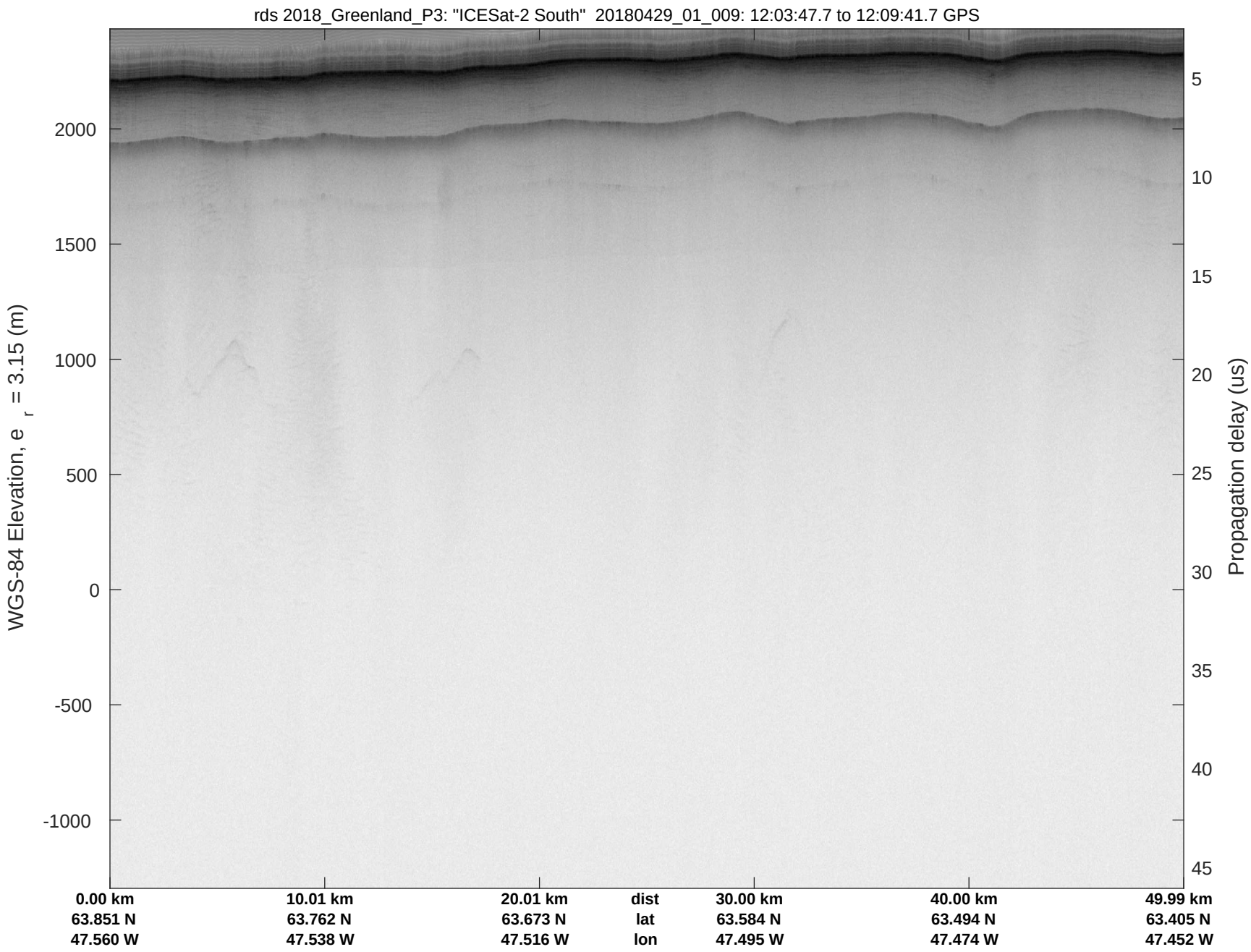

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_006: 11:46:43.1 to 11:52:24.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
65.189 N
47.900 W
10.01 km
65.099 N
47.877 W
20.01 km
65.010 N
47.853 W
dist
lat
lon
30.01 km
64.921 N
47.829 W
40.02 km
64.832 N
47.807 W
50.01 km
64.743 N
47.784 W

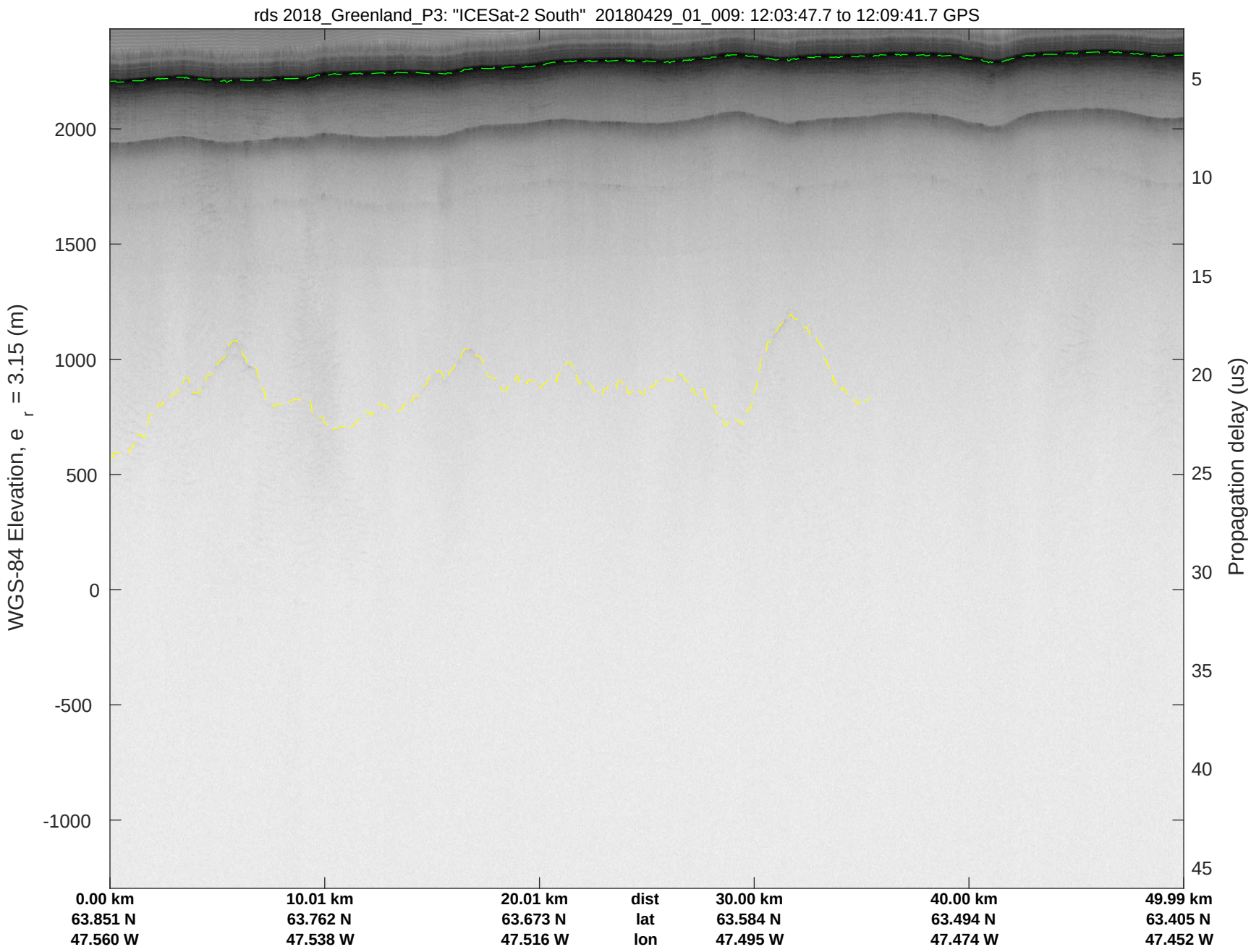

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_007: 11:52:24.5 to 11:58:04.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.743 N
47.784 W
10.01 km
64.654 N
47.761 W
20.01 km
64.565 N
47.738 W
dist
lat
lon
30.01 km
64.475 N
47.716 W
40.02 km
64.386 N
47.693 W
50.01 km
64.297 N
47.671 W

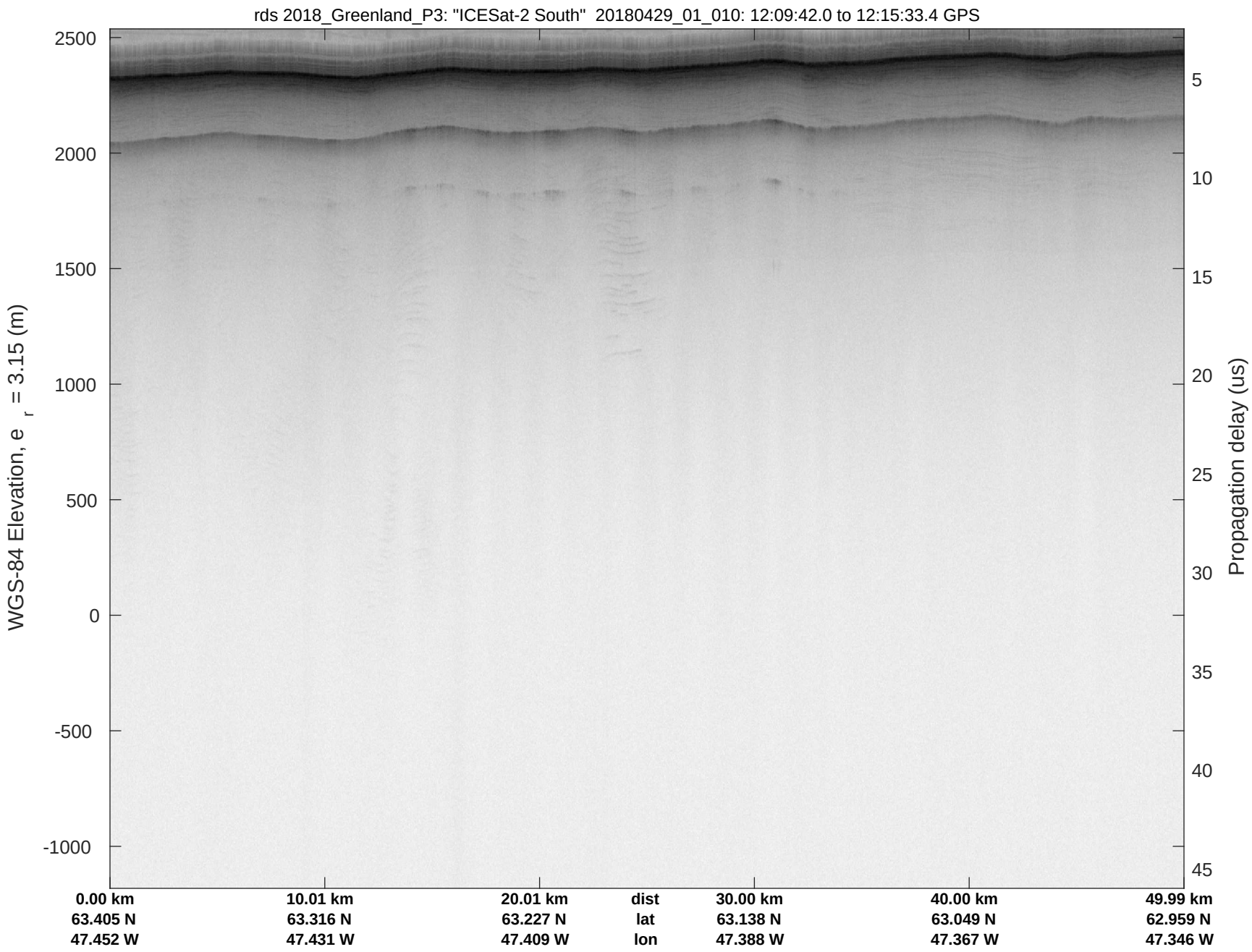

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_007: 11:52:24.5 to 11:58:04.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
64.743 N
47.784 W
10.01 km
64.654 N
47.761 W
20.01 km
64.565 N
47.738 W
dist
lat
lon
30.01 km
64.475 N
47.716 W
40.02 km
64.386 N
47.693 W
50.01 km
64.297 N
47.671 W

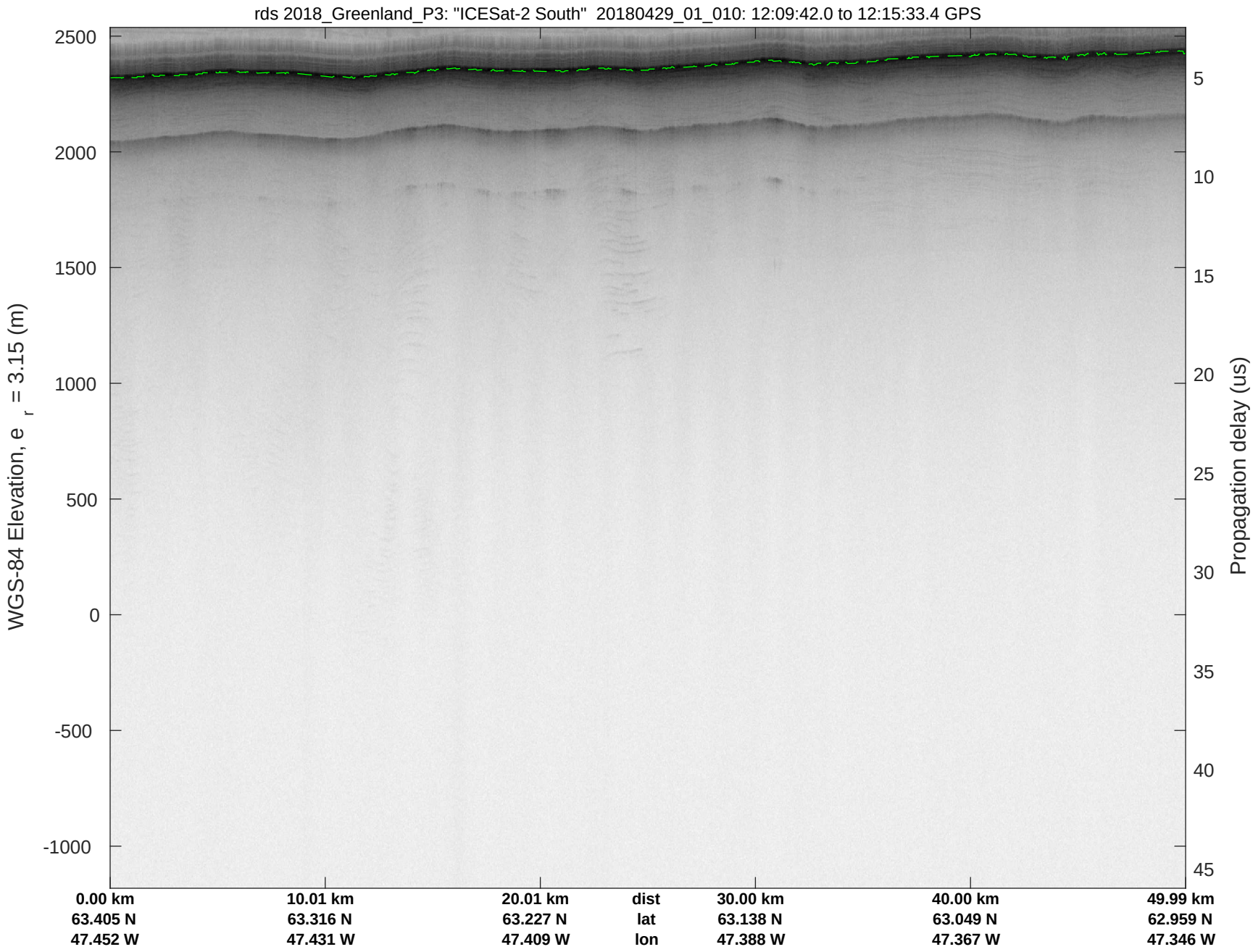

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_008: 11:58:04.9 to 12:03:47.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.297 N
47.671 W
10.00 km
64.208 N
47.648 W
20.01 km
64.119 N
47.626 W
dist
lat
lon
30.01 km
64.030 N
47.604 W
40.02 km
63.940 N
47.581 W
50.01 km
63.851 N
47.560 W

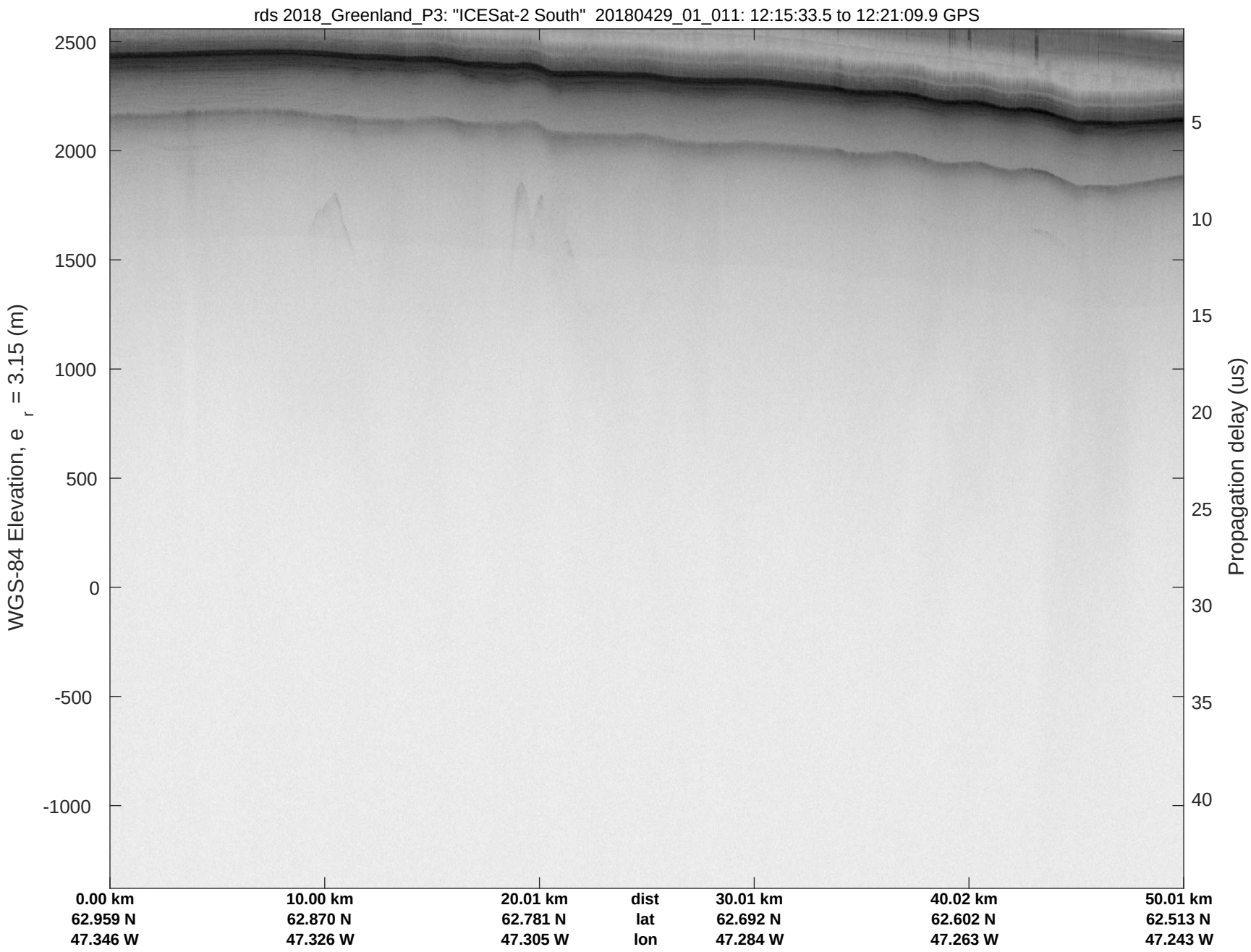

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_008: 11:58:04.9 to 12:03:47.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.297 N
47.671 W
10.00 km
64.208 N
47.648 W
20.01 km
64.119 N
47.626 W
dist
lat
lon
30.01 km
64.030 N
47.604 W
40.02 km
63.940 N
47.581 W
50.01 km
63.851 N
47.560 W

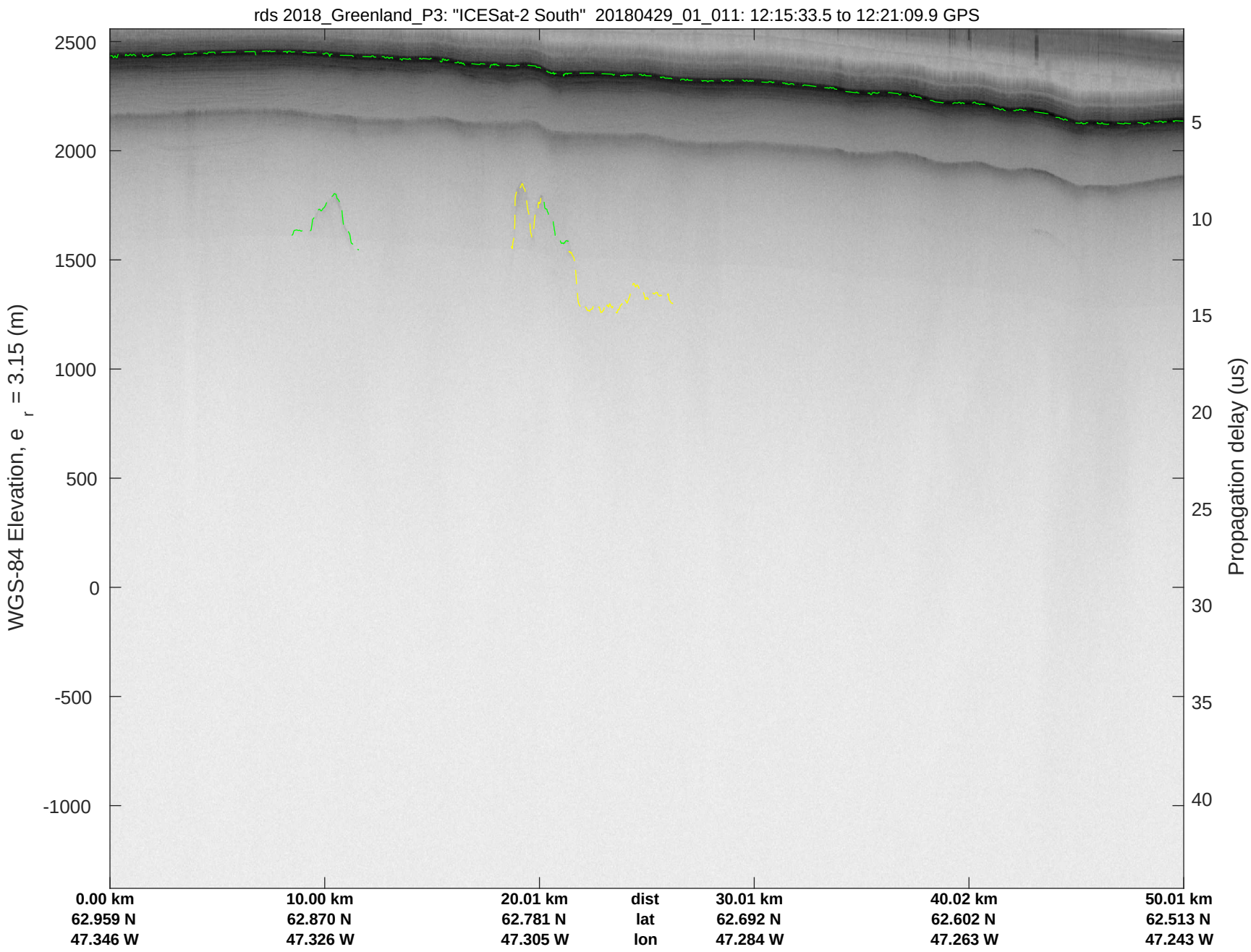

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_009: 12:03:47.7 to 12:09:41.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.851 N
47.560 W
10.01 km
63.762 N
47.538 W
20.01 km
63.673 N
47.516 W
dist
lat
lon
30.00 km
63.584 N
47.495 W
40.00 km
63.494 N
47.474 W
49.99 km
63.405 N
47.452 W

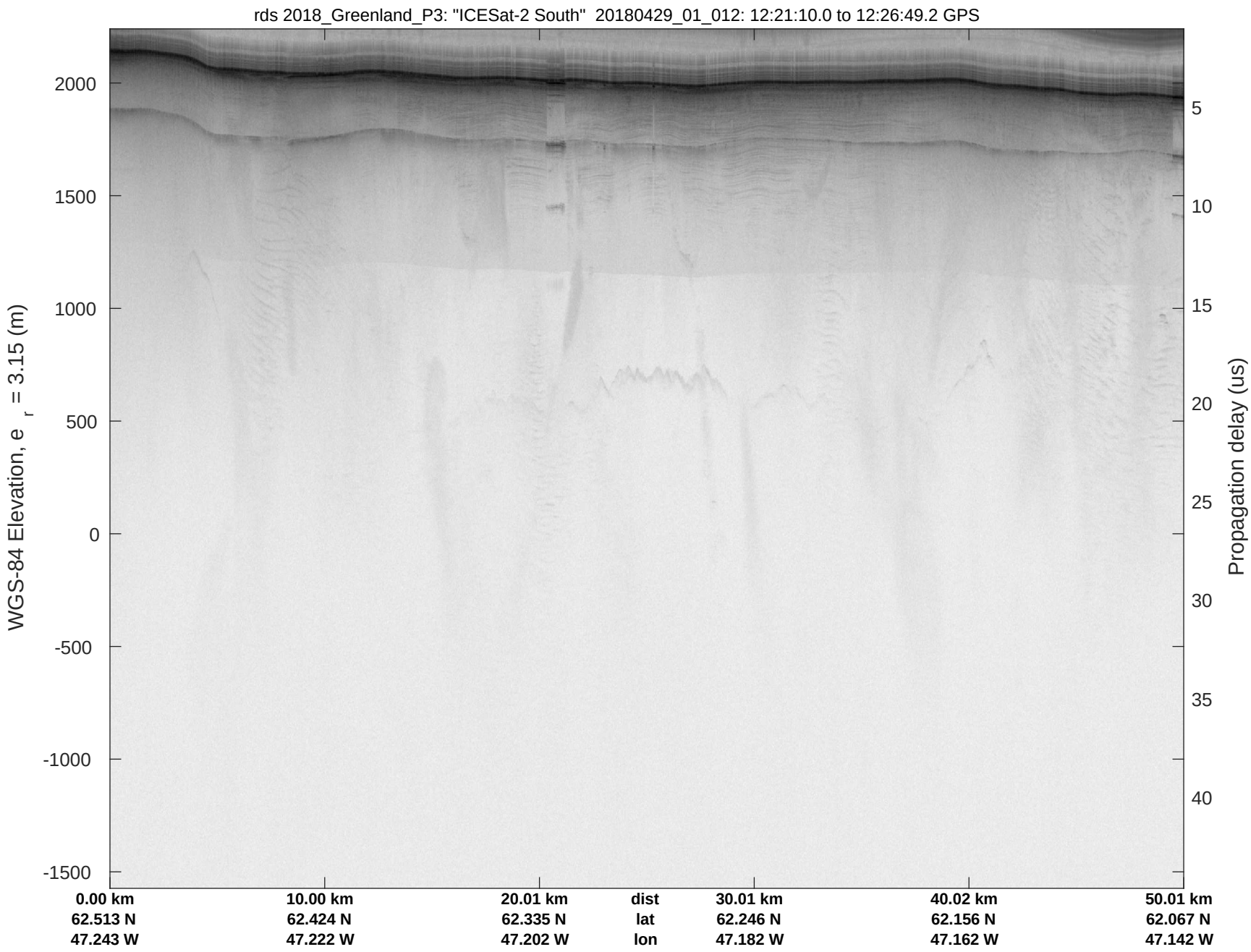

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_009: 12:03:47.7 to 12:09:41.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
63.851 N
47.560 W
10.01 km
63.762 N
47.538 W
20.01 km
63.673 N
47.516 W
dist
lat
lon
30.00 km
63.584 N
47.495 W
40.00 km
63.494 N
47.474 W
49.99 km
63.405 N
47.452 W

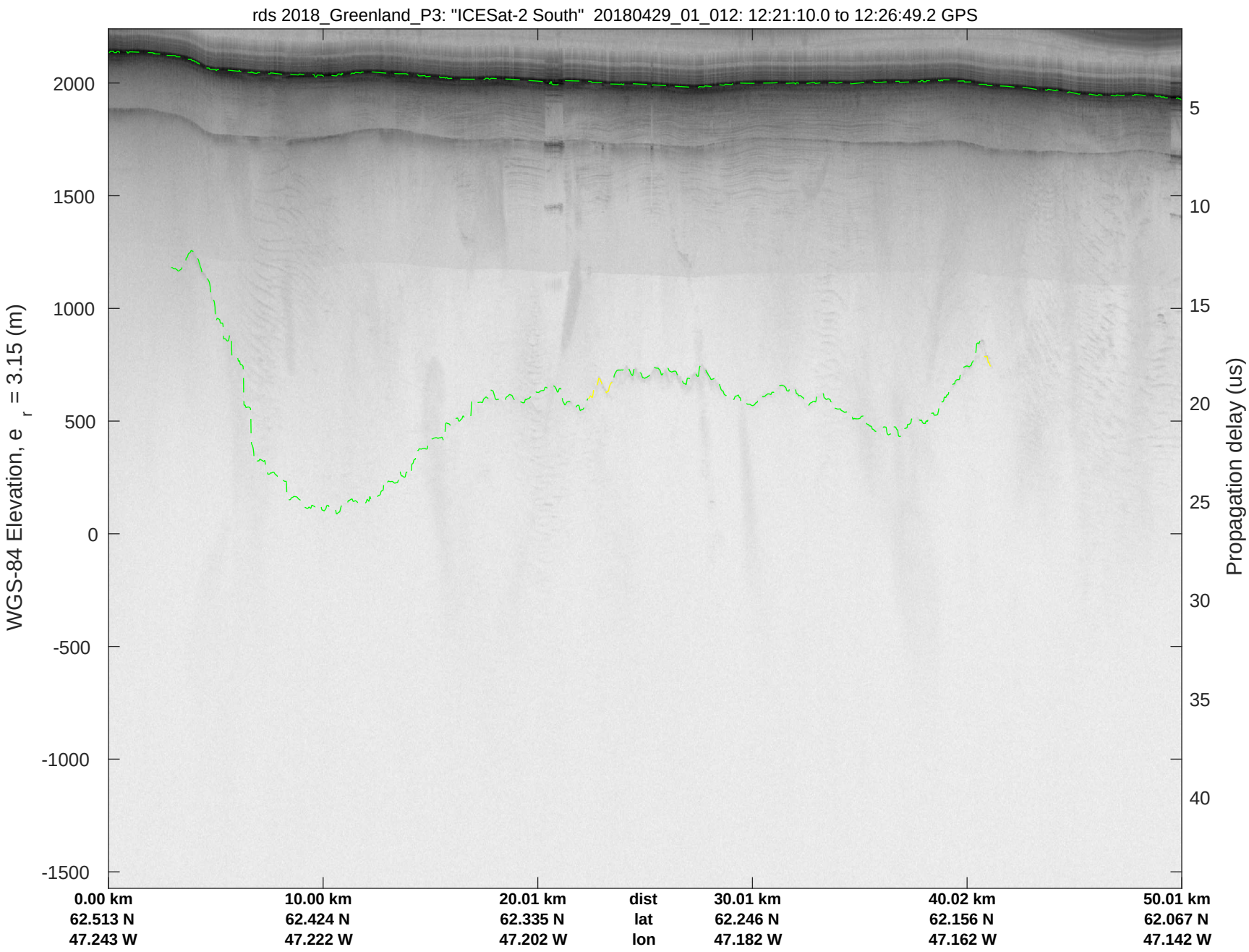

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_010: 12:09:42.0 to 12:15:33.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.405 N
47.452 W
10.01 km
63.316 N
47.431 W
20.01 km
63.227 N
47.409 W
dist
lat
lon
30.00 km
63.138 N
47.388 W
40.00 km
63.049 N
47.367 W
49.99 km
62.959 N
47.346 W

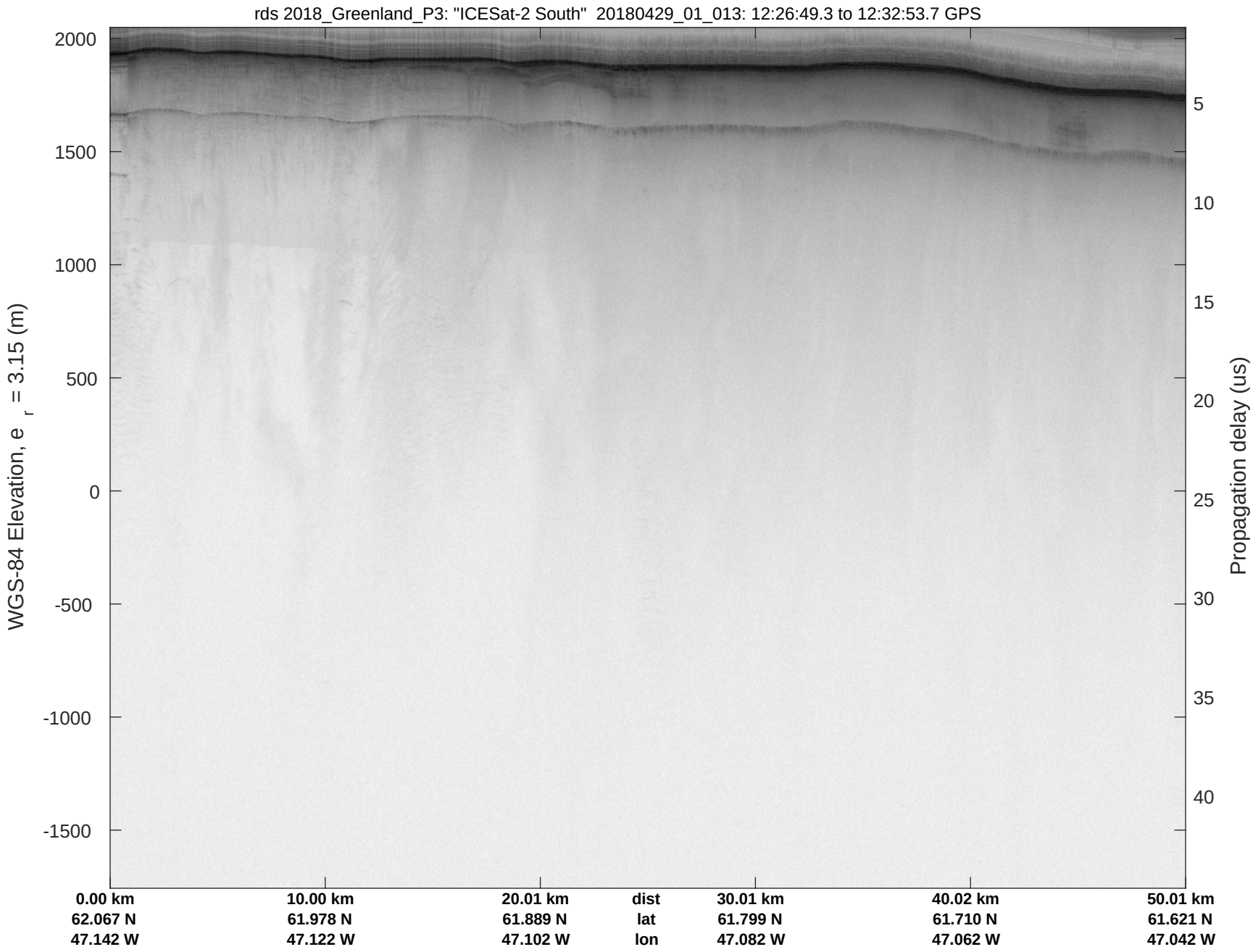

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_010: 12:09:42.0 to 12:15:33.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
63.405 N
47.452 W
10.01 km
63.316 N
47.431 W
20.01 km
63.227 N
47.409 W
dist
lat
lon
30.00 km
63.138 N
47.388 W
40.00 km
63.049 N
47.367 W
49.99 km
62.959 N
47.346 W

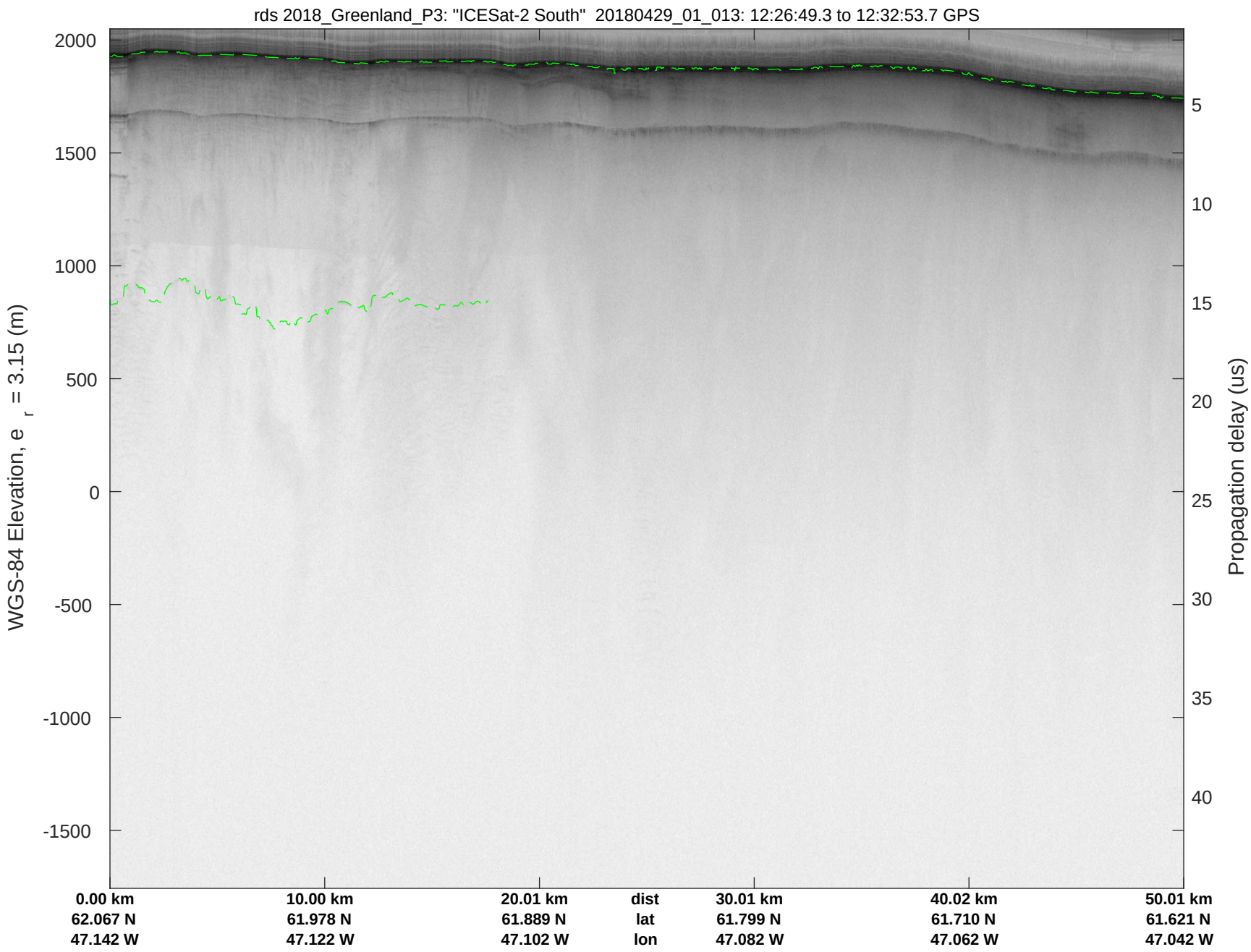

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_011: 12:15:33.5 to 12:21:09.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
62.959 N
47.346 W
10.00 km
62.870 N
47.326 W
20.01 km
62.781 N
47.305 W
dist
lat
lon
30.01 km
62.692 N
47.284 W
40.02 km
62.602 N
47.263 W
50.01 km
62.513 N
47.243 W

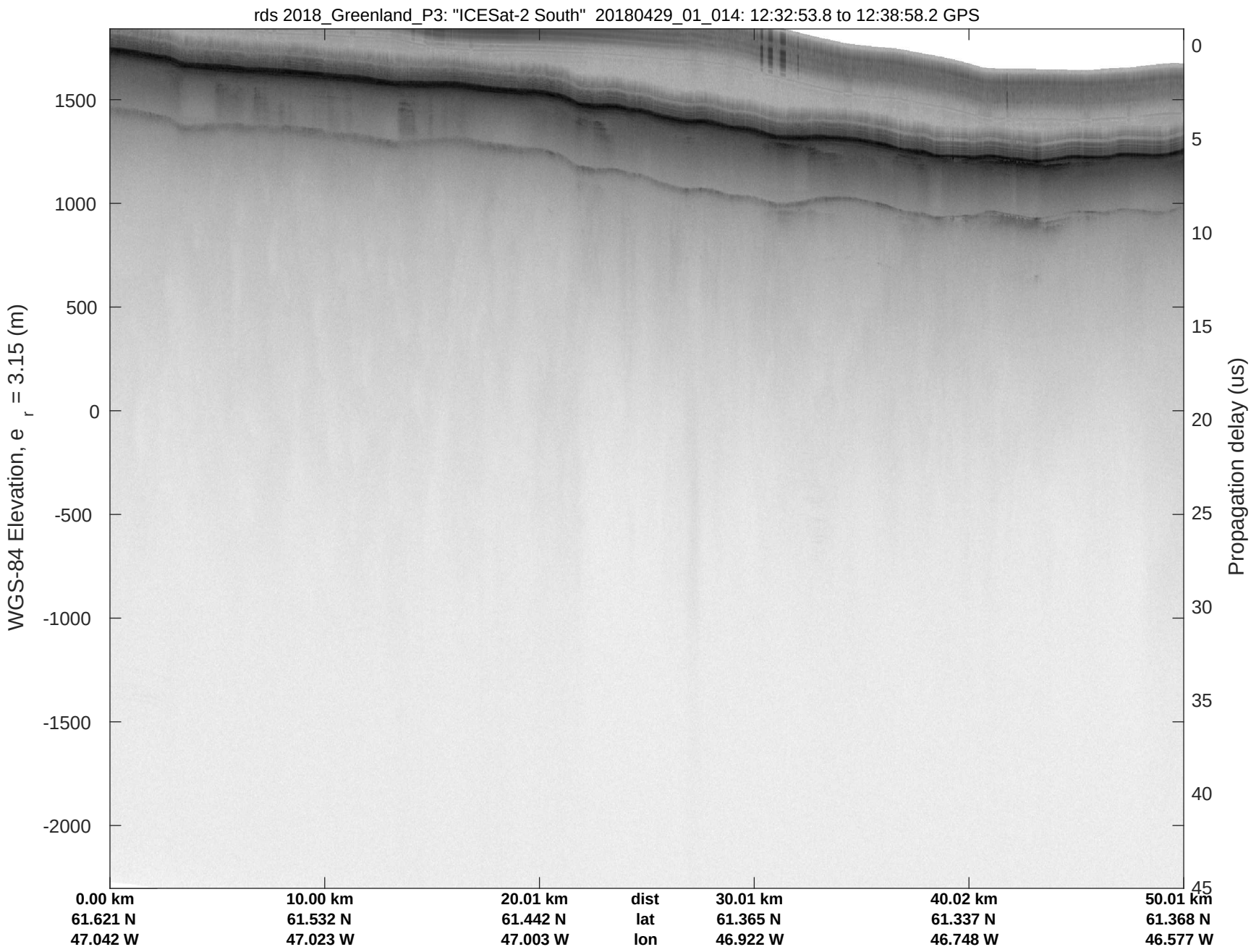

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_011: 12:15:33.5 to 12:21:09.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
62.959 N
47.346 W
10.00 km
62.870 N
47.326 W
20.01 km
62.781 N
47.305 W
dist
lat
lon
30.01 km
62.692 N
47.284 W
40.02 km
62.602 N
47.263 W
50.01 km
62.513 N
47.243 W

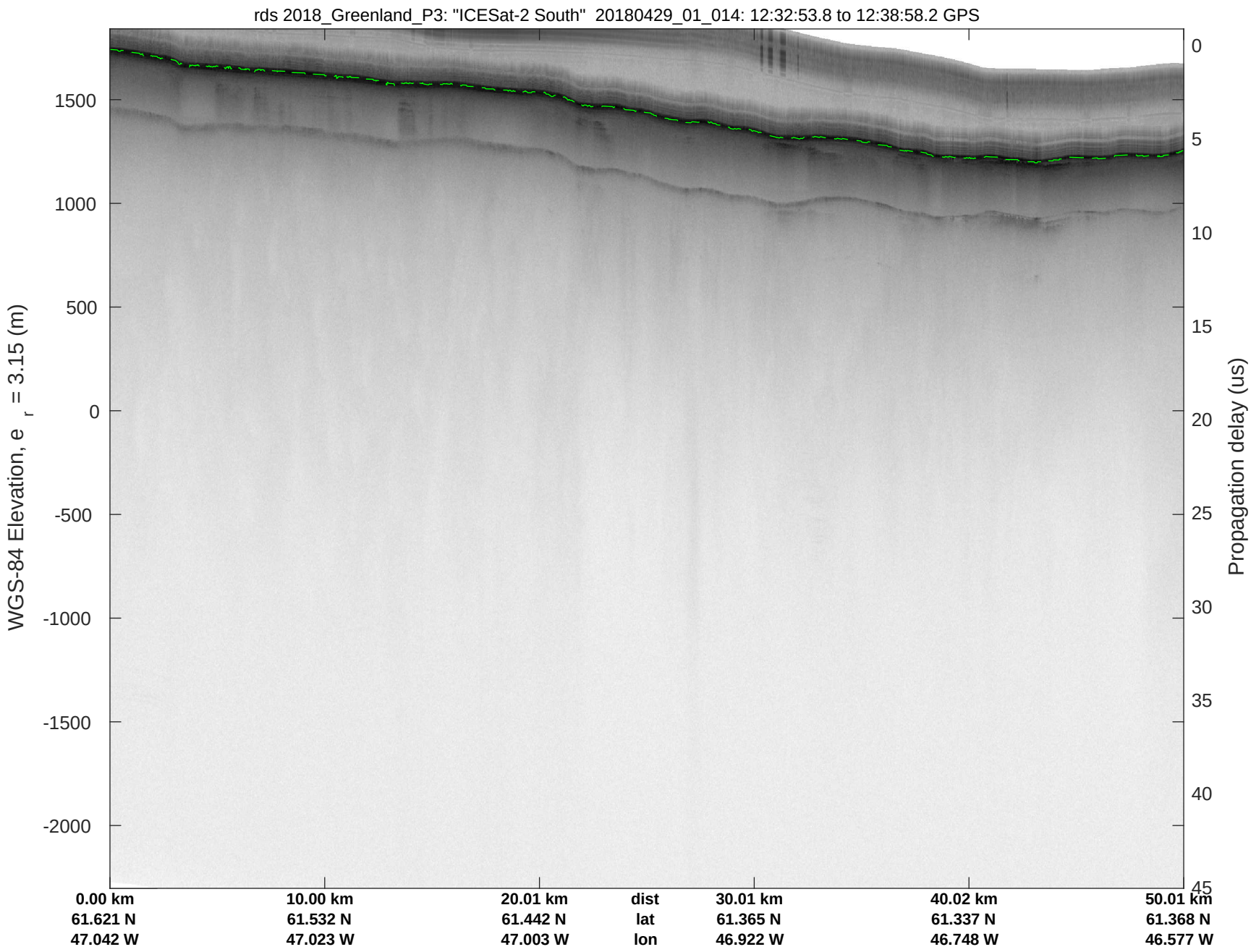

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_012: 12:21:10.0 to 12:26:49.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
-1500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
62.513 N
47.243 W
10.00 km
62.424 N
47.222 W
20.01 km
62.335 N
47.202 W
dist
lat
lon
30.01 km
62.246 N
47.182 W
40.02 km
62.156 N
47.162 W
50.01 km
62.067 N
47.142 W

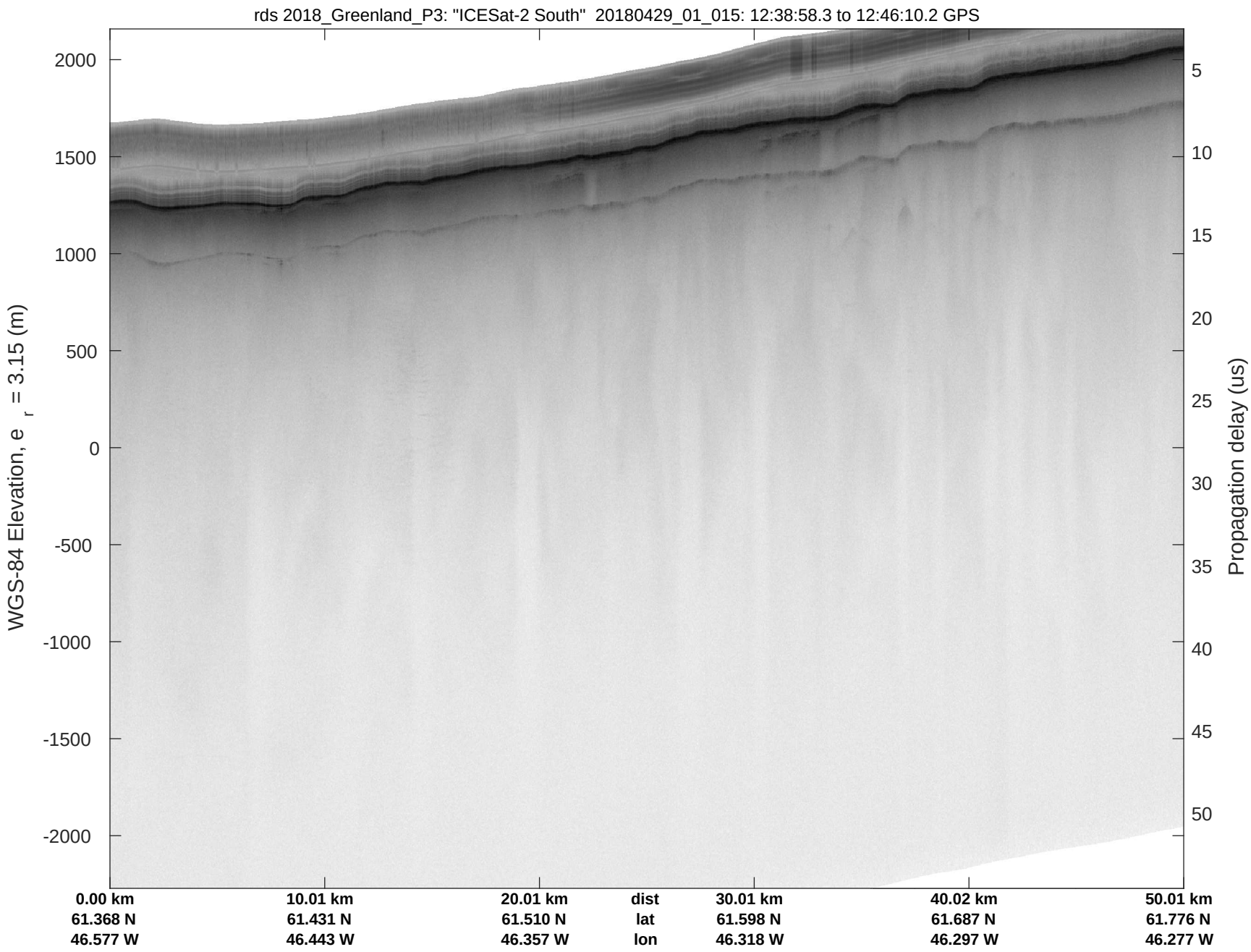

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_012: 12:21:10.0 to 12:26:49.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
0.00 km
62.513 N
47.243 W
10.00 km
62.424 N
47.222 W
20.01 km
62.335 N
47.202 W
dist
lat
lon
30.01 km
62.246 N
47.182 W
40.02 km
62.156 N
47.162 W
50.01 km
62.067 N
47.142 W

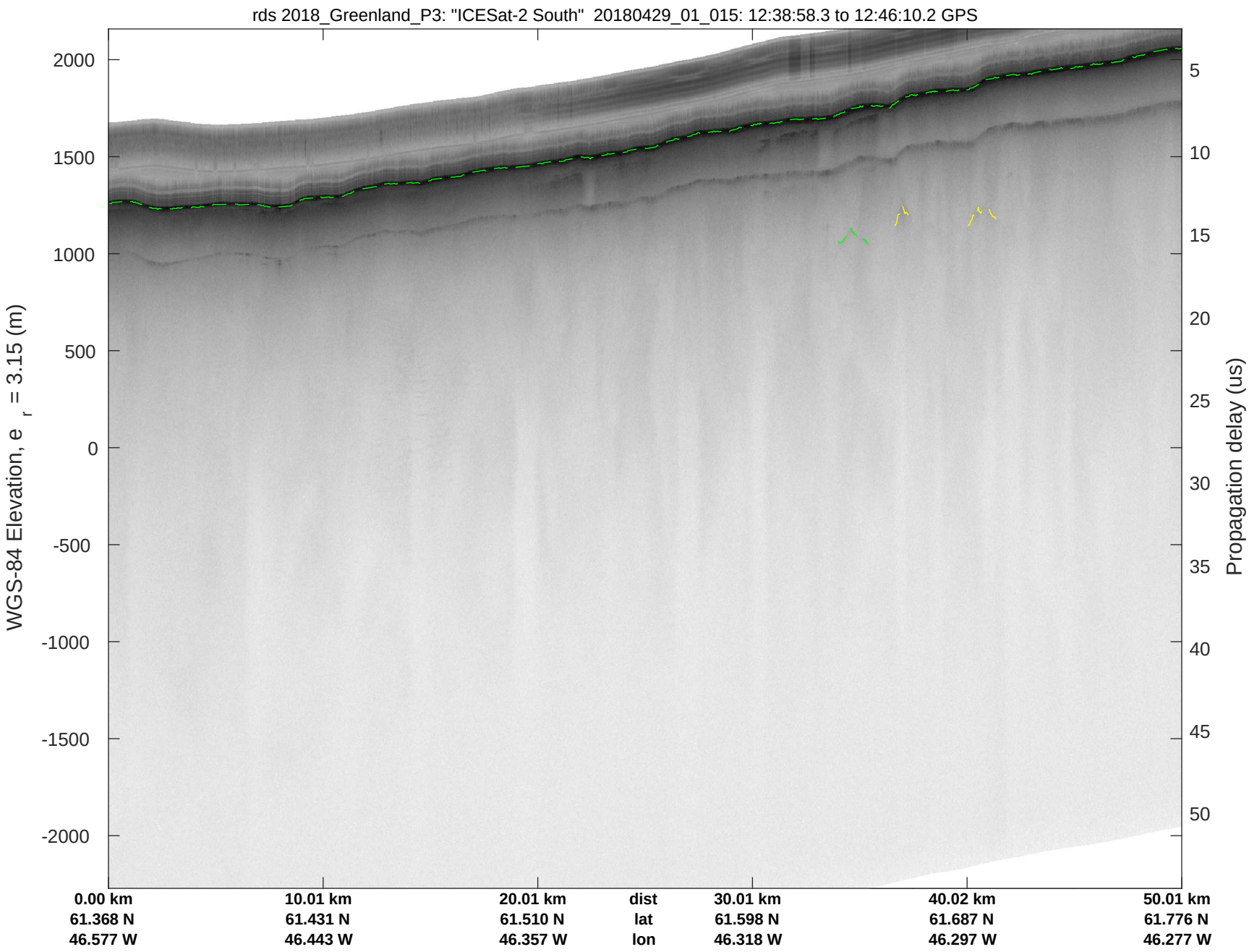

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_013: 12:26:49.3 to 12:32:53.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
0.00 km
62.067 N
47.142 W
10.00 km
61.978 N
47.122 W
20.01 km
61.889 N
47.102 W
dist
lat
lon
30.01 km
61.799 N
47.082 W
40.02 km
61.710 N
47.062 W
50.01 km
61.621 N
47.042 W

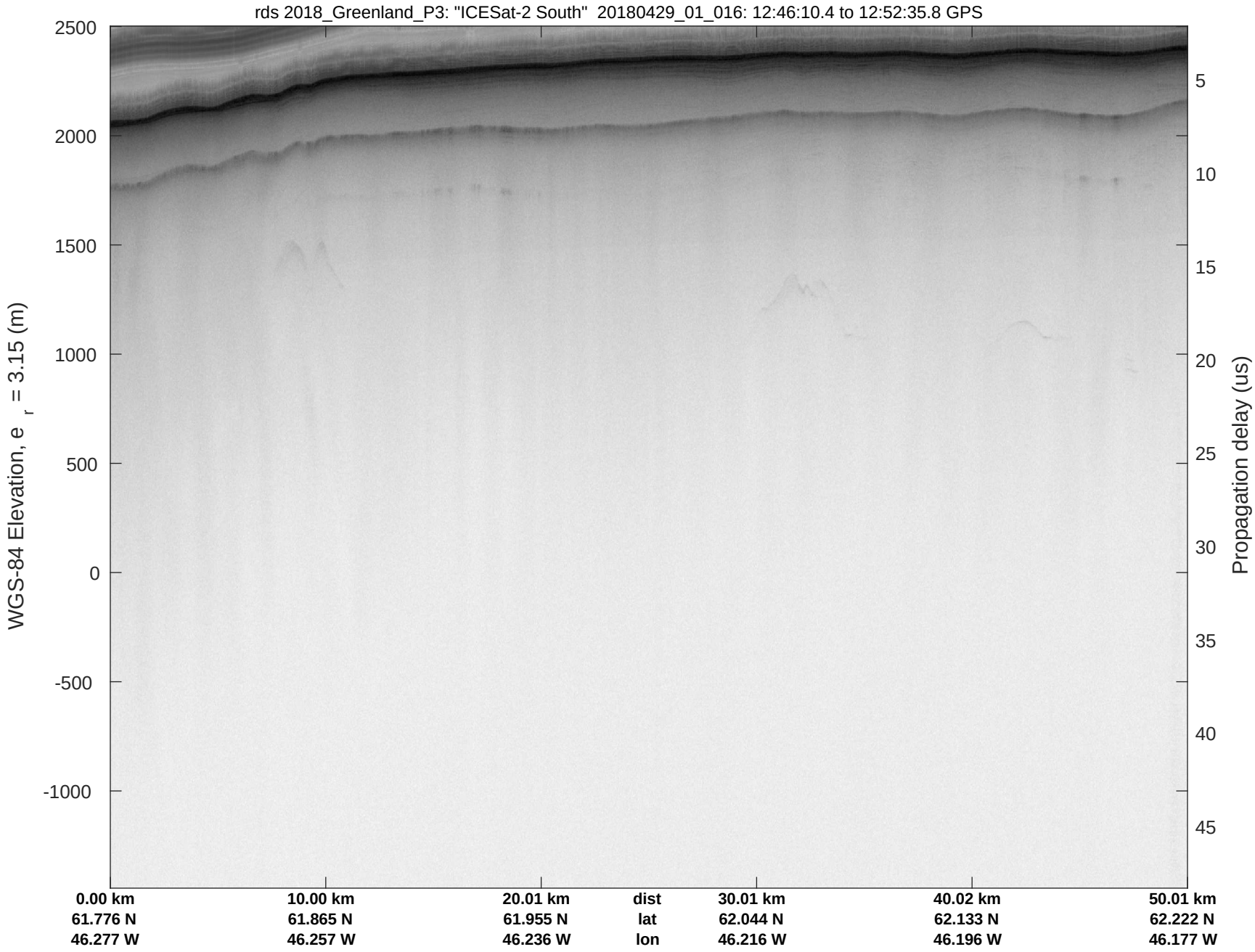

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_013: 12:26:49.3 to 12:32:53.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
0.00 km
62.067 N
47.142 W
10.00 km
61.978 N
47.122 W
20.01 km
61.889 N
47.102 W
dist
lat
lon
30.01 km
61.799 N
47.082 W
40.02 km
61.710 N
47.062 W
50.01 km
61.621 N
47.042 W

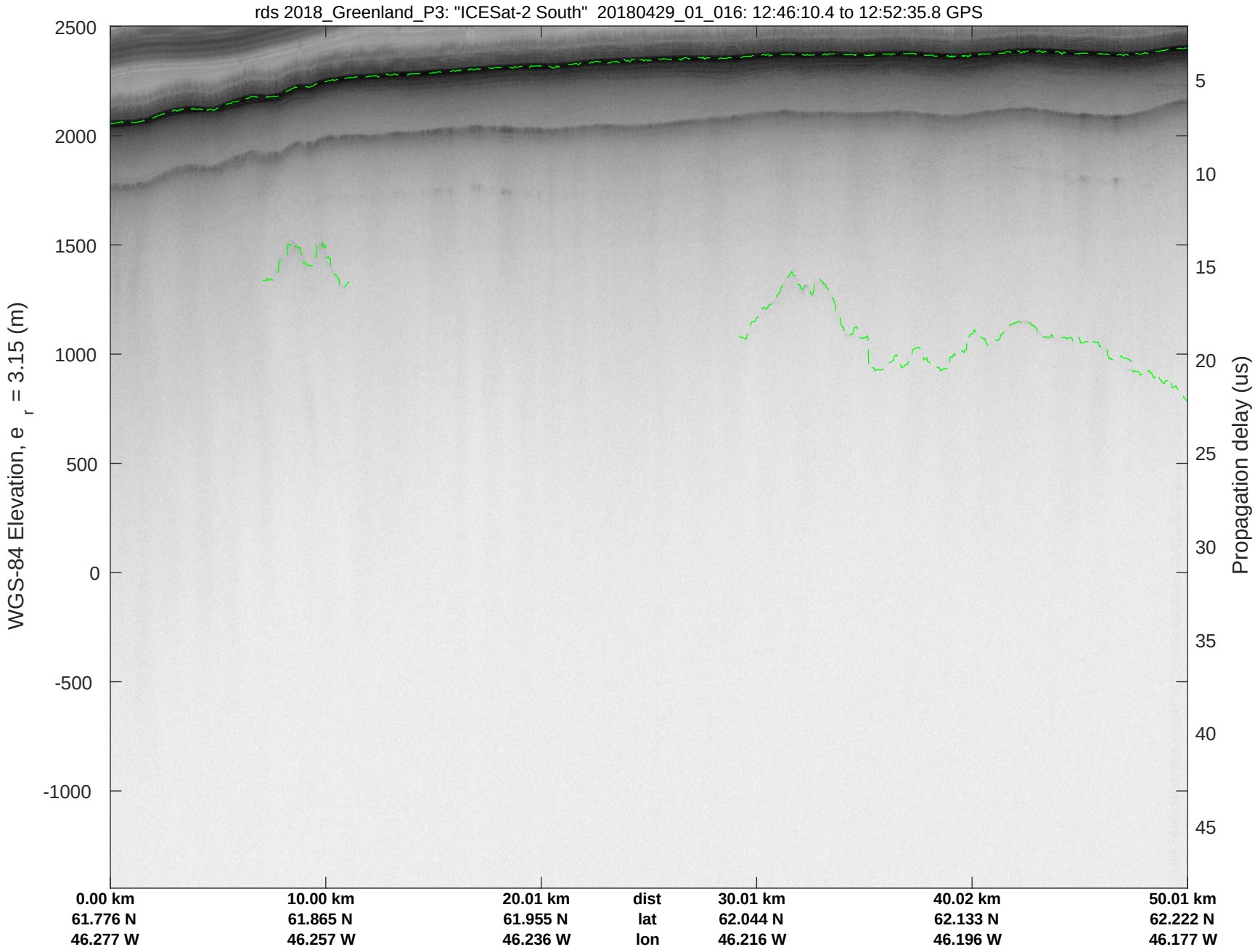

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_014: 12:32:53.8 to 12:38:58.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
1500
1000
500
0
-500
-1000
-1500
-2000
Propagation delay (us)
0
5
10
15
20
25
30
35
40
45
0.00 km
61.621 N
47.042 W
10.00 km
61.532 N
47.023 W
20.01 km
61.442 N
47.003 W
dist
lat
lon
30.01 km
61.365 N
46.922 W
40.02 km
61.337 N
46.748 W
50.01 km
61.368 N
46.577 W

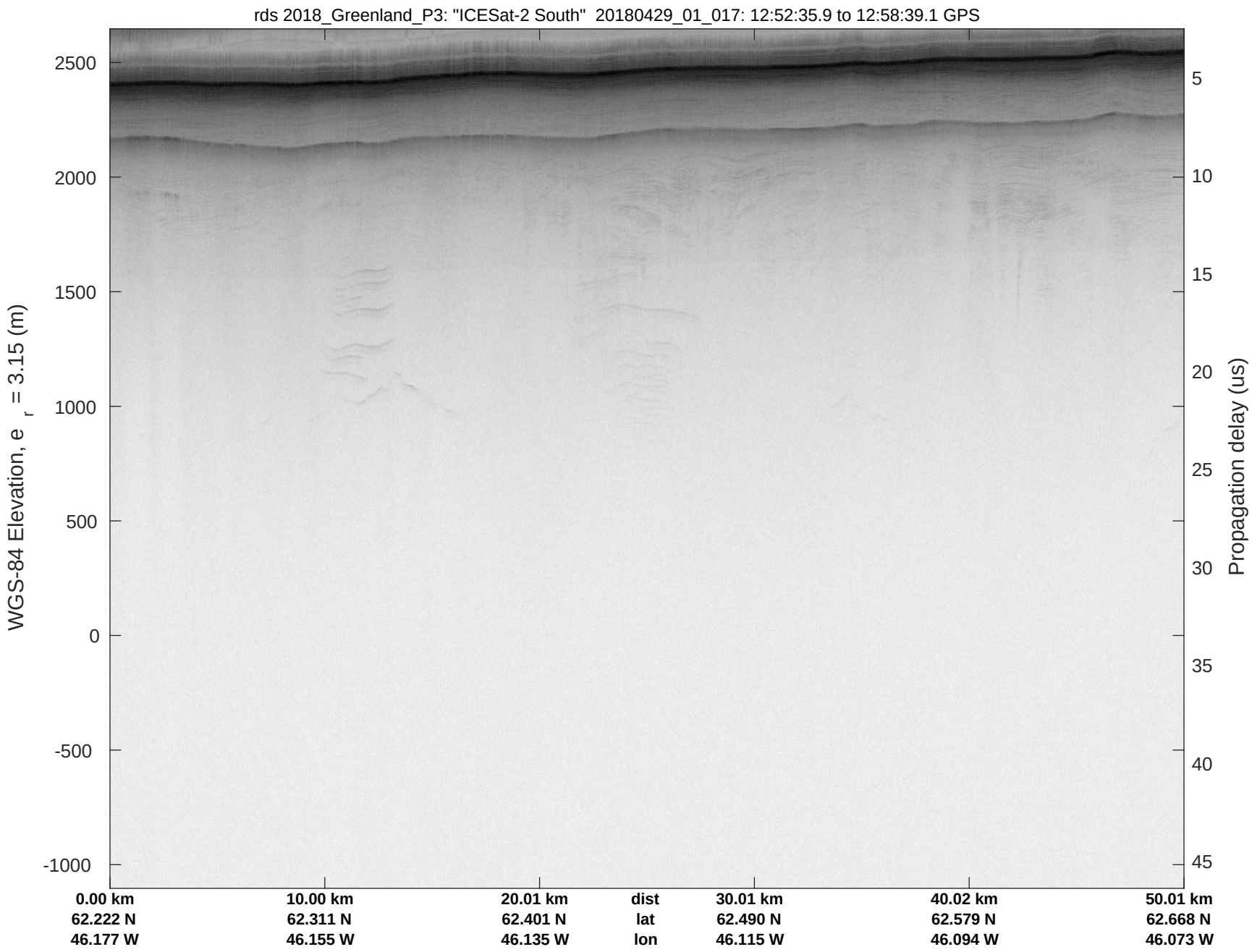

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_014: 12:32:53.8 to 12:38:58.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
-2000
0
5
10
15
20
25
30
35
40
45
0.00 km
61.621 N
47.042 W
10.00 km
61.532 N
47.023 W
20.01 km
61.442 N
47.003 W
dist
lat
lon
30.01 km
61.365 N
46.922 W
40.02 km
61.337 N
46.748 W
50.01 km
61.368 N
46.577 W

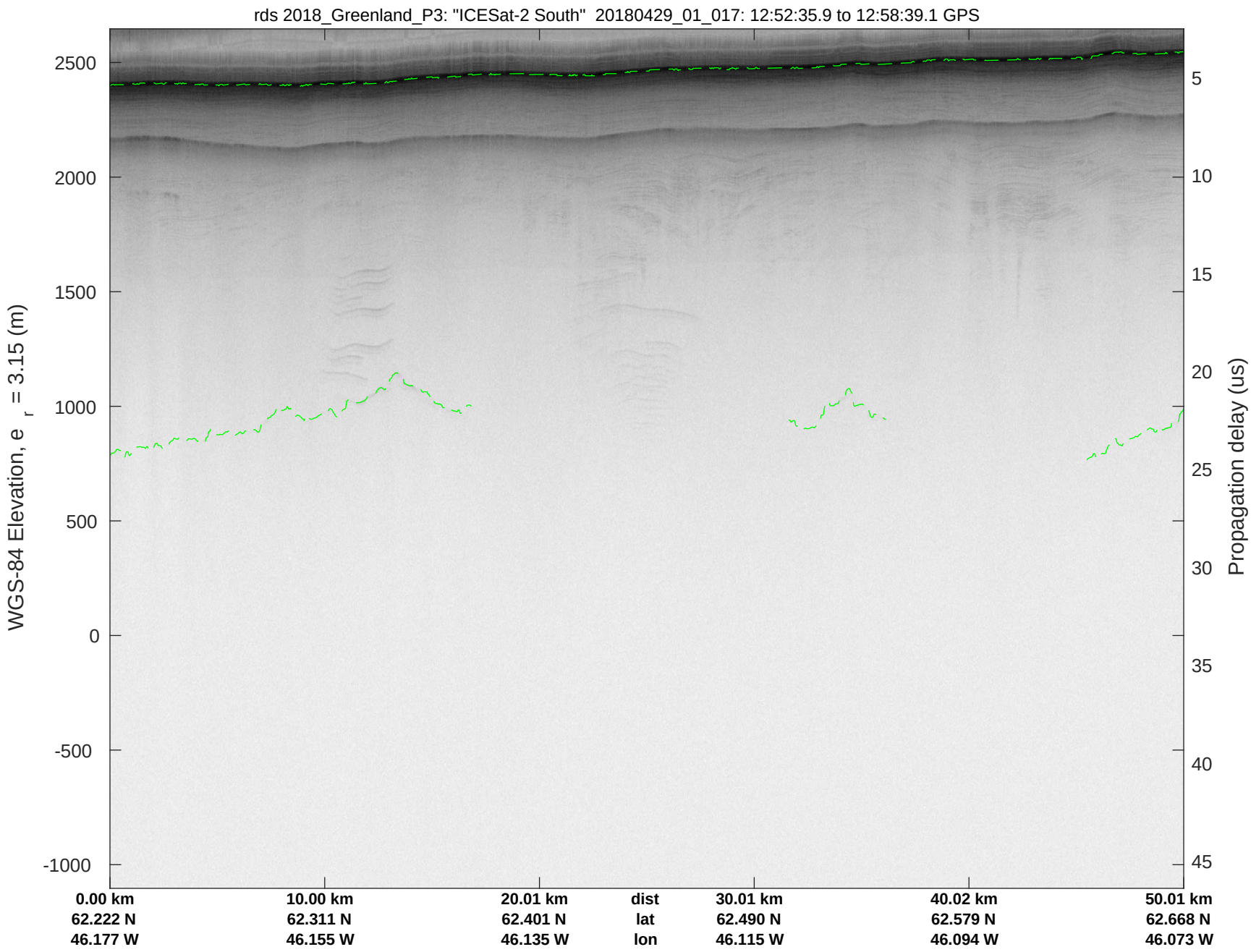

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_015: 12:38:58.3 to 12:46:10.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
50
0.00 km
61.368 N
46.577 W
10.01 km
61.431 N
46.443 W
20.01 km
61.510 N
46.357 W
dist
lat
lon
30.01 km
61.598 N
46.318 W
40.02 km
61.687 N
46.297 W
50.01 km
61.776 N
46.277 W

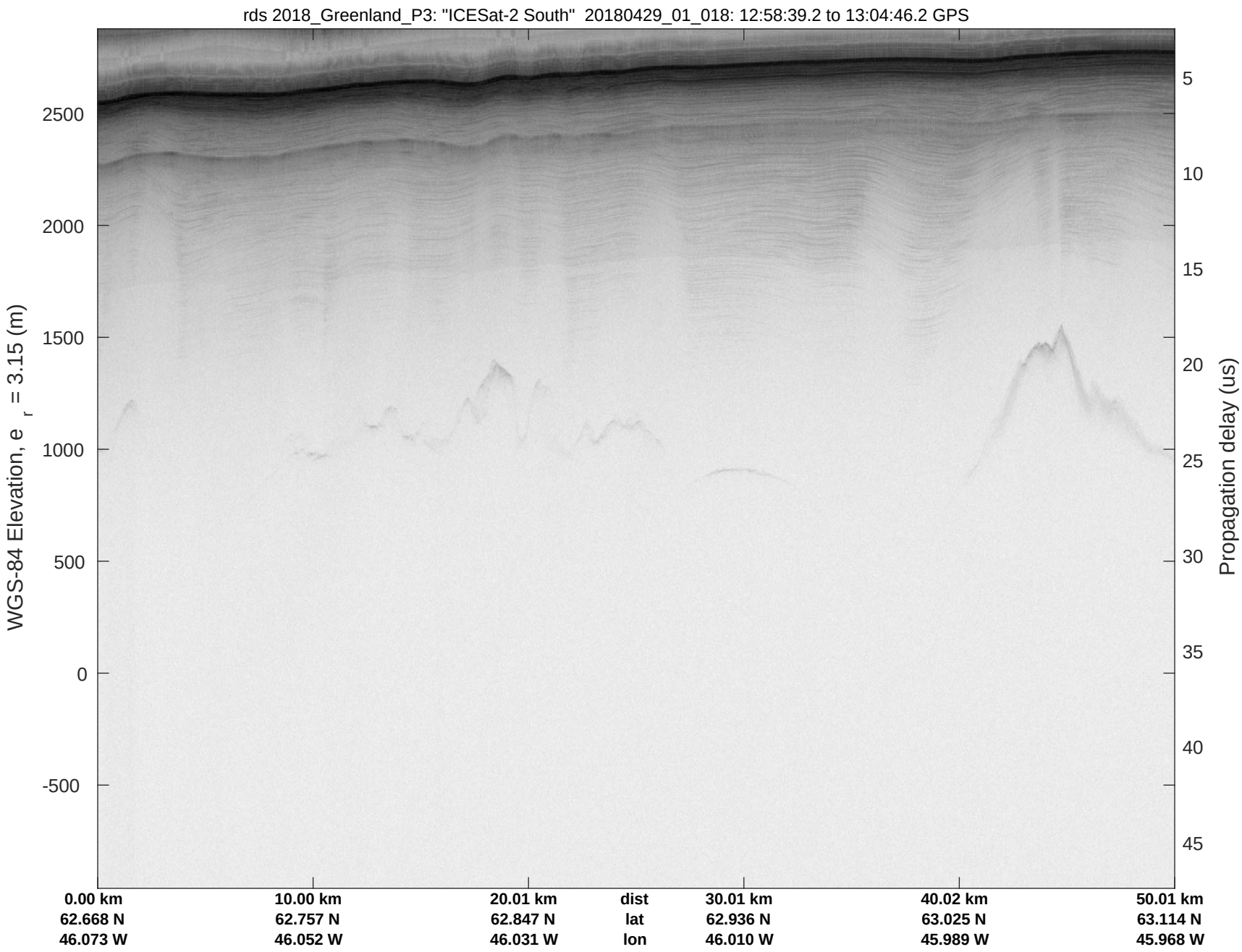

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_015: 12:38:58.3 to 12:46:10.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
50
0.00 km
61.368 N
46.577 W
10.01 km
61.431 N
46.443 W
20.01 km
61.510 N
46.357 W
dist
lat
lon
30.01 km
61.598 N
46.318 W
40.02 km
61.687 N
46.297 W
50.01 km
61.776 N
46.277 W

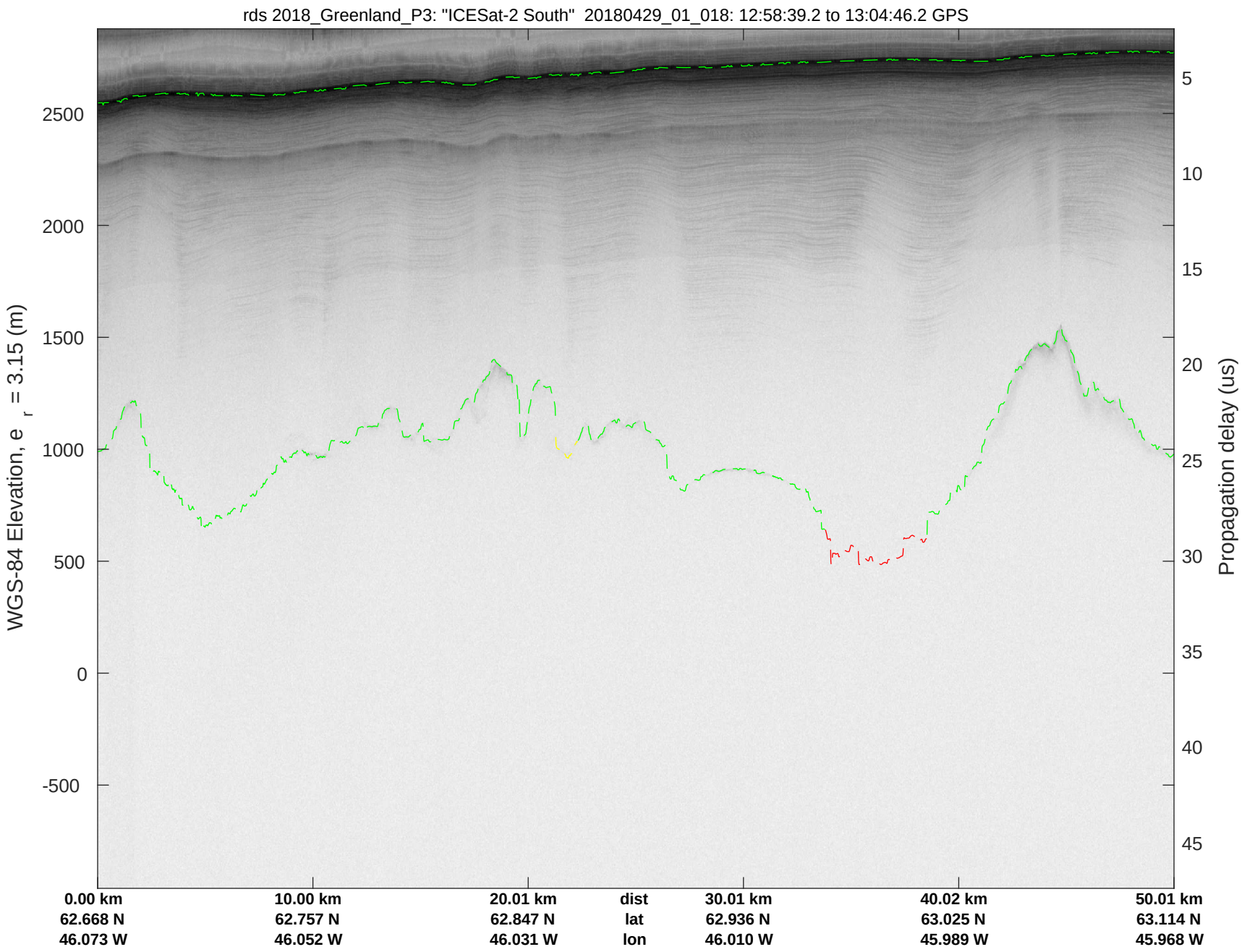

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_016: 12:46:10.4 to 12:52:35.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
61.776 N
46.277 W
10.00 km
61.865 N
46.257 W
20.01 km
61.955 N
46.236 W
dist
lat
lon
30.01 km
62.044 N
46.216 W
40.02 km
62.133 N
46.196 W
50.01 km
62.222 N
46.177 W

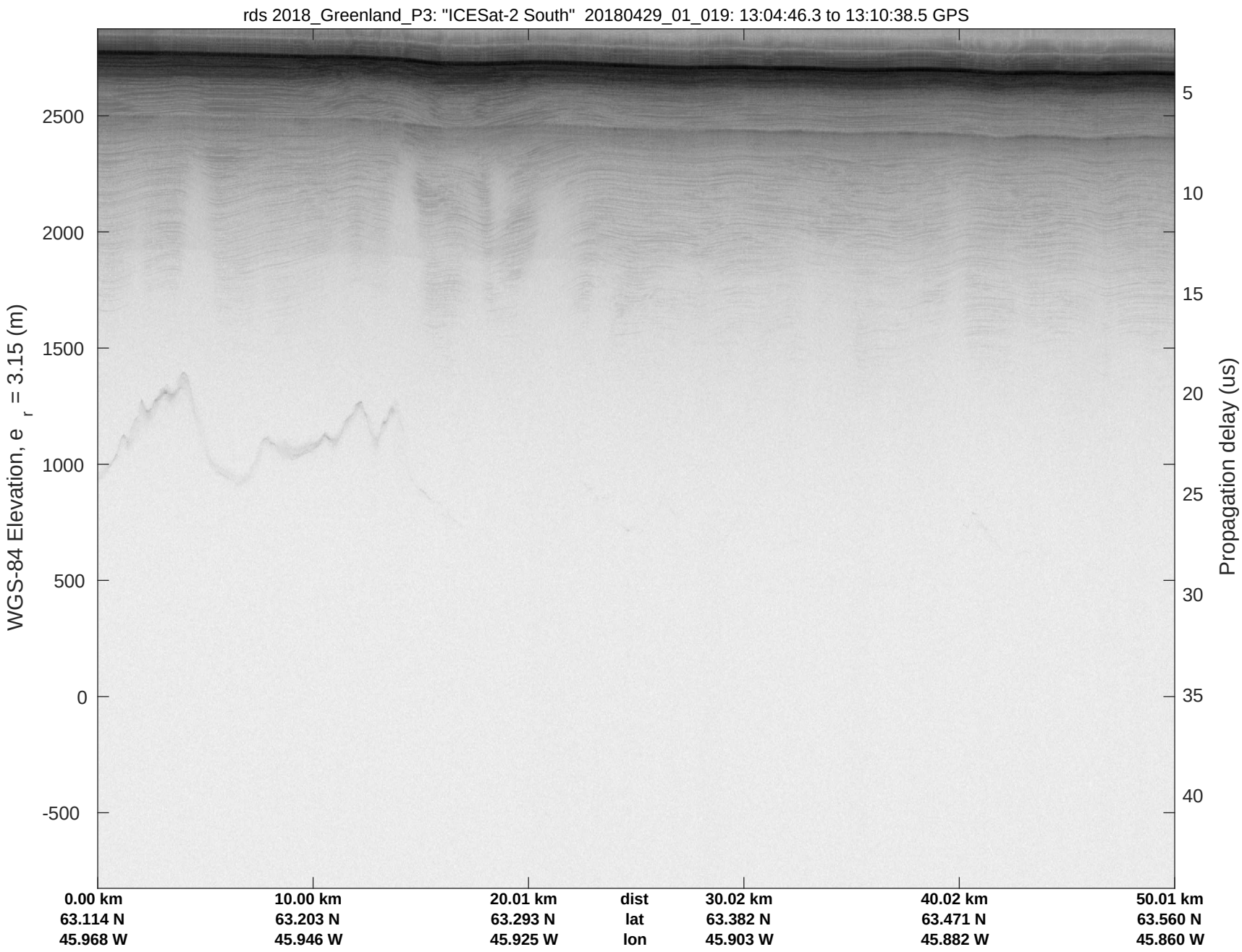

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_016: 12:46:10.4 to 12:52:35.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
61.776 N
46.277 W
10.00 km
61.865 N
46.257 W
20.01 km
61.955 N
46.236 W
dist
lat
lon
30.01 km
62.044 N
46.216 W
40.02 km
62.133 N
46.196 W
50.01 km
62.222 N
46.177 W

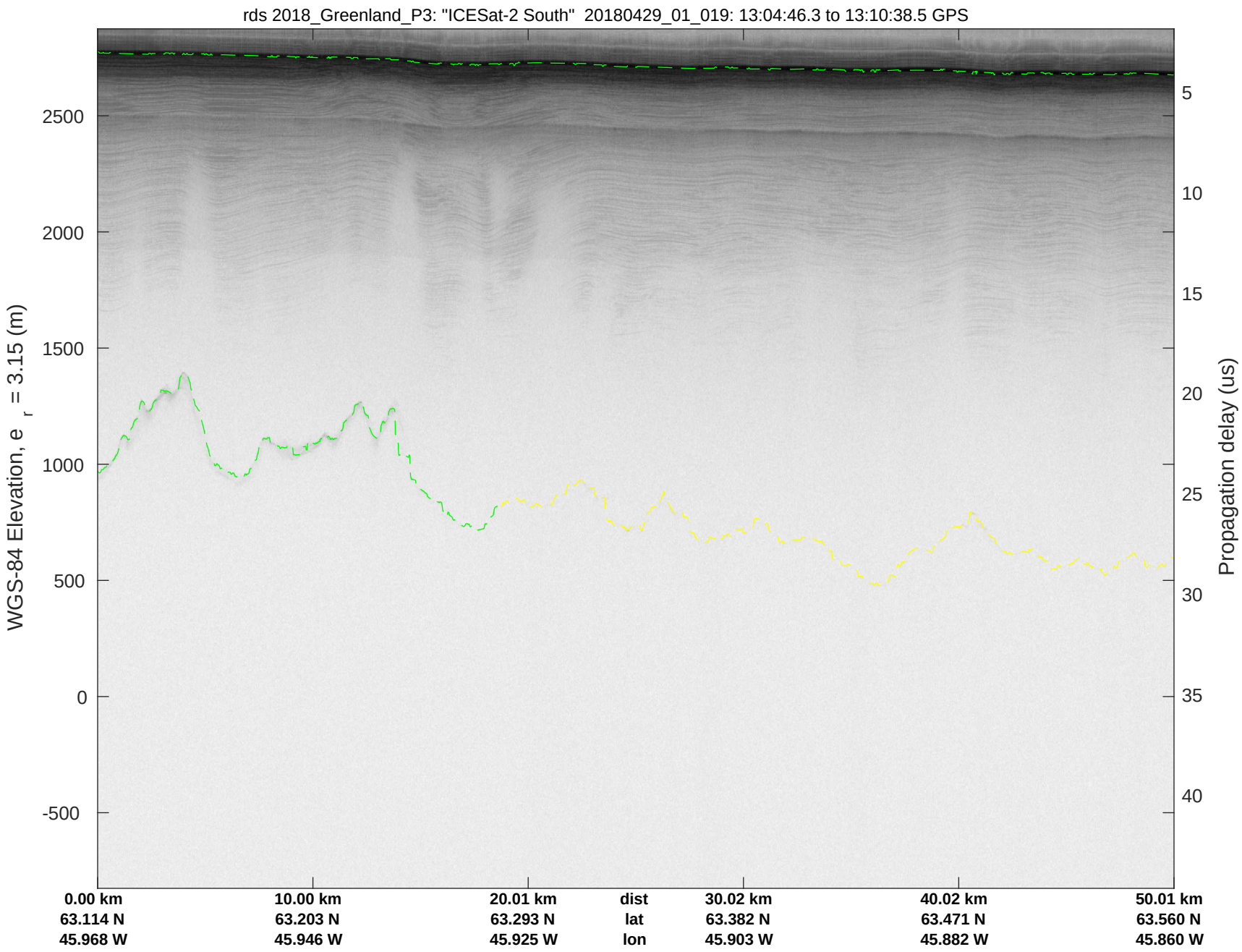

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_017: 12:52:35.9 to 12:58:39.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
62.222 N
46.177 W
10.00 km
62.311 N
46.155 W
20.01 km
62.401 N
46.135 W
dist
lat
lon
30.01 km
62.490 N
46.115 W
40.02 km
62.579 N
46.094 W
50.01 km
62.668 N
46.073 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_017: 12:52:35.9 to 12:58:39.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
62.222 N
46.177 W
10.00 km
62.311 N
46.155 W
20.01 km
62.401 N
46.135 W
dist
lat
lon
30.01 km
62.490 N
46.115 W
40.02 km
62.579 N
46.094 W
50.01 km
62.668 N
46.073 W

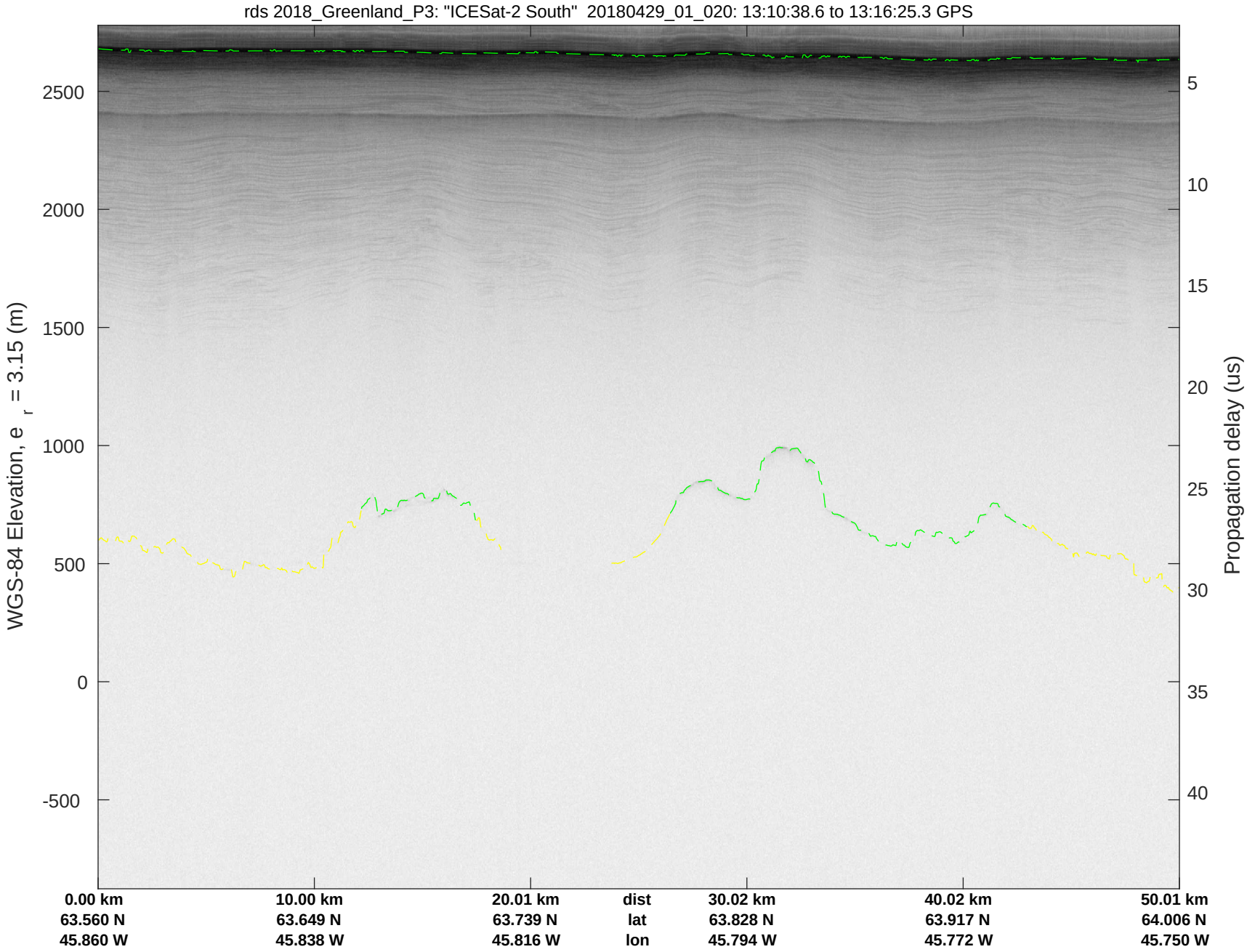

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_018: 12:58:39.2 to 13:04:46.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
62.668 N
46.073 W
10.00 km
62.757 N
46.052 W
20.01 km
62.847 N
46.031 W
dist
lat
lon
30.01 km
62.936 N
46.010 W
40.02 km
63.025 N
45.989 W
50.01 km
63.114 N
45.968 W

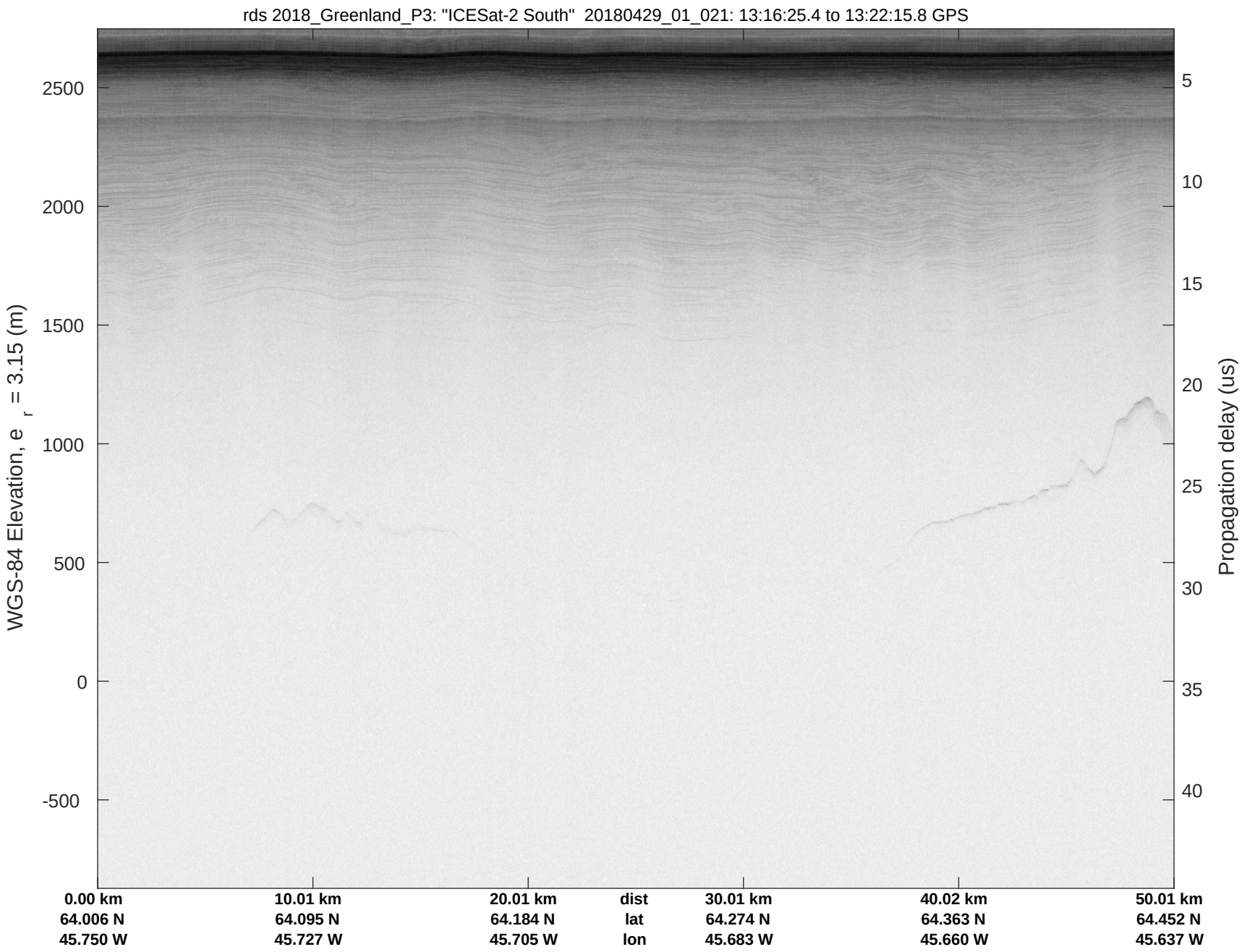

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_018: 12:58:39.2 to 13:04:46.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
62.668 N
46.073 W
10.00 km
62.757 N
46.052 W
20.01 km
62.847 N
46.031 W
dist
lat
lon
30.01 km
62.936 N
46.010 W
40.02 km
63.025 N
45.989 W
50.01 km
63.114 N
45.968 W

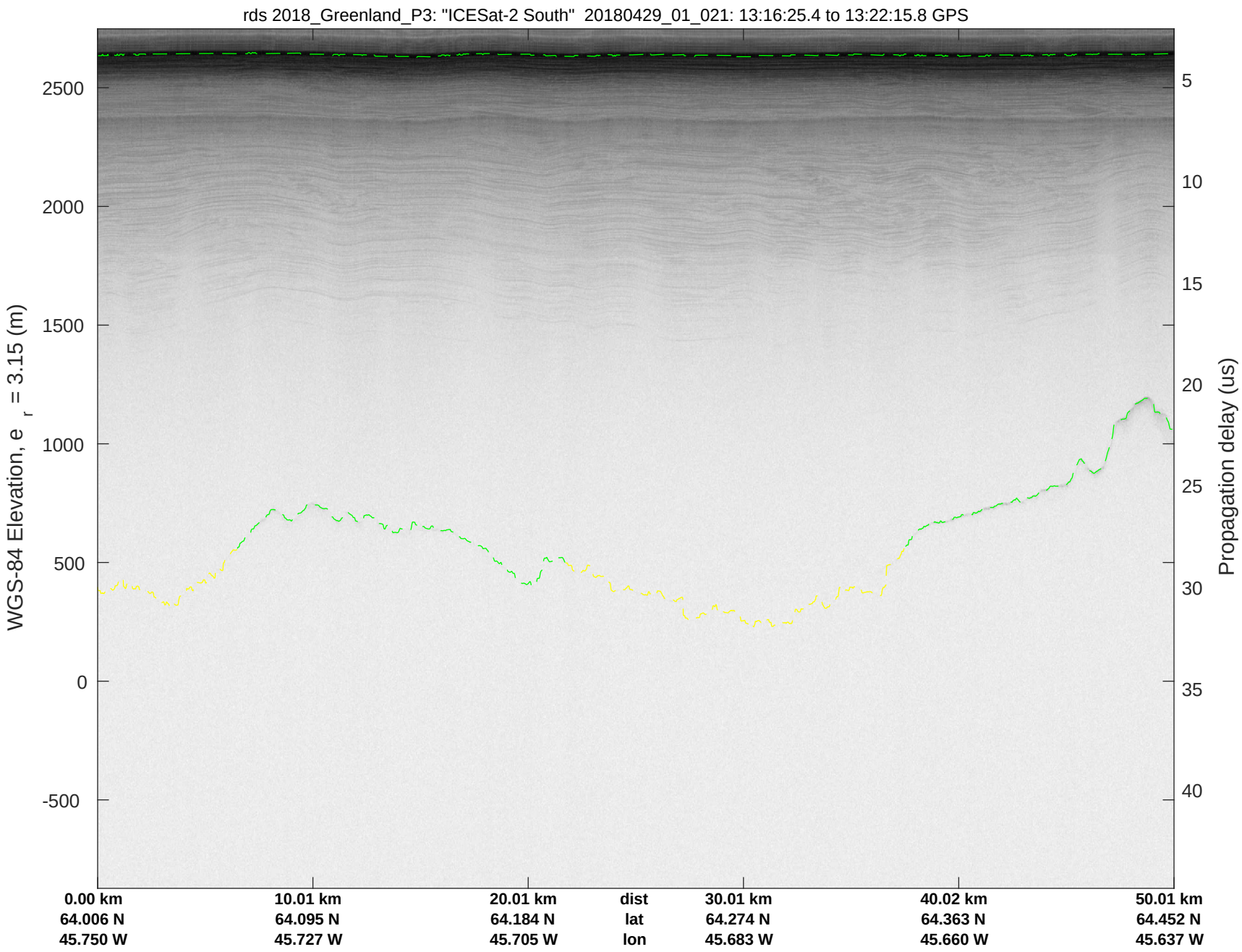

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_019: 13:04:46.3 to 13:10:38.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.114 N
45.968 W
10.00 km
63.203 N
45.946 W
20.01 km
63.293 N
45.925 W
dist
lat
lon
30.02 km
63.382 N
45.903 W
40.02 km
63.471 N
45.882 W
50.01 km
63.560 N
45.860 W

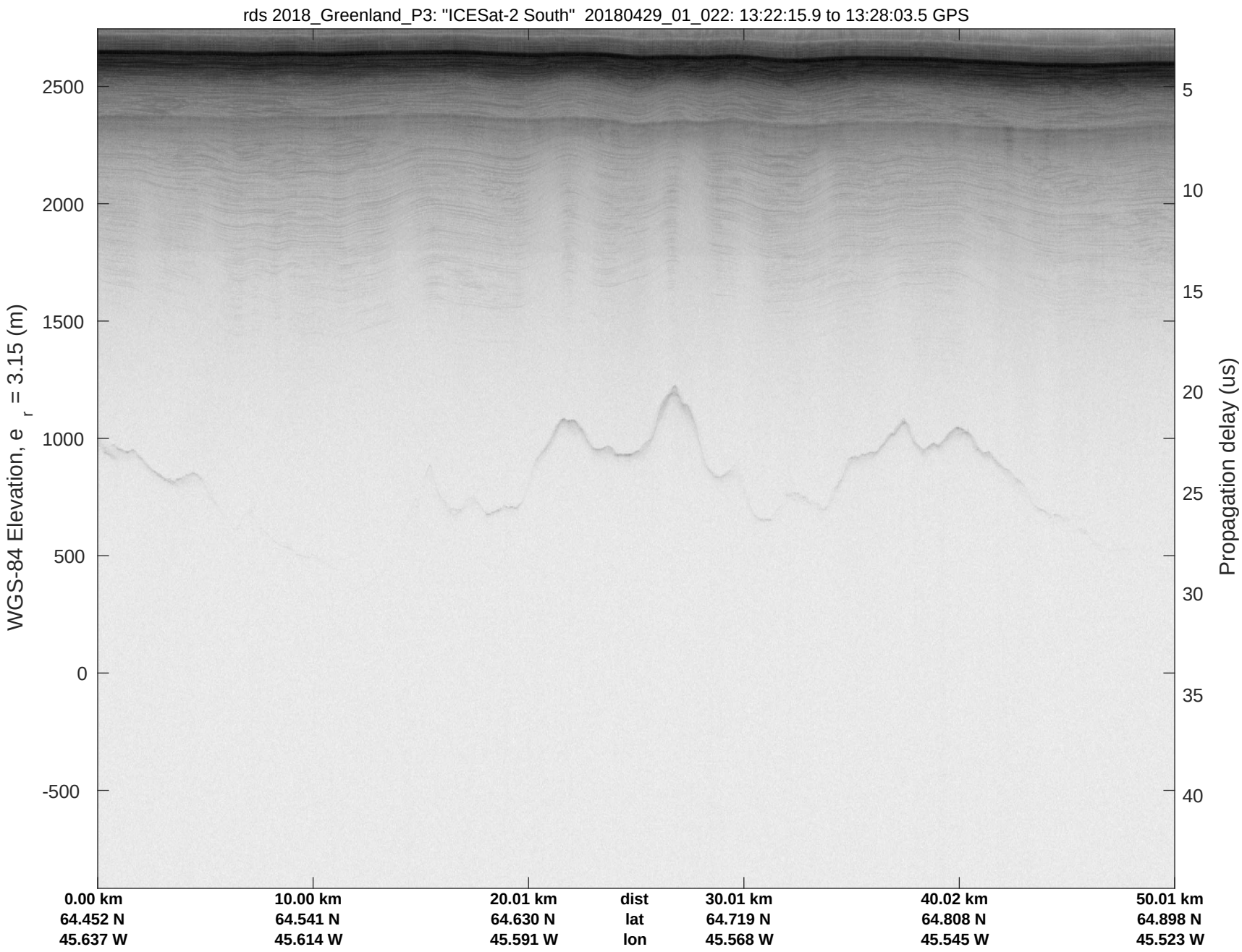

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_019: 13:04:46.3 to 13:10:38.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.114 N
45.968 W
10.00 km
63.203 N
45.946 W
20.01 km
63.293 N
45.925 W
dist
lat
lon
30.02 km
63.382 N
45.903 W
40.02 km
63.471 N
45.882 W
50.01 km
63.560 N
45.860 W

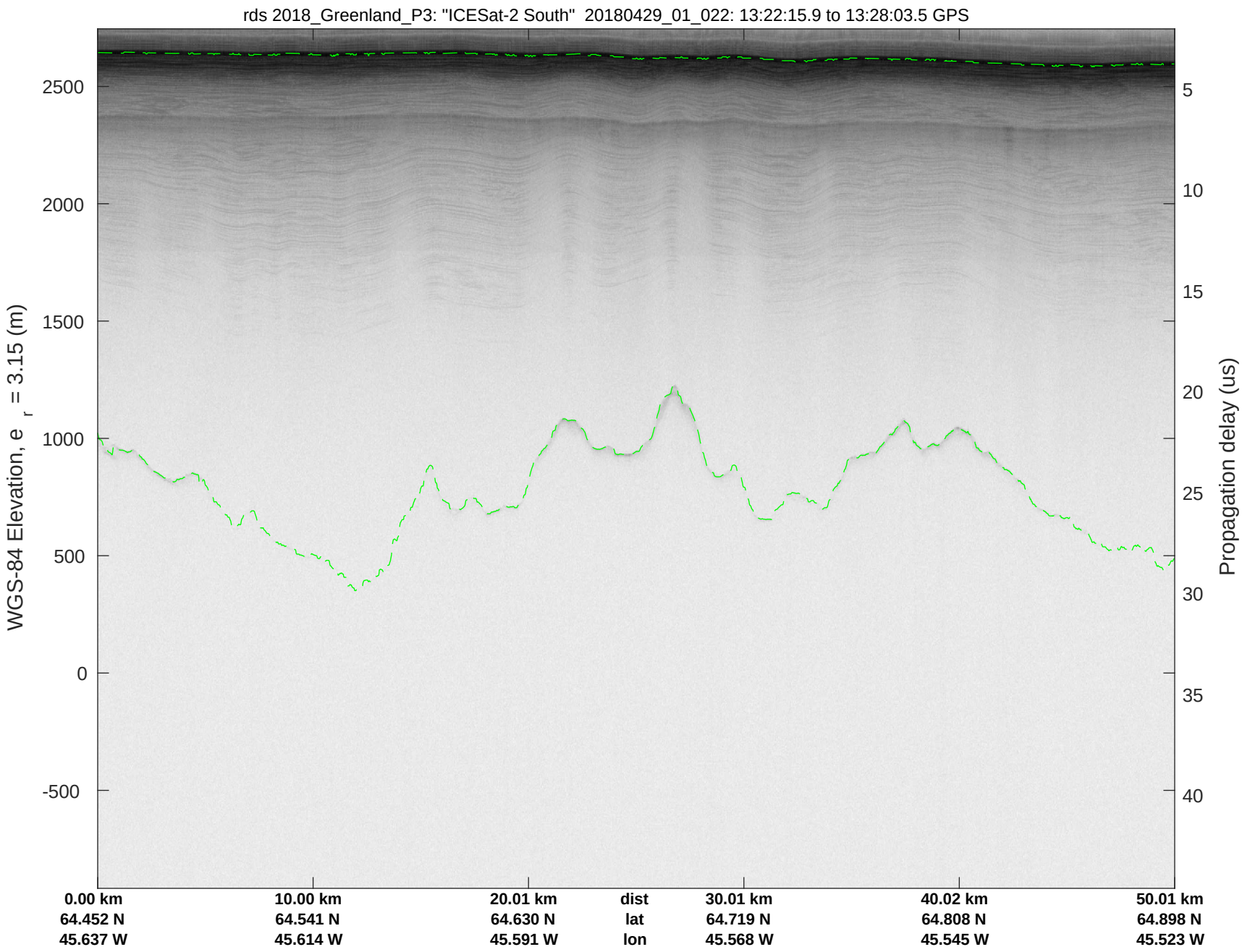
rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_020: 13:10:38.6 to 13:16:25.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.560 N
45.860 W
10.00 km
63.649 N
45.838 W
20.01 km
63.739 N
45.816 W
dist
lat
lon
30.02 km
63.828 N
45.794 W
40.02 km
63.917 N
45.772 W
50.01 km
64.006 N
45.750 W

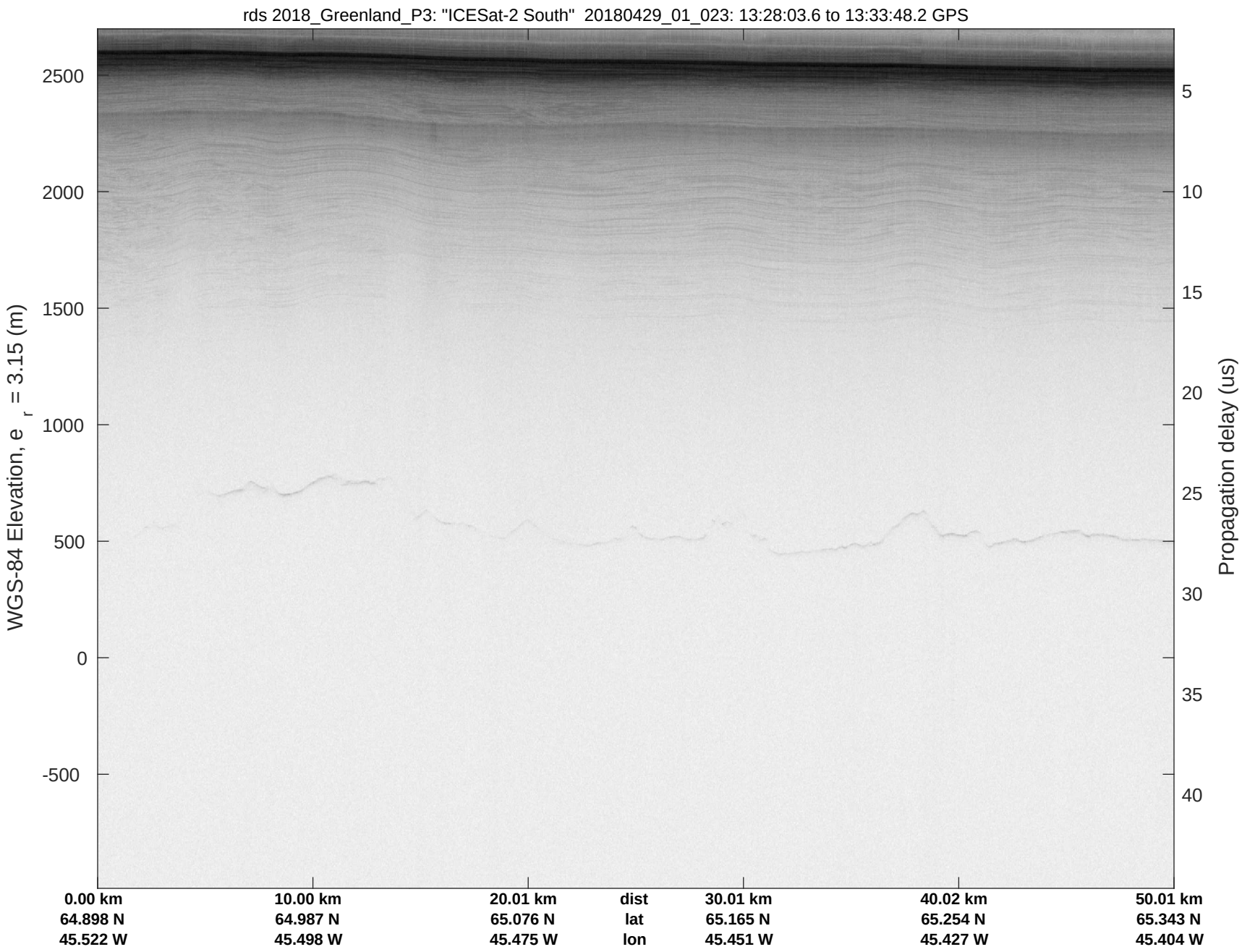

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_020: 13:10:38.6 to 13:16:25.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.560 N
45.860 W
10.00 km
63.649 N
45.838 W
20.01 km
63.739 N
45.816 W
dist
lat
lon
30.02 km
63.828 N
45.794 W
40.02 km
63.917 N
45.772 W
50.01 km
64.006 N
45.750 W

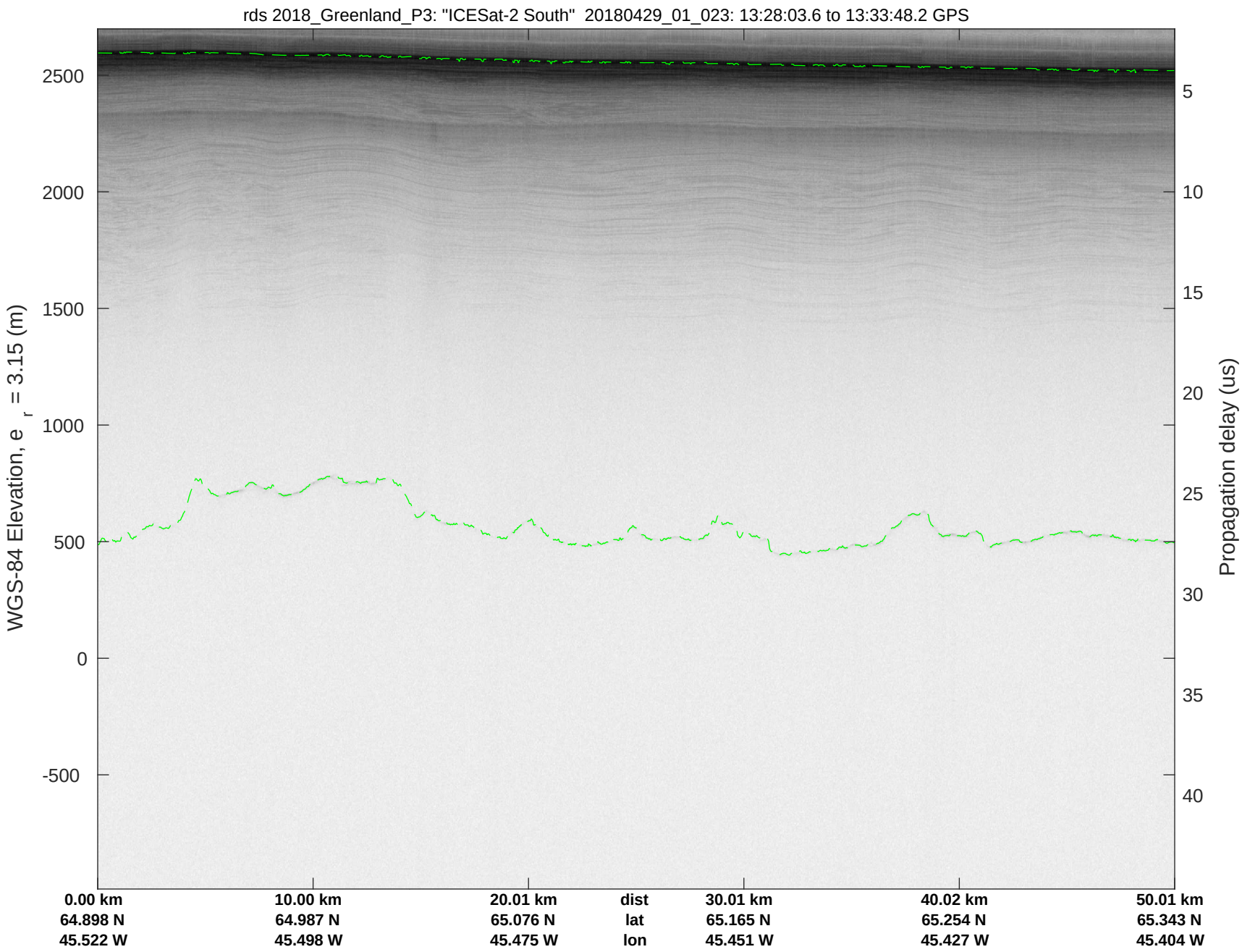

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_021: 13:16:25.4 to 13:22:15.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.006 N
45.750 W
10.01 km
64.095 N
45.727 W
20.01 km
64.184 N
45.705 W
dist
lat
lon
30.01 km
64.274 N
45.683 W
40.02 km
64.363 N
45.660 W
50.01 km
64.452 N
45.637 W

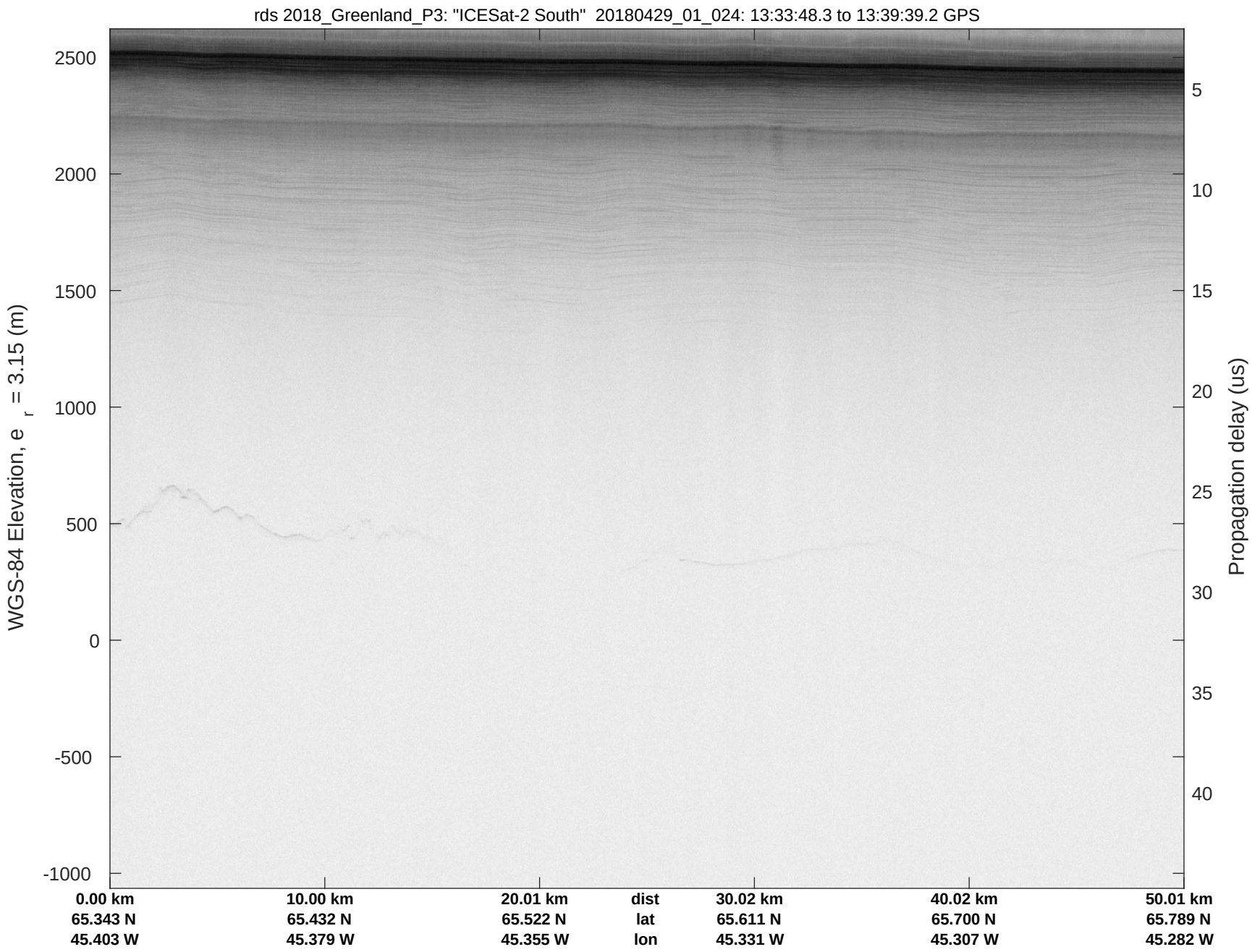

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_021: 13:16:25.4 to 13:22:15.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.006 N
45.750 W
10.01 km
64.095 N
45.727 W
20.01 km
64.184 N
45.705 W
dist
lat
lon
30.01 km
64.274 N
45.683 W
40.02 km
64.363 N
45.660 W
50.01 km
64.452 N
45.637 W

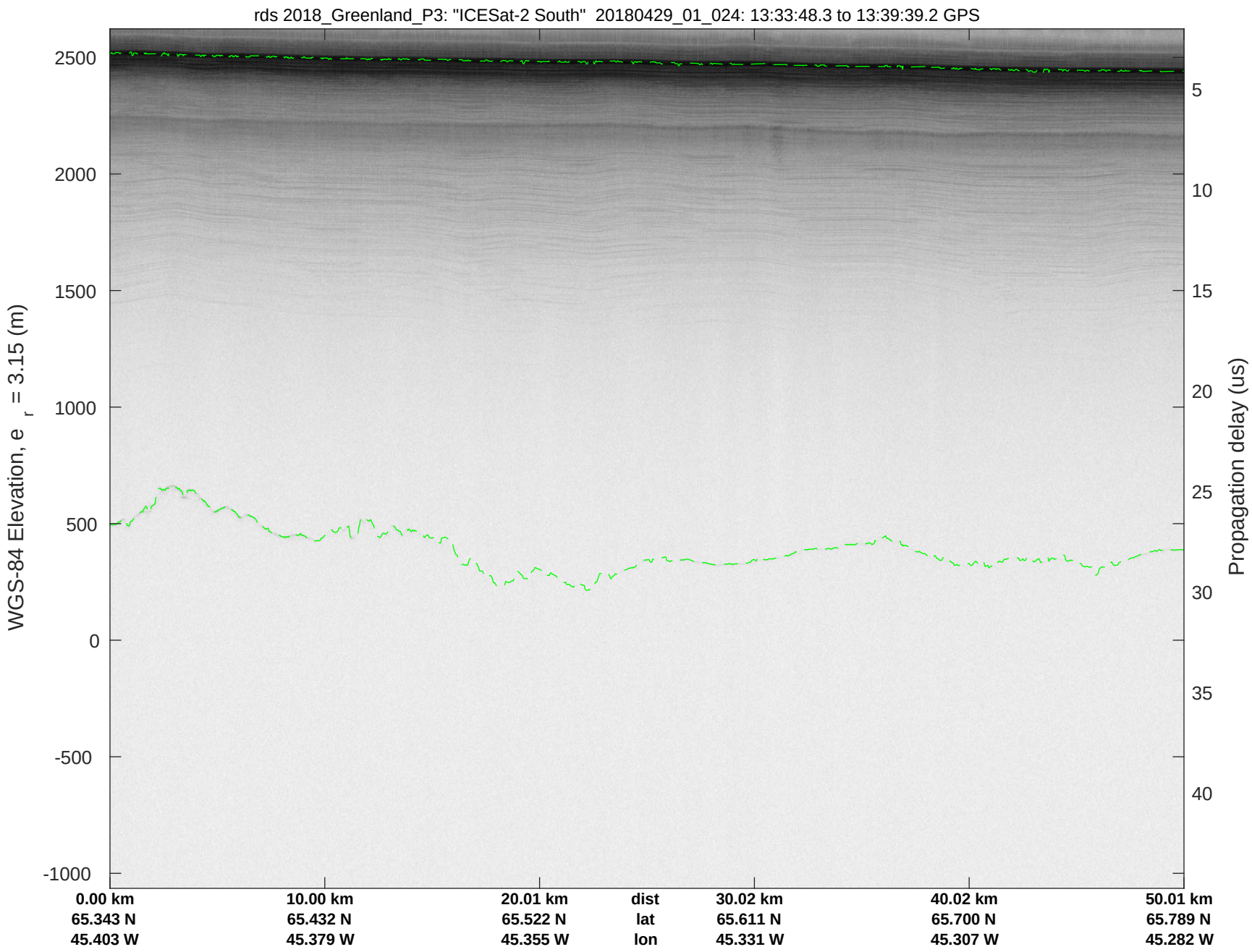

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_022: 13:22:15.9 to 13:28:03.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.452 N
45.637 W
10.00 km
64.541 N
45.614 W
20.01 km
64.630 N
45.591 W
dist
lat
lon
30.01 km
64.719 N
45.568 W
40.02 km
64.808 N
45.545 W
50.01 km
64.898 N
45.523 W

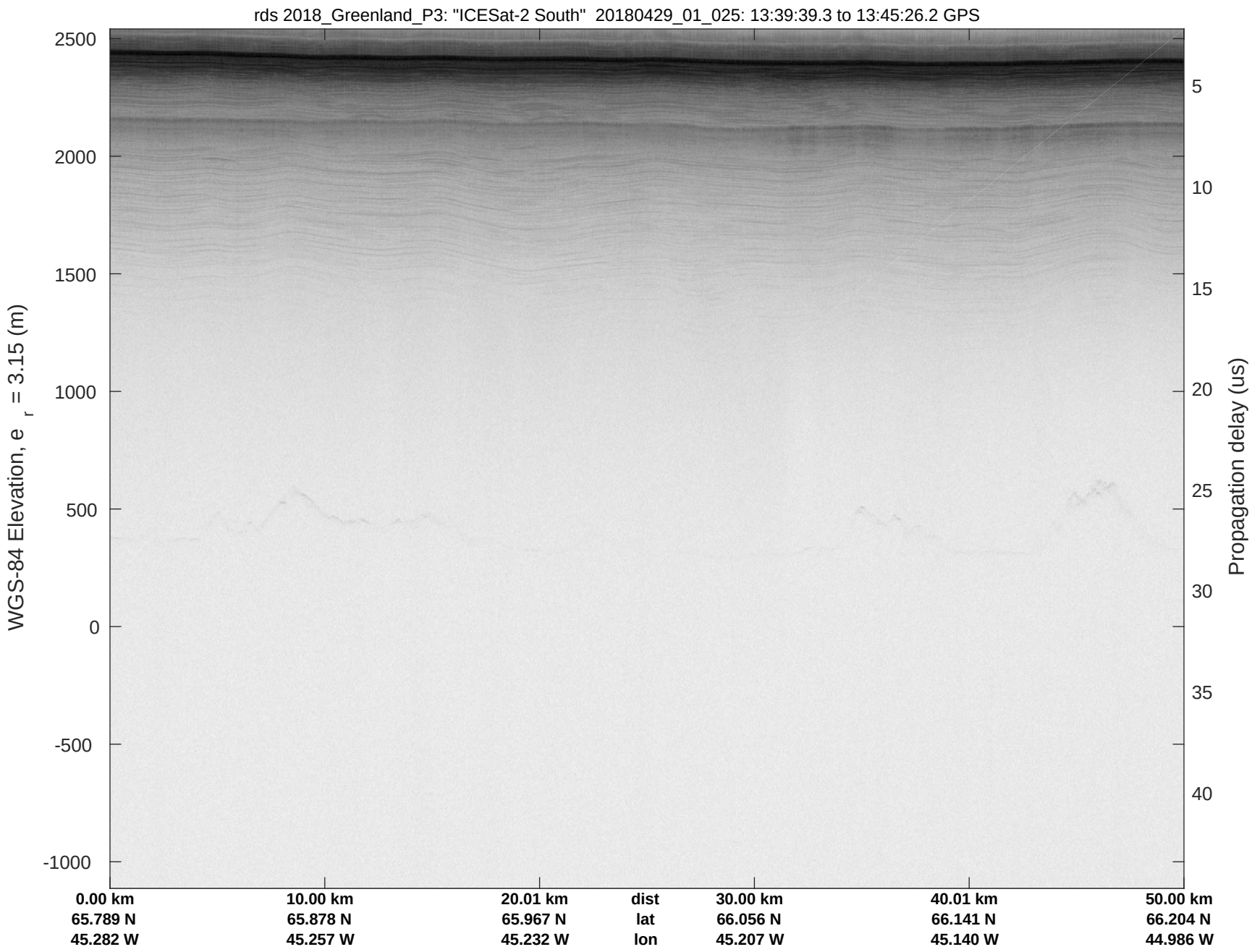

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_022: 13:22:15.9 to 13:28:03.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.452 N
45.637 W
10.00 km
64.541 N
45.614 W
20.01 km
64.630 N
45.591 W
dist
lat
lon
30.01 km
64.719 N
45.568 W
40.02 km
64.808 N
45.545 W
50.01 km
64.898 N
45.523 W

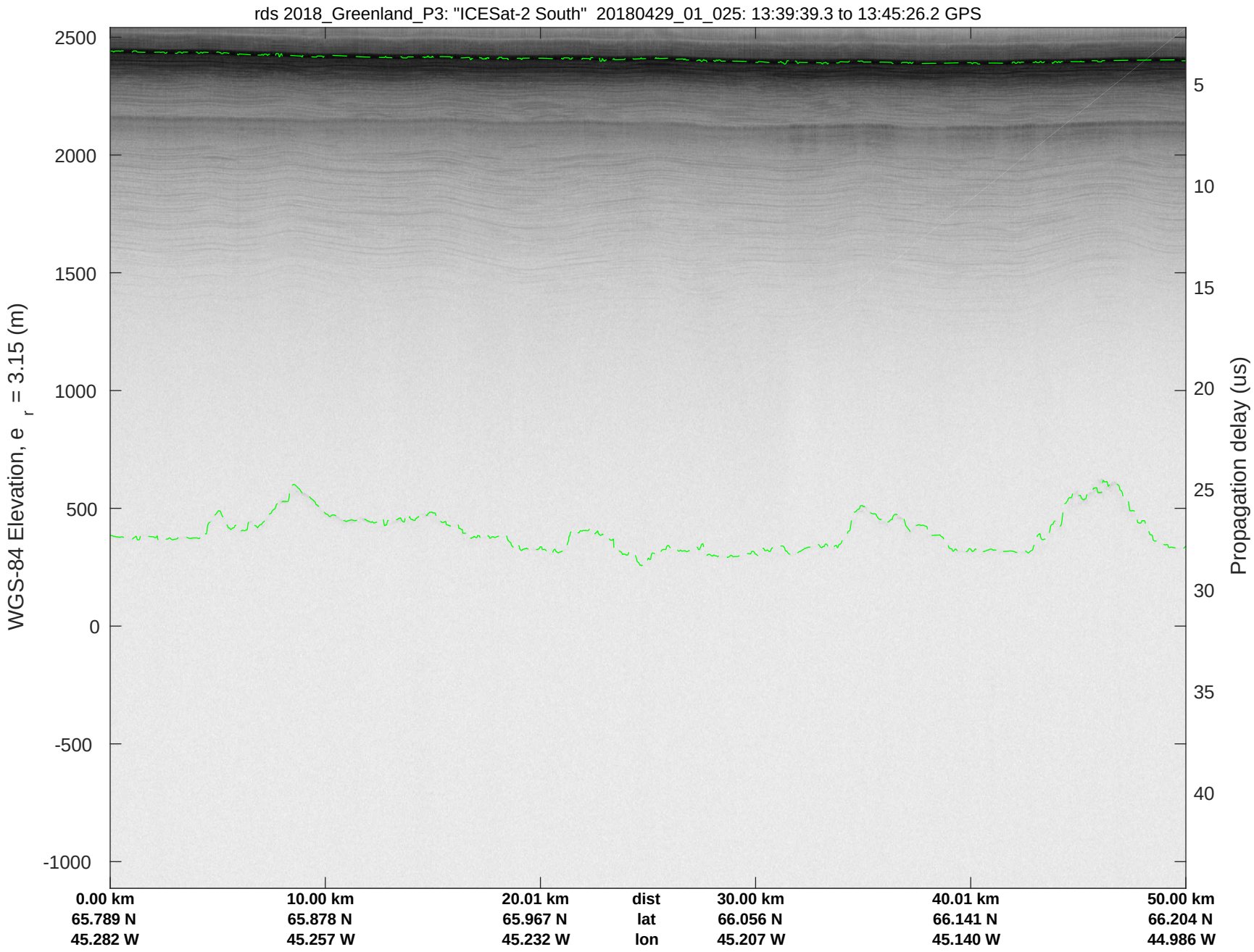

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_023: 13:28:03.6 to 13:33:48.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.898 N
45.522 W
10.00 km
64.987 N
45.498 W
20.01 km
65.076 N
45.475 W
dist
lat
lon
30.01 km
65.165 N
45.451 W
40.02 km
65.254 N
45.427 W
50.01 km
65.343 N
45.404 W

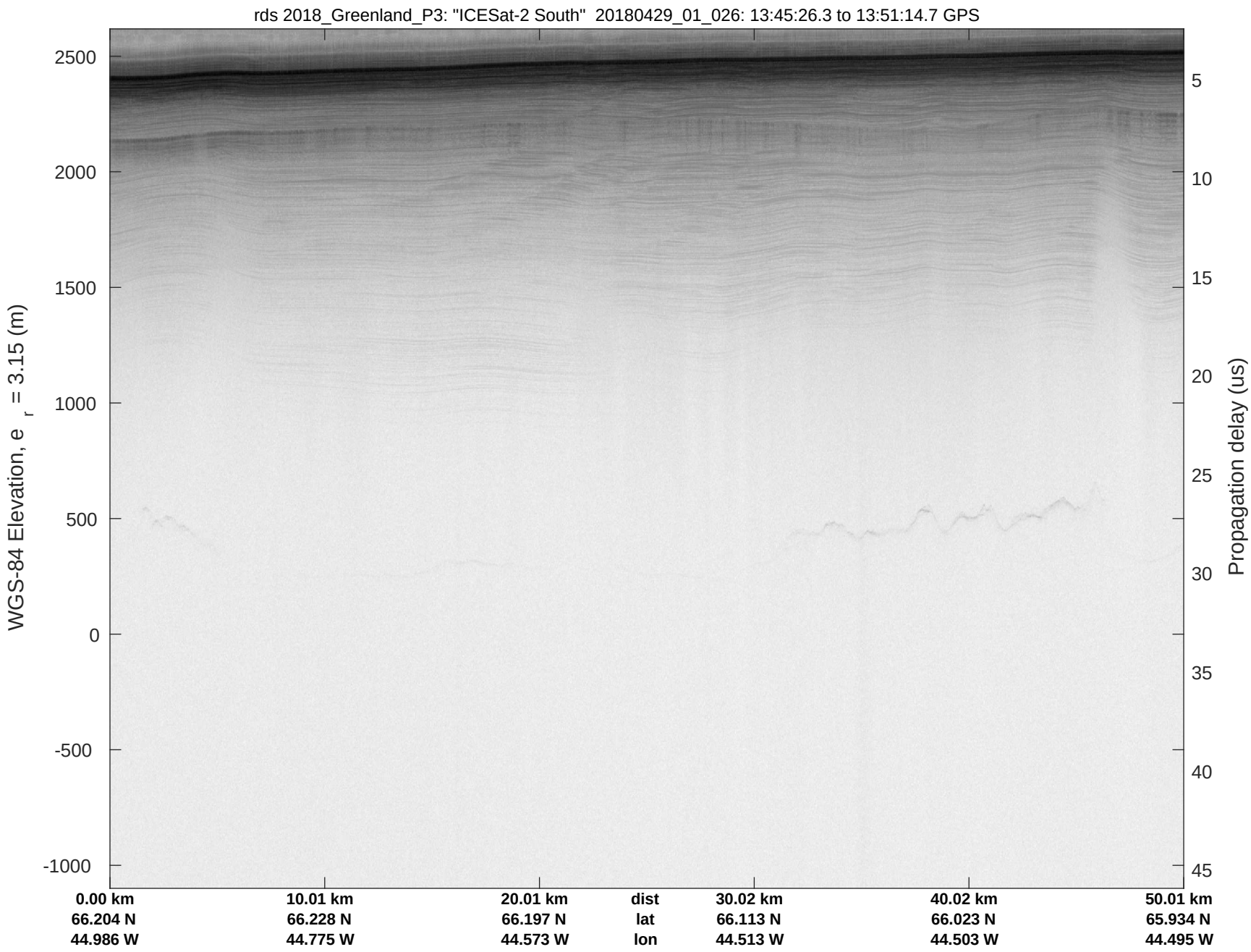

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_023: 13:28:03.6 to 13:33:48.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.898 N
45.522 W
10.00 km
64.987 N
45.498 W
20.01 km
65.076 N
45.475 W
dist
lat
lon
30.01 km
65.165 N
45.451 W
40.02 km
65.254 N
45.427 W
50.01 km
65.343 N
45.404 W

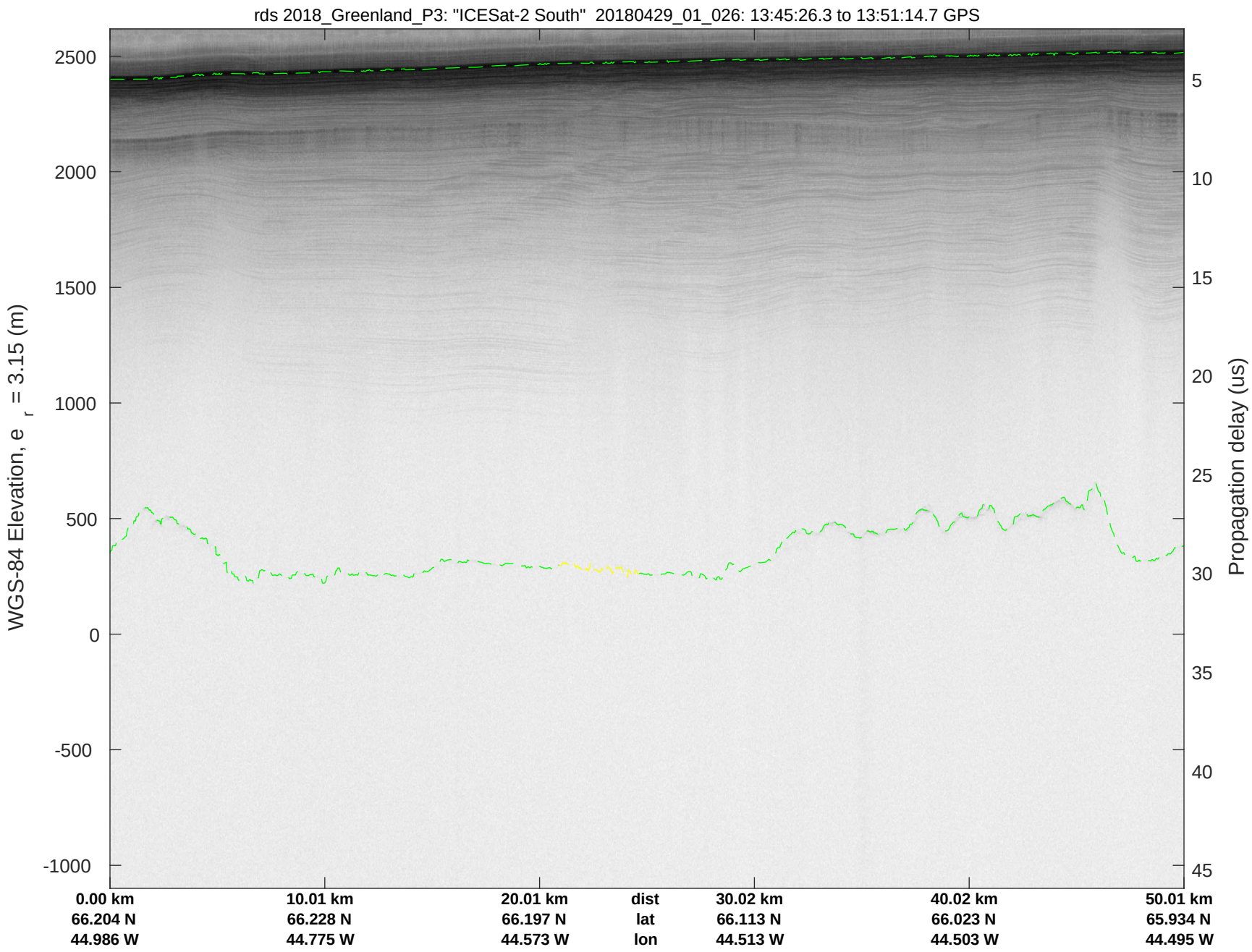

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_024: 13:33:48.3 to 13:39:39.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.343 N
45.403 W
10.00 km
65.432 N
45.379 W
20.01 km
65.522 N
45.355 W
dist
lat
lon
30.02 km
65.611 N
45.331 W
40.02 km
65.700 N
45.307 W
50.01 km
65.789 N
45.282 W

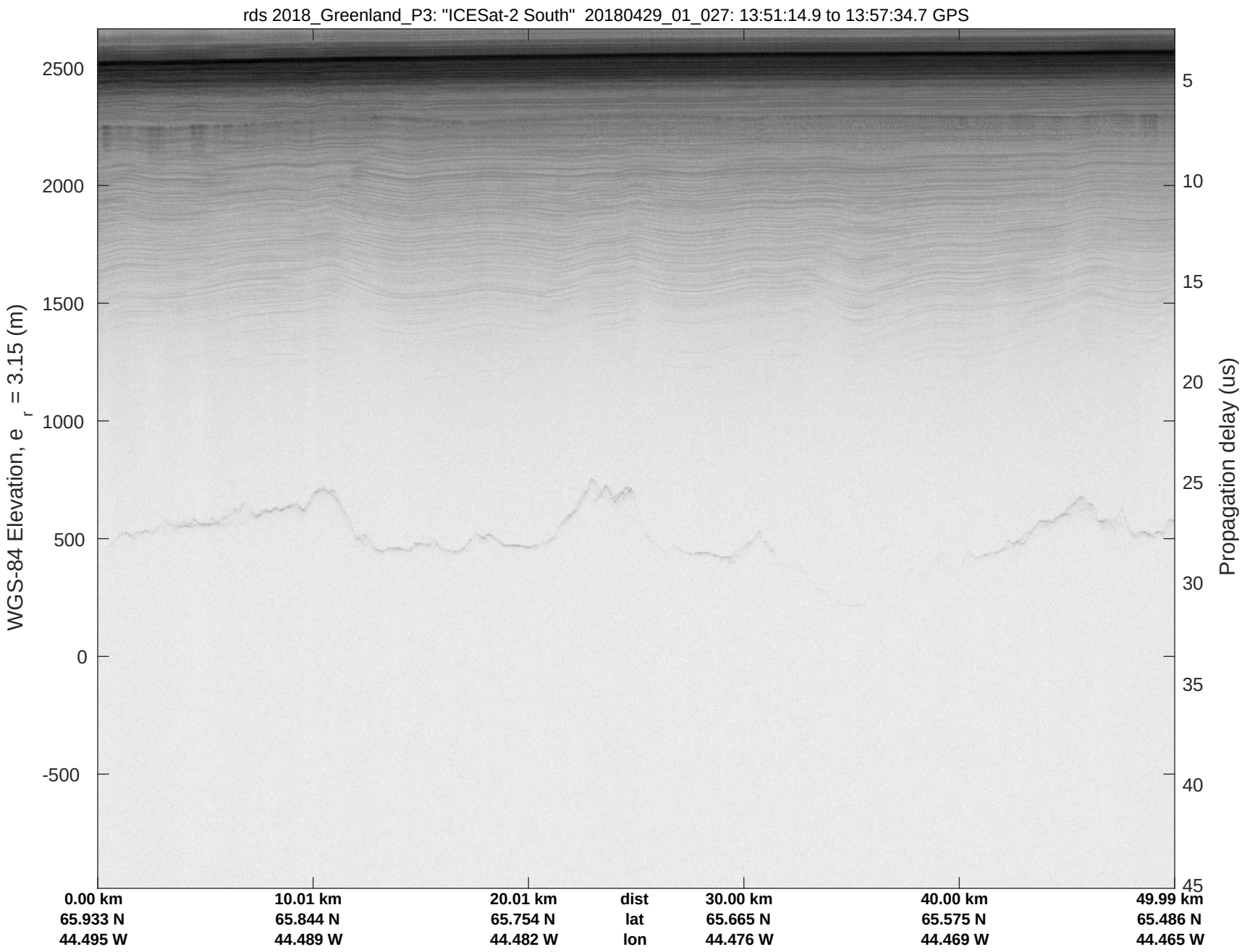

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_024: 13:33:48.3 to 13:39:39.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.343 N
45.403 W
10.00 km
65.432 N
45.379 W
20.01 km
65.522 N
45.355 W
dist
lat
lon
30.02 km
65.611 N
45.331 W
40.02 km
65.700 N
45.307 W
50.01 km
65.789 N
45.282 W

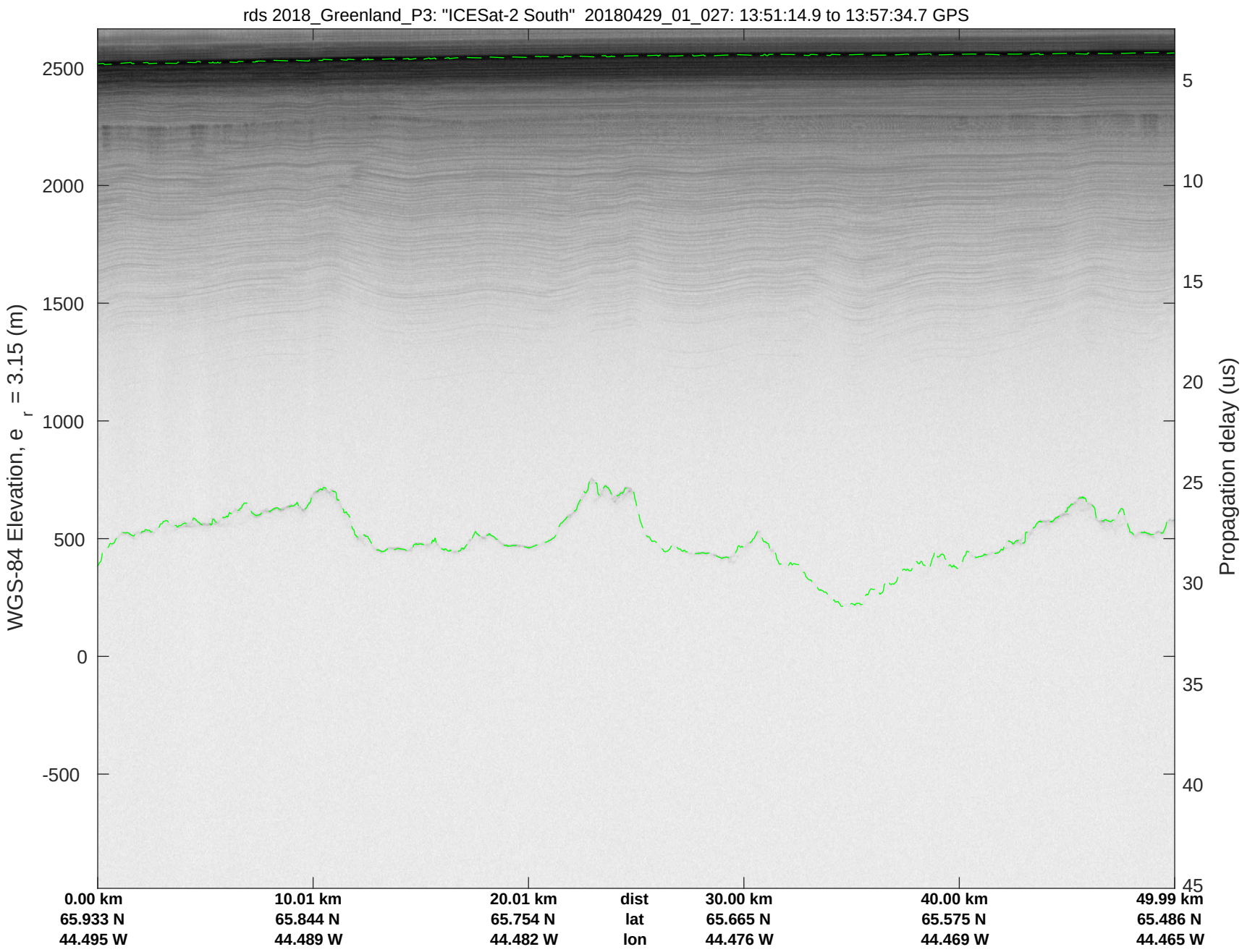

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_025: 13:39:39.3 to 13:45:26.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.789 N
45.282 W
10.00 km
65.878 N
45.257 W
20.01 km
65.967 N
45.232 W
dist
lat
lon
30.00 km
66.056 N
45.207 W
40.01 km
66.141 N
45.140 W
50.00 km
66.204 N
44.986 W

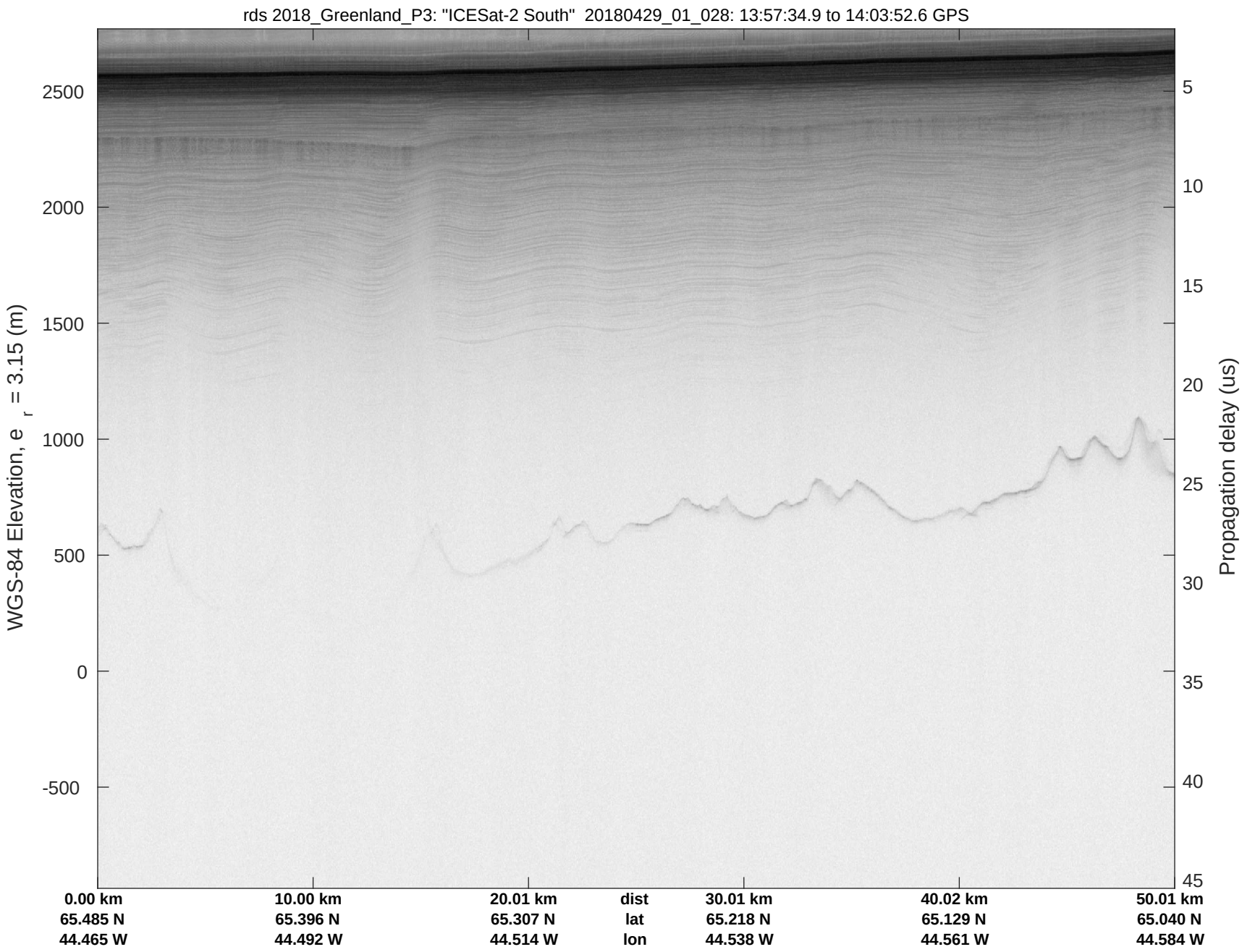

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_025: 13:39:39.3 to 13:45:26.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.789 N
45.282 W
10.00 km
65.878 N
45.257 W
20.01 km
65.967 N
45.232 W
dist
lat
lon
30.00 km
66.056 N
45.207 W
40.01 km
66.141 N
45.140 W
50.00 km
66.204 N
44.986 W

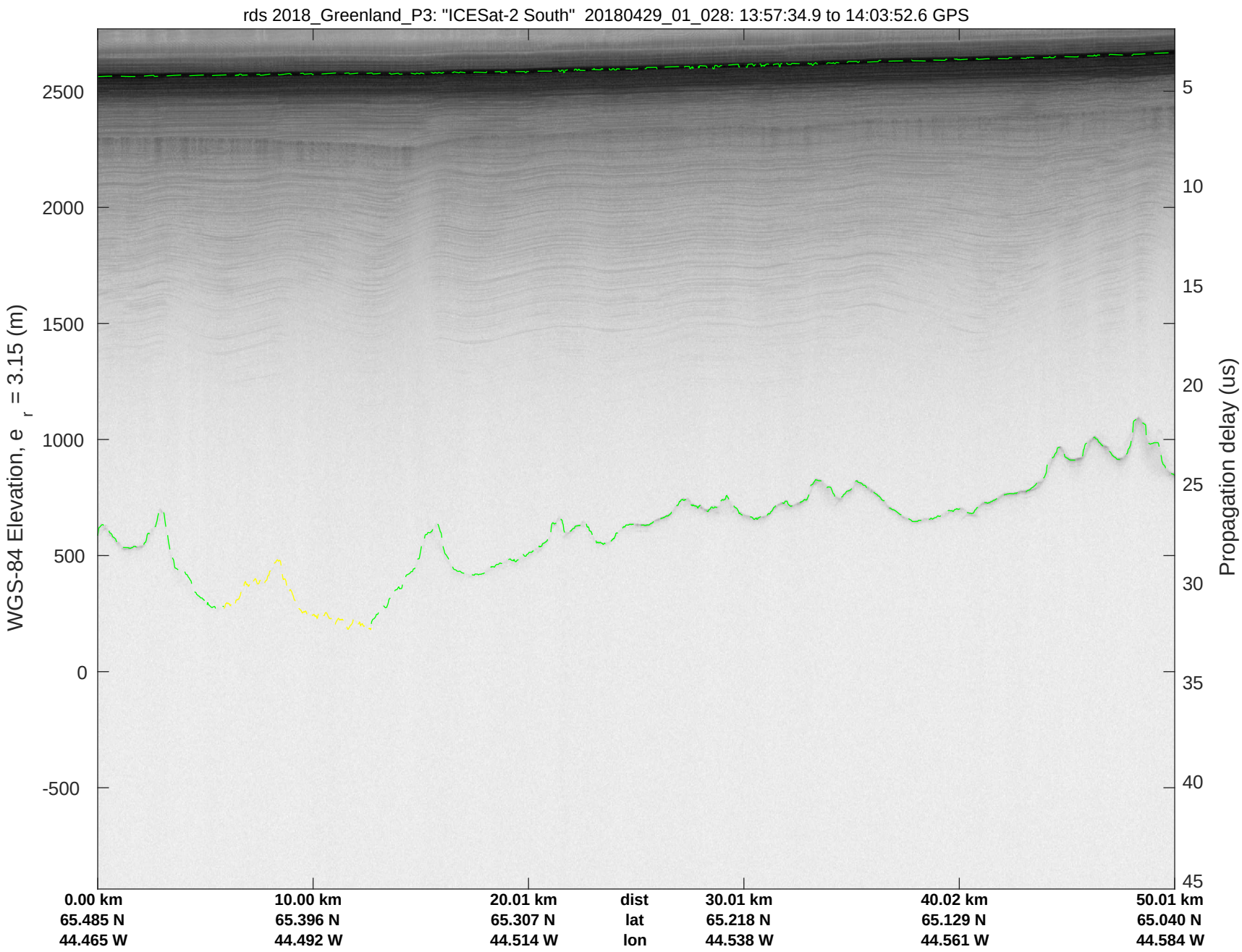

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_026: 13:45:26.3 to 13:51:14.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
66.204 N
44.986 W
10.01 km
66.228 N
44.775 W
20.01 km
66.197 N
44.573 W
dist
lat
lon
30.02 km
66.113 N
44.513 W
40.02 km
66.023 N
44.503 W
50.01 km
65.934 N
44.495 W

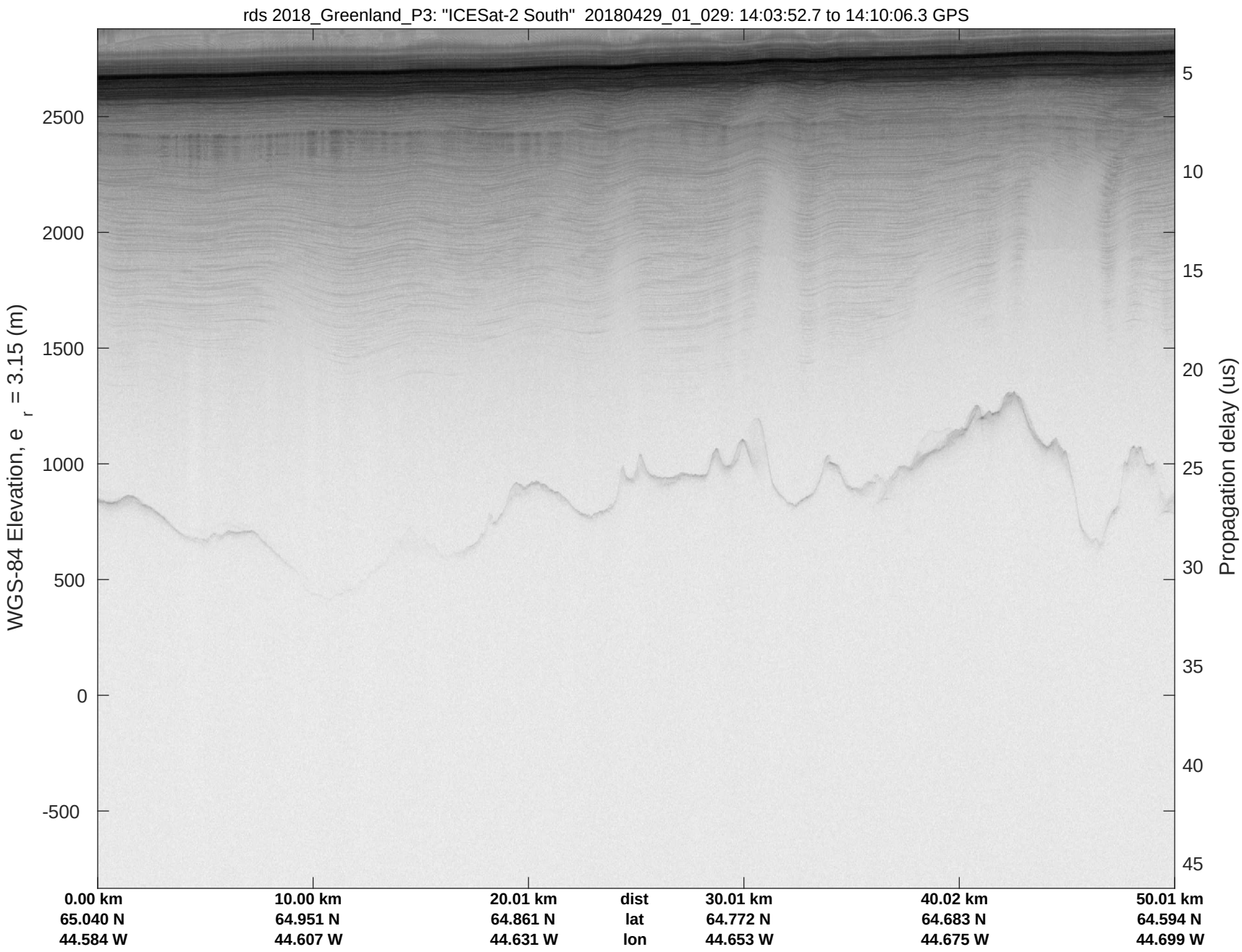

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_026: 13:45:26.3 to 13:51:14.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
66.204 N
44.986 W
10.01 km
66.228 N
44.775 W
20.01 km
66.197 N
44.573 W
dist
lat
lon
30.02 km
66.113 N
44.513 W
40.02 km
66.023 N
44.503 W
50.01 km
65.934 N
44.495 W

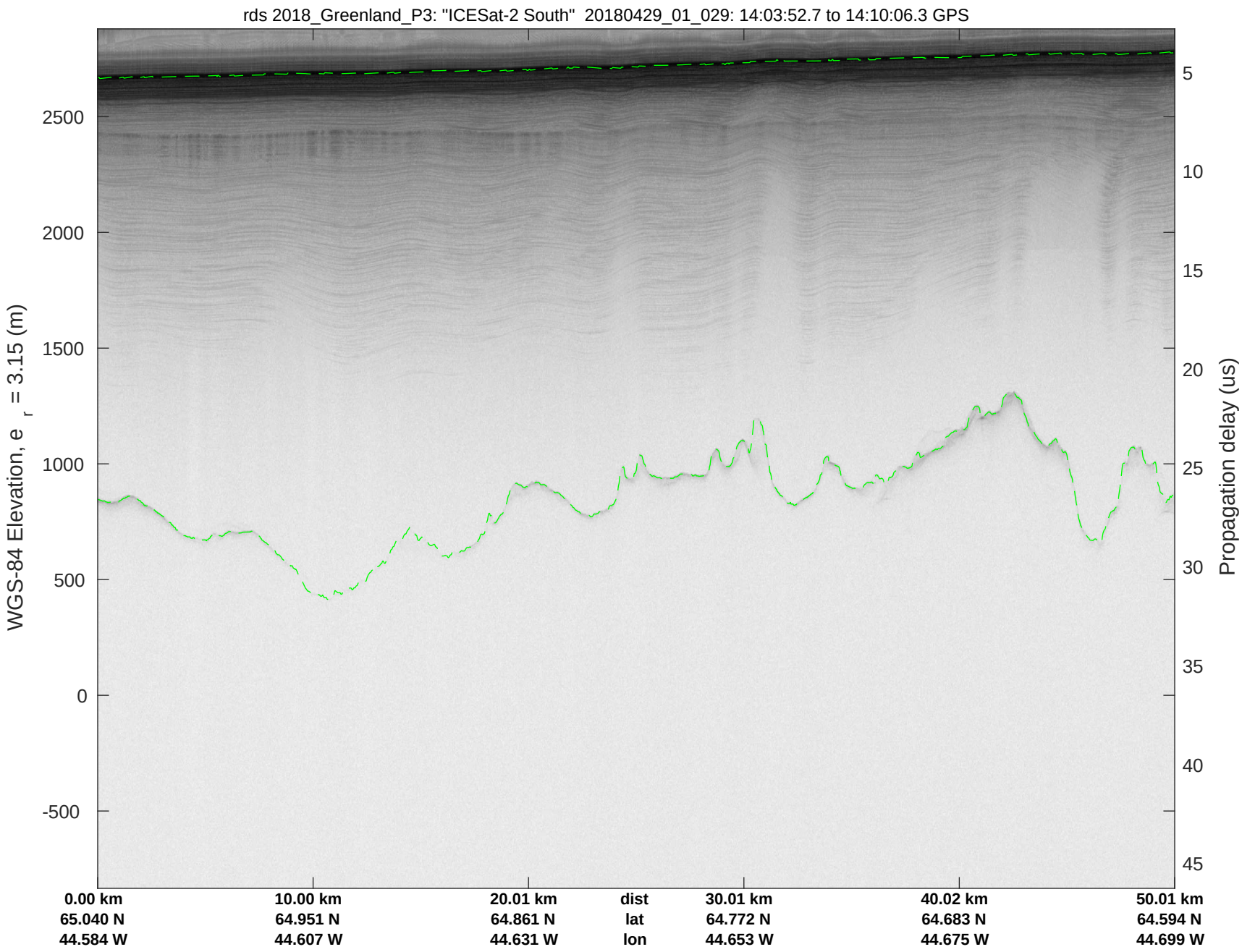

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_027: 13:51:14.9 to 13:57:34.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
65.933 N
44.495 W
10.01 km
65.844 N
44.489 W
20.01 km
65.754 N
44.482 W
dist
lat
lon
30.00 km
65.665 N
44.476 W
40.00 km
65.575 N
44.469 W
49.99 km
65.486 N
44.465 W

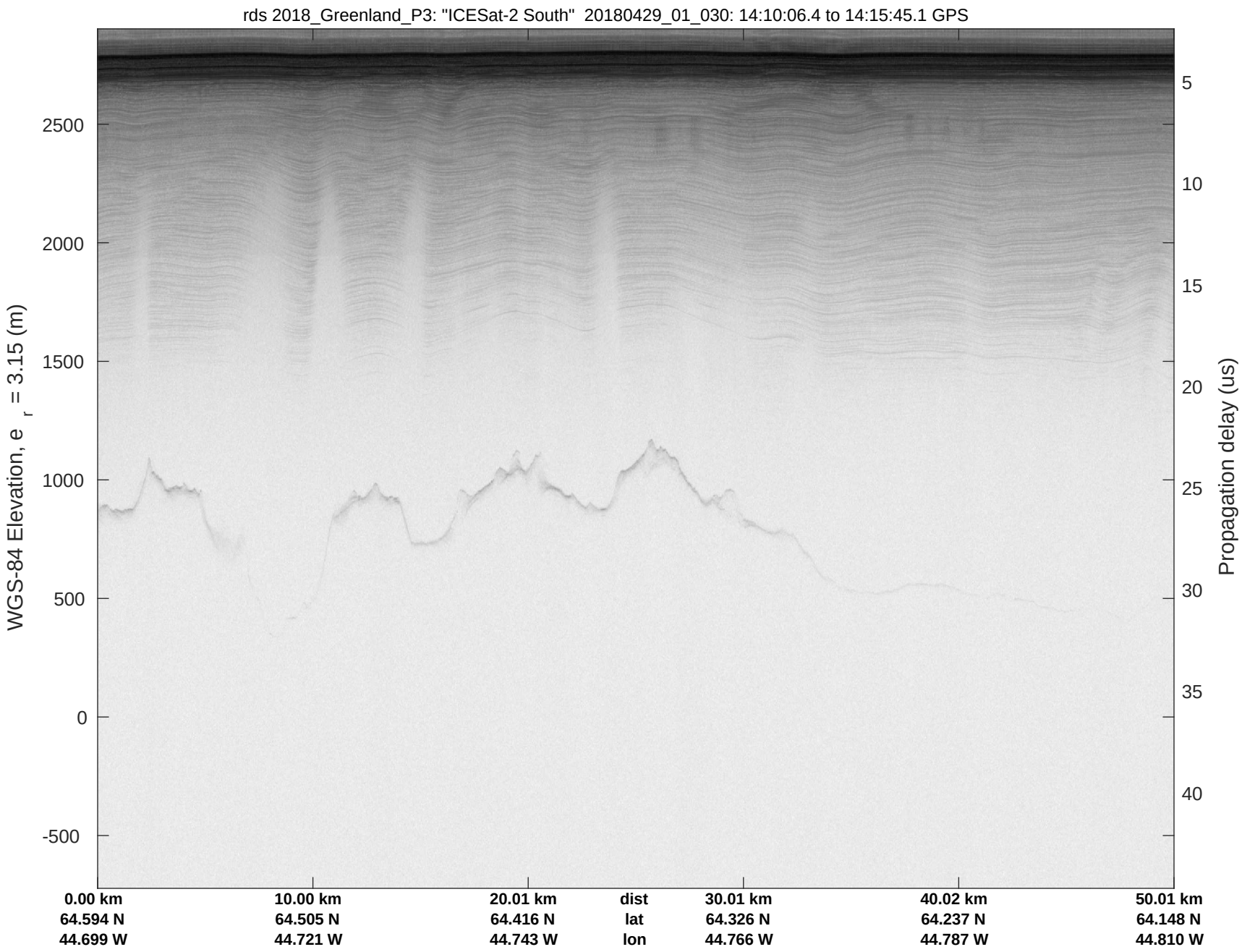

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_027: 13:51:14.9 to 13:57:34.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
65.933 N
44.495 W
10.01 km
65.844 N
44.489 W
20.01 km
65.754 N
44.482 W
dist
lat
lon
30.00 km
65.665 N
44.476 W
40.00 km
65.575 N
44.469 W
49.99 km
65.486 N
44.465 W

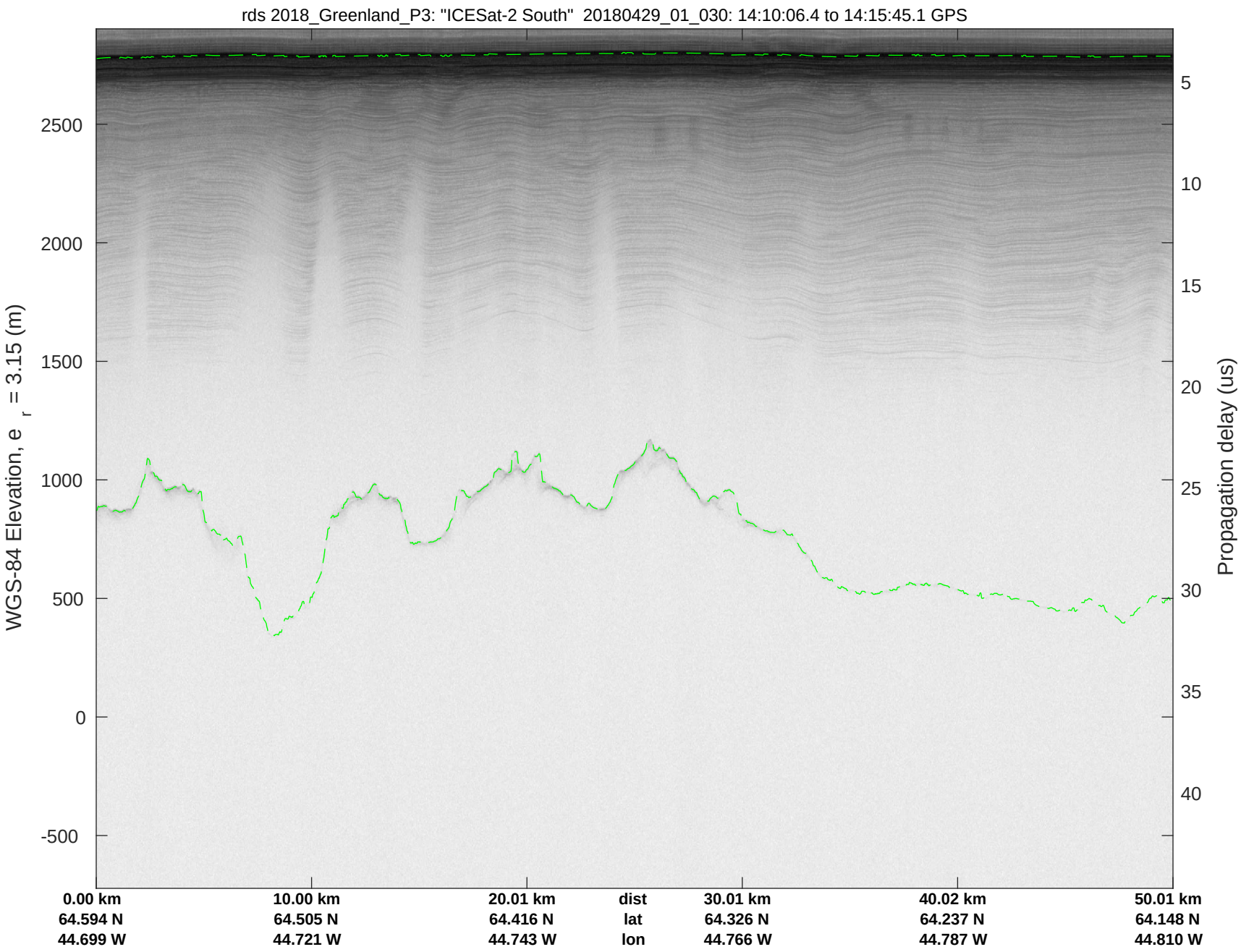

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_028: 13:57:34.9 to 14:03:52.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
65.485 N
44.465 W
10.00 km
65.396 N
44.492 W
20.01 km
65.307 N
44.514 W
dist
lat
lon
30.01 km
65.218 N
44.538 W
40.02 km
65.129 N
44.561 W
50.01 km
65.040 N
44.584 W

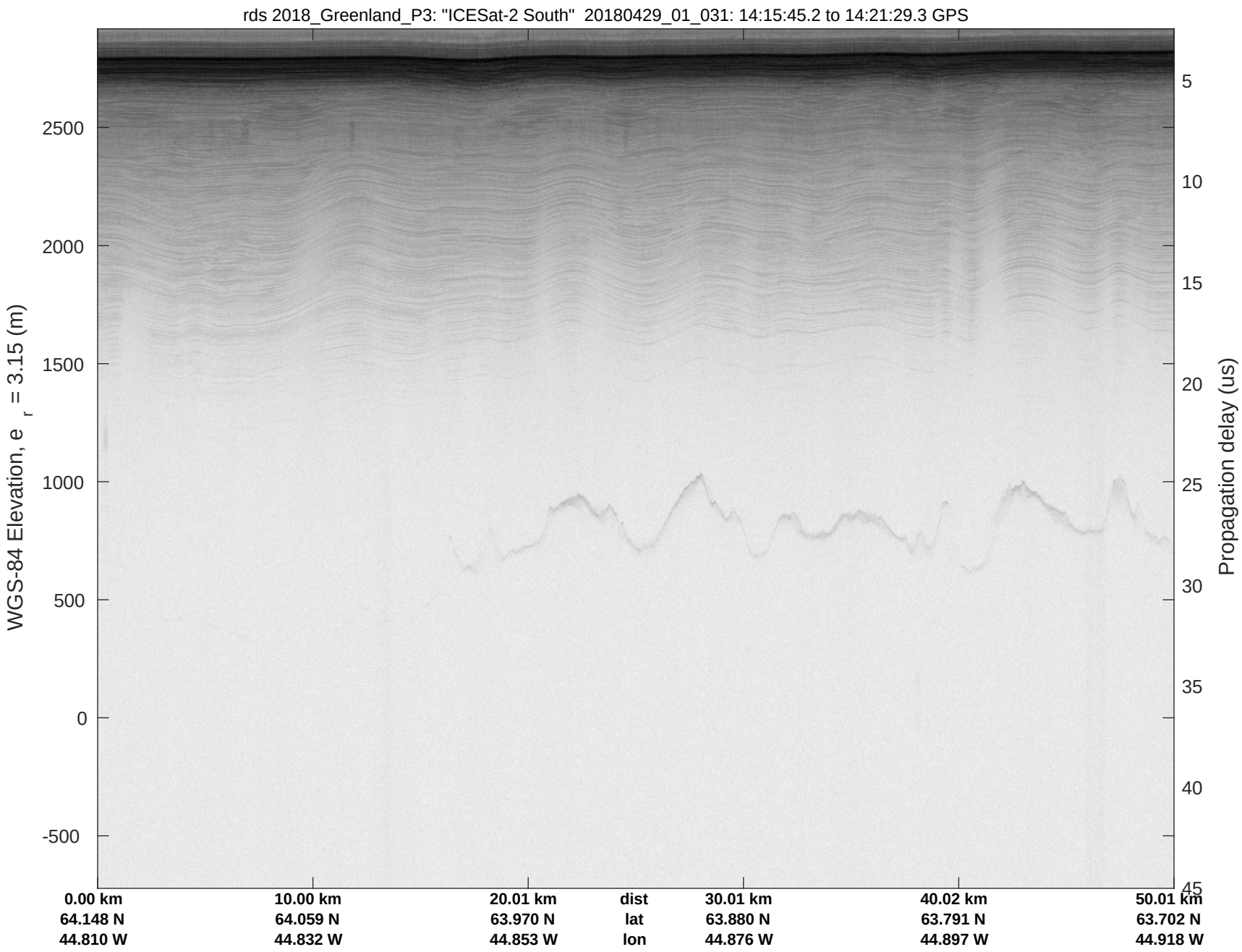

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_028: 13:57:34.9 to 14:03:52.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
65.485 N
44.465 W
10.00 km
65.396 N
44.492 W
20.01 km
65.307 N
44.514 W
dist
lat
lon
30.01 km
65.218 N
44.538 W
40.02 km
65.129 N
44.561 W
50.01 km
65.040 N
44.584 W

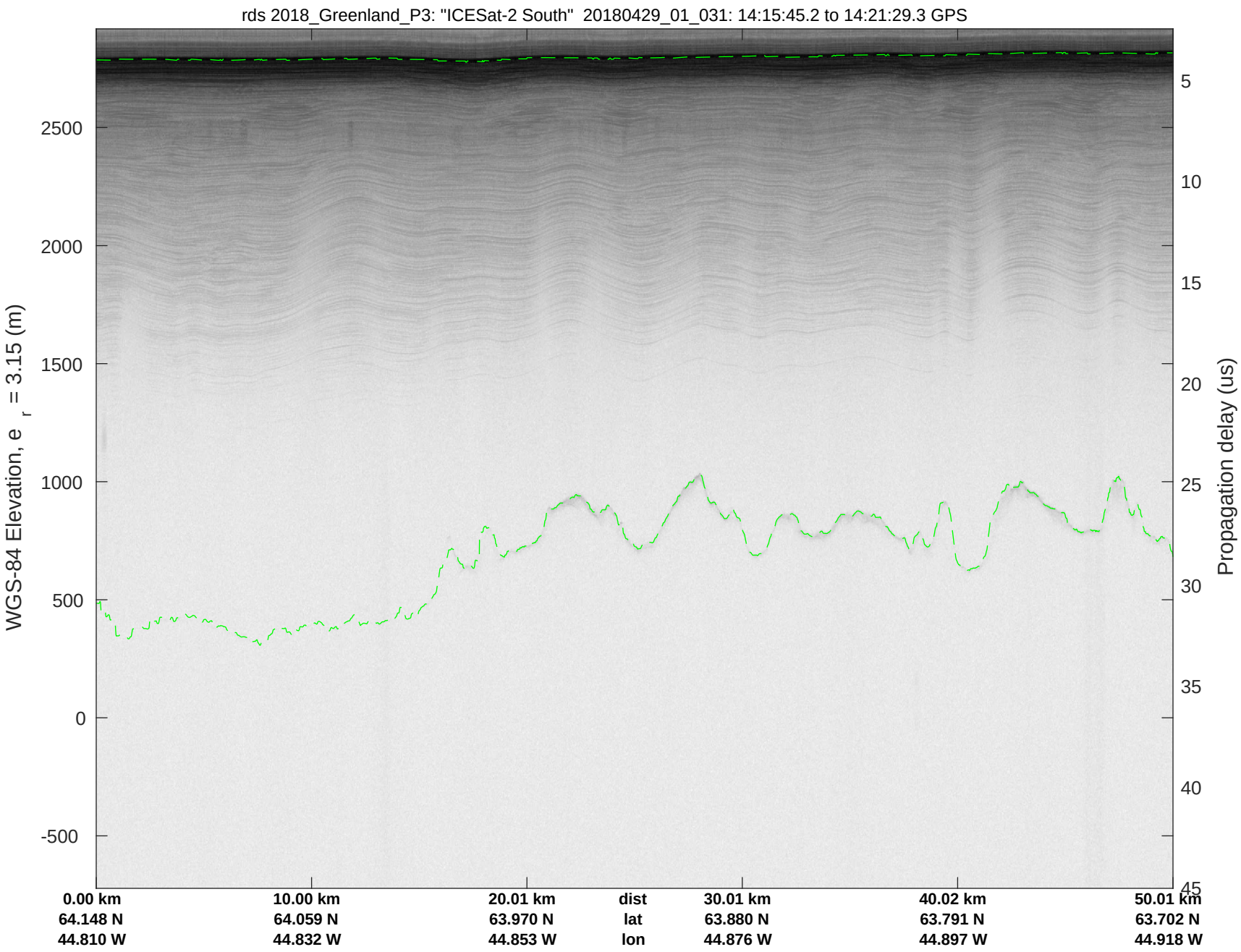

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_029: 14:03:52.7 to 14:10:06.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
65.040 N
44.584 W
10.00 km
64.951 N
44.607 W
20.01 km
64.861 N
44.631 W
dist
lat
lon
30.01 km
64.772 N
44.653 W
40.02 km
64.683 N
44.675 W
50.01 km
64.594 N
44.699 W

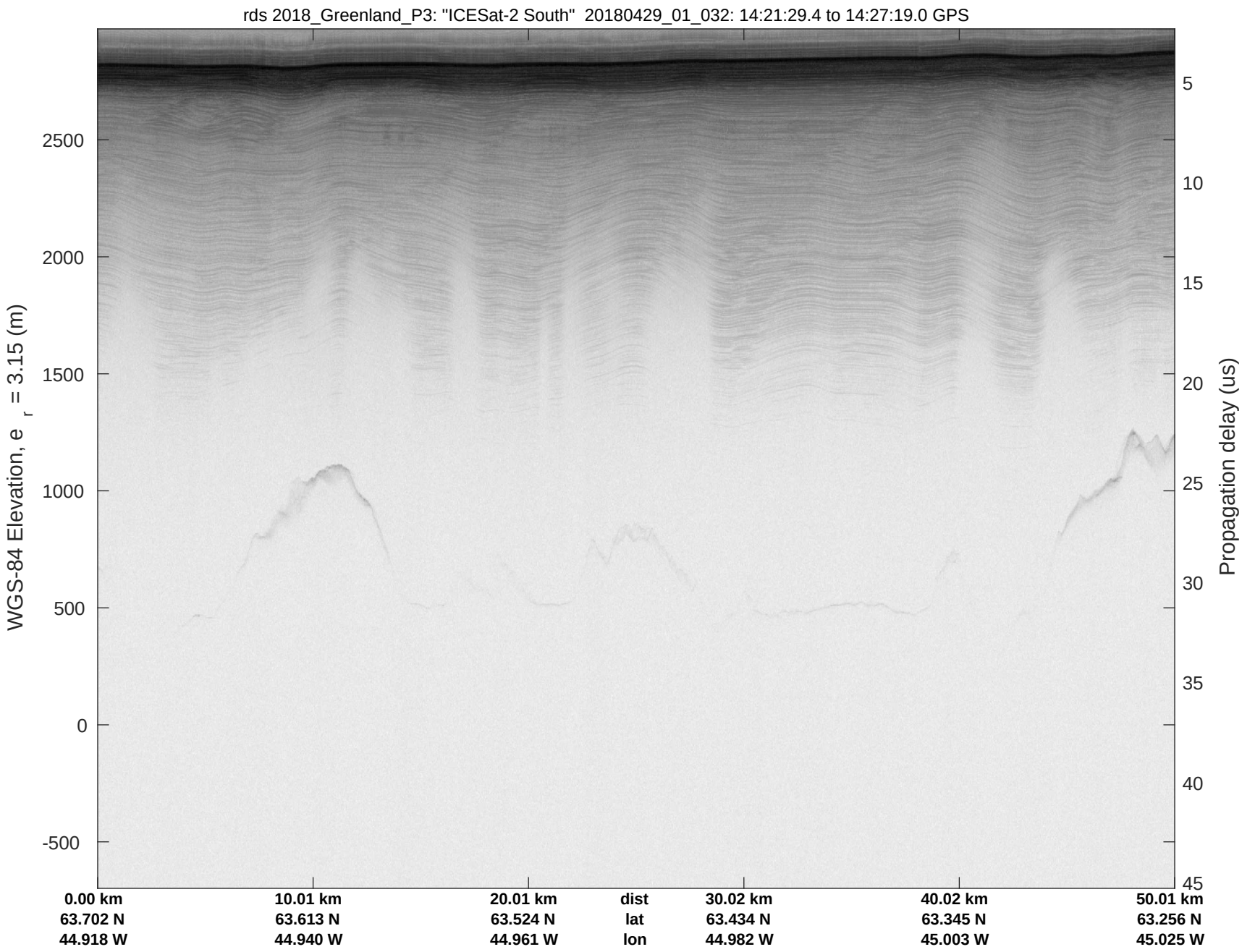

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_029: 14:03:52.7 to 14:10:06.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
65.040 N
44.584 W
10.00 km
64.951 N
44.607 W
20.01 km
64.861 N
44.631 W
dist
lat
lon
30.01 km
64.772 N
44.653 W
40.02 km
64.683 N
44.675 W
50.01 km
64.594 N
44.699 W

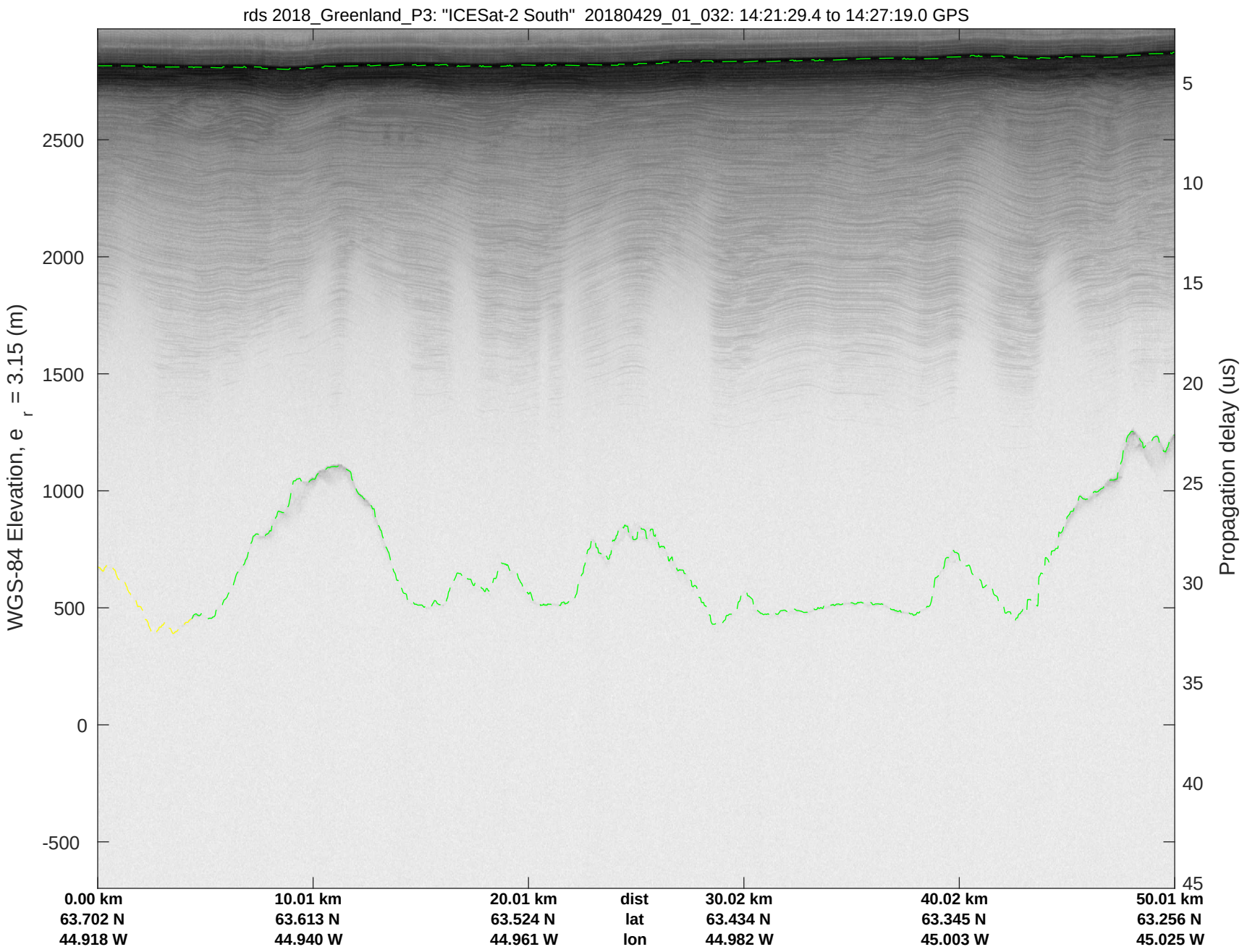

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_030: 14:10:06.4 to 14:15:45.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.594 N
44.699 W
10.00 km
64.505 N
44.721 W
20.01 km
64.416 N
44.743 W
dist
lat
lon
30.01 km
64.326 N
44.766 W
40.02 km
64.237 N
44.787 W
50.01 km
64.148 N
44.810 W

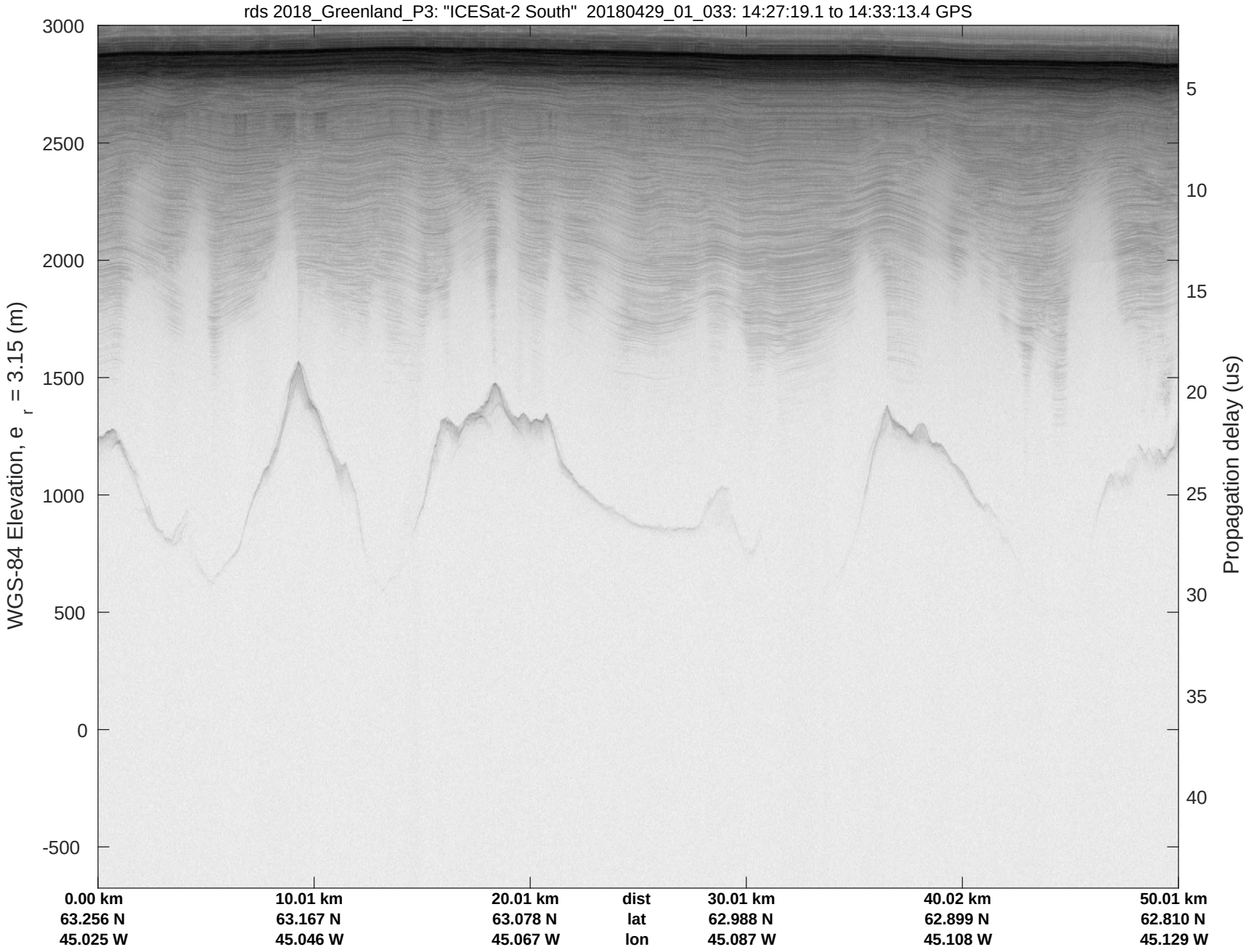

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_030: 14:10:06.4 to 14:15:45.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.594 N
44.699 W
10.00 km
64.505 N
44.721 W
20.01 km
64.416 N
44.743 W
dist
lat
lon
30.01 km
64.326 N
44.766 W
40.02 km
64.237 N
44.787 W
50.01 km
64.148 N
44.810 W

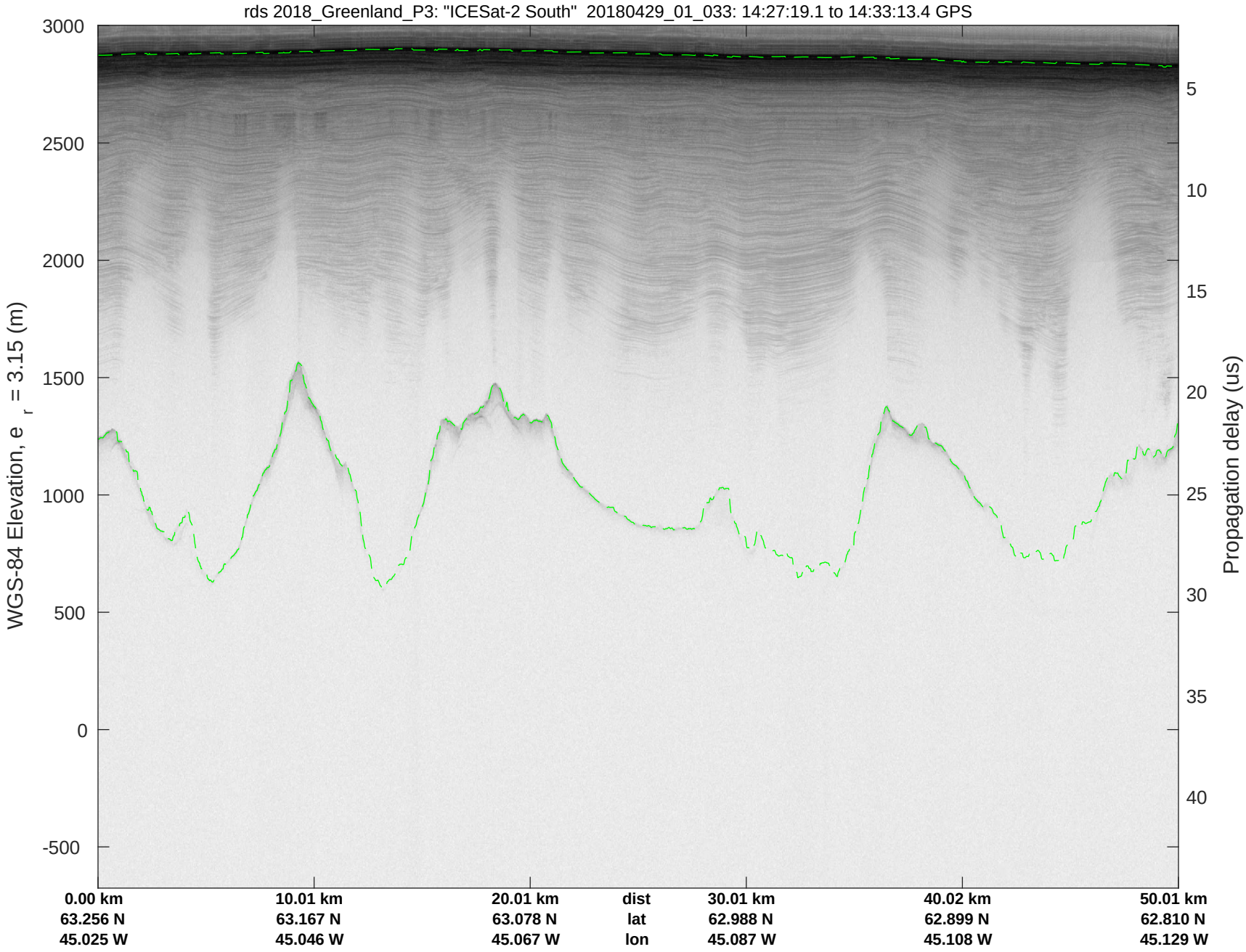

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_031: 14:15:45.2 to 14:21:29.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.148 N
44.810 W
10.00 km
64.059 N
44.832 W
20.01 km
63.970 N
44.853 W
dist
lat
lon
30.01 km
63.880 N
44.876 W
40.02 km
63.791 N
44.897 W
50.01 km
63.702 N
44.918 W

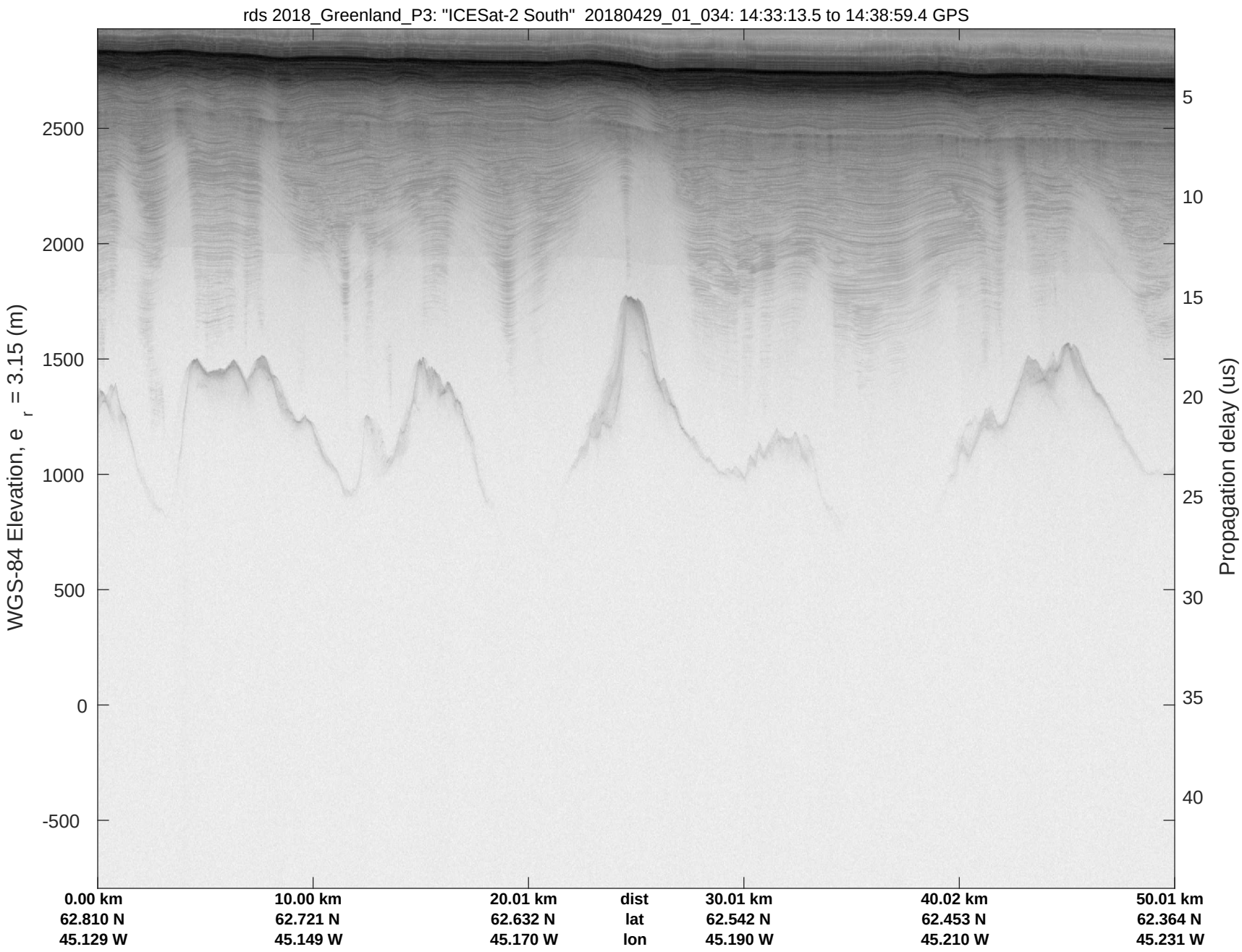

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_031: 14:15:45.2 to 14:21:29.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
45
0.00 km
64.148 N
44.810 W
10.00 km
64.059 N
44.832 W
20.01 km
63.970 N
44.853 W
dist
lat
lon
30.01 km
63.880 N
44.876 W
40.02 km
63.791 N
44.897 W
50.01 km
63.702 N
44.918 W

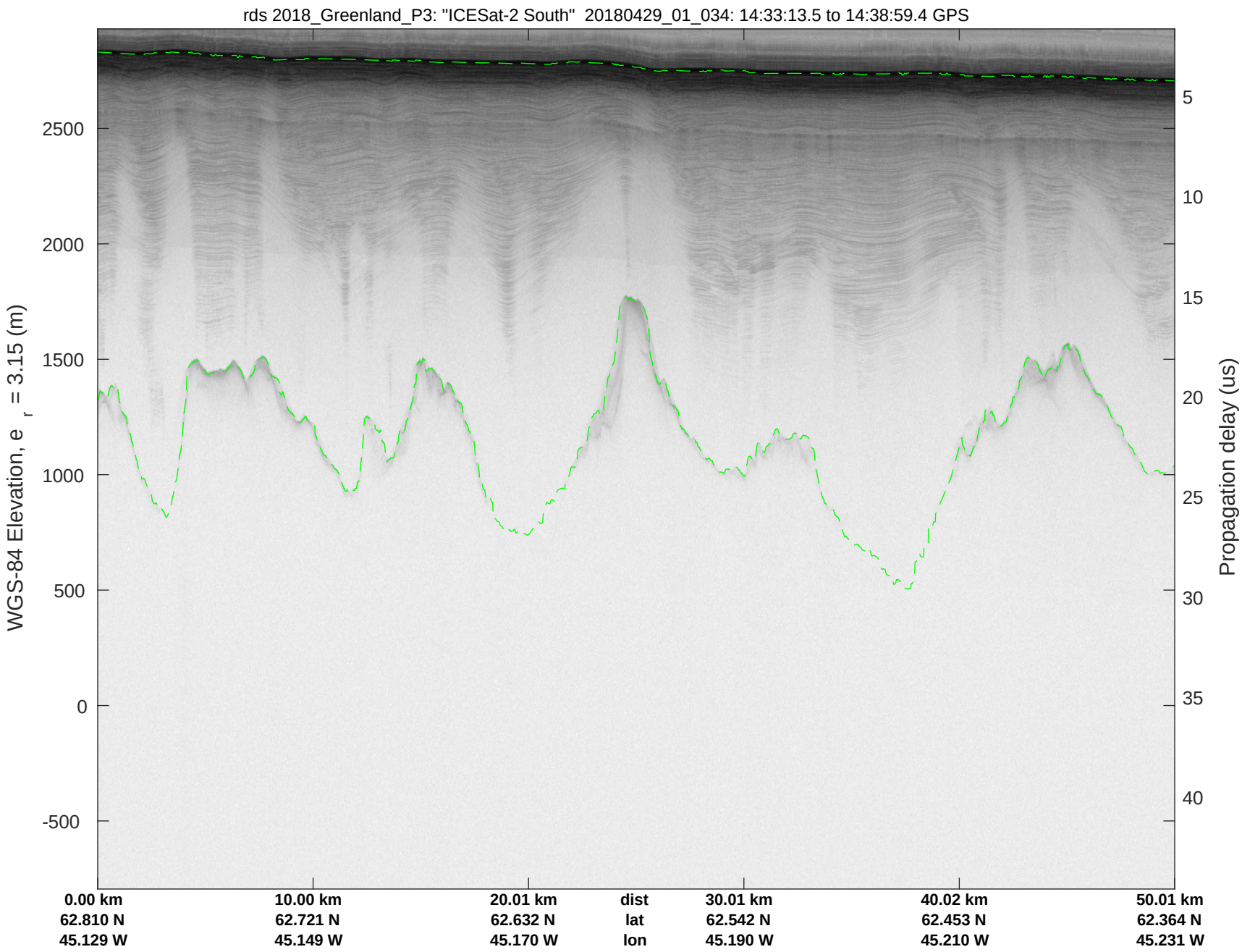

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_032: 14:21:29.4 to 14:27:19.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.702 N
44.918 W
10.01 km
63.613 N
44.940 W
20.01 km
63.524 N
44.961 W
dist
lat
lon
30.02 km
63.434 N
44.982 W
40.02 km
63.345 N
45.003 W
50.01 km
63.256 N
45.025 W

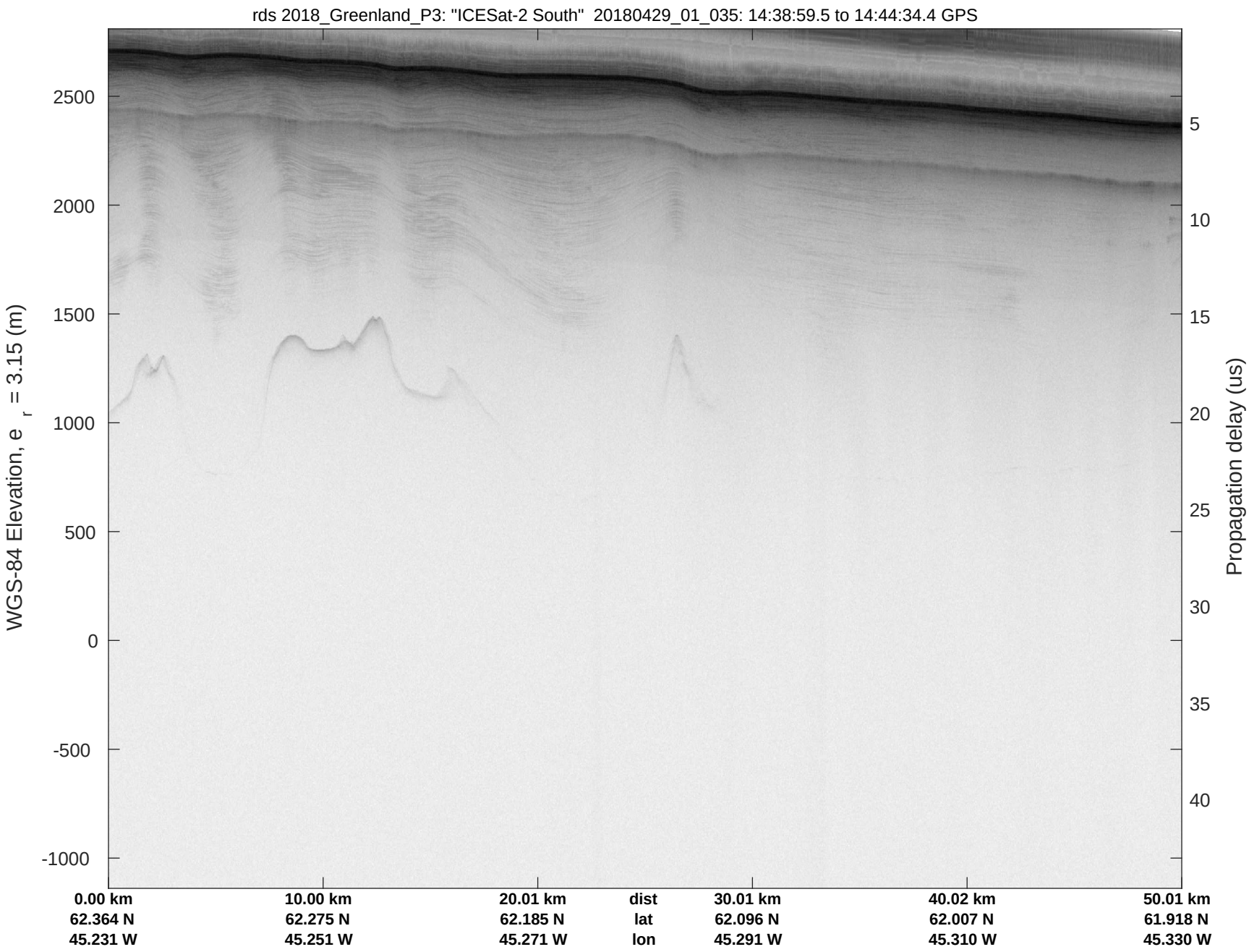

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_032: 14:21:29.4 to 14:27:19.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.702 N
44.918 W
10.01 km
63.613 N
44.940 W
20.01 km
63.524 N
44.961 W
dist
lat
lon
30.02 km
63.434 N
44.982 W
40.02 km
63.345 N
45.003 W
50.01 km
63.256 N
45.025 W

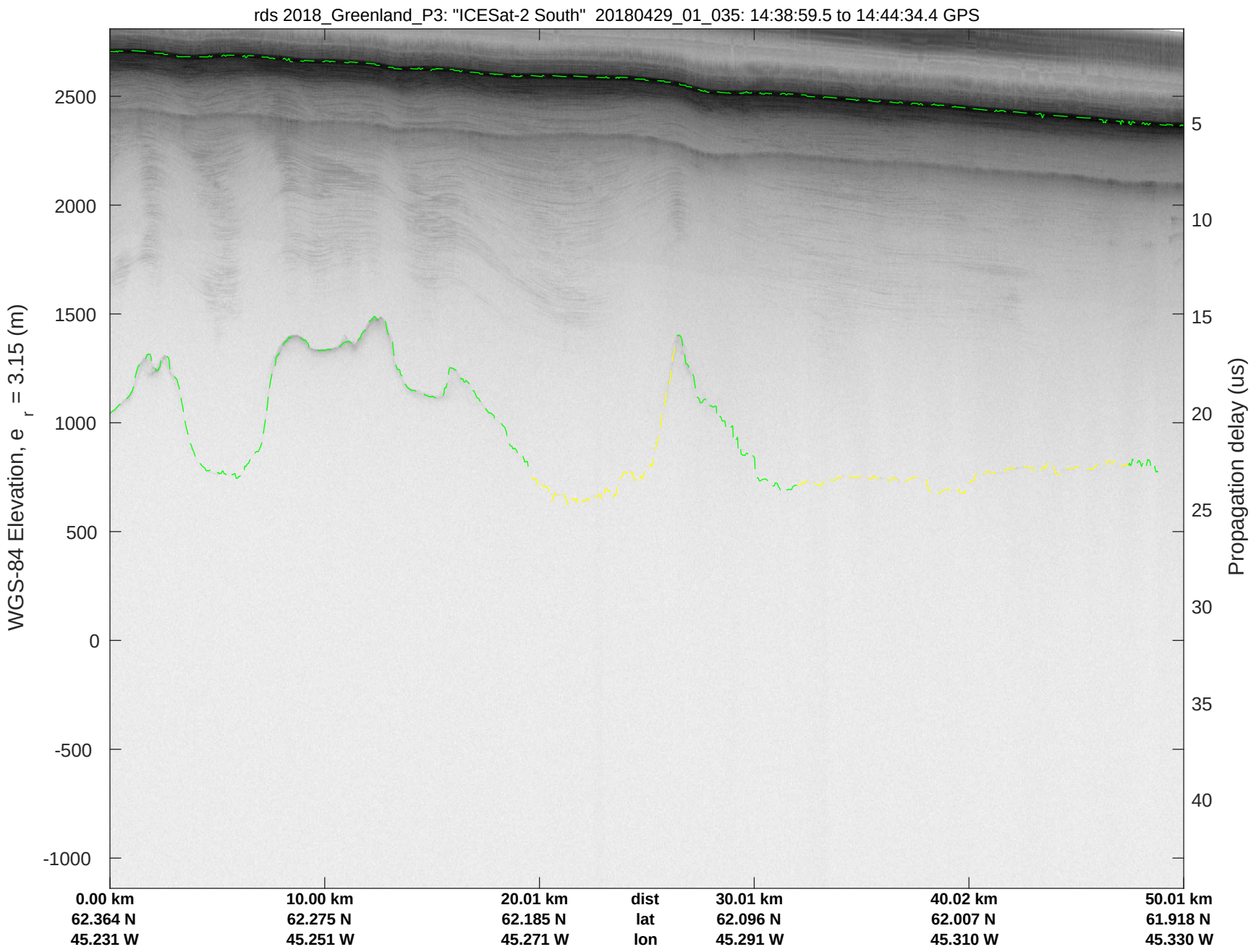

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_033: 14:27:19.1 to 14:33:13.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
3000
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
0.00 km
63.256 N
45.025 W
10.01 km
63.167 N
45.046 W
20.01 km
63.078 N
45.067 W
dist
lat
lon
30.01 km
62.988 N
45.087 W
40.02 km
62.899 N
45.108 W
50.01 km
62.810 N
45.129 W

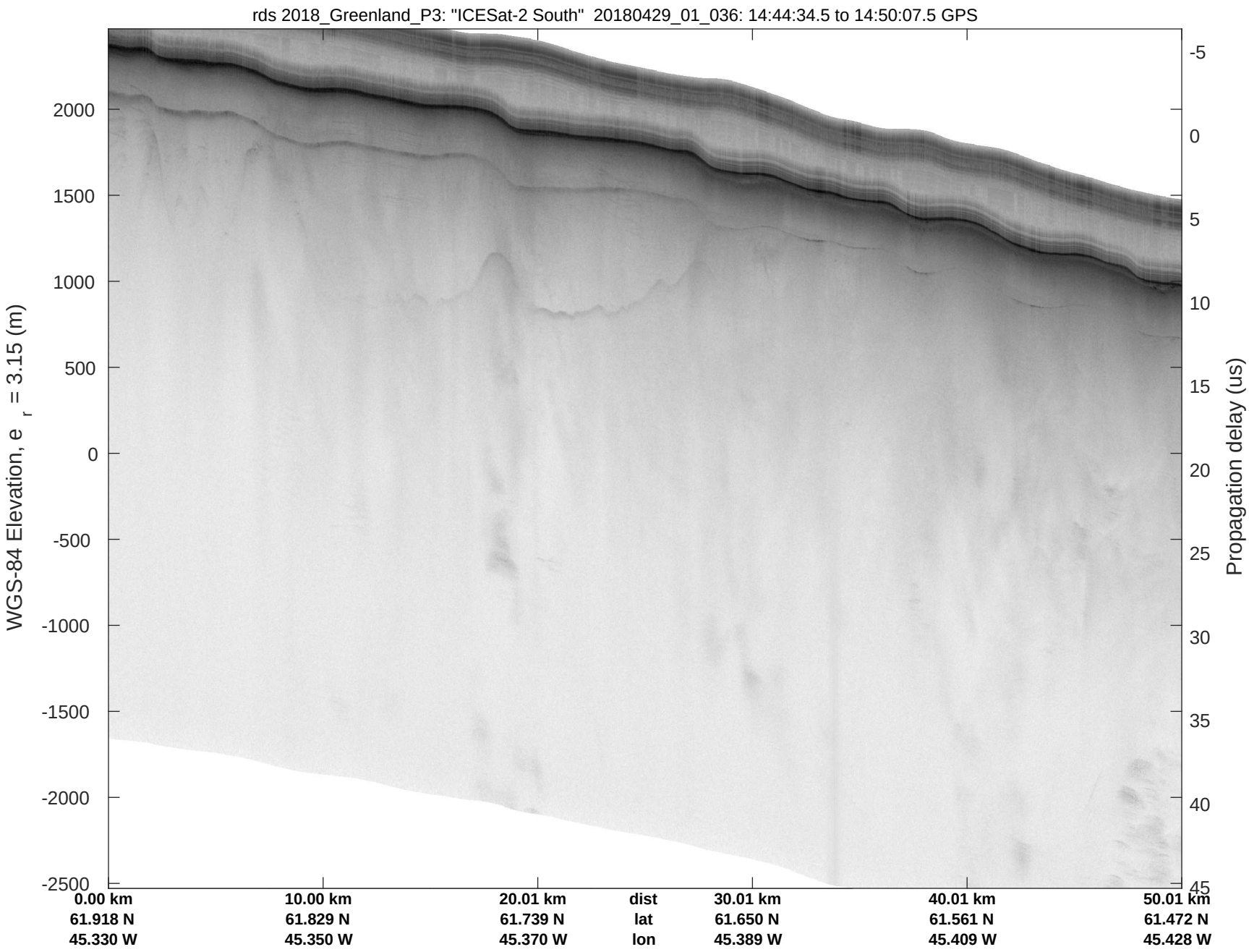

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_033: 14:27:19.1 to 14:33:13.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
3000
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
0.00 km
63.256 N
45.025 W
10.01 km
63.167 N
45.046 W
20.01 km
63.078 N
45.067 W
dist
lat
lon
30.01 km
62.988 N
45.087 W
40.02 km
62.899 N
45.108 W
50.01 km
62.810 N
45.129 W

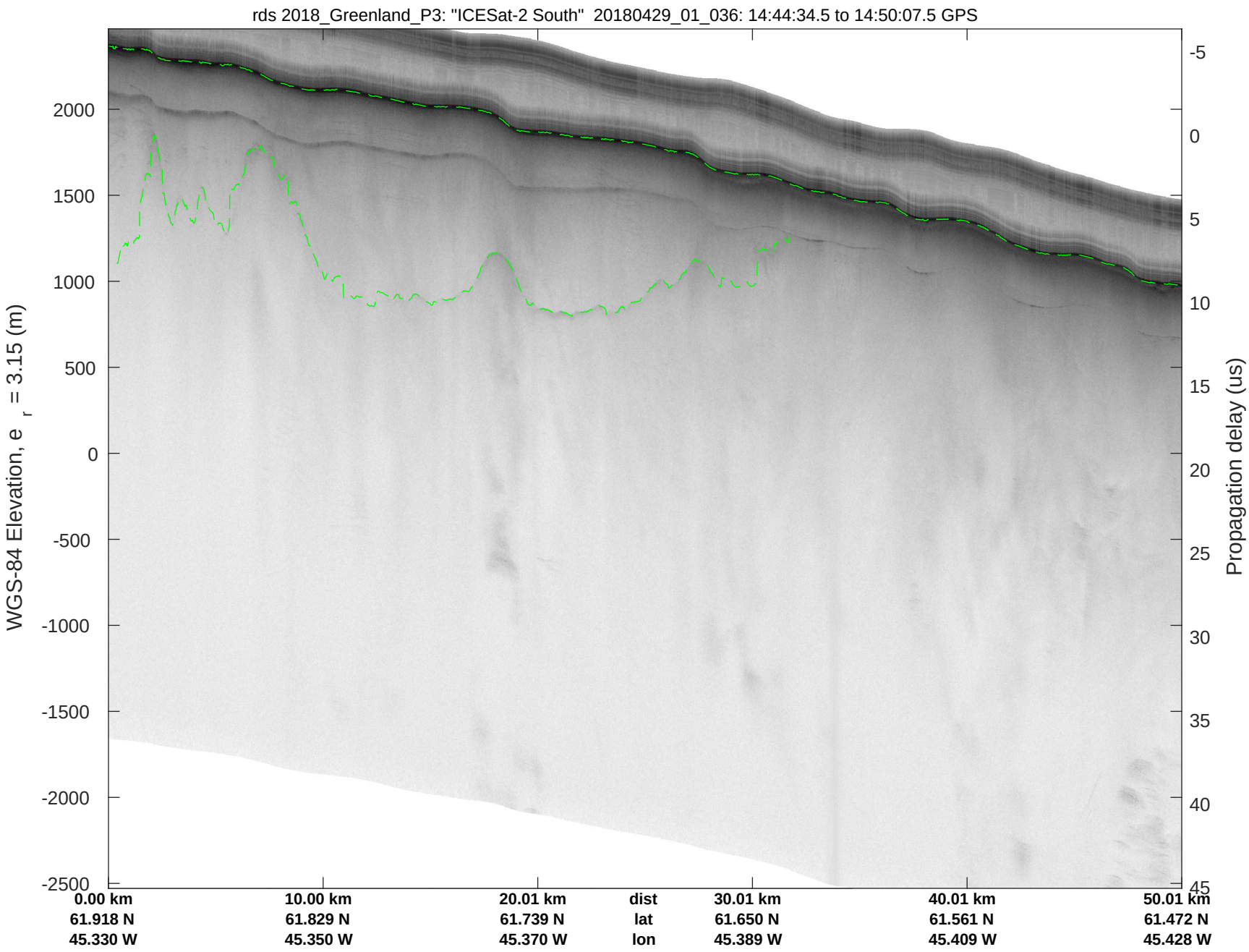

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_034: 14:33:13.5 to 14:38:59.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
62.810 N
45.129 W
10.00 km
62.721 N
45.149 W
20.01 km
62.632 N
45.170 W
dist
lat
lon
30.01 km
62.542 N
45.190 W
40.02 km
62.453 N
45.210 W
50.01 km
62.364 N
45.231 W

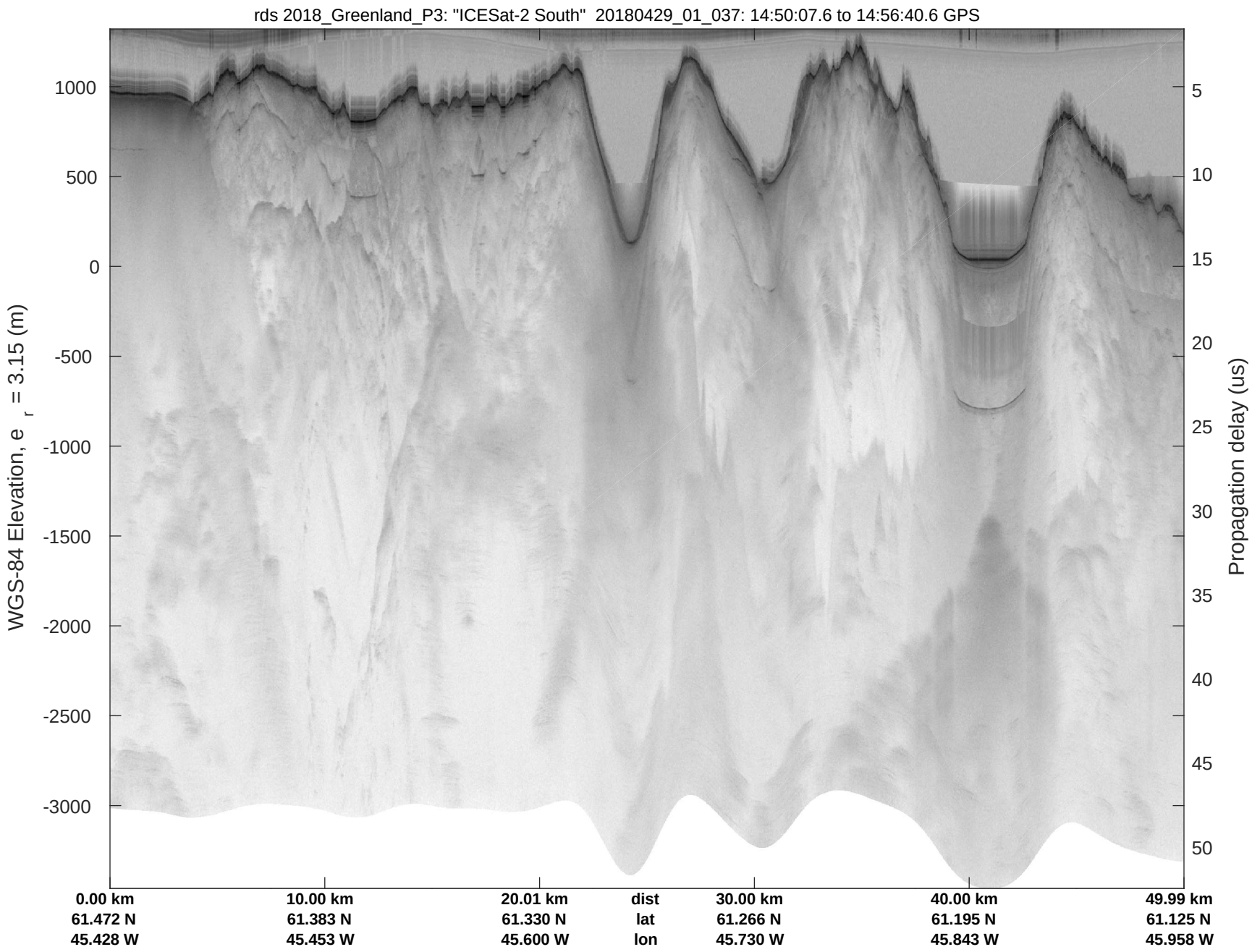

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_034: 14:33:13.5 to 14:38:59.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
62.810 N
45.129 W
10.00 km
62.721 N
45.149 W
20.01 km
62.632 N
45.170 W
dist
lat
lon
30.01 km
62.542 N
45.190 W
40.02 km
62.453 N
45.210 W
50.01 km
62.364 N
45.231 W

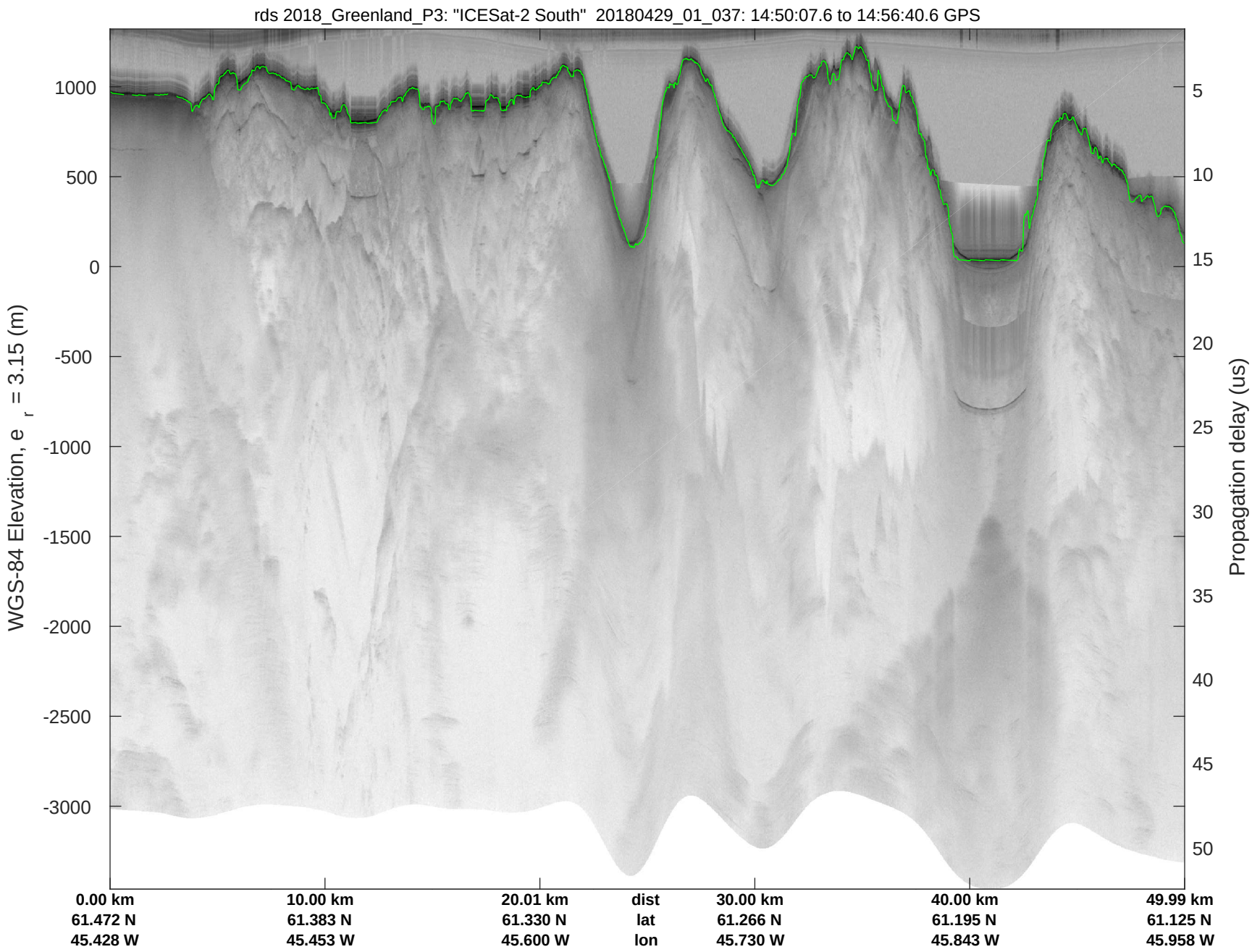

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_035: 14:38:59.5 to 14:44:34.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
62.364 N
45.231 W
10.00 km
62.275 N
45.251 W
20.01 km
62.185 N
45.271 W
dist
lat
lon
30.01 km
62.096 N
45.291 W
40.02 km
62.007 N
45.310 W
50.01 km
61.918 N
45.330 W

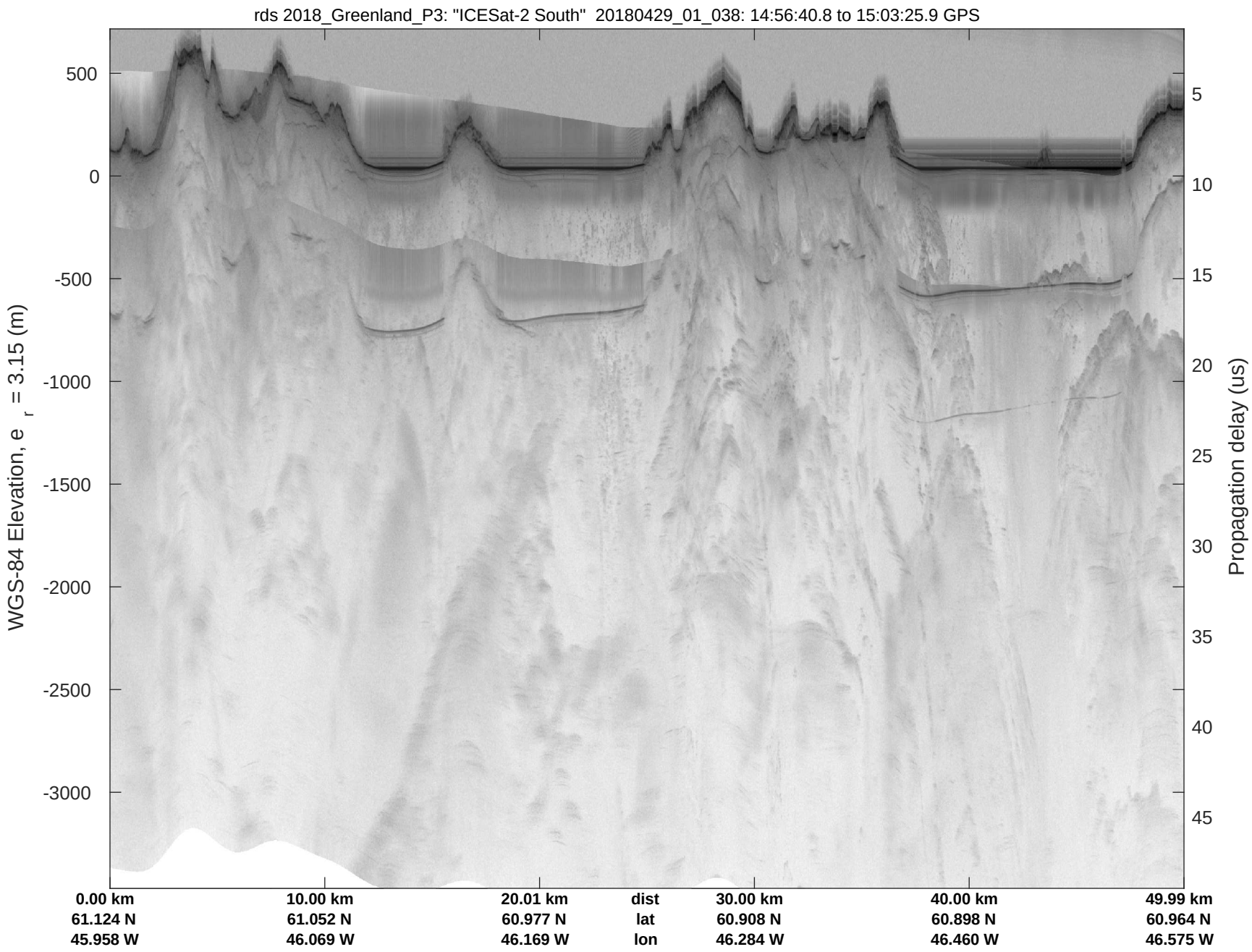

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_035: 14:38:59.5 to 14:44:34.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
62.364 N
45.231 W
10.00 km
62.275 N
45.251 W
20.01 km
62.185 N
45.271 W
dist
lat
lon
30.01 km
62.096 N
45.291 W
40.02 km
62.007 N
45.310 W
50.01 km
61.918 N
45.330 W

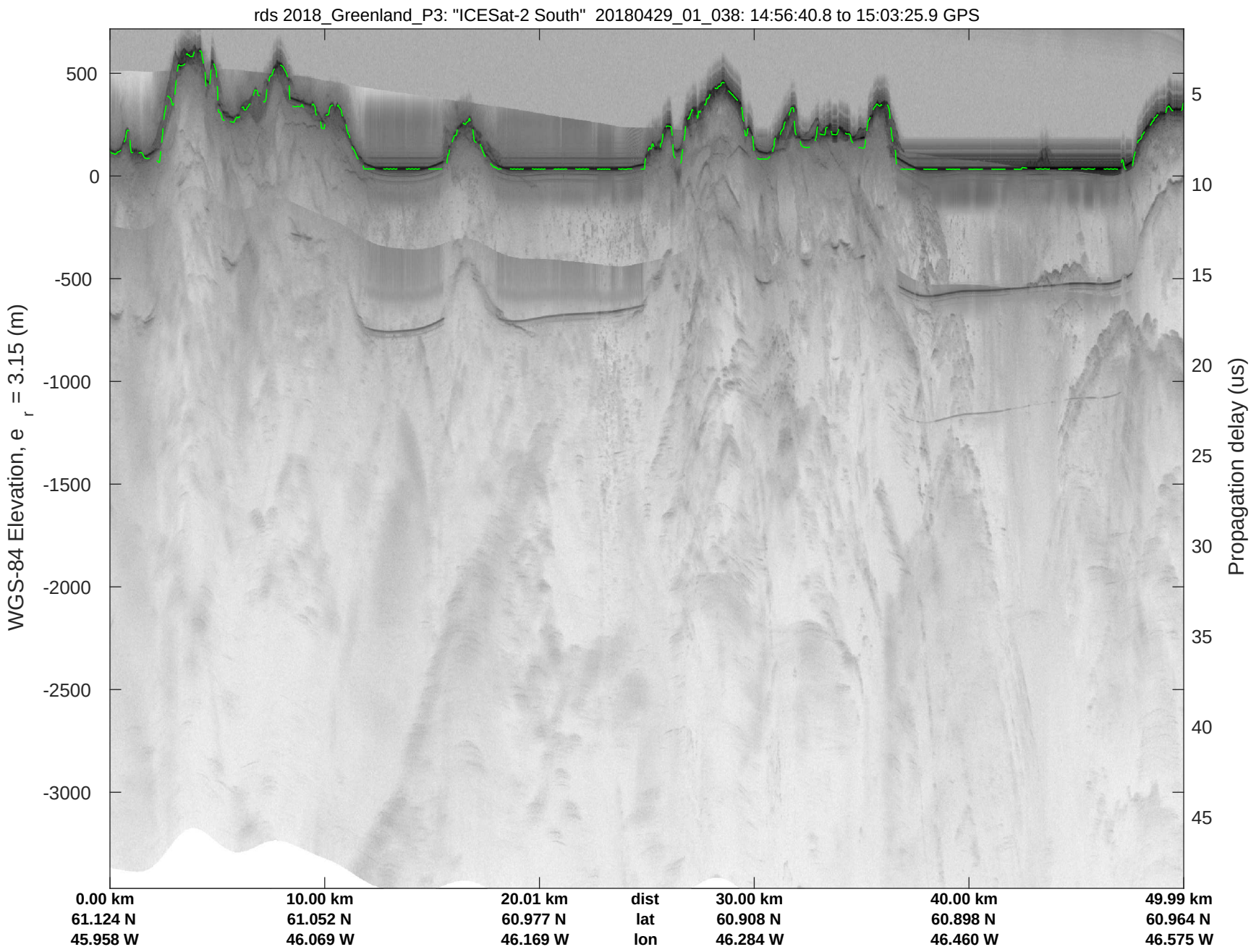

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_036: 14:44:34.5 to 14:50:07.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
-5
0
5
10
15
20
25
30
35
40
45
0.00 km
61.918 N
45.330 W
10.00 km
61.829 N
45.350 W
20.01 km
61.739 N
45.370 W
dist
lat
lon
30.01 km
61.650 N
45.389 W
40.01 km
61.561 N
45.409 W
50.01 km
61.472 N
45.428 W

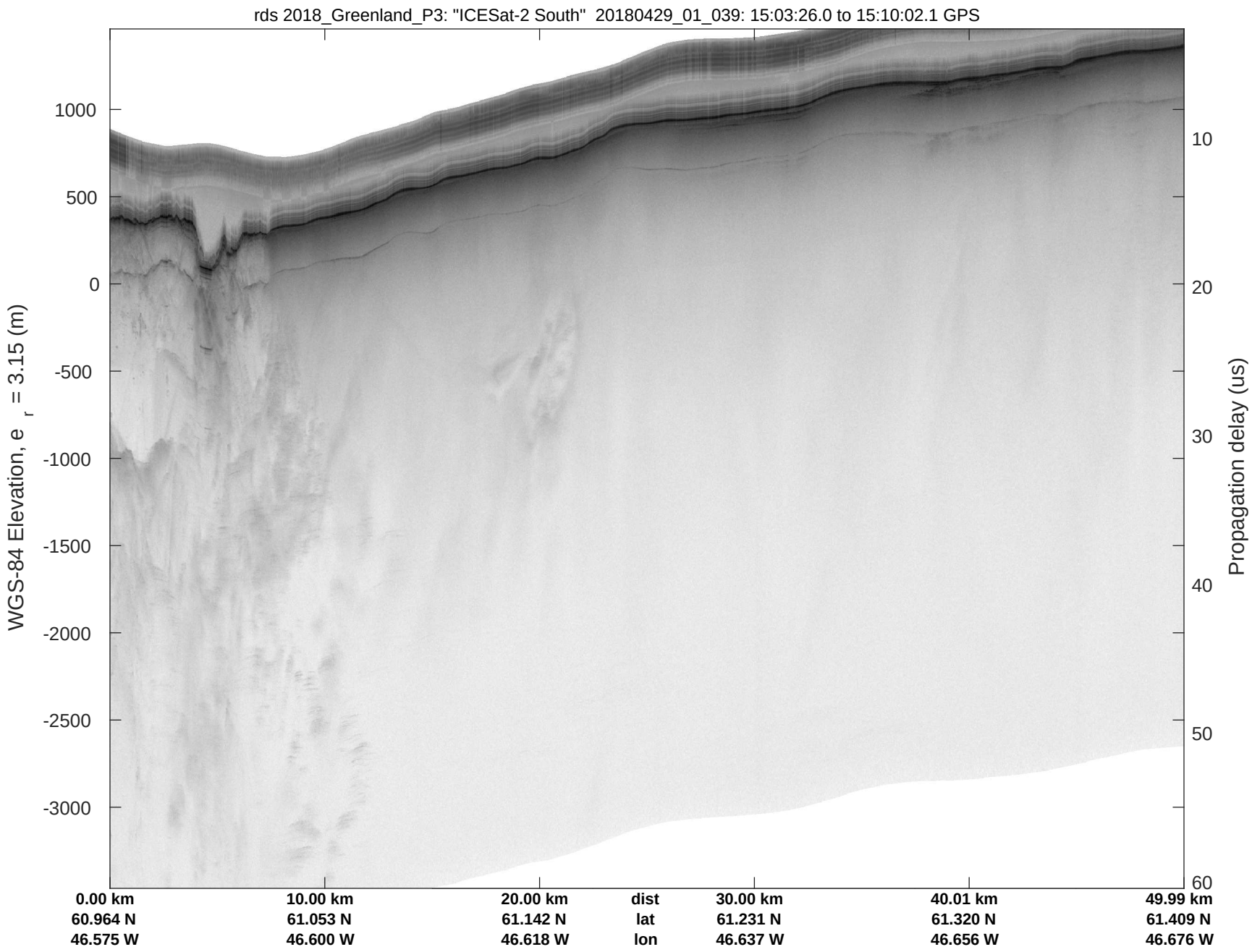

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_036: 14:44:34.5 to 14:50:07.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
-5
0
5
10
15
20
25
30
35
40
45
0.00 km
61.918 N
45.330 W
10.00 km
61.829 N
45.350 W
20.01 km
61.739 N
45.370 W
dist
lat
lon
30.01 km
61.650 N
45.389 W
40.01 km
61.561 N
45.409 W
50.01 km
61.472 N
45.428 W

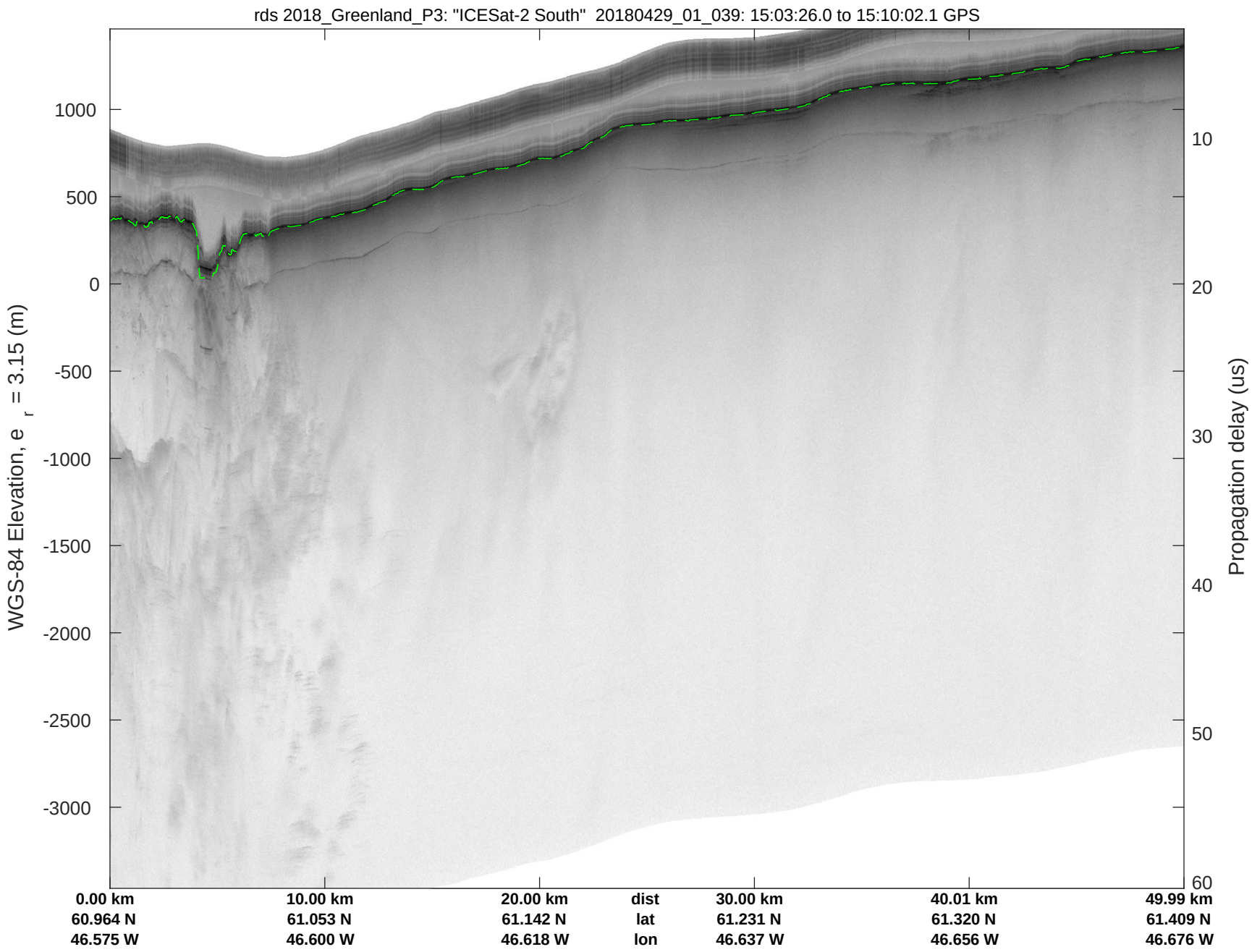

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_037: 14:50:07.6 to 14:56:40.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
1000
500
0
-500
-1000
-1500
-2000
-2500
-3000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
50
0.00 km
61.472 N
45.428 W
10.00 km
61.383 N
45.453 W
20.01 km
61.330 N
45.600 W
dist
lat
lon
30.00 km
61.266 N
45.730 W
40.00 km
61.195 N
45.843 W
49.99 km
61.125 N
45.958 W

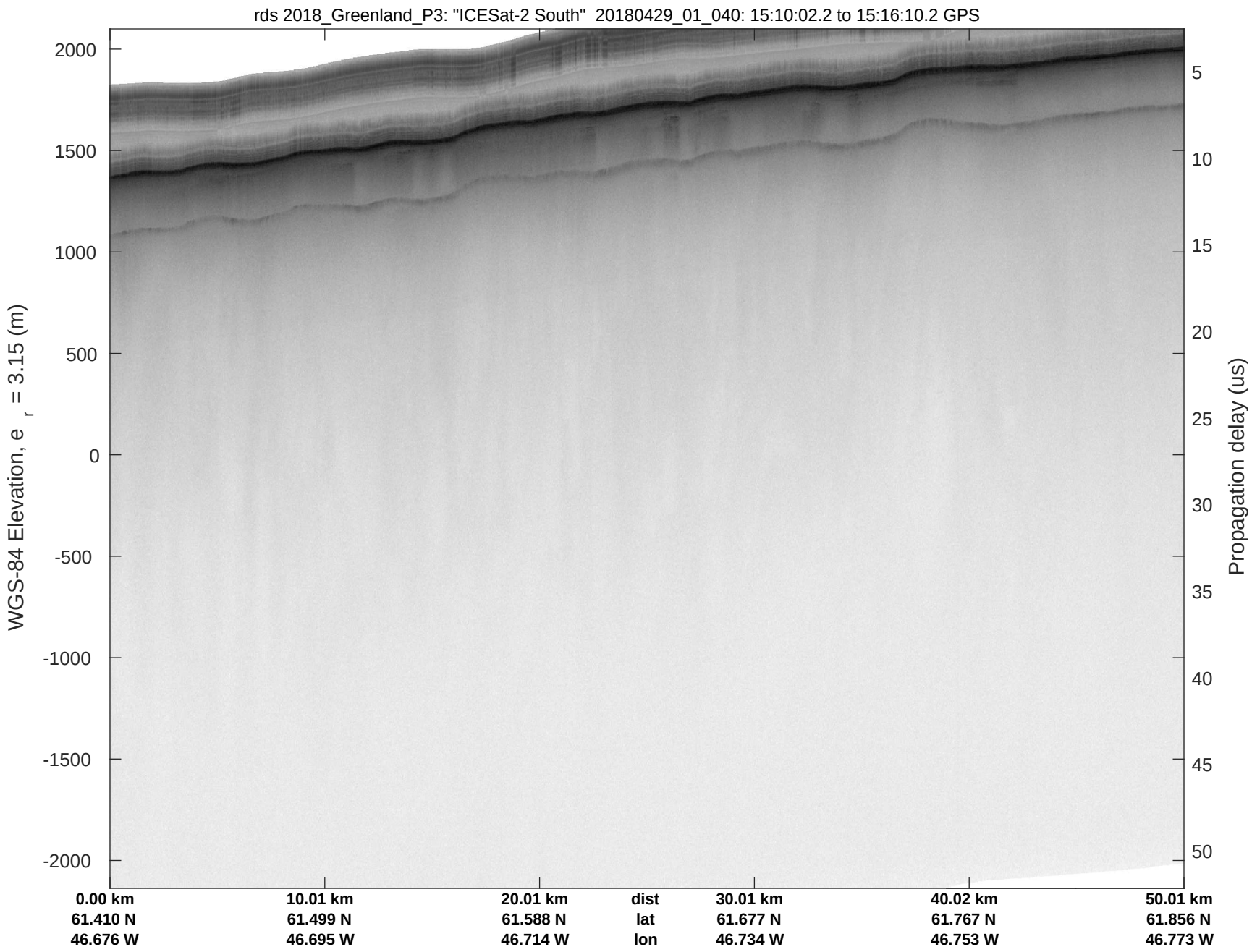

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_037: 14:50:07.6 to 14:56:40.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1000
500
0
-500
-1000
-1500
-2000
-2500
-3000
5
10
15
20
25
30
35
40
45
50
0.00 km
61.472 N
45.428 W
10.00 km
61.383 N
45.453 W
20.01 km
61.330 N
45.600 W
dist
lat
lon
30.00 km
61.266 N
45.730 W
40.00 km
61.195 N
45.843 W
49.99 km
61.125 N
45.958 W

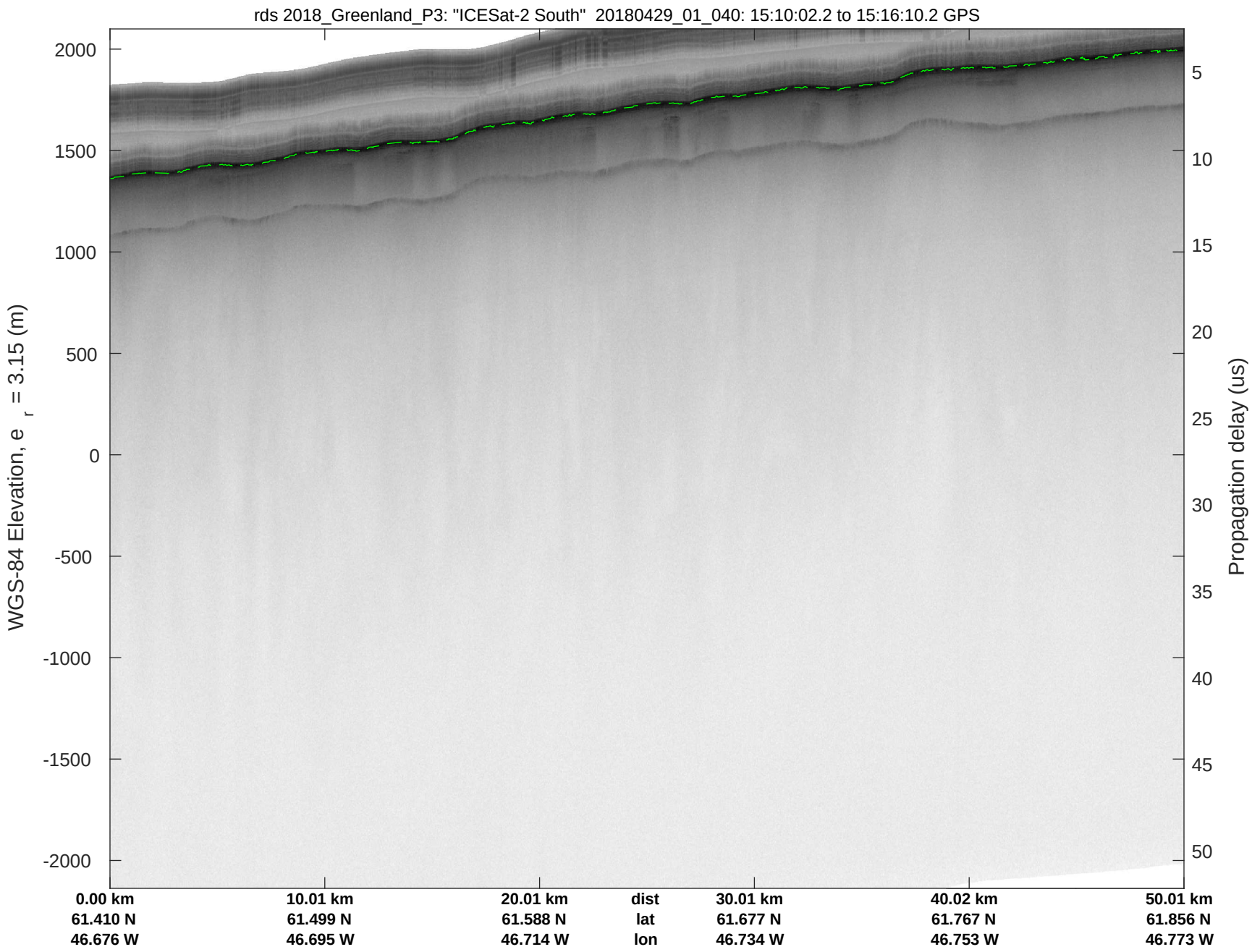

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_038: 14:56:40.8 to 15:03:25.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
500
0
-500
-1000
-1500
-2000
-2500
-3000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
61.124 N
45.958 W
10.00 km
61.052 N
46.069 W
20.01 km
60.977 N
46.169 W
dist
lat
lon
30.00 km
60.908 N
46.284 W
40.00 km
60.898 N
46.460 W
49.99 km
60.964 N
46.575 W

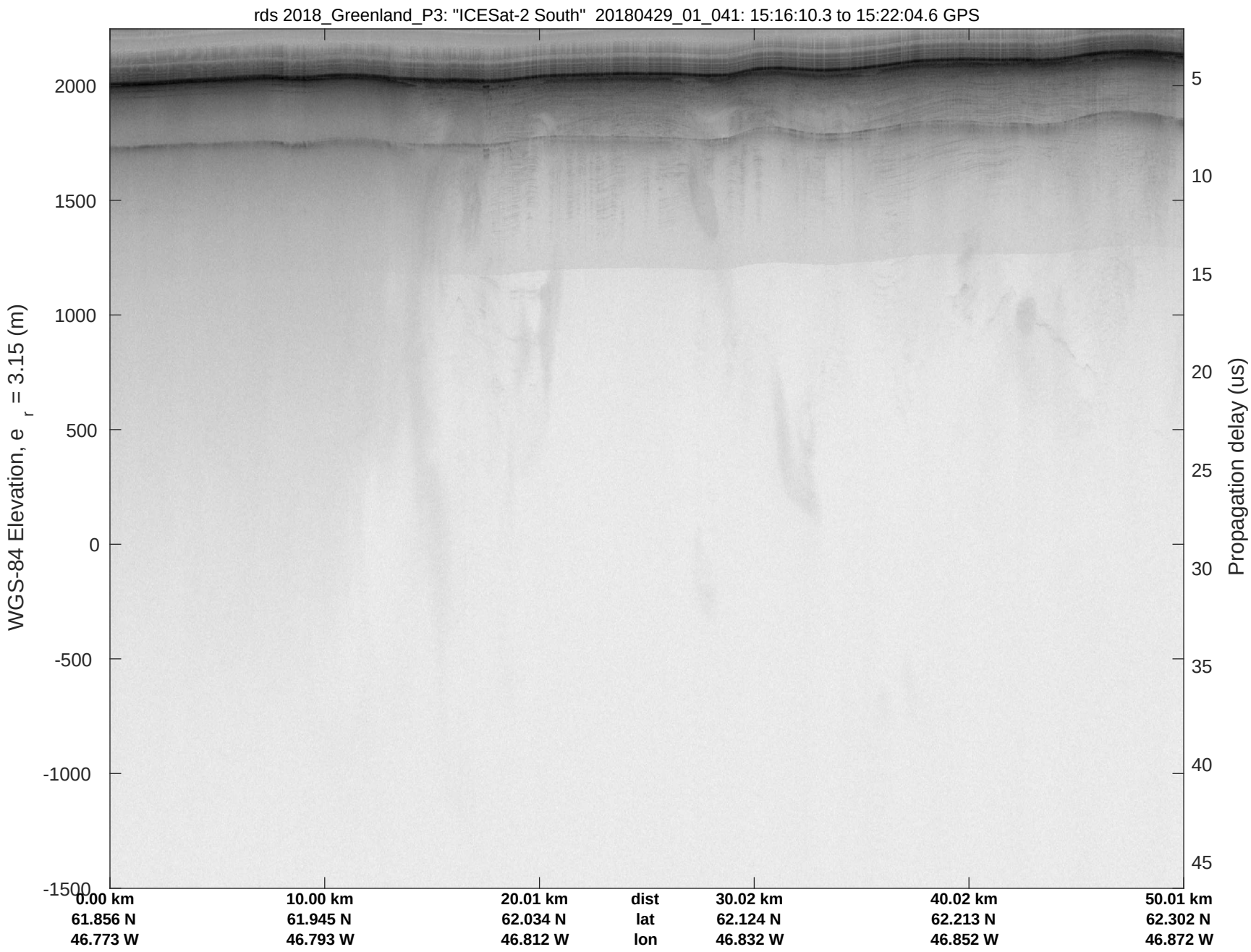

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_038: 14:56:40.8 to 15:03:25.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
500
0
-500
-1000
-1500
-2000
-2500
-3000
5
10
15
20
25
30
35
40
45
0.00 km
61.124 N
45.958 W
10.00 km
61.052 N
46.069 W
20.01 km
60.977 N
46.169 W
dist
lat
lon
30.00 km
60.908 N
46.284 W
40.00 km
60.898 N
46.460 W
49.99 km
60.964 N
46.575 W

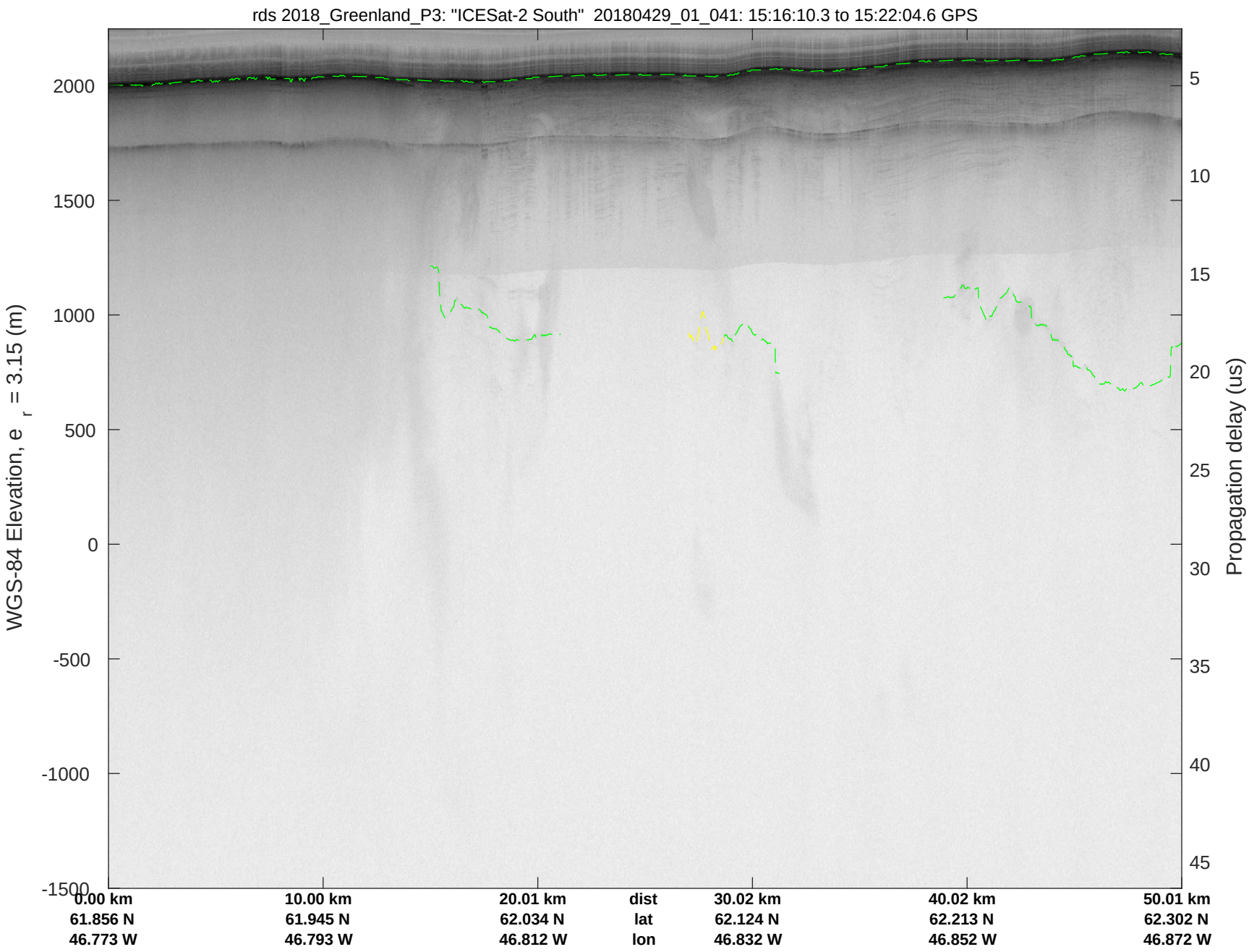

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_039: 15:03:26.0 to 15:10:02.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1000
500
0
-500
-1000
-1500
-2000
-2500
-3000
10
20
30
40
50
60
0.00 km
60.964 N
46.575 W
10.00 km
61.053 N
46.600 W
20.00 km
61.142 N
46.618 W
dist
lat
lon
30.00 km
61.231 N
46.637 W
40.01 km
61.320 N
46.656 W
49.99 km
61.409 N
46.676 W

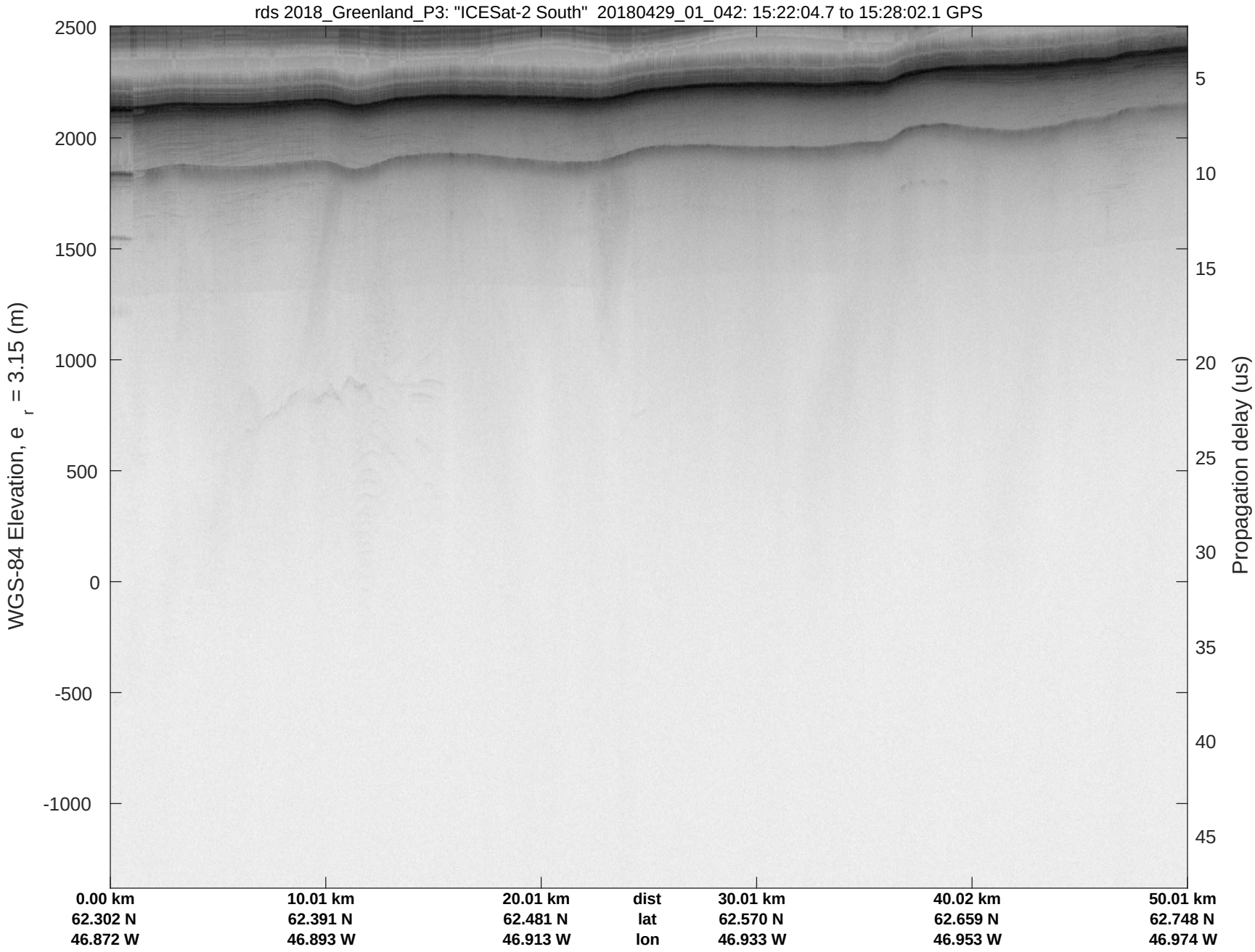

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_039: 15:03:26.0 to 15:10:02.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1000
500
0
-500
-1000
-1500
-2000
-2500
-3000
10
20
30
40
50
60
0.00 km
60.964 N
46.575 W
10.00 km
61.053 N
46.600 W
20.00 km
61.142 N
46.618 W
dist
lat
lon
30.00 km
61.231 N
46.637 W
40.01 km
61.320 N
46.656 W
49.99 km
61.409 N
46.676 W

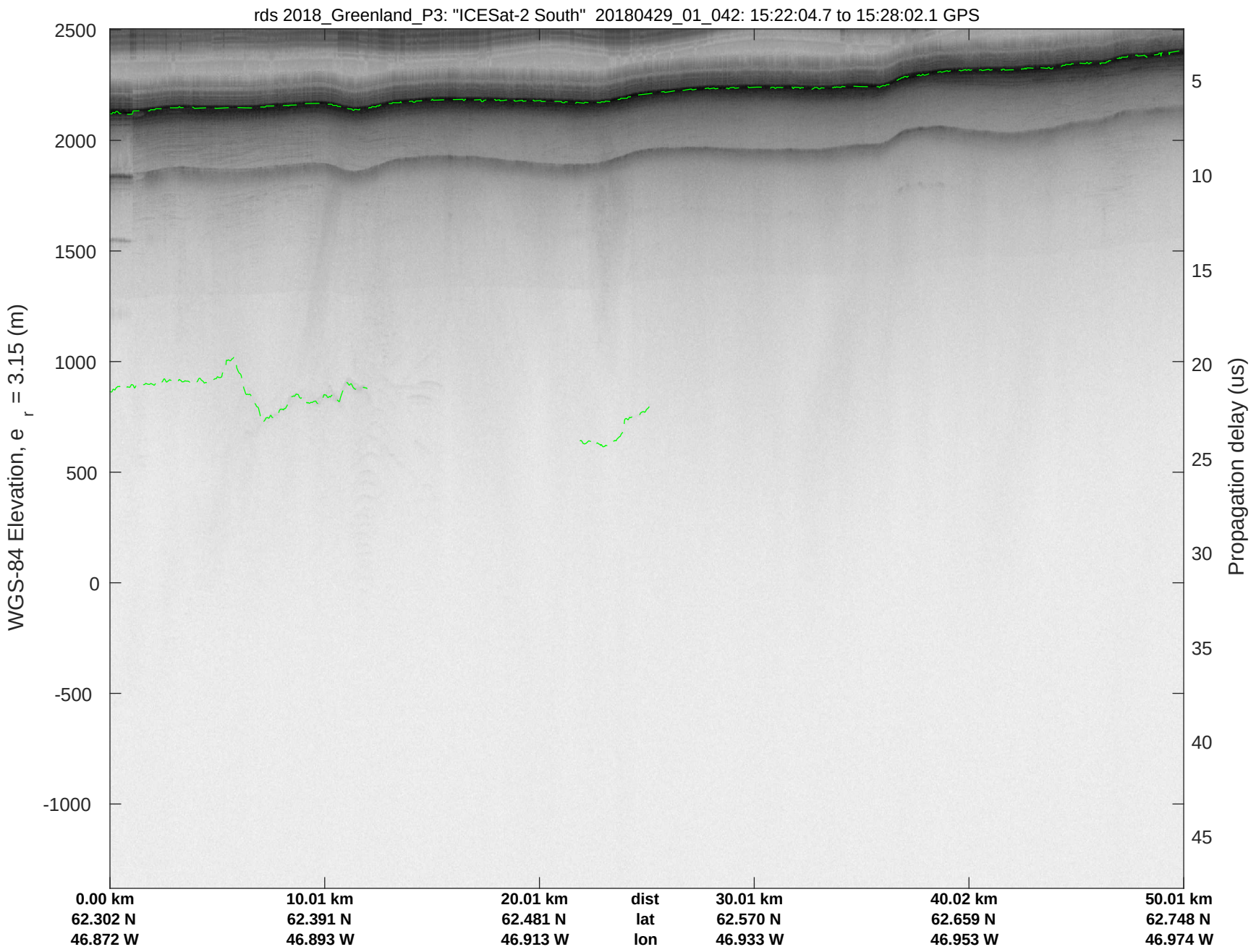

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_040: 15:10:02.2 to 15:16:10.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
50
0.00 km
61.410 N
46.676 W
10.01 km
61.499 N
46.695 W
20.01 km
61.588 N
46.714 W
dist
lat
lon
30.01 km
61.677 N
46.734 W
40.02 km
61.767 N
46.753 W
50.01 km
61.856 N
46.773 W

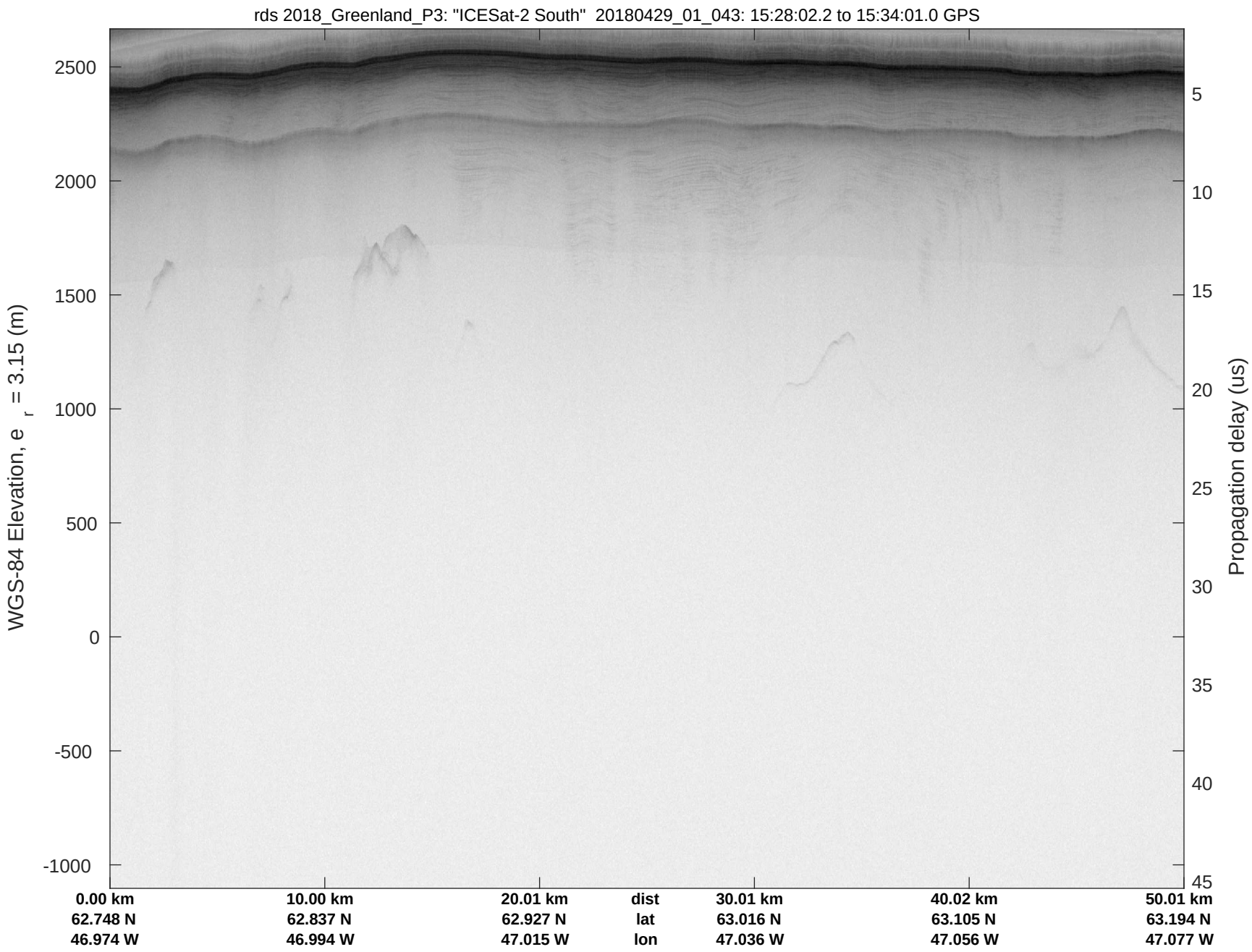

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_040: 15:10:02.2 to 15:16:10.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
45
50
0.00 km
61.410 N
46.676 W
10.01 km
61.499 N
46.695 W
20.01 km
61.588 N
46.714 W
dist
lat
lon
30.01 km
61.677 N
46.734 W
40.02 km
61.767 N
46.753 W
50.01 km
61.856 N
46.773 W

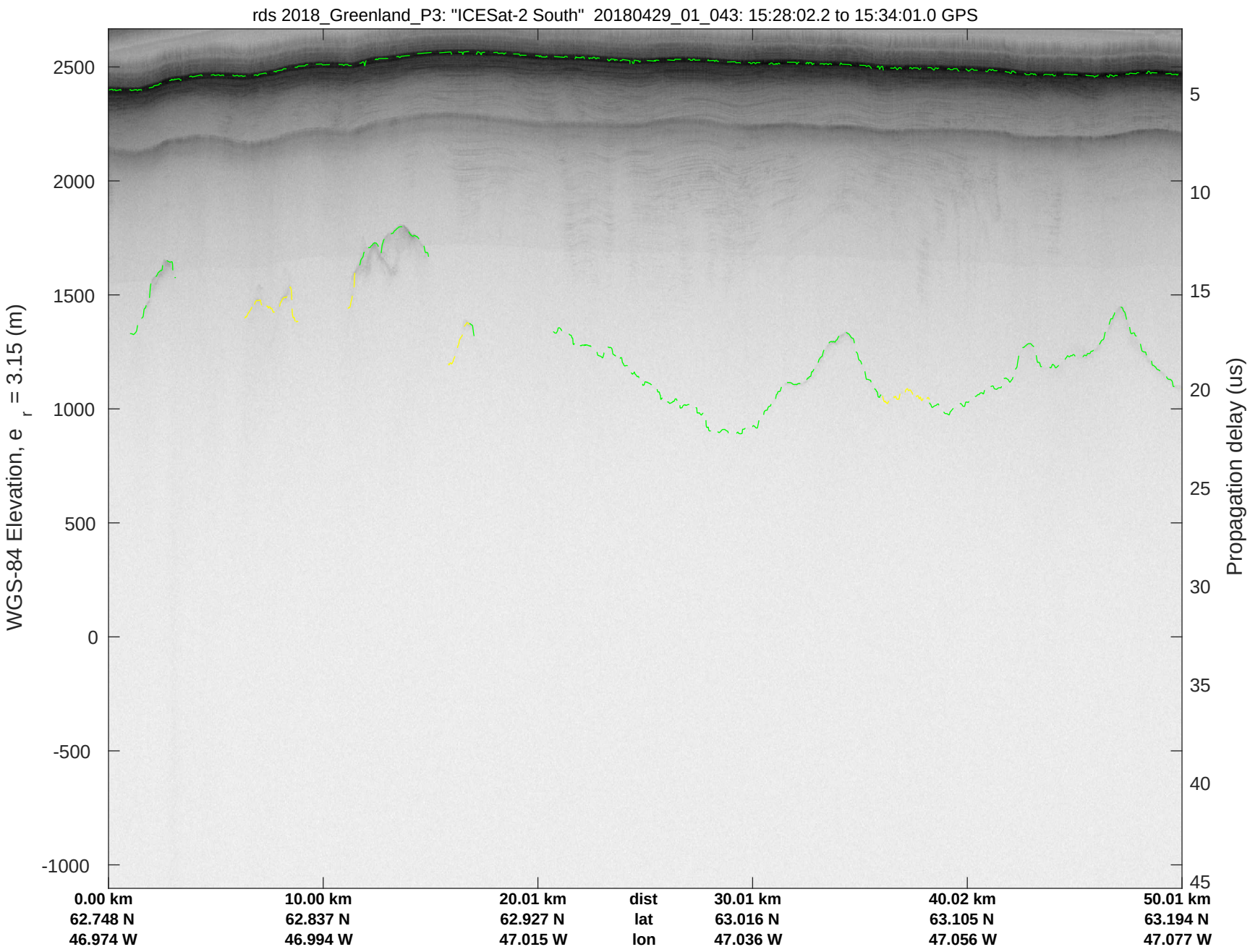

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_041: 15:16:10.3 to 15:22:04.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
61.856 N
46.773 W
10.00 km
61.945 N
46.793 W
20.01 km
62.034 N
46.812 W
dist
lat
lon
30.02 km
62.124 N
46.832 W
40.02 km
62.213 N
46.852 W
50.01 km
62.302 N
46.872 W

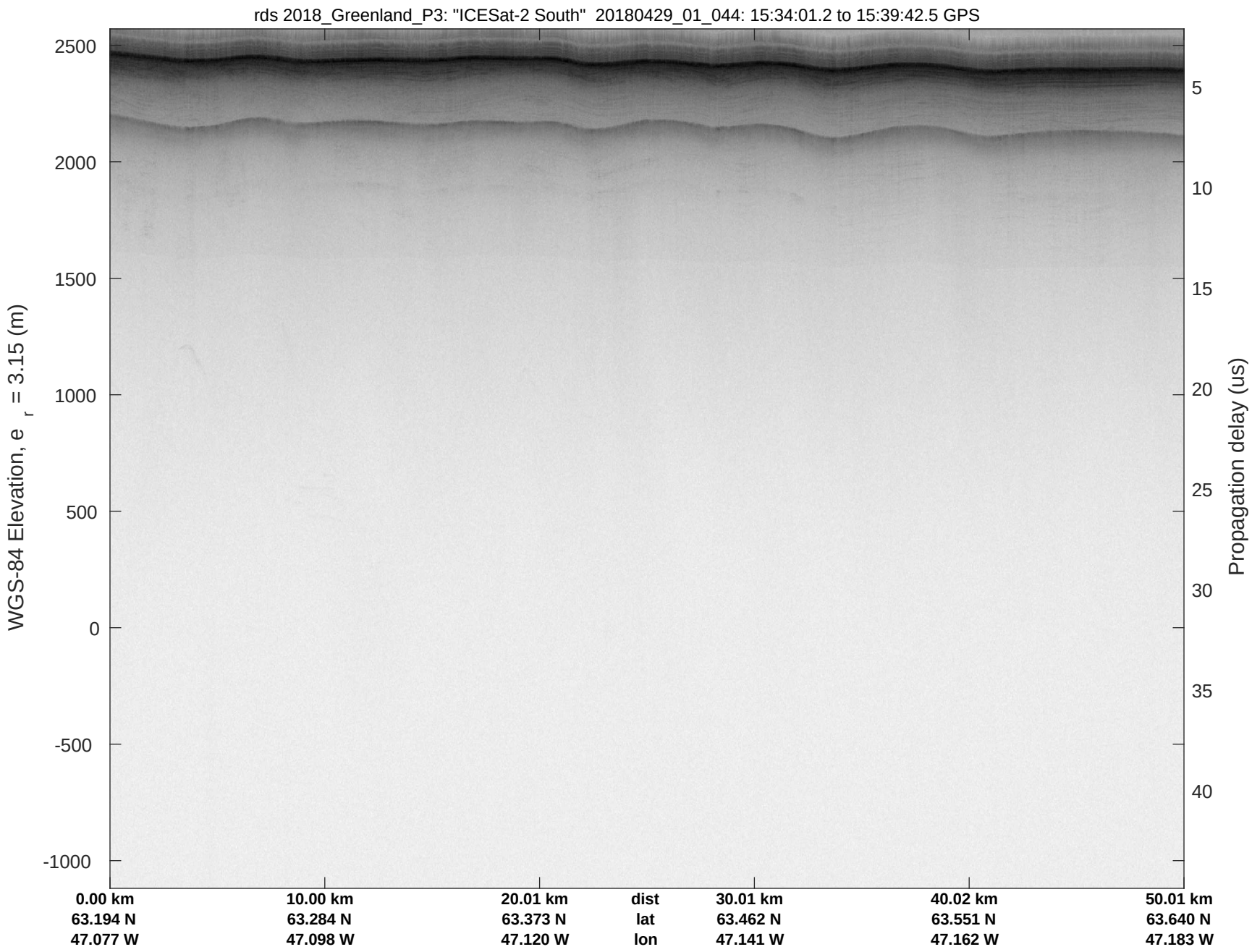

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_041: 15:16:10.3 to 15:22:04.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
-1500
5
10
15
20
25
30
35
40
45
0.00 km
61.856 N
46.773 W
10.00 km
61.945 N
46.793 W
20.01 km
62.034 N
46.812 W
dist
lat
lon
30.02 km
62.124 N
46.832 W
40.02 km
62.213 N
46.852 W
50.01 km
62.302 N
46.872 W

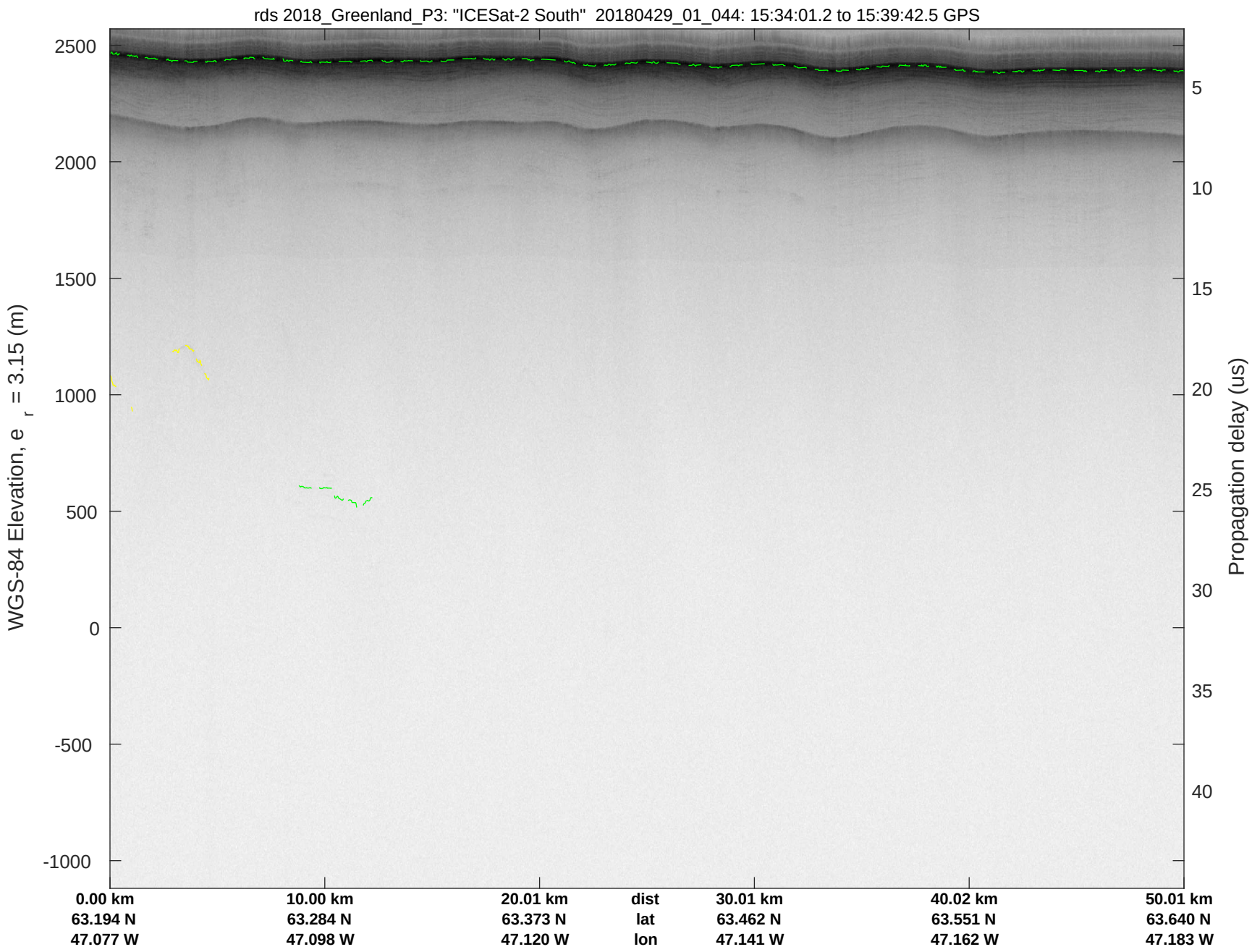

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_042: 15:22:04.7 to 15:28:02.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
62.302 N
46.872 W
10.01 km
62.391 N
46.893 W
20.01 km
62.481 N
46.913 W
dist
lat
lon
30.01 km
62.570 N
46.933 W
40.02 km
62.659 N
46.953 W
50.01 km
62.748 N
46.974 W

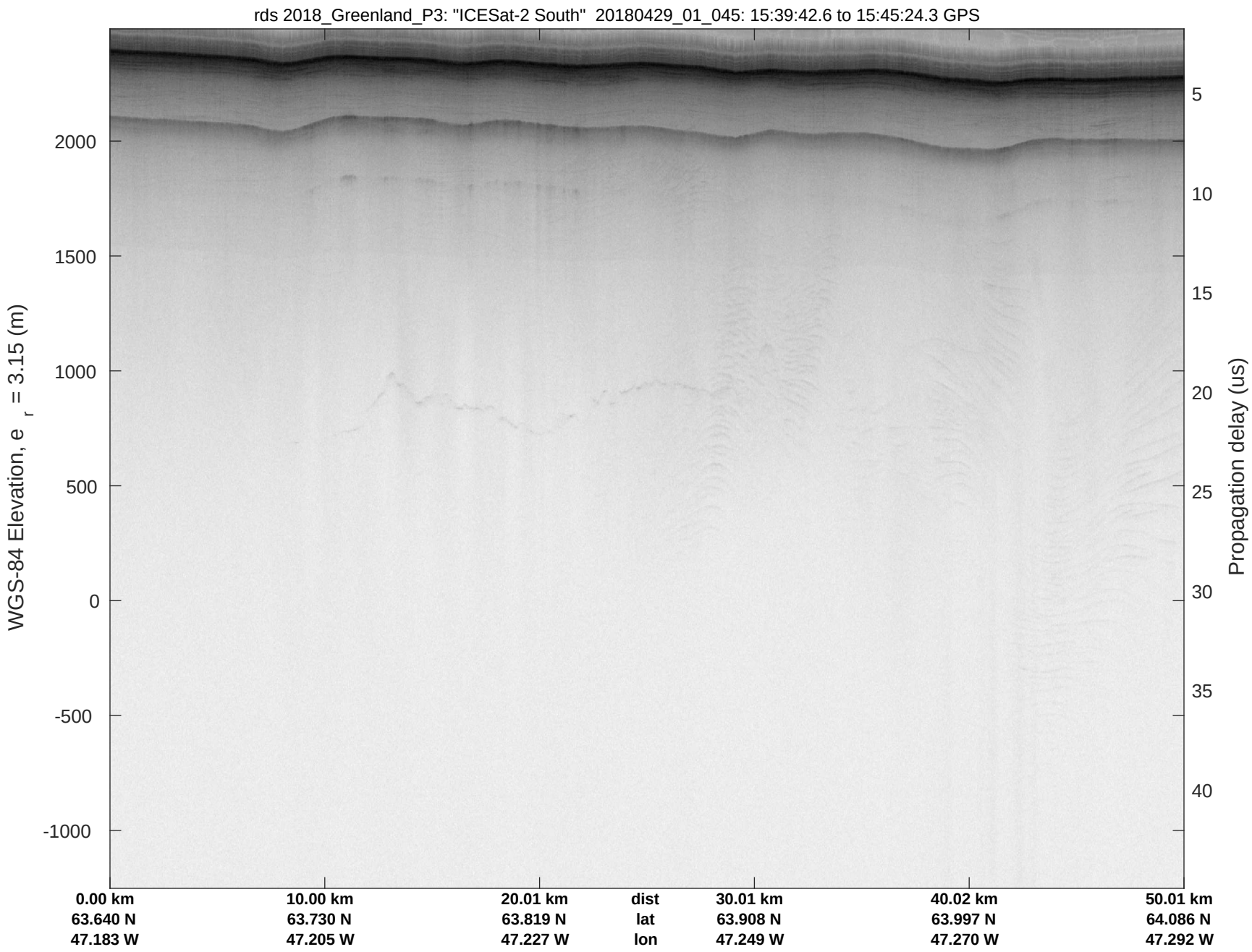

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_042: 15:22:04.7 to 15:28:02.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
62.302 N
46.872 W
10.01 km
62.391 N
46.893 W
20.01 km
62.481 N
46.913 W
dist
lat
lon
30.01 km
62.570 N
46.933 W
40.02 km
62.659 N
46.953 W
50.01 km
62.748 N
46.974 W

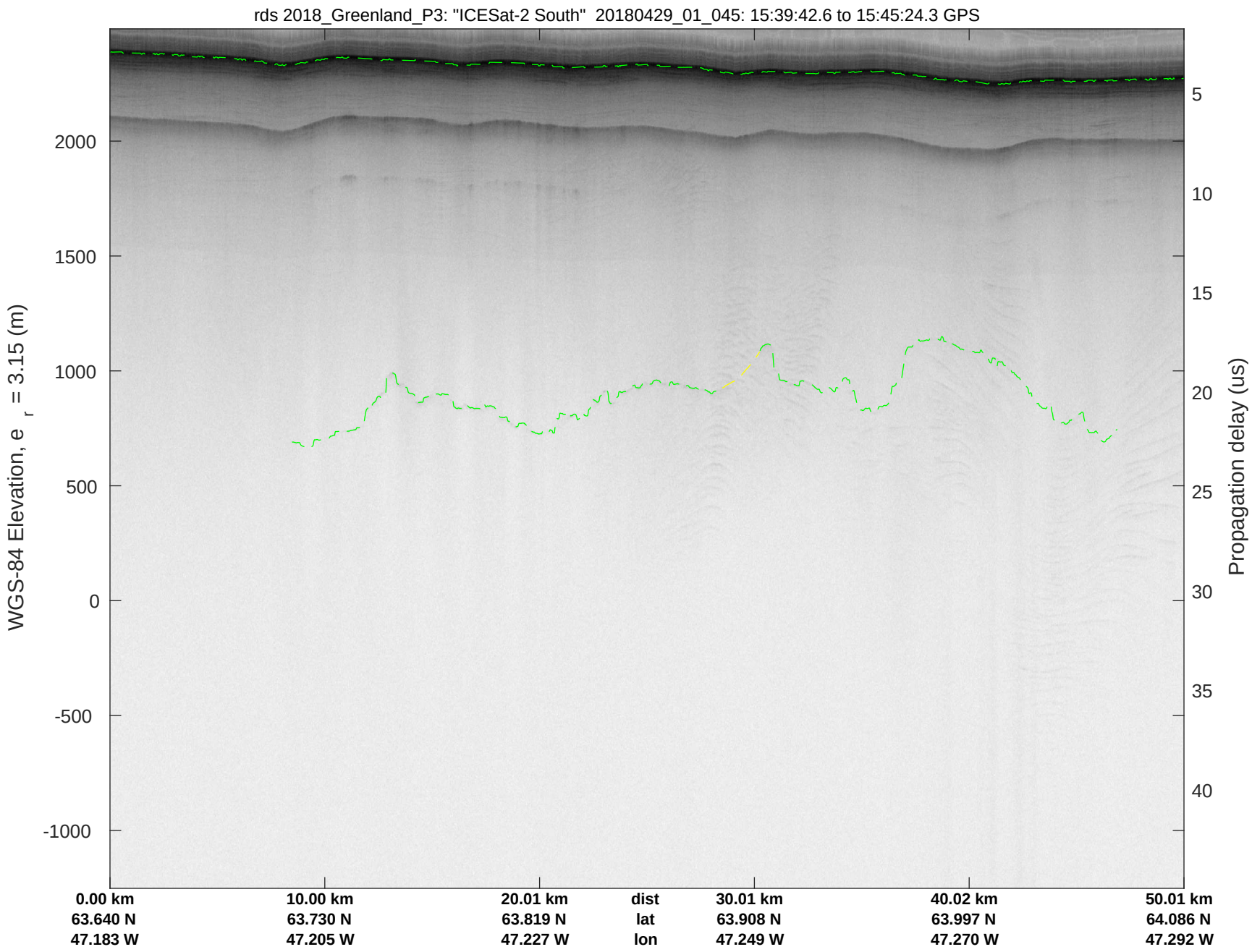

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_043: 15:28:02.2 to 15:34:01.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
62.748 N
46.974 W
10.00 km
62.837 N
46.994 W
20.01 km
62.927 N
47.015 W
dist
lat
lon
30.01 km
63.016 N
47.036 W
40.02 km
63.105 N
47.056 W
50.01 km
63.194 N
47.077 W

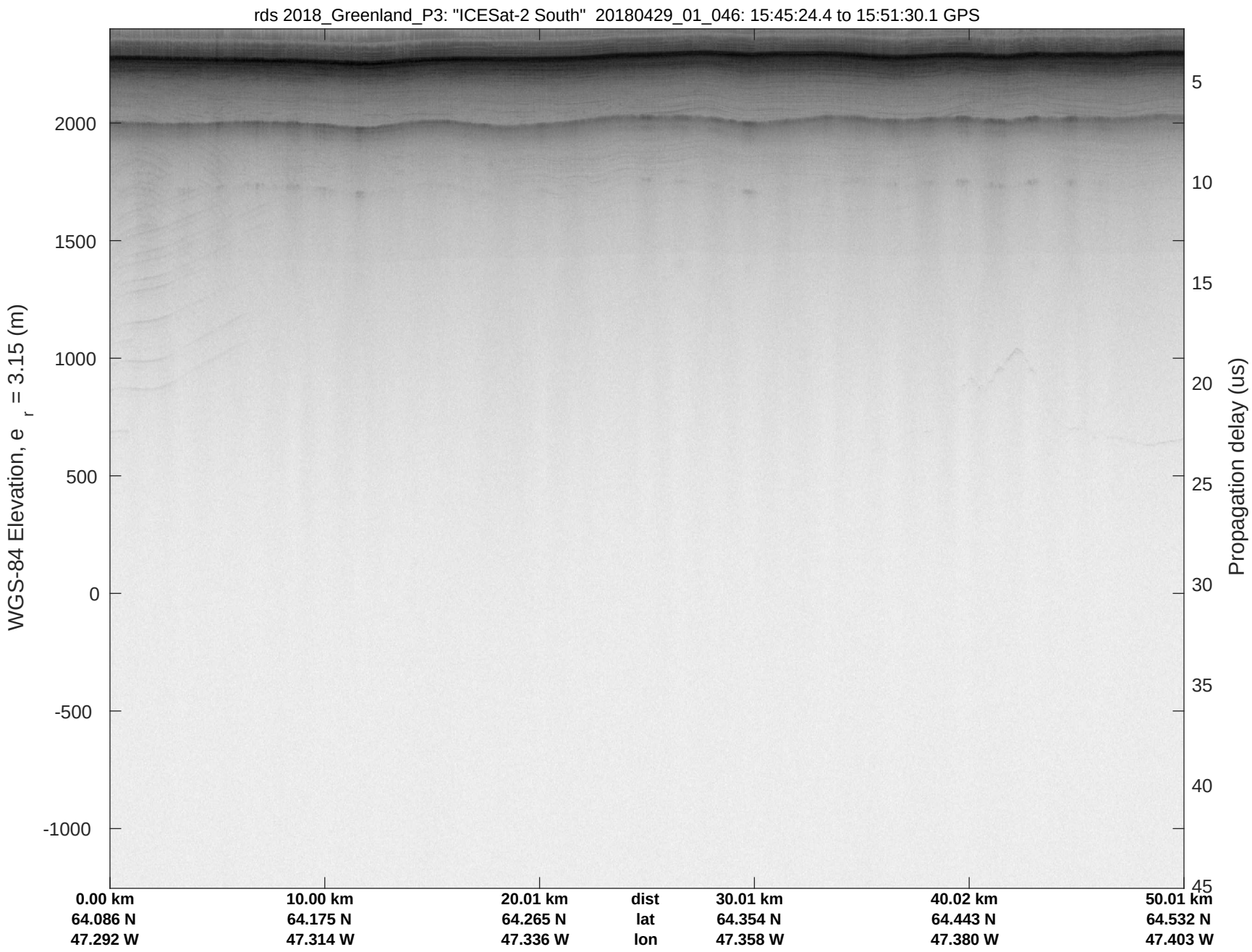

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_043: 15:28:02.2 to 15:34:01.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
62.748 N
46.974 W
10.00 km
62.837 N
46.994 W
20.01 km
62.927 N
47.015 W
dist
lat
lon
30.01 km
63.016 N
47.036 W
40.02 km
63.105 N
47.056 W
50.01 km
63.194 N
47.077 W

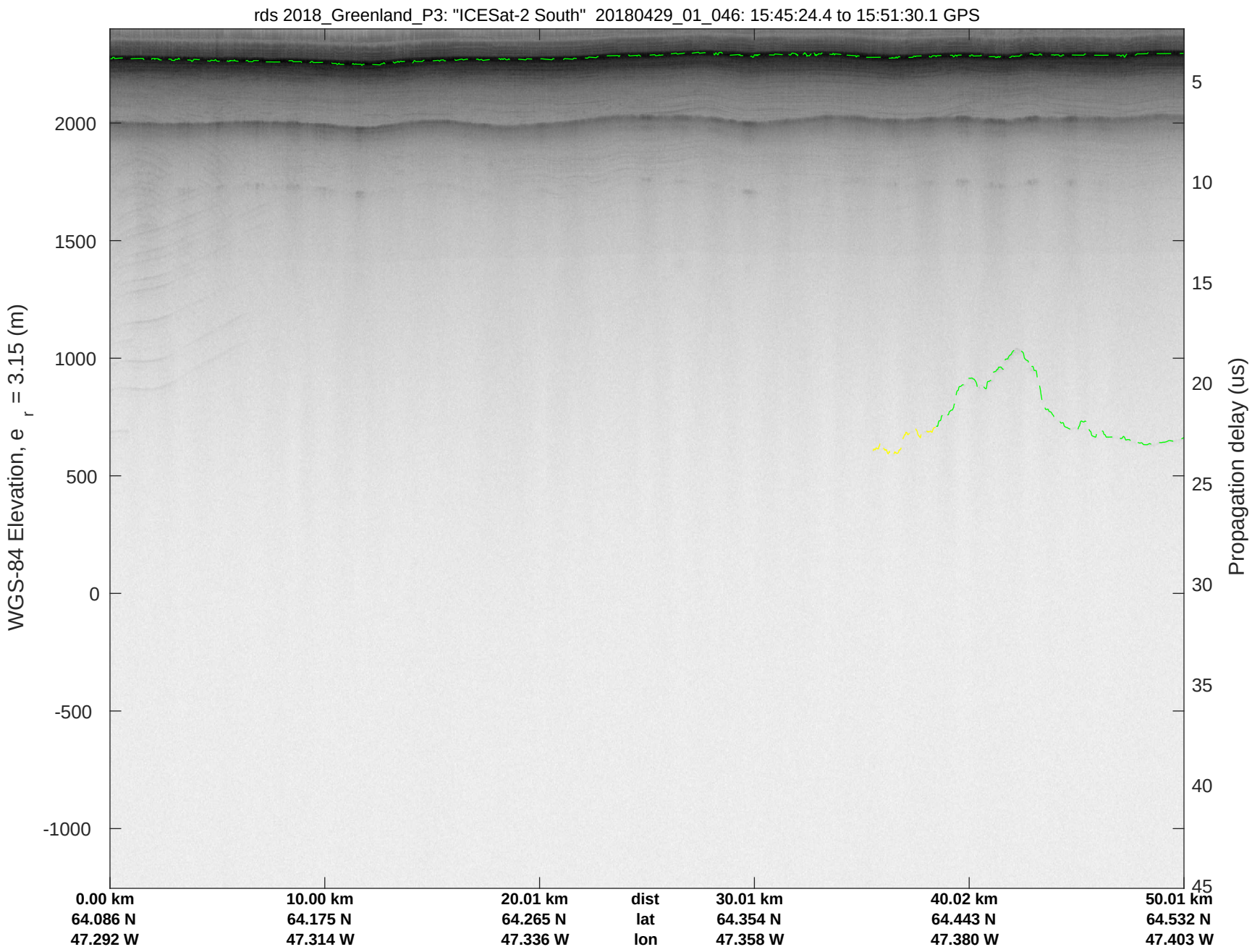

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_044: 15:34:01.2 to 15:39:42.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
63.194 N
47.077 W
10.00 km
63.284 N
47.098 W
20.01 km
63.373 N
47.120 W
dist
lat
lon
30.01 km
63.462 N
47.141 W
40.02 km
63.551 N
47.162 W
50.01 km
63.640 N
47.183 W

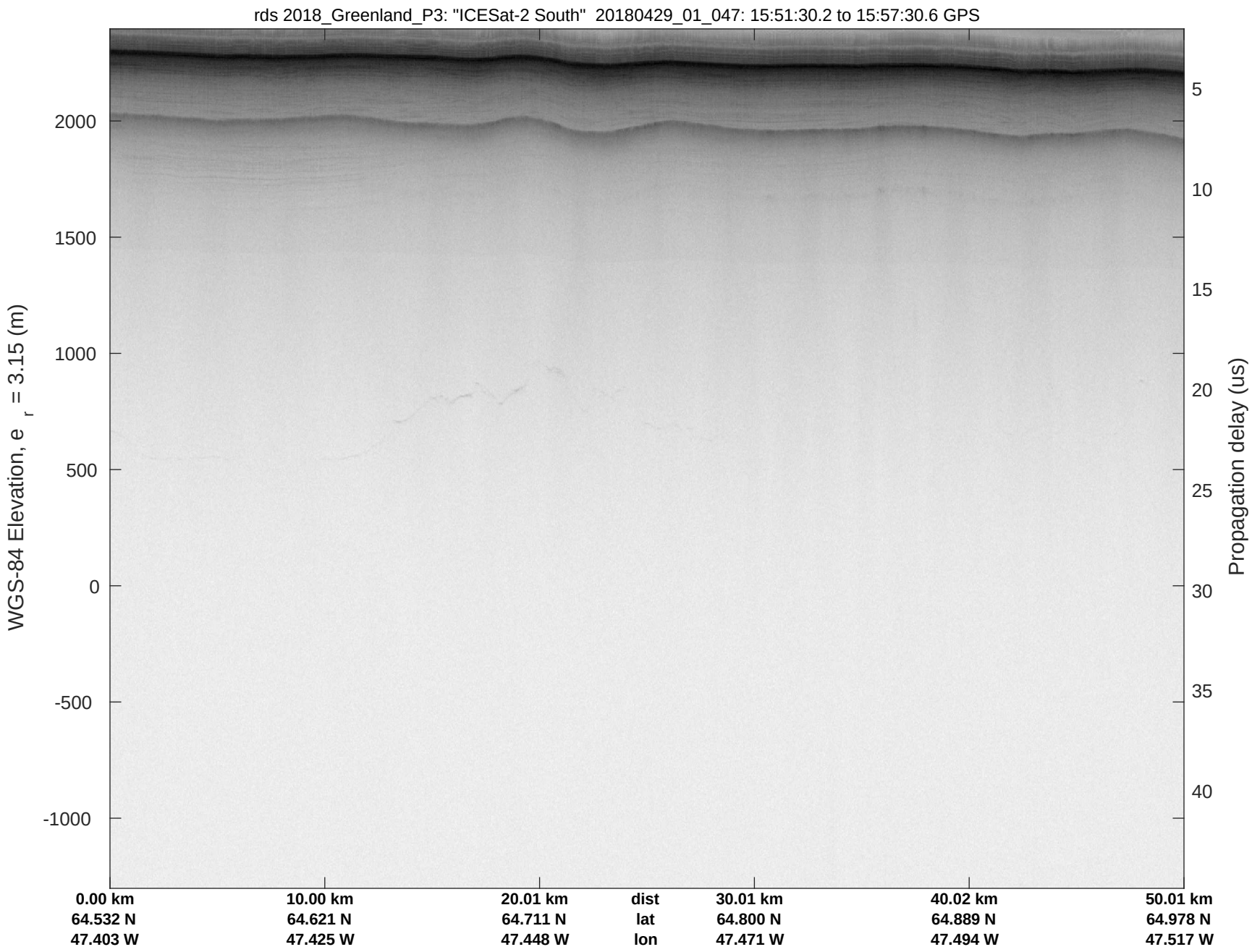

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_044: 15:34:01.2 to 15:39:42.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.194 N
47.077 W
10.00 km
63.284 N
47.098 W
20.01 km
63.373 N
47.120 W
dist
lat
lon
30.01 km
63.462 N
47.141 W
40.02 km
63.551 N
47.162 W
50.01 km
63.640 N
47.183 W

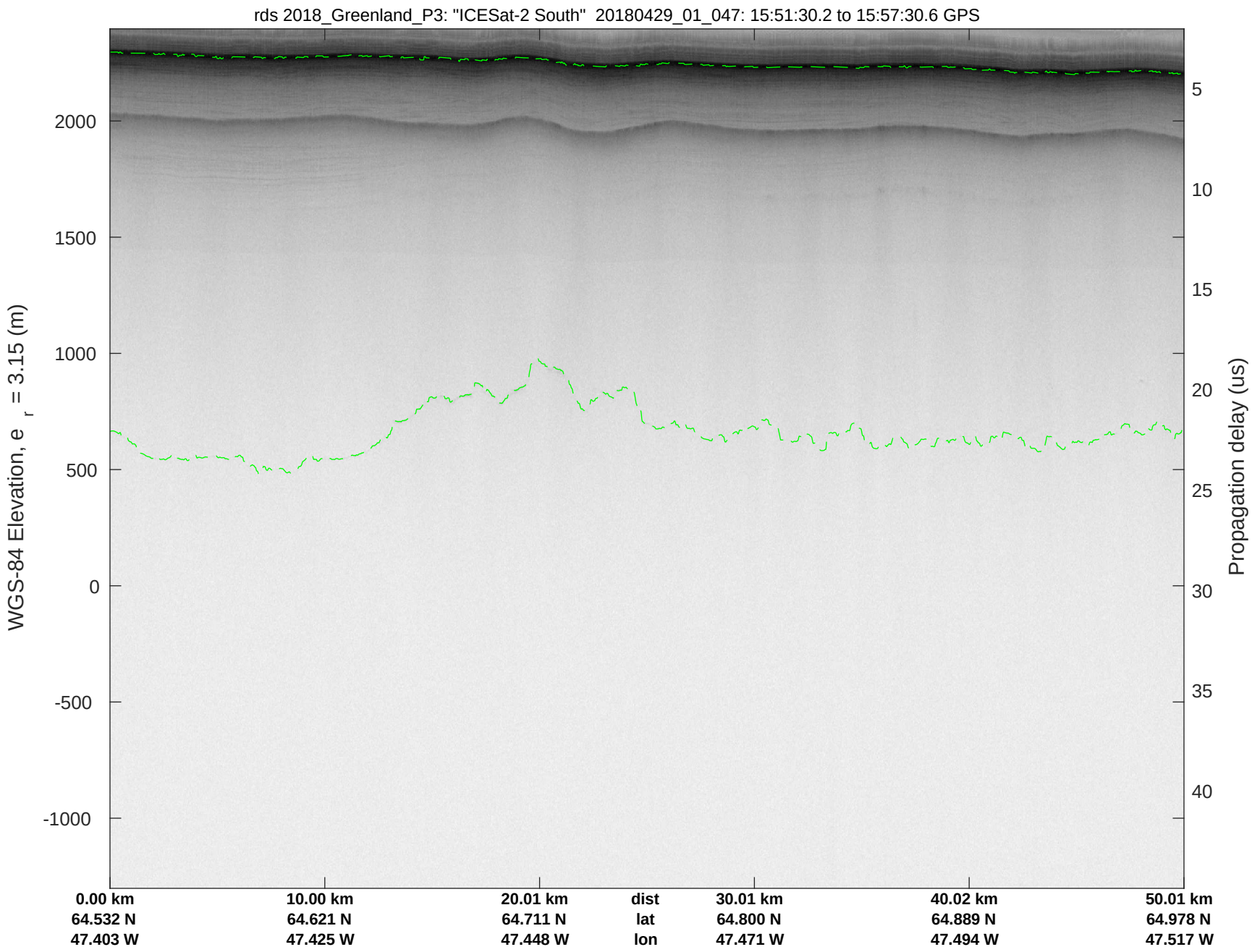

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_045: 15:39:42.6 to 15:45:24.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
Propagation delay (us)
0.00 km
63.640 N
47.183 W
10.00 km
63.730 N
47.205 W
20.01 km
63.819 N
47.227 W
dist
lat
lon
30.01 km
63.908 N
47.249 W
40.02 km
63.997 N
47.270 W
50.01 km
64.086 N
47.292 W

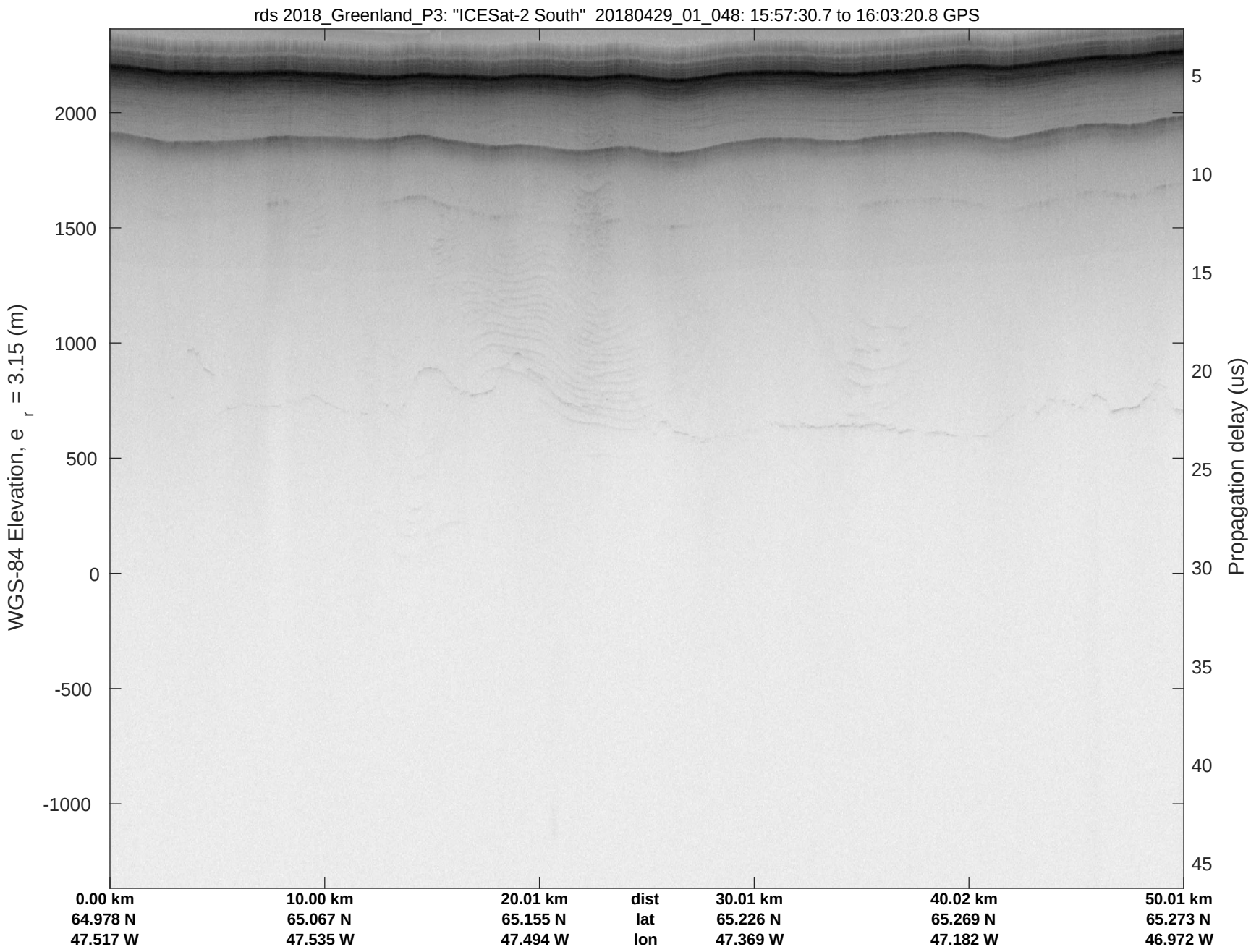

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_045: 15:39:42.6 to 15:45:24.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
Propagation delay (us)
0.00 km
63.640 N
47.183 W
10.00 km
63.730 N
47.205 W
20.01 km
63.819 N
47.227 W
dist
lat
lon
30.01 km
63.908 N
47.249 W
40.02 km
63.997 N
47.270 W
50.01 km
64.086 N
47.292 W

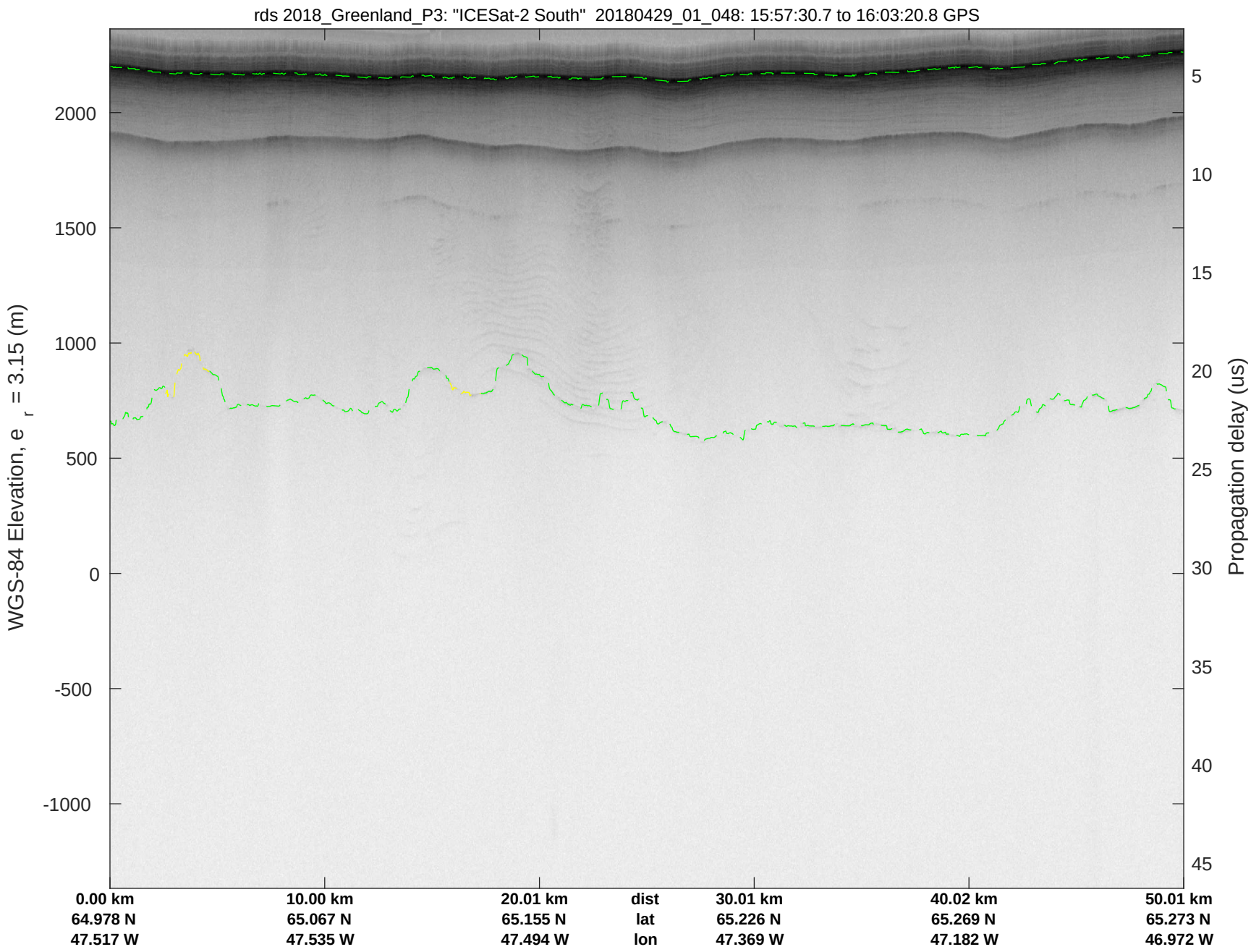

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_046: 15:45:24.4 to 15:51:30.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.086 N
47.292 W
10.00 km
64.175 N
47.314 W
20.01 km
64.265 N
47.336 W
dist
lat
lon
30.01 km
64.354 N
47.358 W
40.02 km
64.443 N
47.380 W
50.01 km
64.532 N
47.403 W

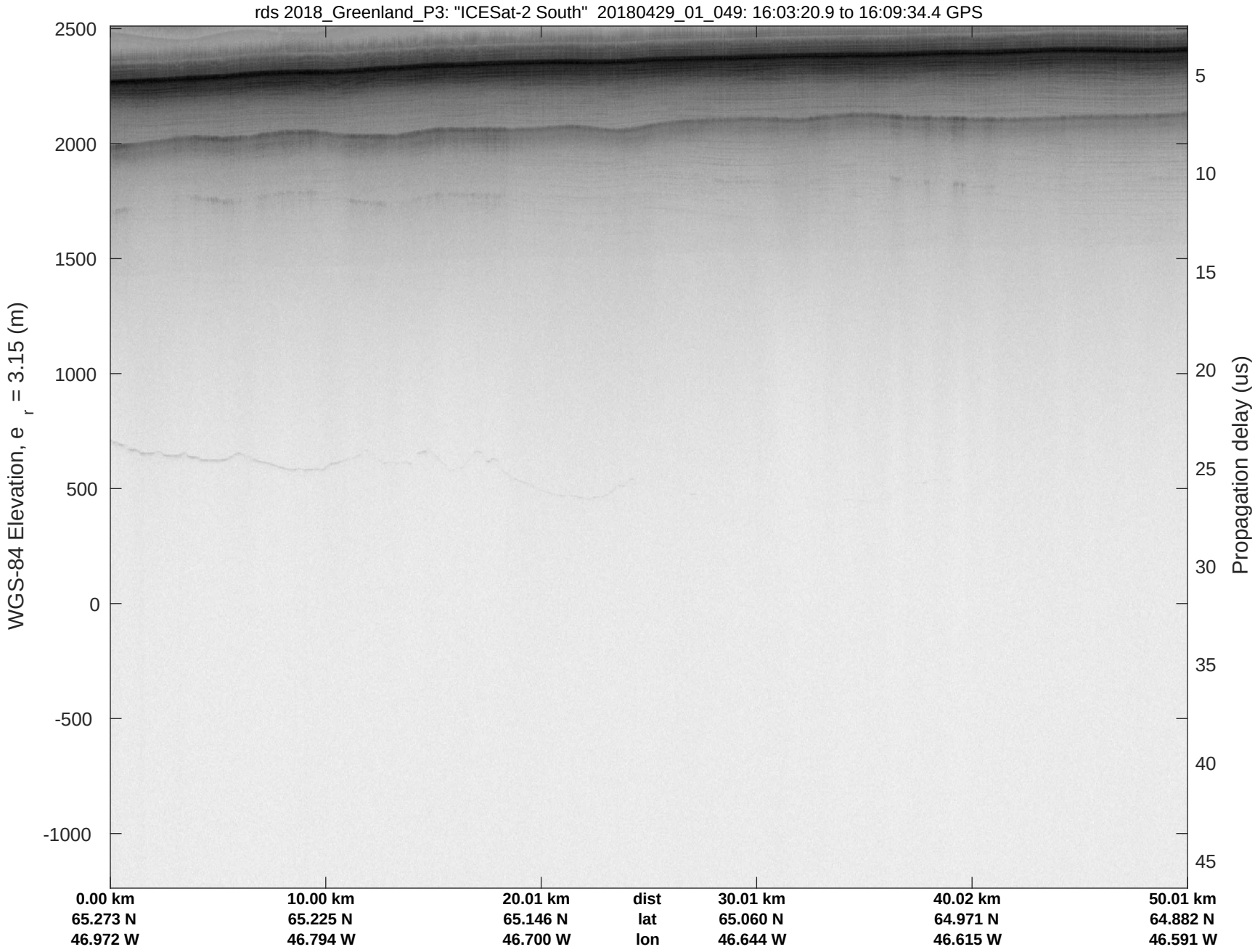

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_046: 15:45:24.4 to 15:51:30.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
Propagation delay (us)
0.00 km
64.086 N
47.292 W
10.00 km
64.175 N
47.314 W
20.01 km
64.265 N
47.336 W
dist
lat
lon
30.01 km
64.354 N
47.358 W
40.02 km
64.443 N
47.380 W
50.01 km
64.532 N
47.403 W

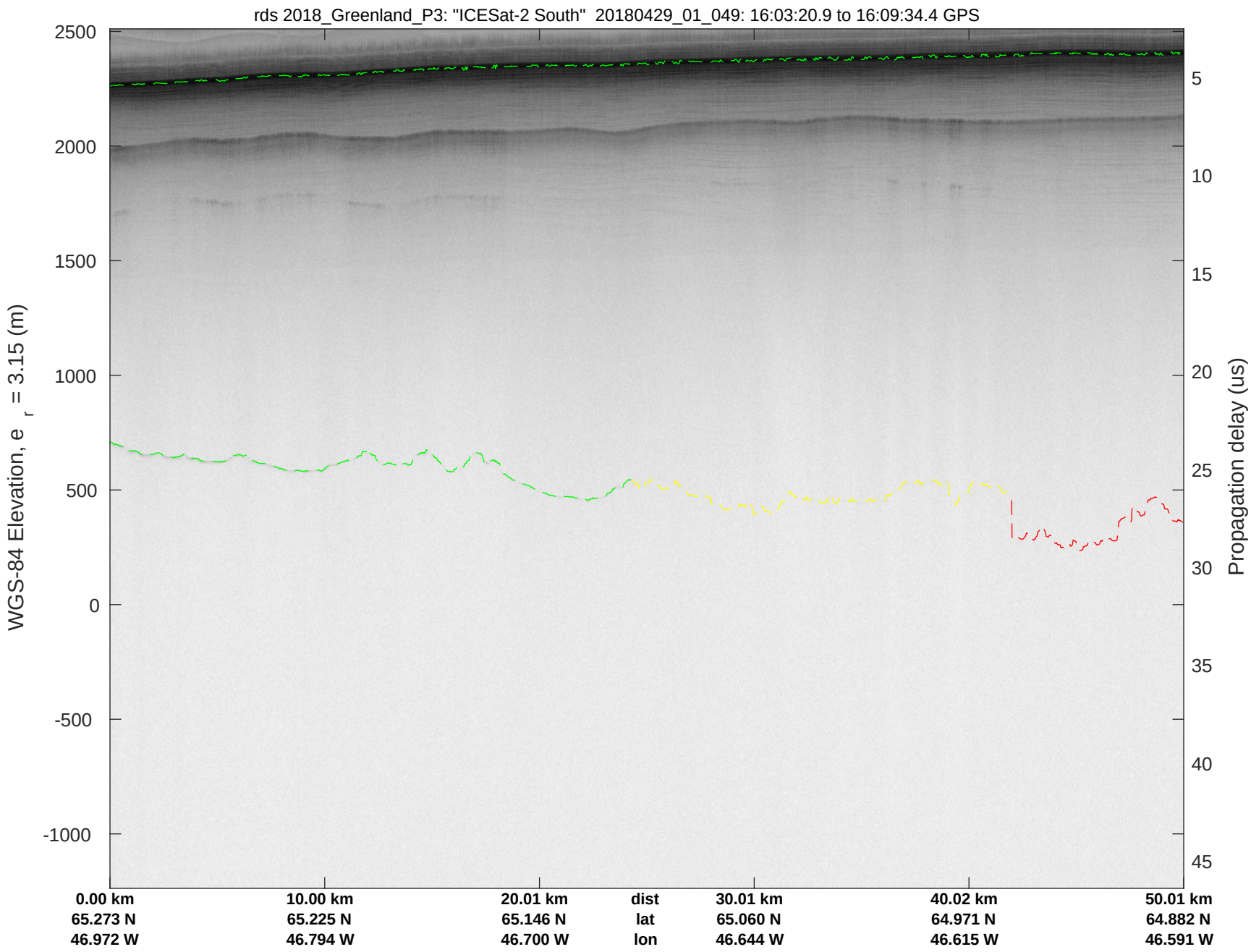

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_047: 15:51:30.2 to 15:57:30.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.532 N
47.403 W
10.00 km
64.621 N
47.425 W
20.01 km
64.711 N
47.448 W
dist
lat
lon
30.01 km
64.800 N
47.471 W
40.02 km
64.889 N
47.494 W
50.01 km
64.978 N
47.517 W

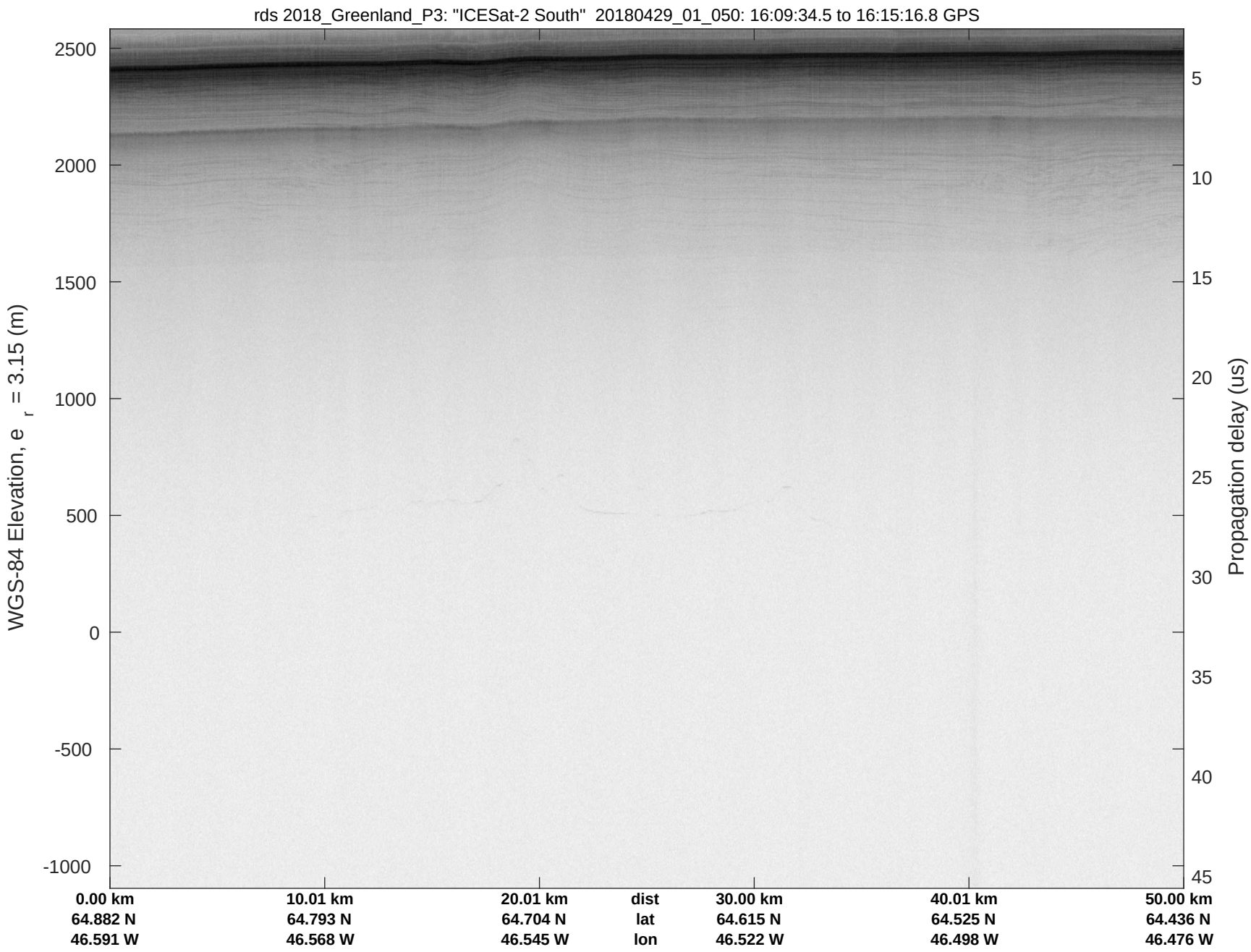

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_047: 15:51:30.2 to 15:57:30.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.532 N
47.403 W
10.00 km
64.621 N
47.425 W
20.01 km
64.711 N
47.448 W
dist
lat
lon
30.01 km
64.800 N
47.471 W
40.02 km
64.889 N
47.494 W
50.01 km
64.978 N
47.517 W

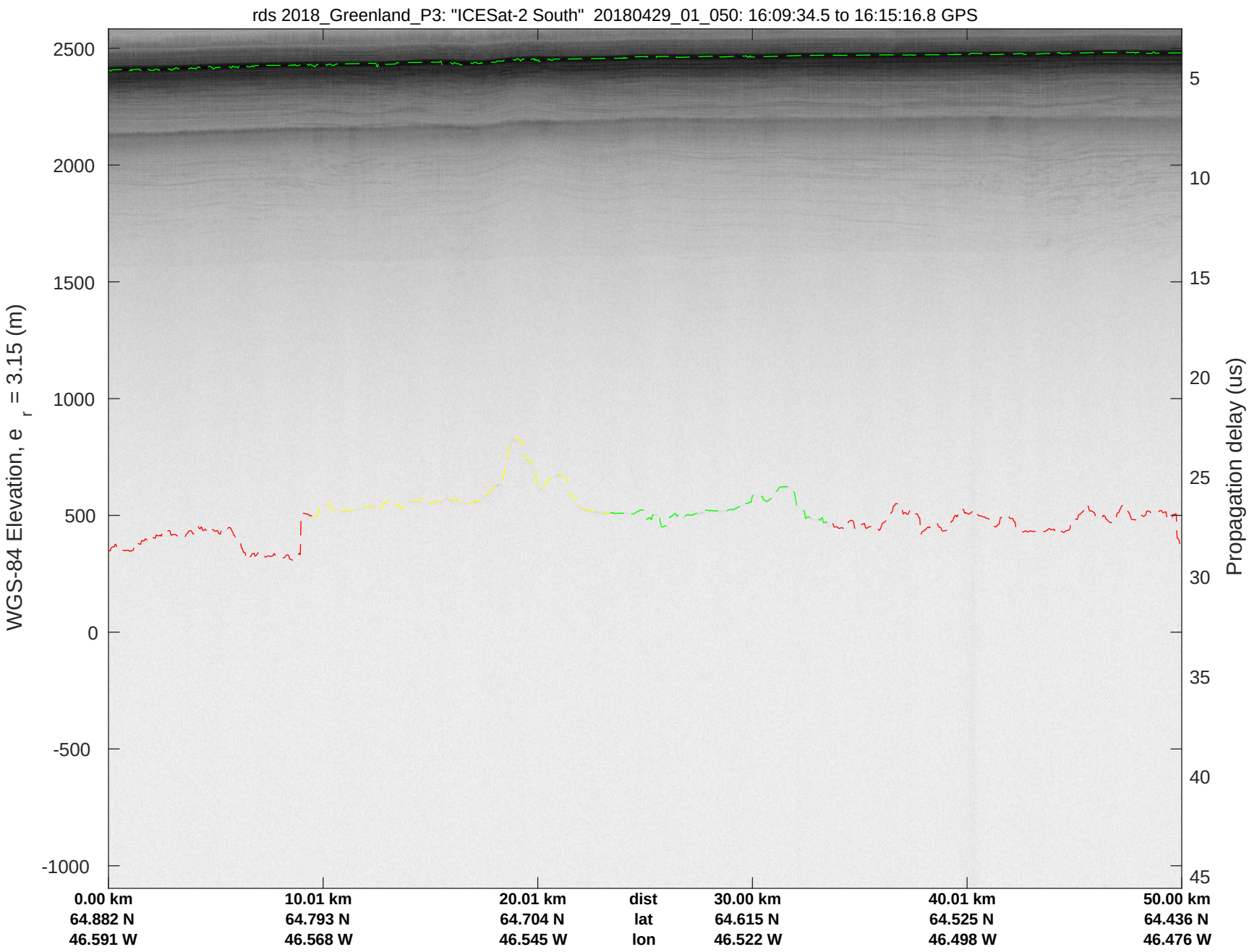

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_048: 15:57:30.7 to 16:03:20.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.978 N
47.517 W
10.00 km
65.067 N
47.535 W
20.01 km
65.155 N
47.494 W
dist
lat
lon
30.01 km
65.226 N
47.369 W
40.02 km
65.269 N
47.182 W
50.01 km
65.273 N
46.972 W

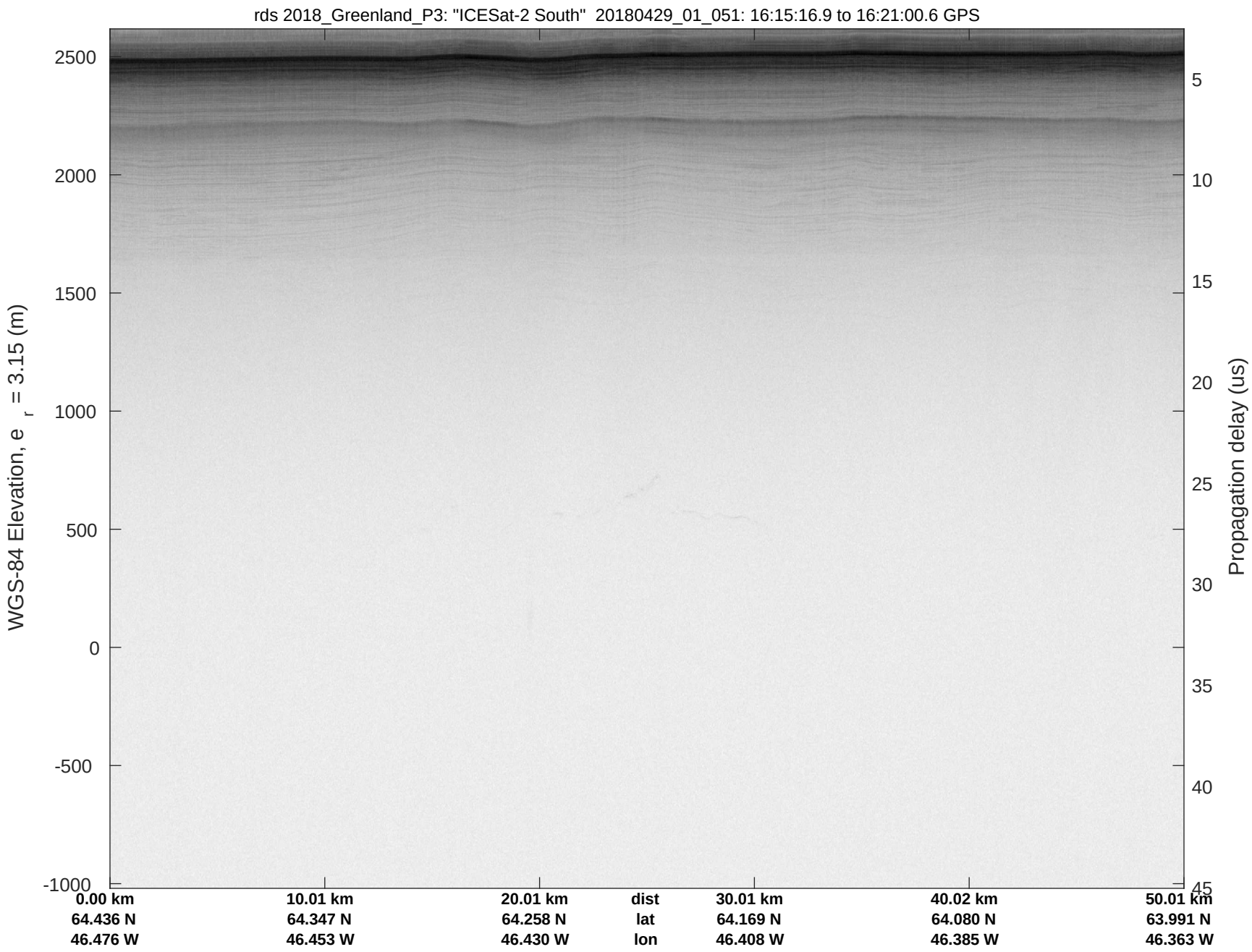

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_048: 15:57:30.7 to 16:03:20.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
64.978 N
47.517 W
10.00 km
65.067 N
47.535 W
20.01 km
65.155 N
47.494 W
dist
lat
lon
30.01 km
65.226 N
47.369 W
40.02 km
65.269 N
47.182 W
50.01 km
65.273 N
46.972 W

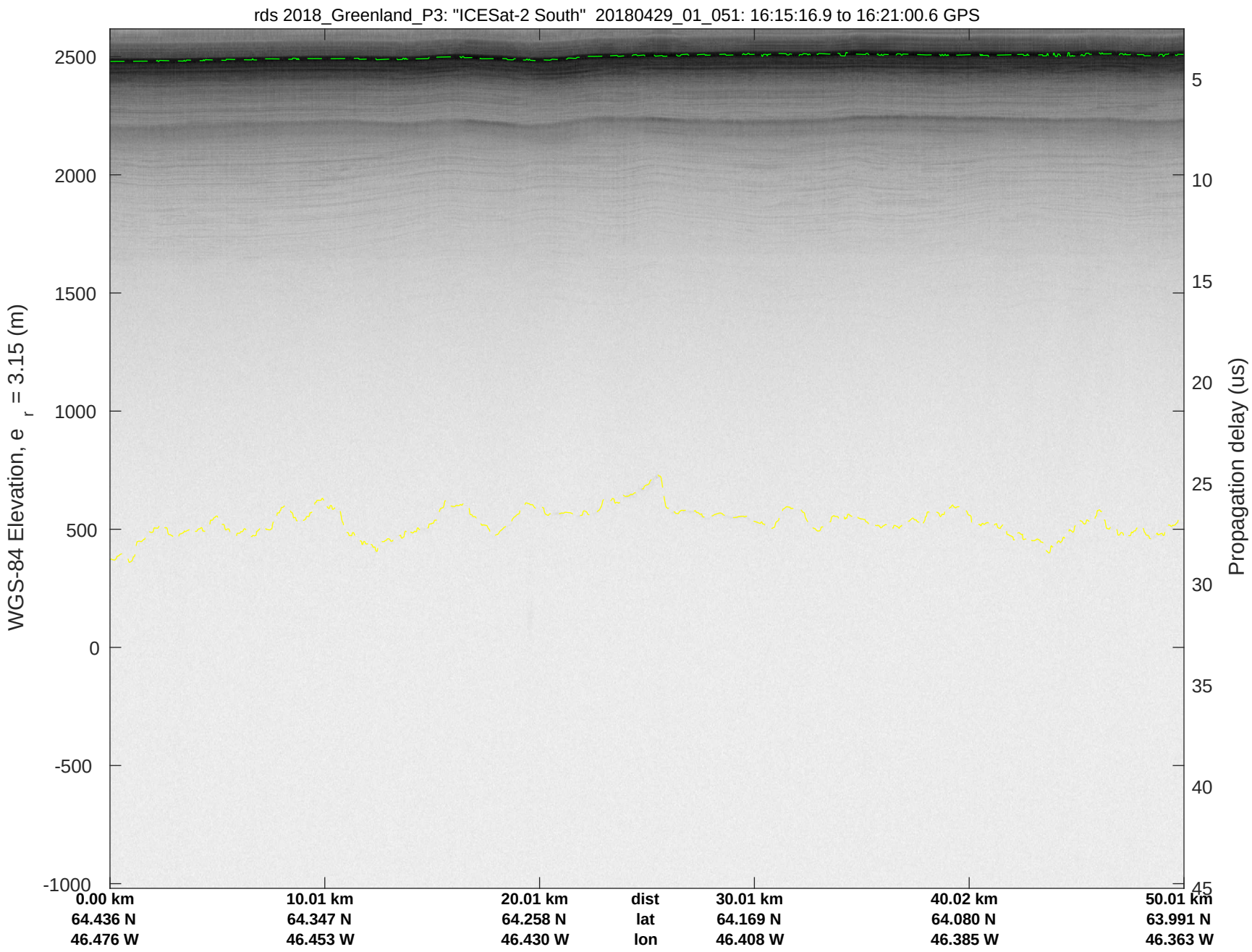

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_049: 16:03:20.9 to 16:09:34.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
65.273 N
46.972 W
10.00 km
65.225 N
46.794 W
20.01 km
65.146 N
46.700 W
dist
lat
lon
30.01 km
65.060 N
46.644 W
40.02 km
64.971 N
46.615 W
50.01 km
64.882 N
46.591 W

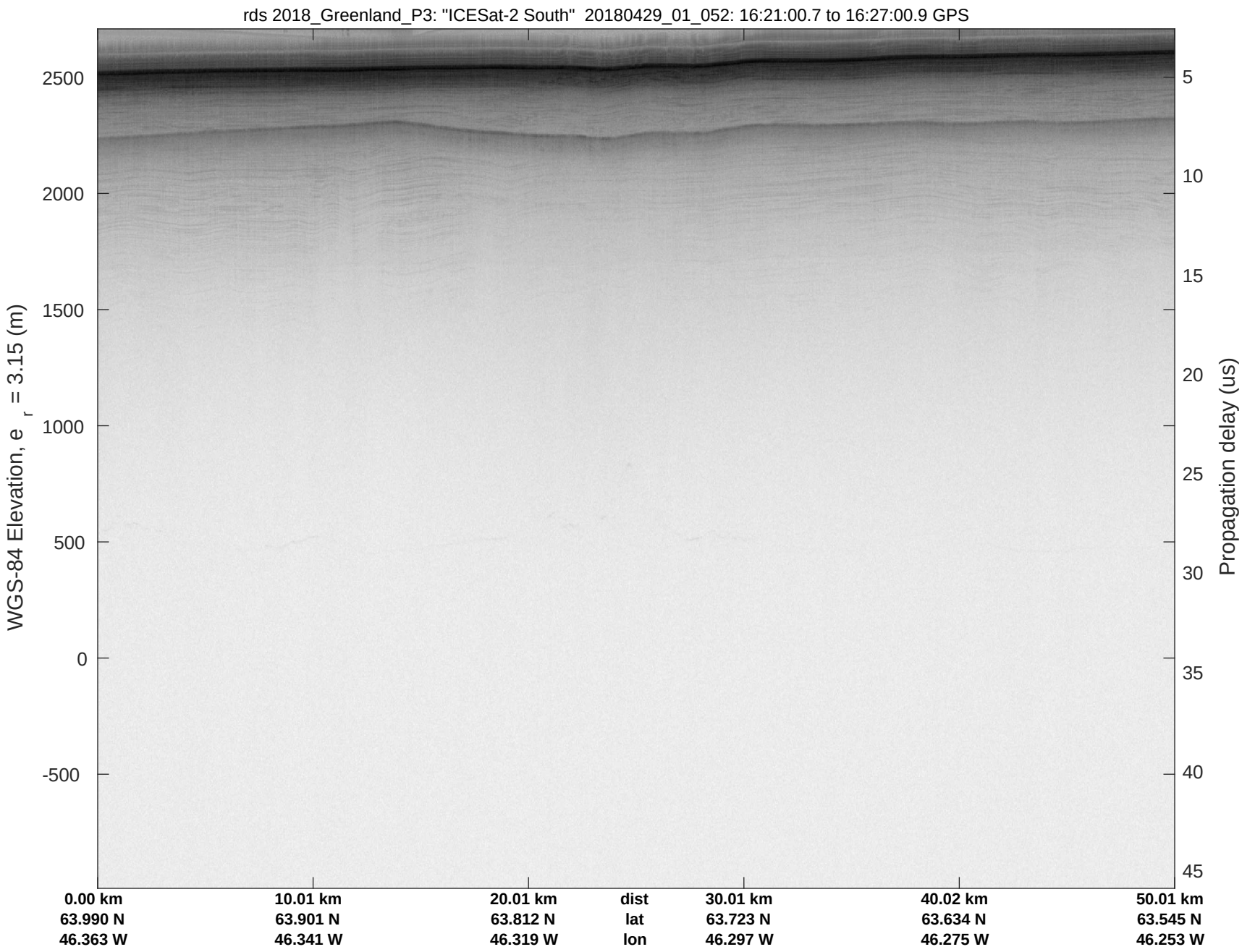

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_049: 16:03:20.9 to 16:09:34.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
65.273 N
46.972 W
10.00 km
65.225 N
46.794 W
20.01 km
65.146 N
46.700 W
dist
lat
lon
30.01 km
65.060 N
46.644 W
40.02 km
64.971 N
46.615 W
50.01 km
64.882 N
46.591 W

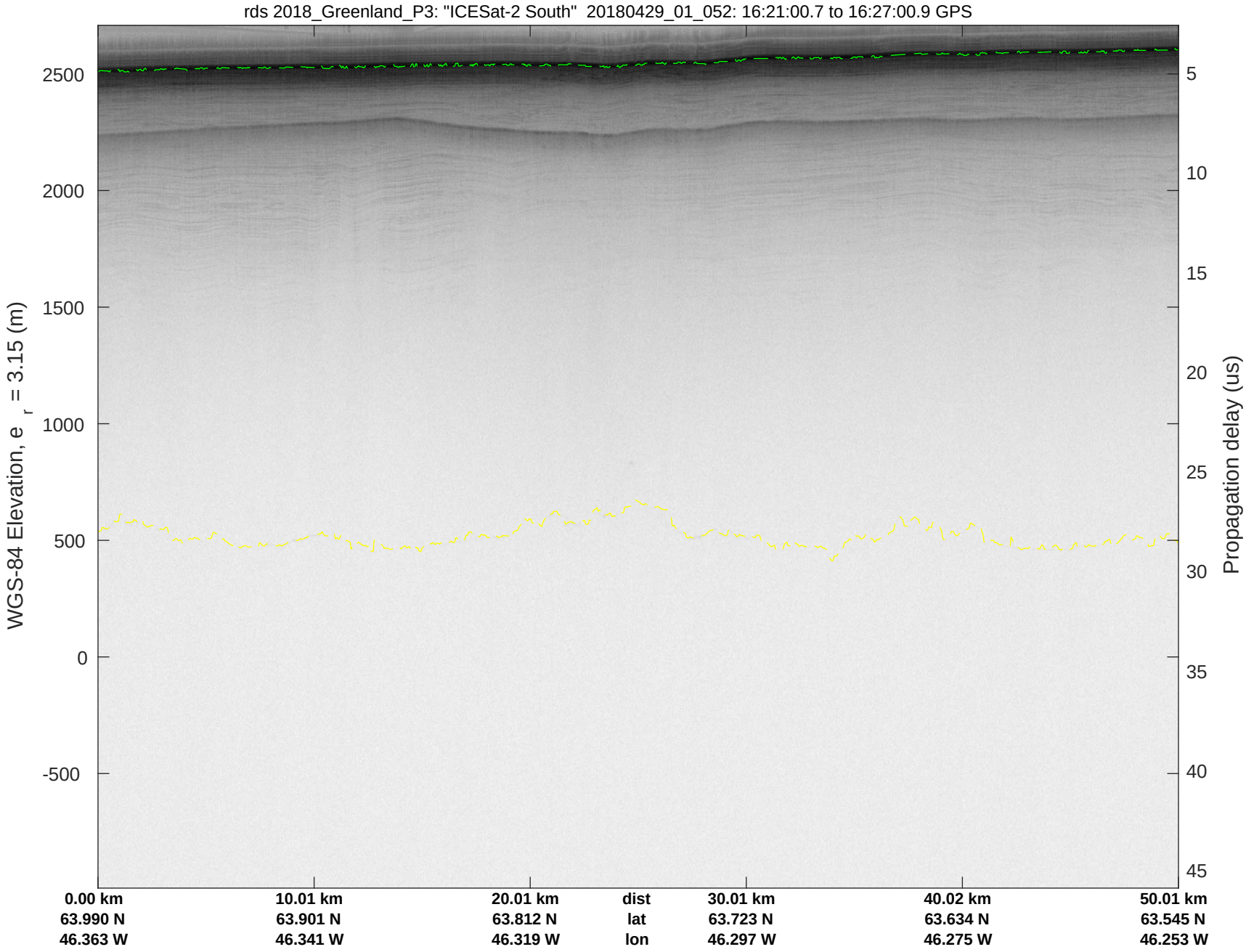

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_050: 16:09:34.5 to 16:15:16.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
64.882 N
46.591 W
10.01 km
64.793 N
46.568 W
20.01 km
64.704 N
46.545 W
dist
lat
lon
30.00 km
64.615 N
46.522 W
40.01 km
64.525 N
46.498 W
50.00 km
64.436 N
46.476 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_050: 16:09:34.5 to 16:15:16.8 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
64.882 N
46.591 W
10.01 km
64.793 N
46.568 W
20.01 km
64.704 N
46.545 W
dist
lat
lon
30.00 km
64.615 N
46.522 W
40.01 km
64.525 N
46.498 W
50.00 km
64.436 N
46.476 W

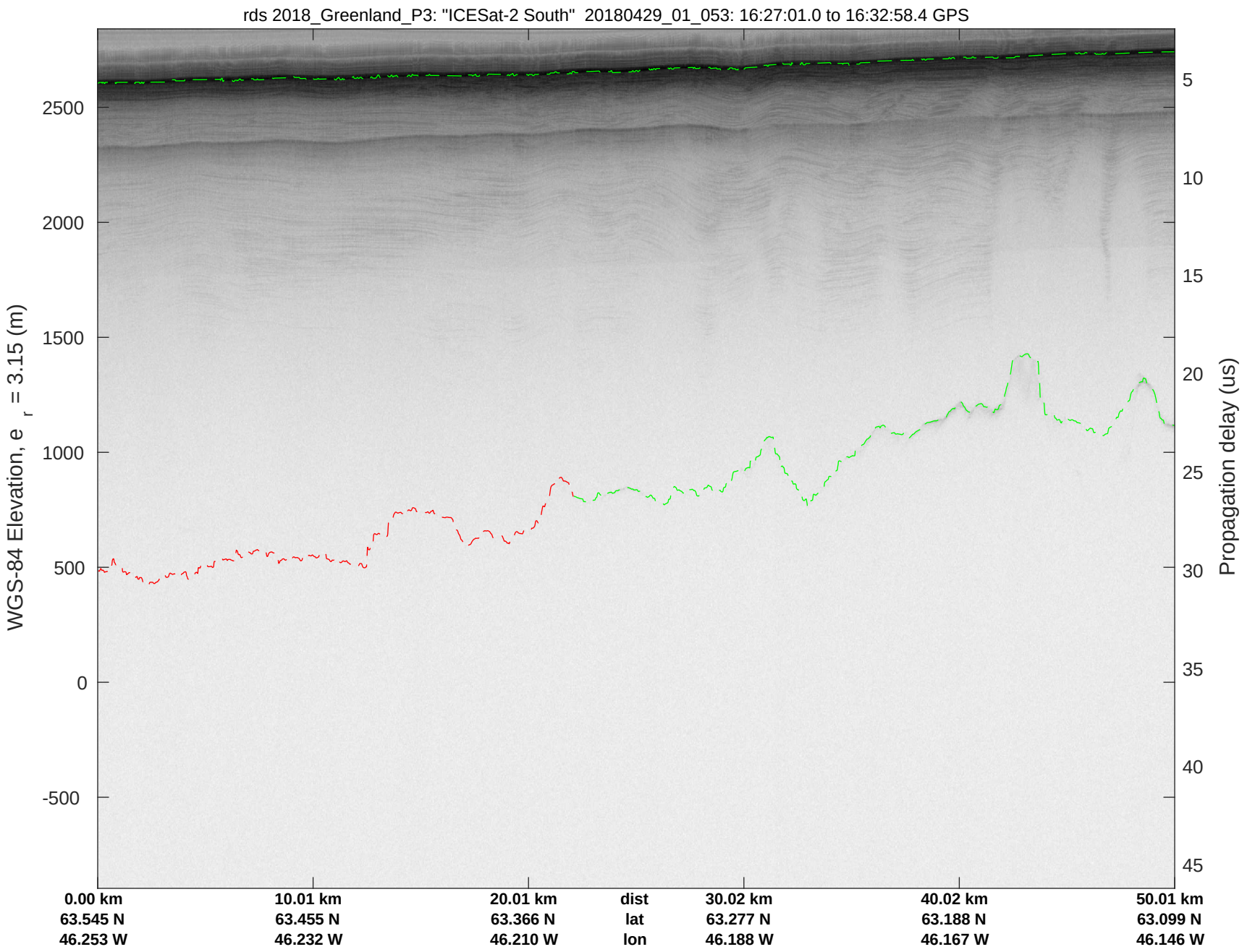

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_051: 16:15:16.9 to 16:21:00.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
64.436 N
46.476 W
10.01 km
64.347 N
46.453 W
20.01 km
64.258 N
46.430 W
dist
lat
lon
30.01 km
64.169 N
46.408 W
40.02 km
64.080 N
46.385 W
50.01 km
63.991 N
46.363 W

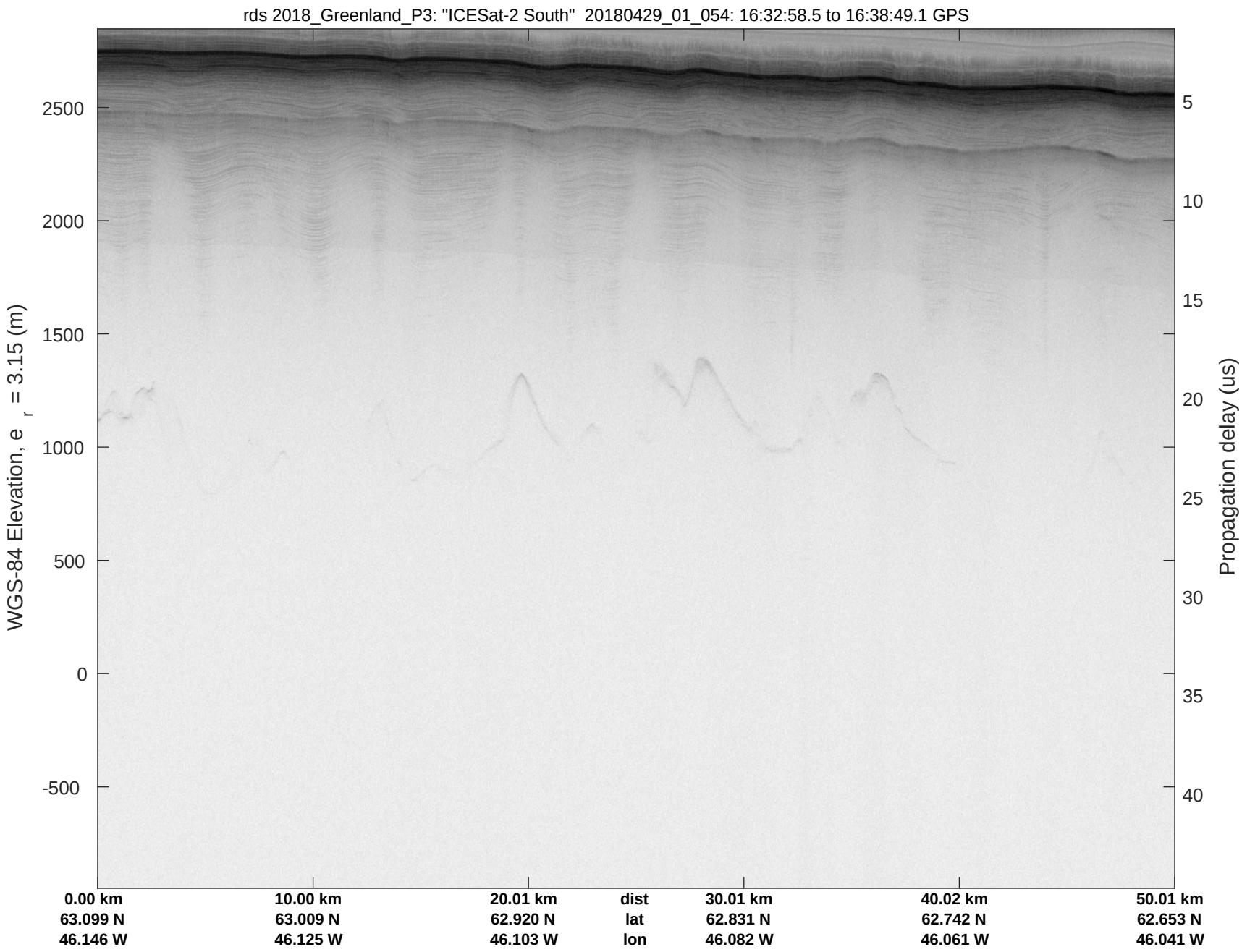

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_051: 16:15:16.9 to 16:21:00.6 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
64.436 N
46.476 W
10.01 km
64.347 N
46.453 W
20.01 km
64.258 N
46.430 W
dist
lat
lon
30.01 km
64.169 N
46.408 W
40.02 km
64.080 N
46.385 W
50.01 km
63.991 N
46.363 W

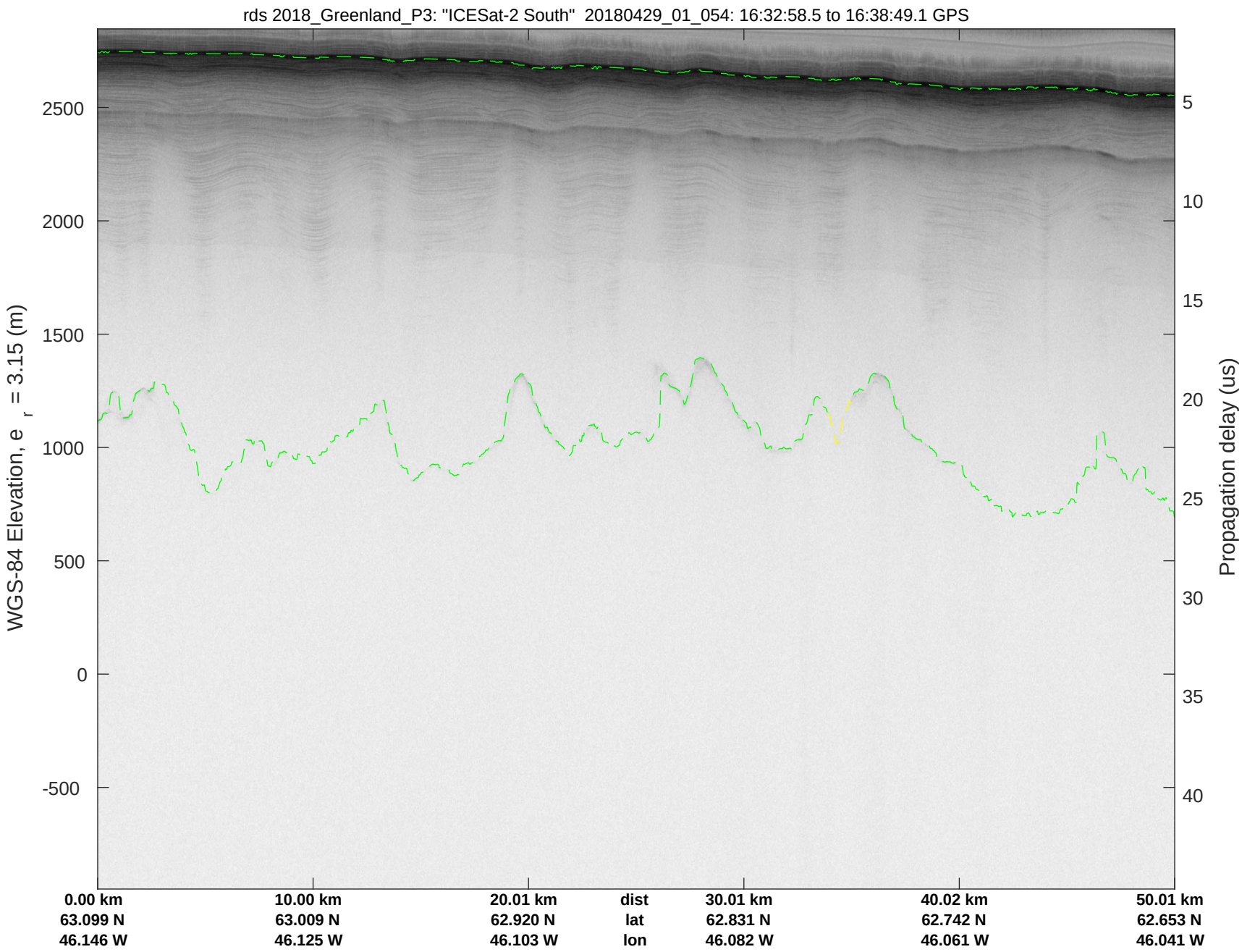

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_052: 16:21:00.7 to 16:27:00.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.990 N
46.363 W
10.01 km
63.901 N
46.341 W
20.01 km
63.812 N
46.319 W
dist
lat
lon
30.01 km
63.723 N
46.297 W
40.02 km
63.634 N
46.275 W
50.01 km
63.545 N
46.253 W

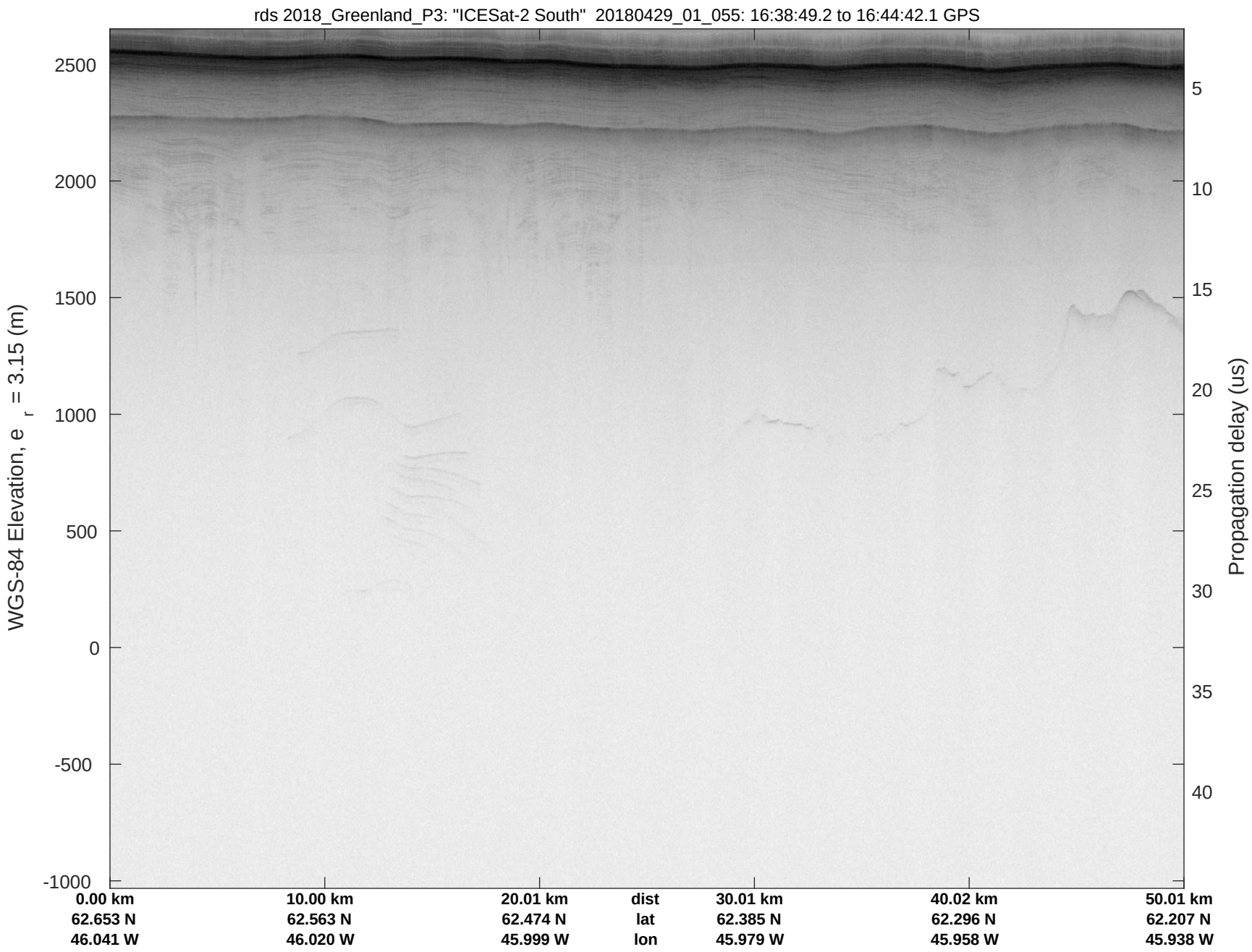

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_052: 16:21:00.7 to 16:27:00.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.990 N
46.363 W
10.01 km
63.901 N
46.341 W
20.01 km
63.812 N
46.319 W
dist
lat
lon
30.01 km
63.723 N
46.297 W
40.02 km
63.634 N
46.275 W
50.01 km
63.545 N
46.253 W

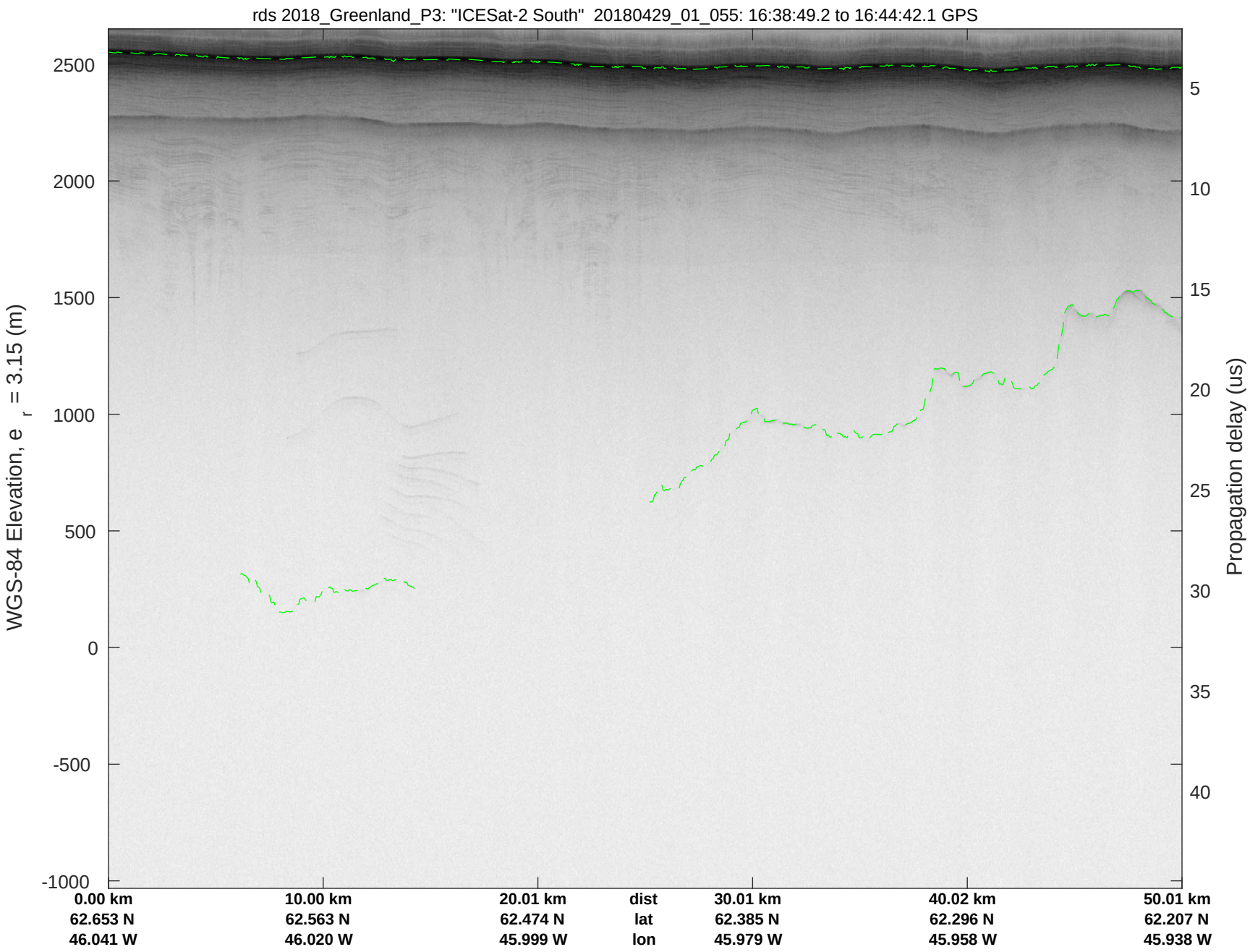
rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_053: 16:27:01.0 to 16:32:58.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.545 N
46.253 W
10.01 km
63.455 N
46.232 W
20.01 km
63.366 N
46.210 W
dist
lat
lon
30.02 km
63.277 N
46.188 W
40.02 km
63.188 N
46.167 W
50.01 km
63.099 N
46.146 W

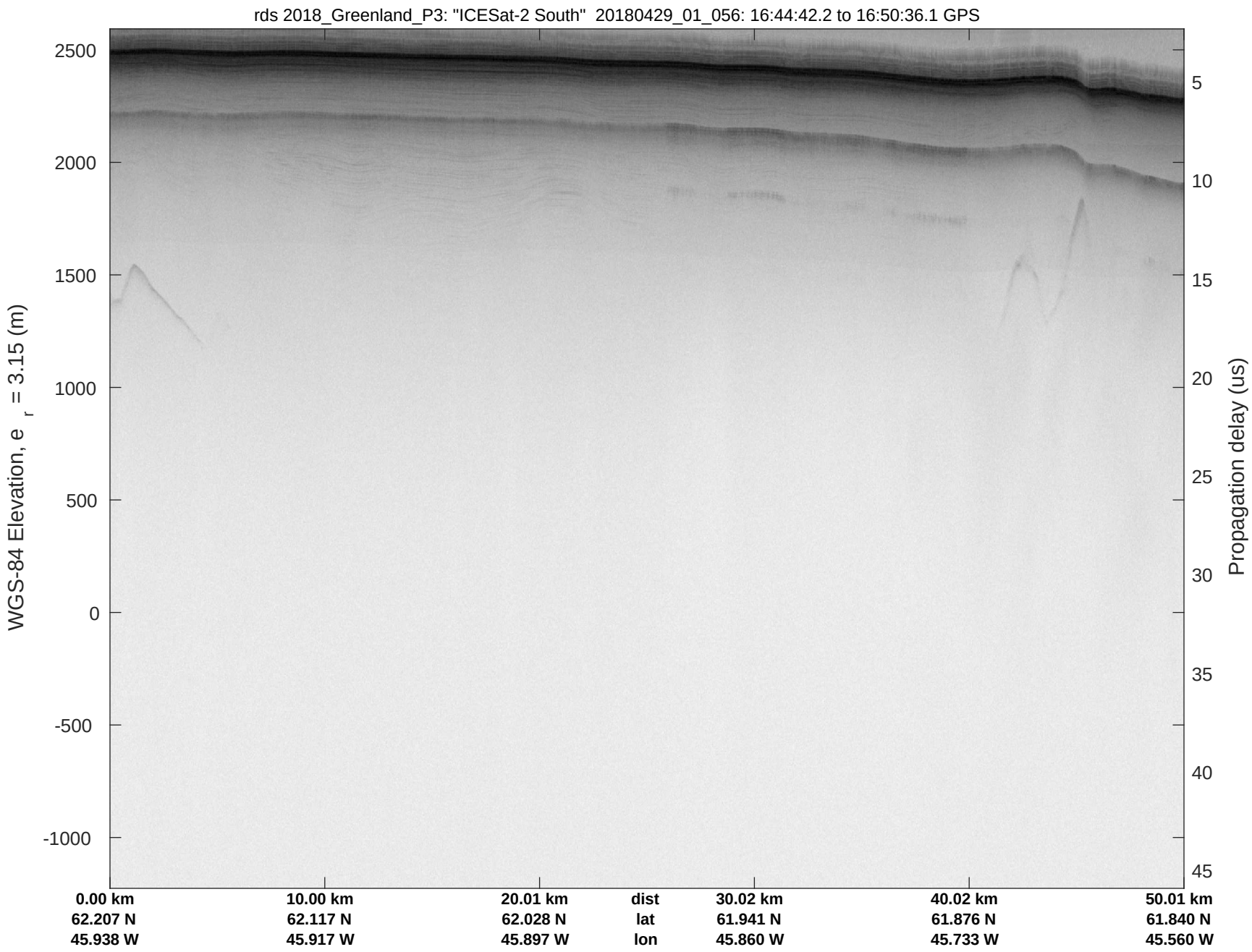

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_053: 16:27:01.0 to 16:32:58.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
63.545 N
46.253 W
10.01 km
63.455 N
46.232 W
20.01 km
63.366 N
46.210 W
dist
lat
lon
30.02 km
63.277 N
46.188 W
40.02 km
63.188 N
46.167 W
50.01 km
63.099 N
46.146 W

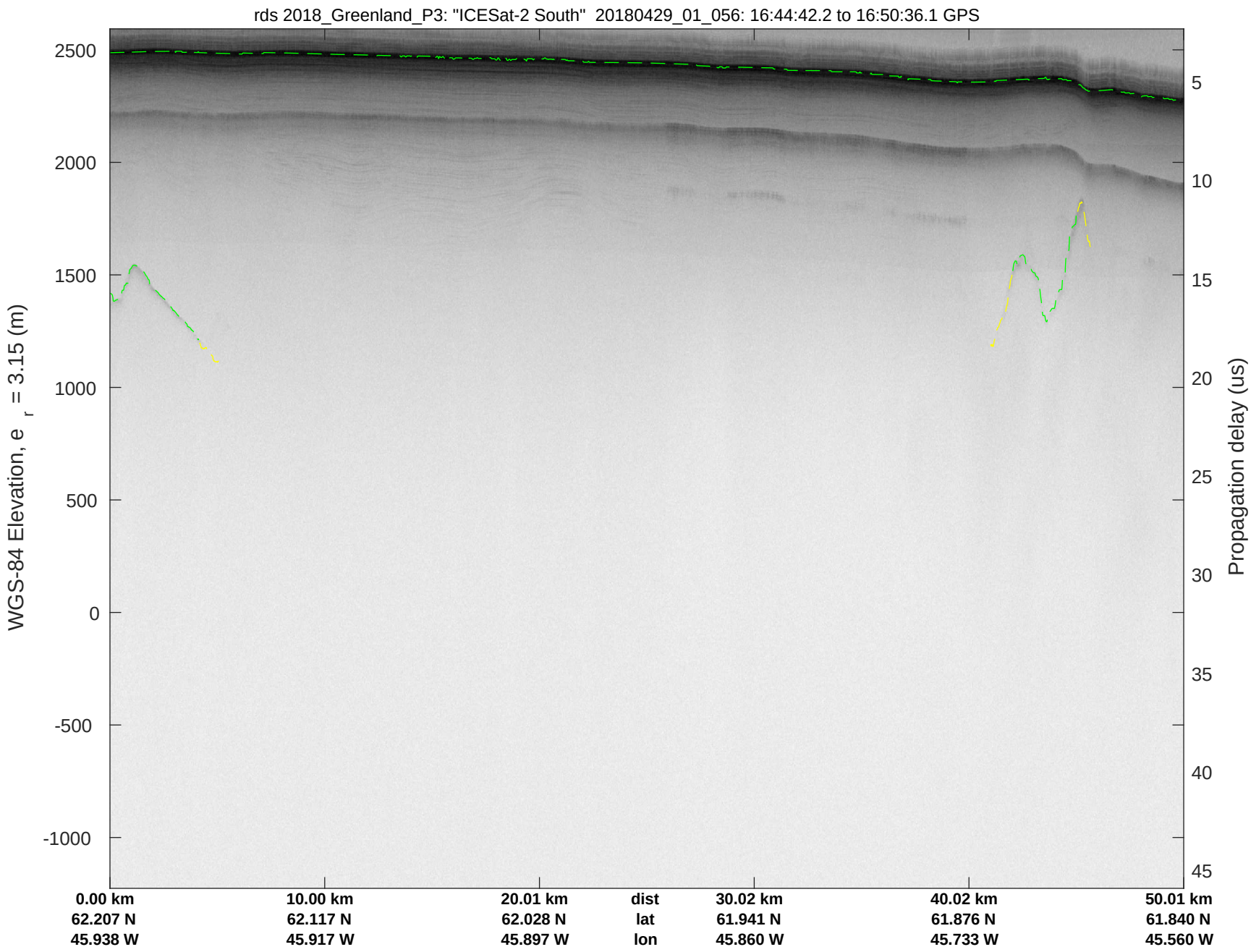

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_054: 16:32:58.5 to 16:38:49.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.099 N
46.146 W
10.00 km
63.009 N
46.125 W
20.01 km
62.920 N
46.103 W
dist
lat
lon
30.01 km
62.831 N
46.082 W
40.02 km
62.742 N
46.061 W
50.01 km
62.653 N
46.041 W

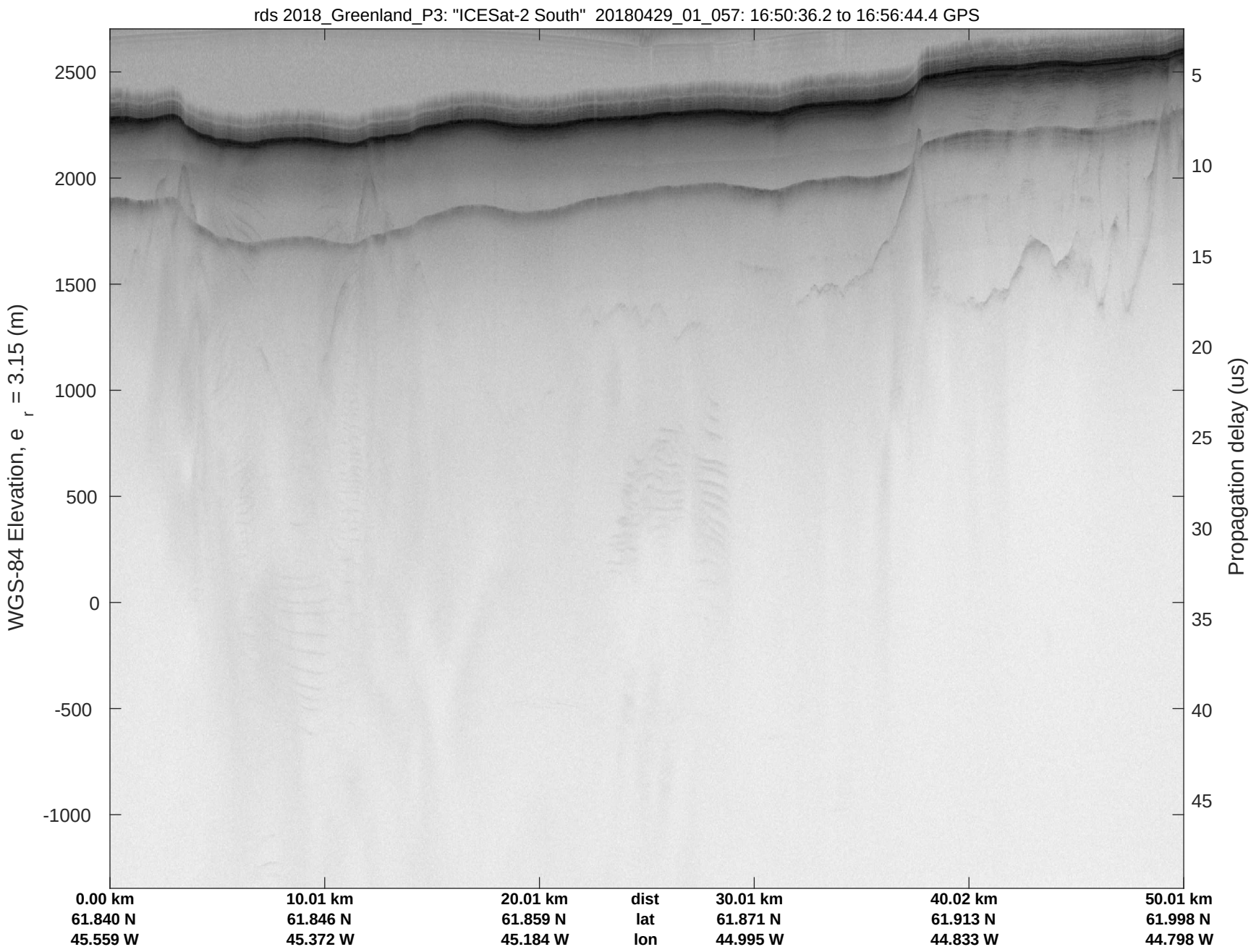

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_054: 16:32:58.5 to 16:38:49.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.099 N
46.146 W
10.00 km
63.009 N
46.125 W
20.01 km
62.920 N
46.103 W
dist
lat
lon
30.01 km
62.831 N
46.082 W
40.02 km
62.742 N
46.061 W
50.01 km
62.653 N
46.041 W

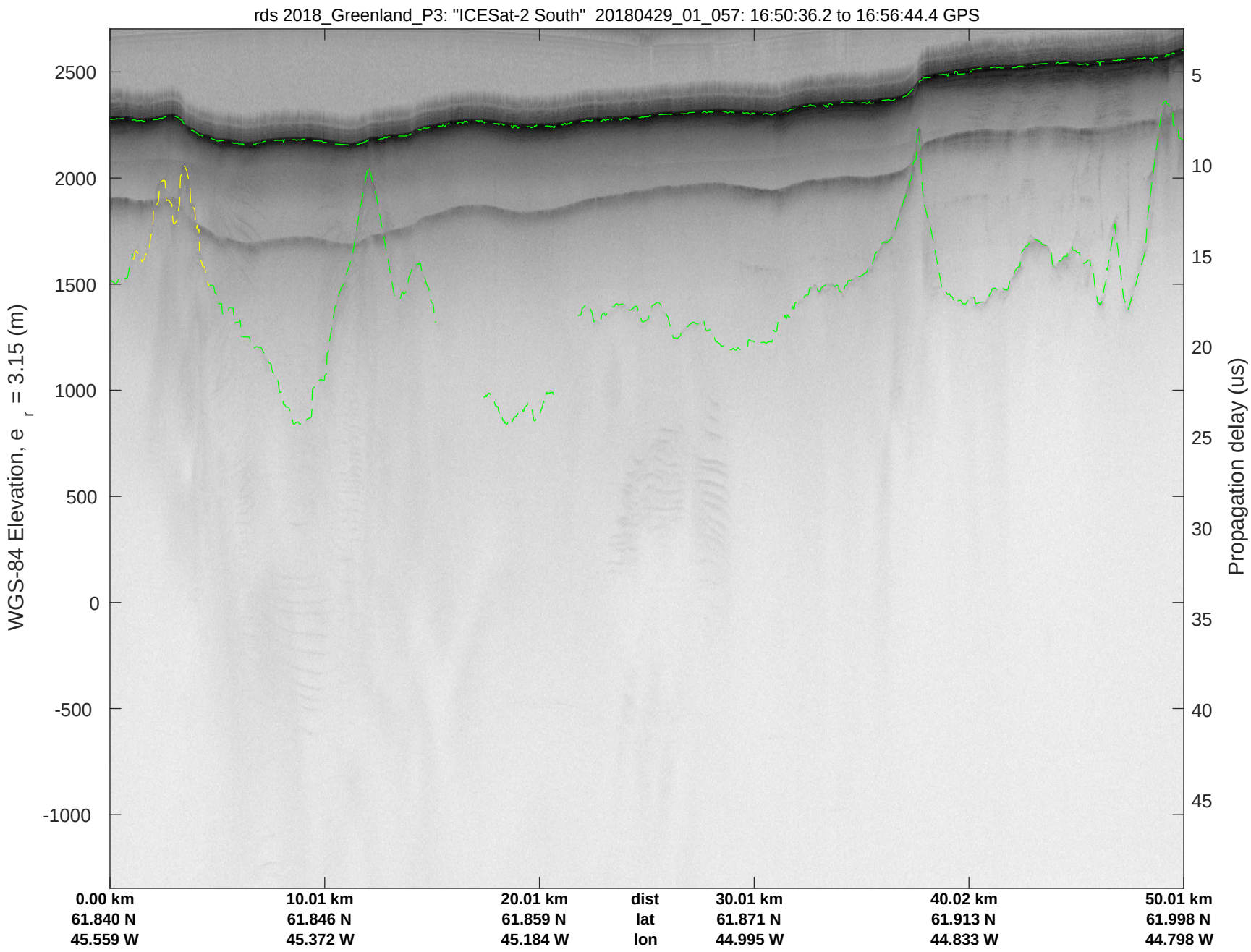

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_055: 16:38:49.2 to 16:44:42.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
62.653 N
46.041 W
10.00 km
62.563 N
46.020 W
20.01 km
62.474 N
45.999 W
dist
lat
lon
30.01 km
62.385 N
45.979 W
40.02 km
62.296 N
45.958 W
50.01 km
62.207 N
45.938 W

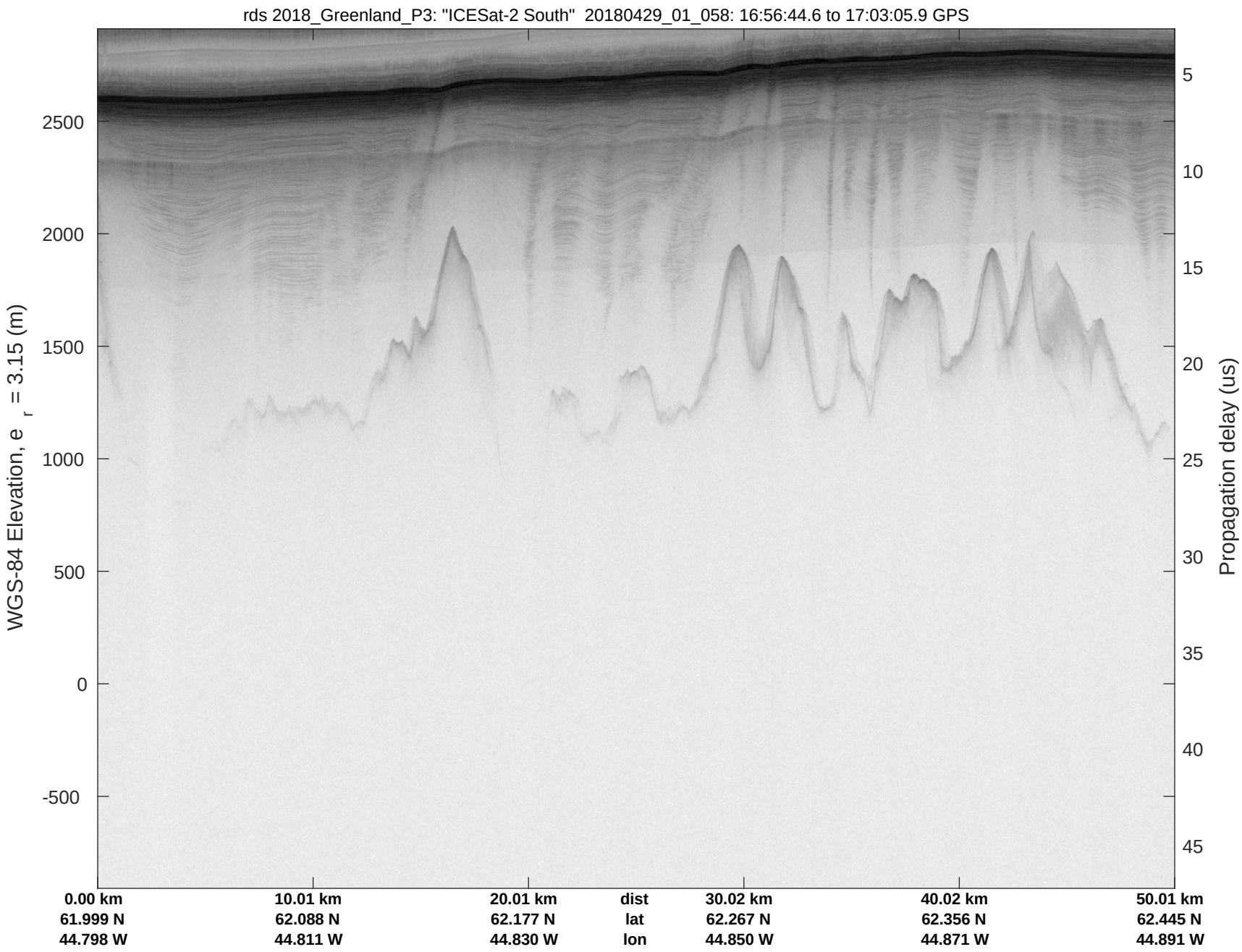

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_055: 16:38:49.2 to 16:44:42.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
62.653 N
46.041 W
10.00 km
62.563 N
46.020 W
20.01 km
62.474 N
45.999 W
dist
lat
lon
30.01 km
62.385 N
45.979 W
40.02 km
62.296 N
45.958 W
50.01 km
62.207 N
45.938 W

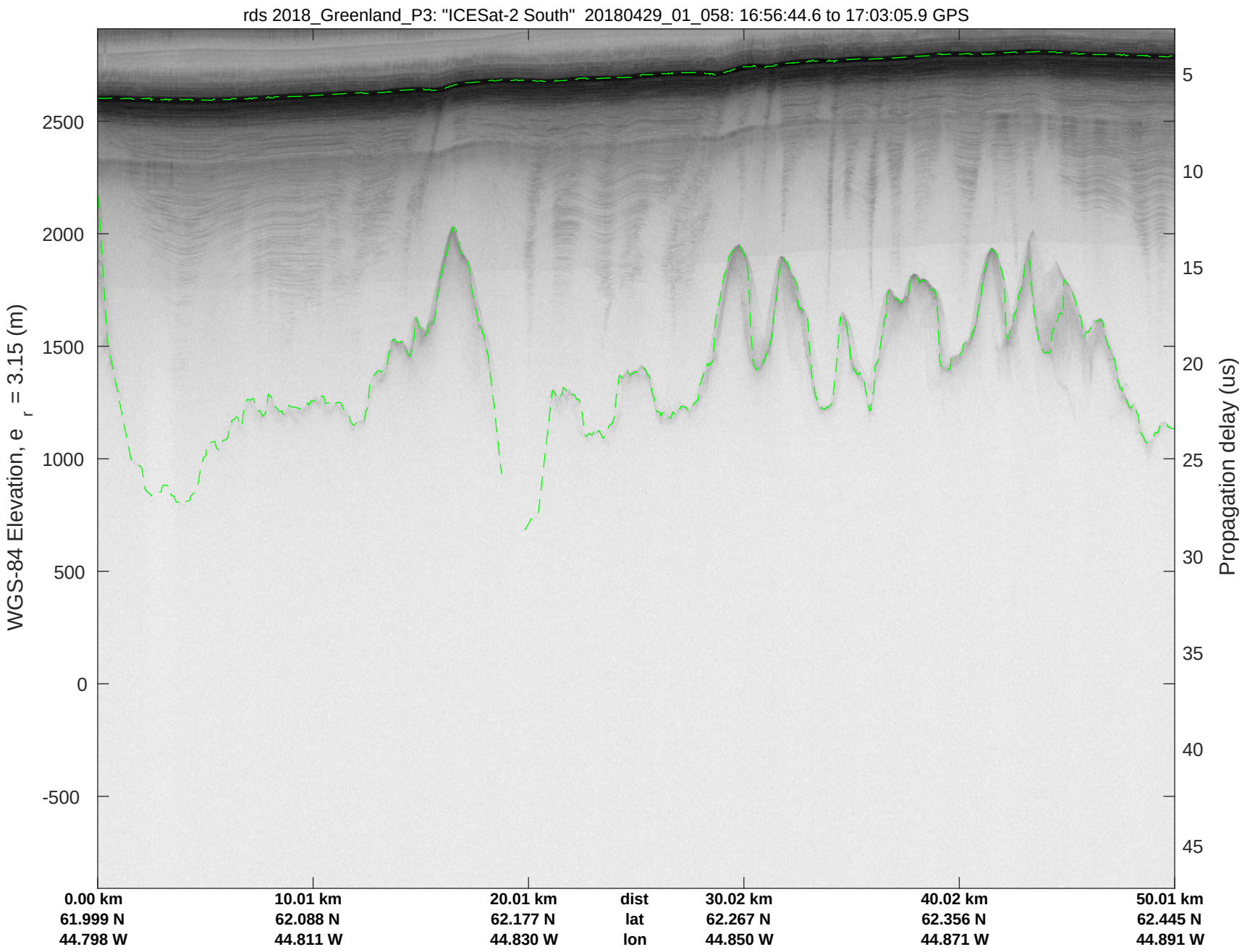

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_056: 16:44:42.2 to 16:50:36.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
62.207 N
45.938 W
10.00 km
62.117 N
45.917 W
20.01 km
62.028 N
45.897 W
dist
lat
lon
30.02 km
61.941 N
45.860 W
40.02 km
61.876 N
45.733 W
50.01 km
61.840 N
45.560 W

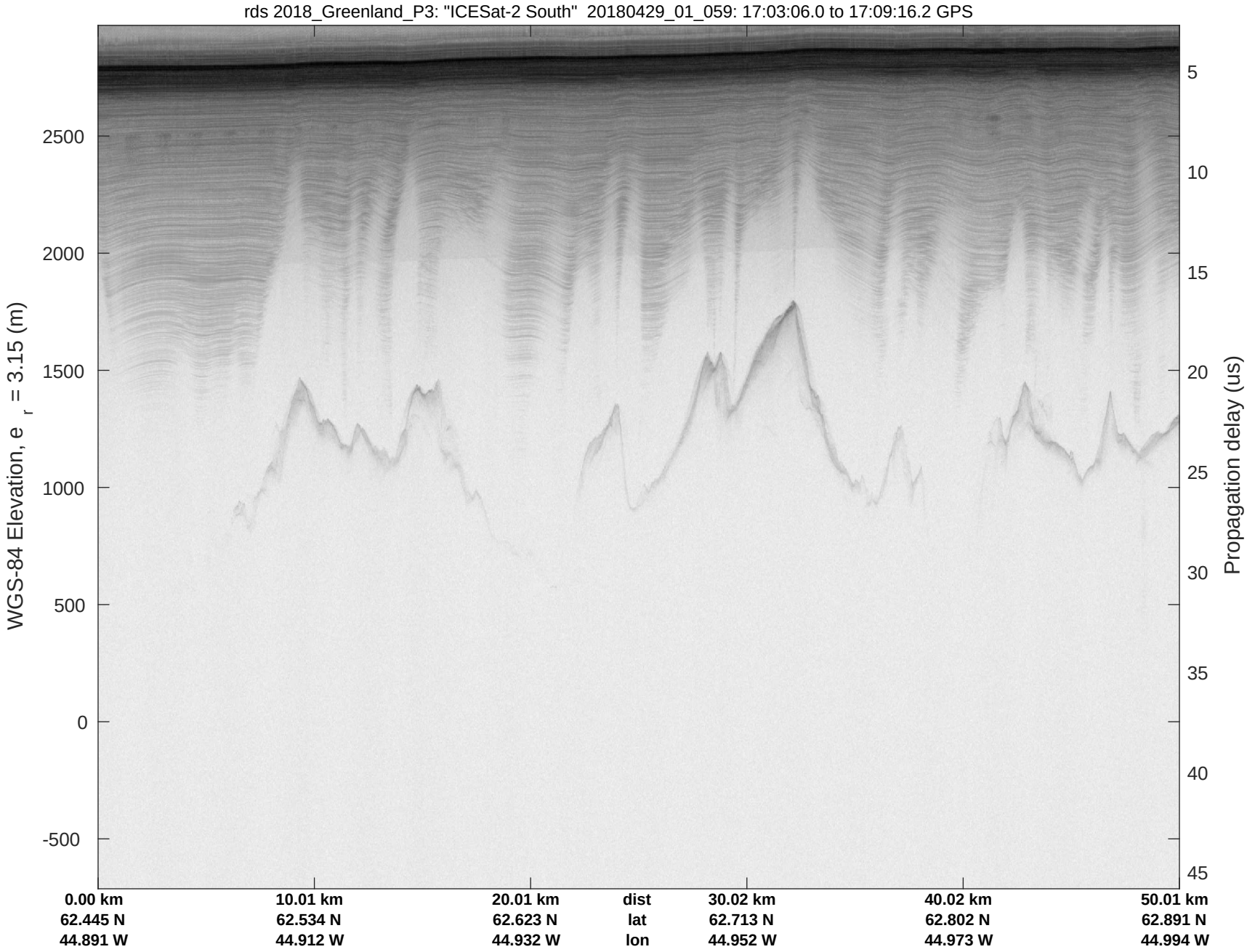

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_056: 16:44:42.2 to 16:50:36.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
62.207 N
45.938 W
10.00 km
62.117 N
45.917 W
20.01 km
62.028 N
45.897 W
dist
lat
lon
30.02 km
61.941 N
45.860 W
40.02 km
61.876 N
45.733 W
50.01 km
61.840 N
45.560 W

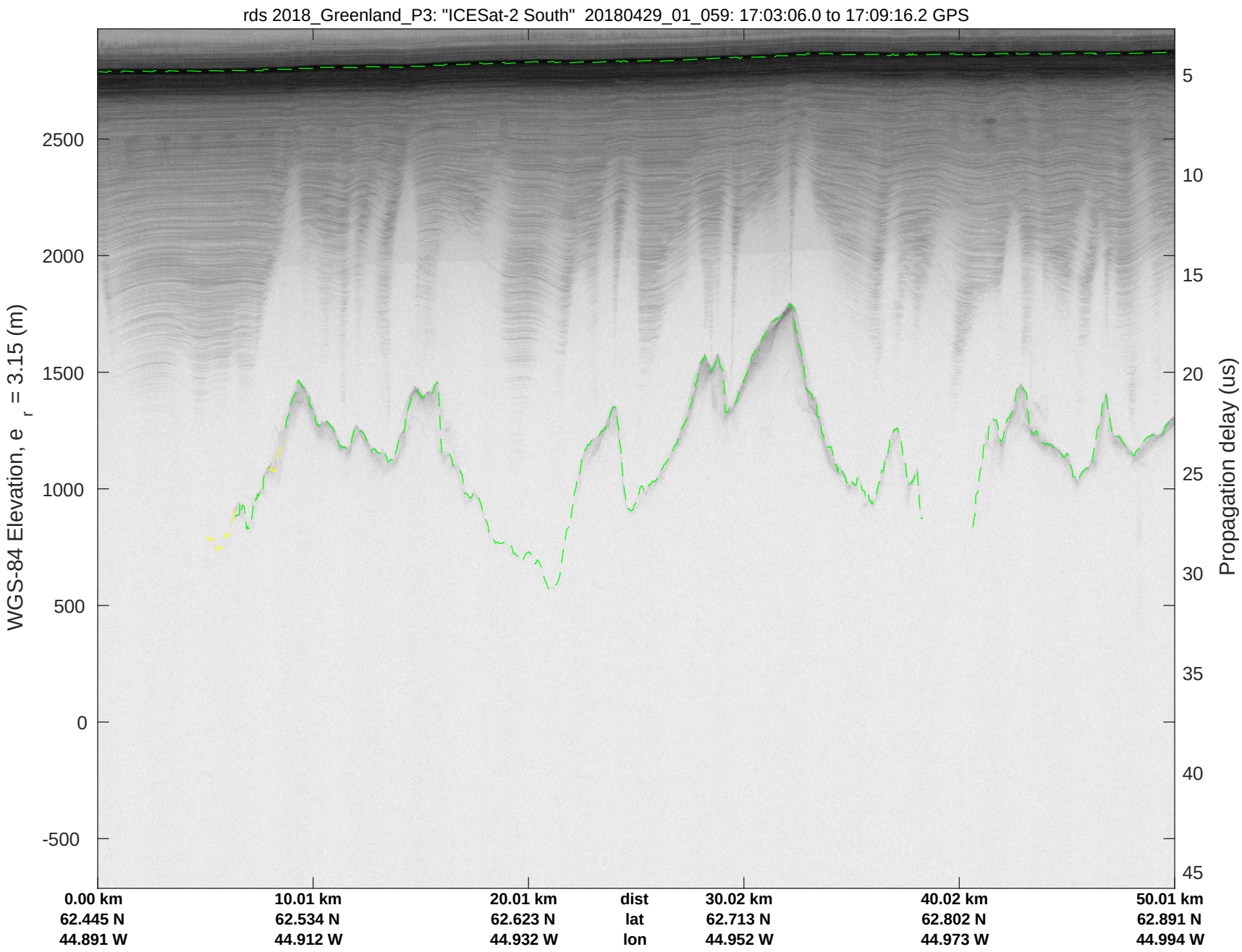

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_057: 16:50:36.2 to 16:56:44.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
61.840 N
45.559 W
10.01 km
61.846 N
45.372 W
20.01 km
61.859 N
45.184 W
dist
lat
lon
30.01 km
61.871 N
44.995 W
40.02 km
61.913 N
44.833 W
50.01 km
61.998 N
44.798 W

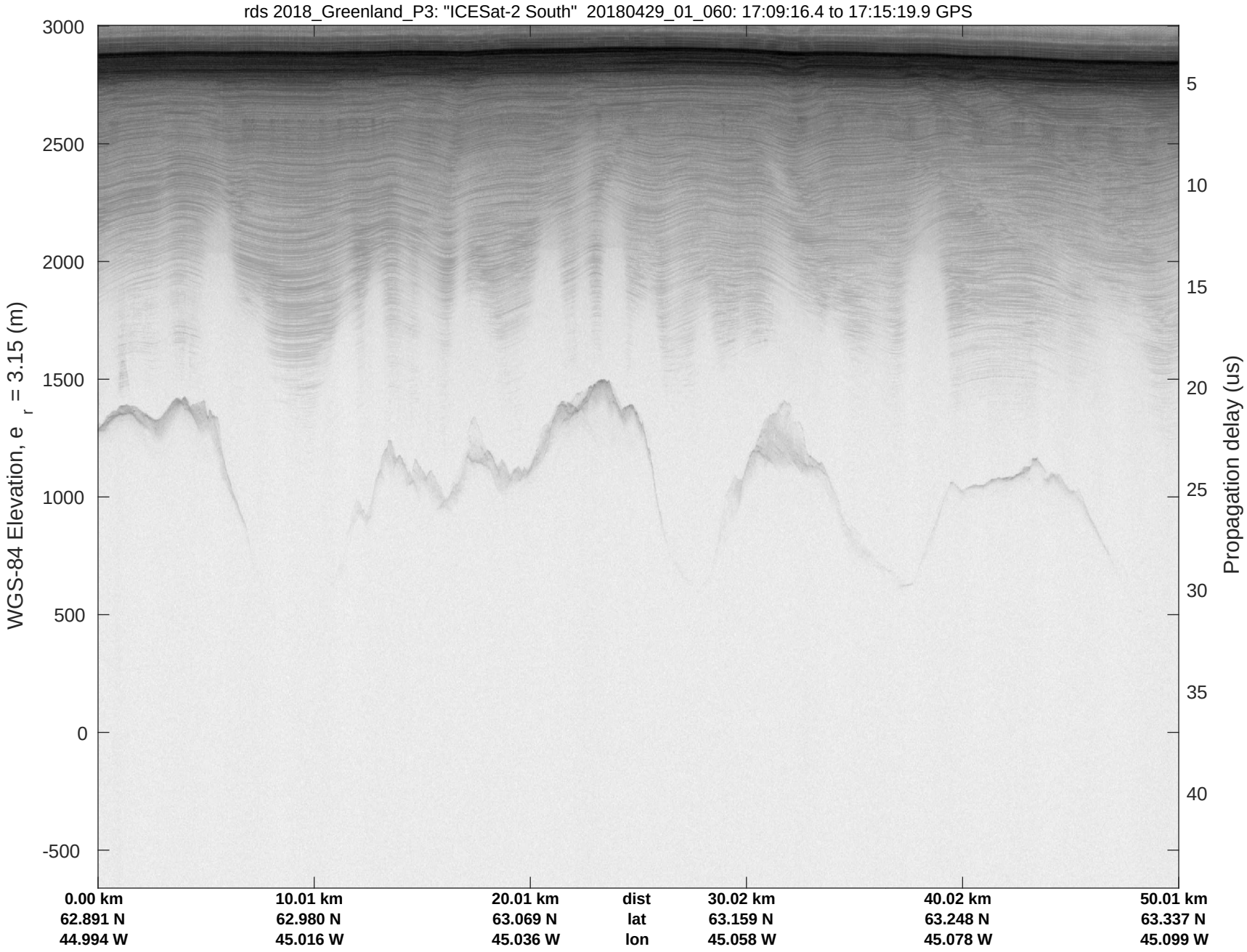

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_057: 16:50:36.2 to 16:56:44.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
45
0.00 km
61.840 N
45.559 W
10.01 km
61.846 N
45.372 W
20.01 km
61.859 N
45.184 W
dist
lat
lon
30.01 km
61.871 N
44.995 W
40.02 km
61.913 N
44.833 W
50.01 km
61.998 N
44.798 W

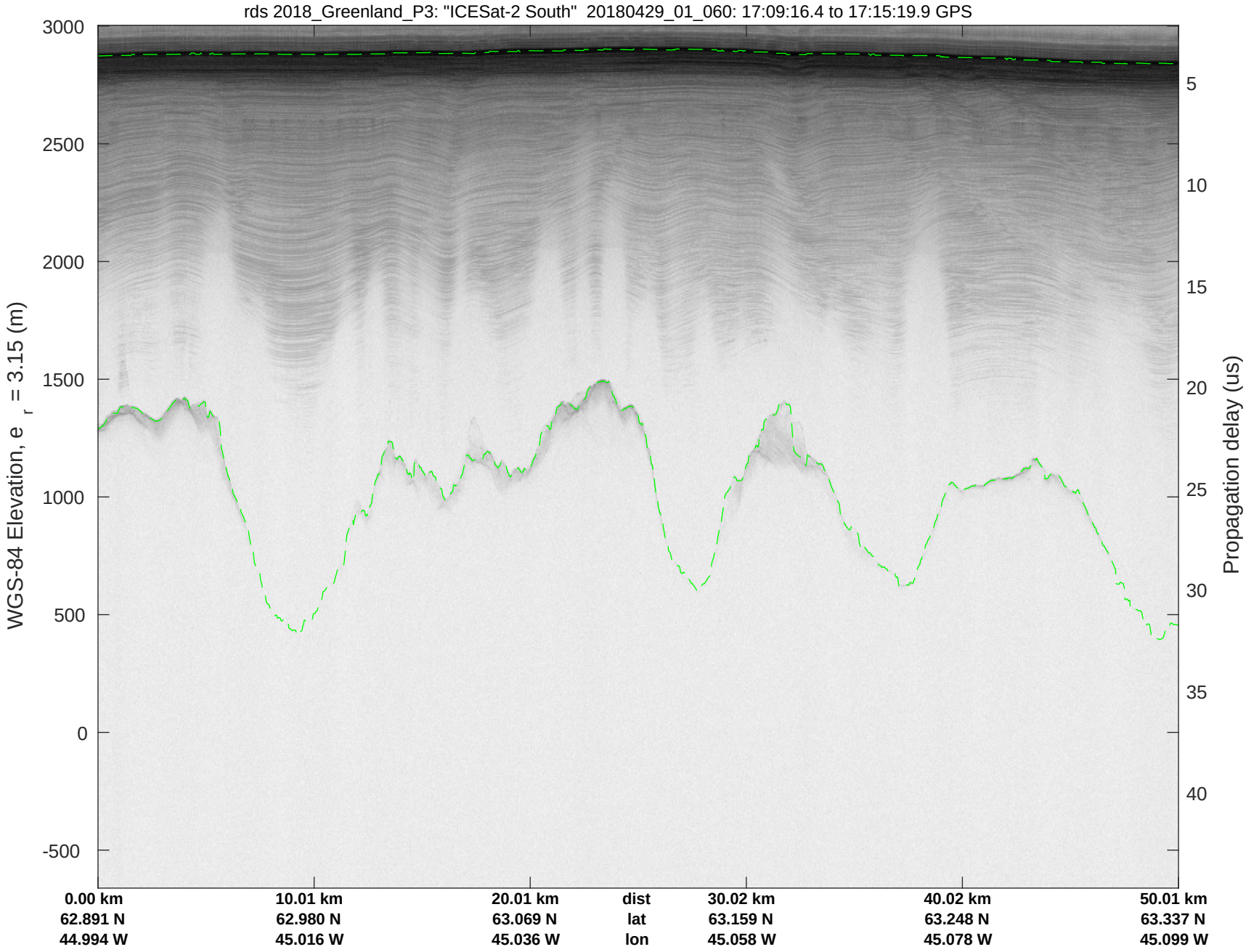

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_058: 16:56:44.6 to 17:03:05.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
61.999 N
44.798 W
10.01 km
62.088 N
44.811 W
20.01 km
62.177 N
44.830 W
dist
lat
lon
30.02 km
62.267 N
44.850 W
40.02 km
62.356 N
44.871 W
50.01 km
62.445 N
44.891 W

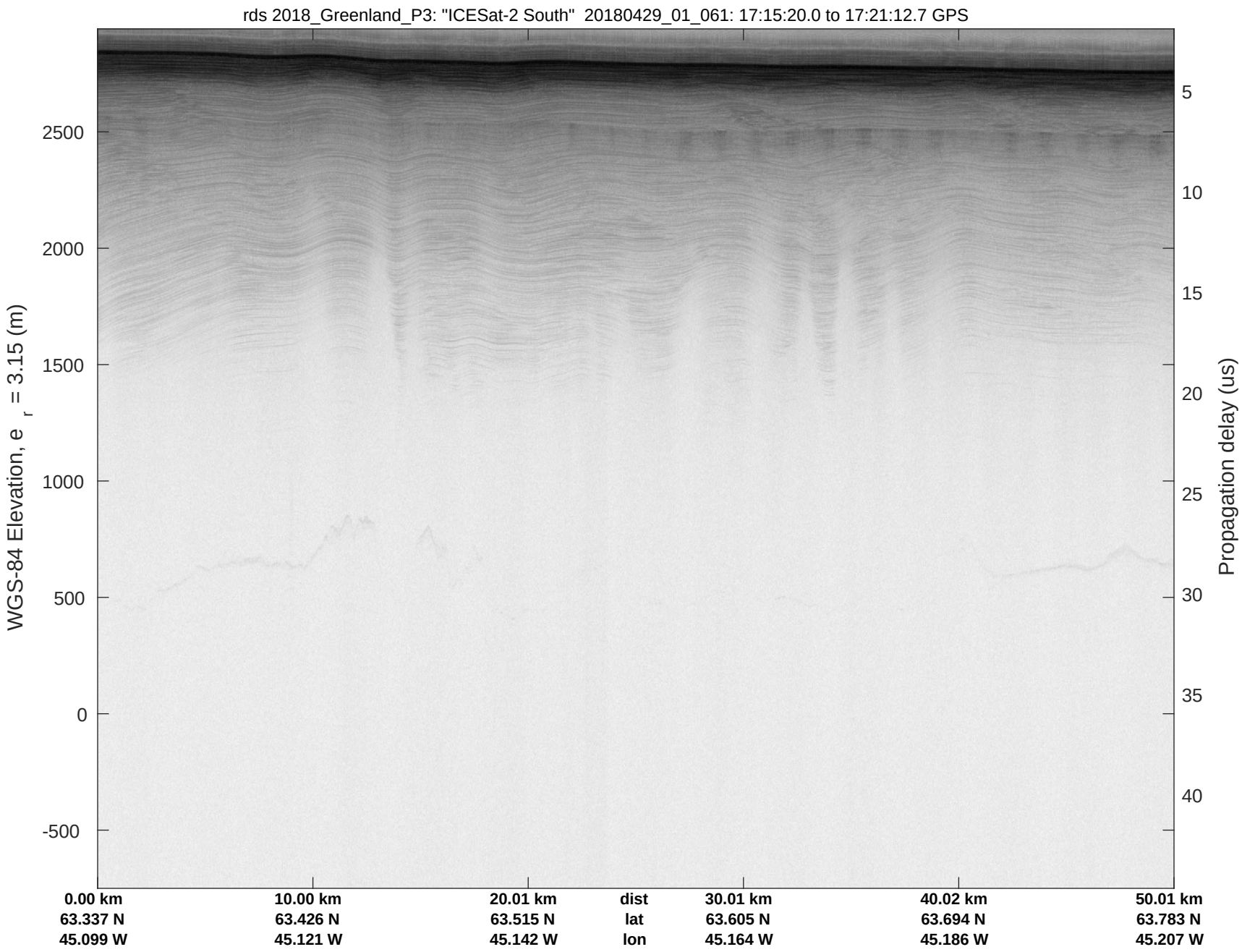

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_058: 16:56:44.6 to 17:03:05.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
61.999 N
44.798 W
10.01 km
62.088 N
44.811 W
20.01 km
62.177 N
44.830 W
dist
lat
lon
30.02 km
62.267 N
44.850 W
40.02 km
62.356 N
44.871 W
50.01 km
62.445 N
44.891 W

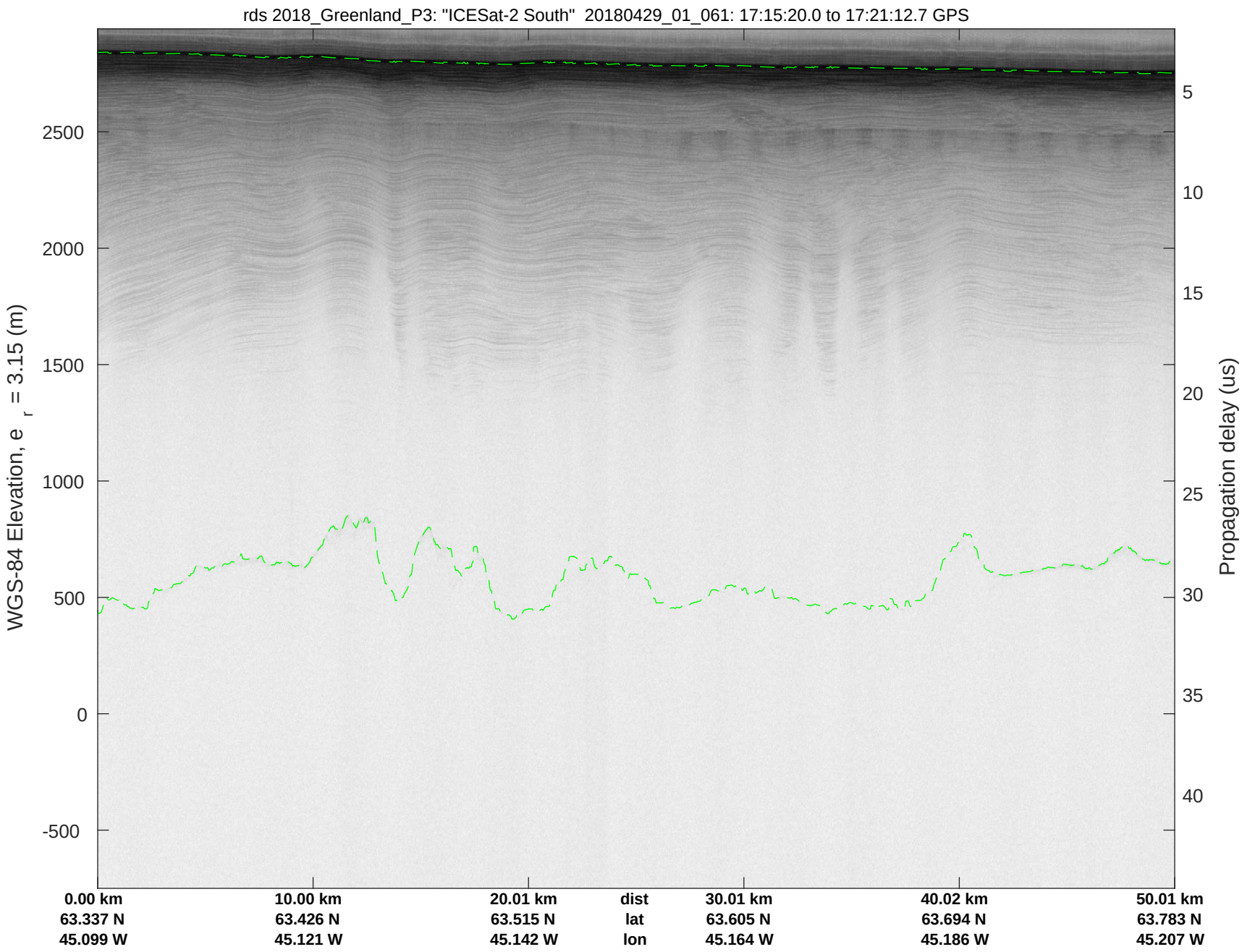

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_059: 17:03:06.0 to 17:09:16.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
62.445 N
44.891 W
10.01 km
62.534 N
44.912 W
20.01 km
62.623 N
44.932 W
dist
lat
lon
30.02 km
62.713 N
44.952 W
40.02 km
62.802 N
44.973 W
50.01 km
62.891 N
44.994 W

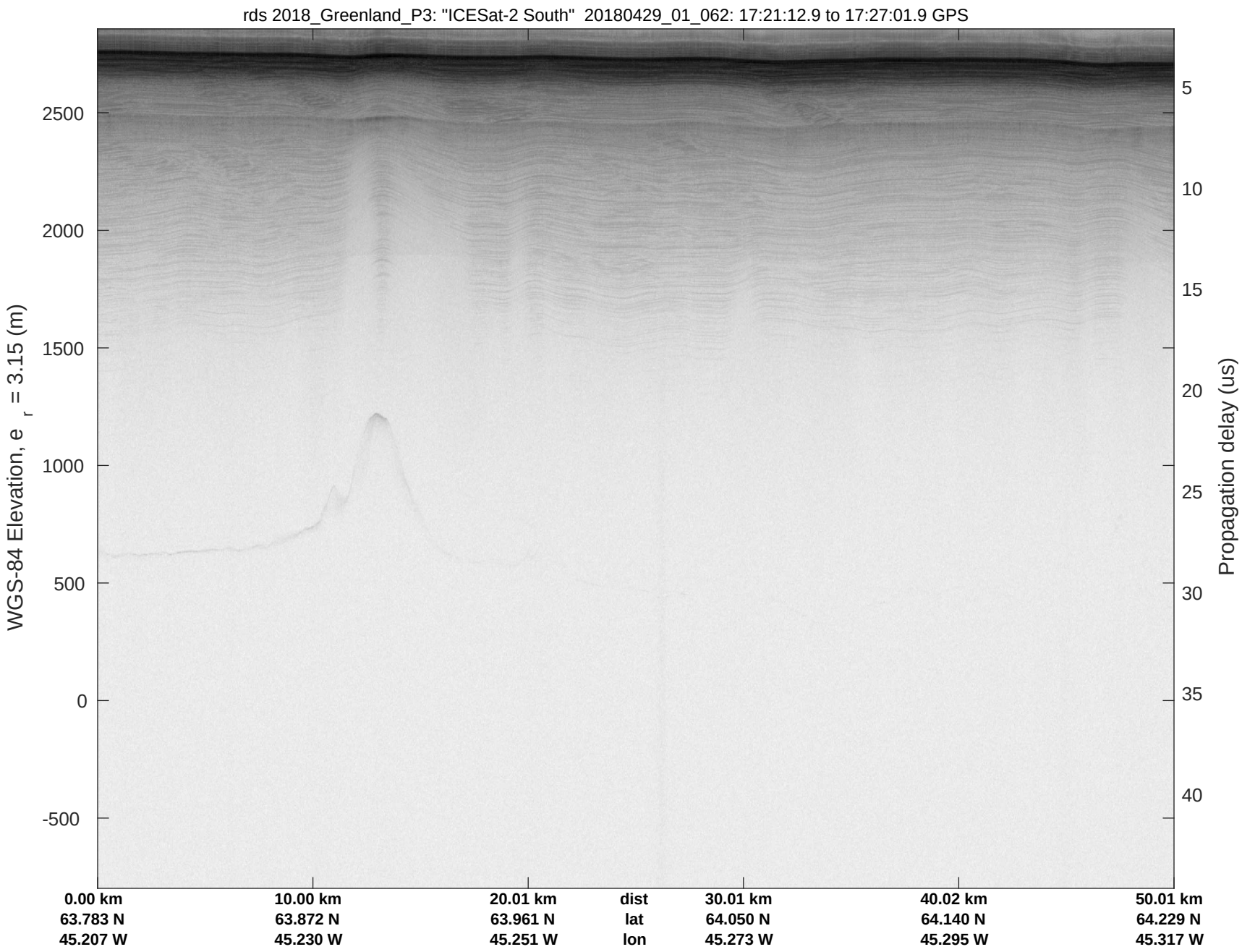

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_059: 17:03:06.0 to 17:09:16.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
45
0.00 km
62.445 N
44.891 W
10.01 km
62.534 N
44.912 W
20.01 km
62.623 N
44.932 W
dist
lat
lon
30.02 km
62.713 N
44.952 W
40.02 km
62.802 N
44.973 W
50.01 km
62.891 N
44.994 W

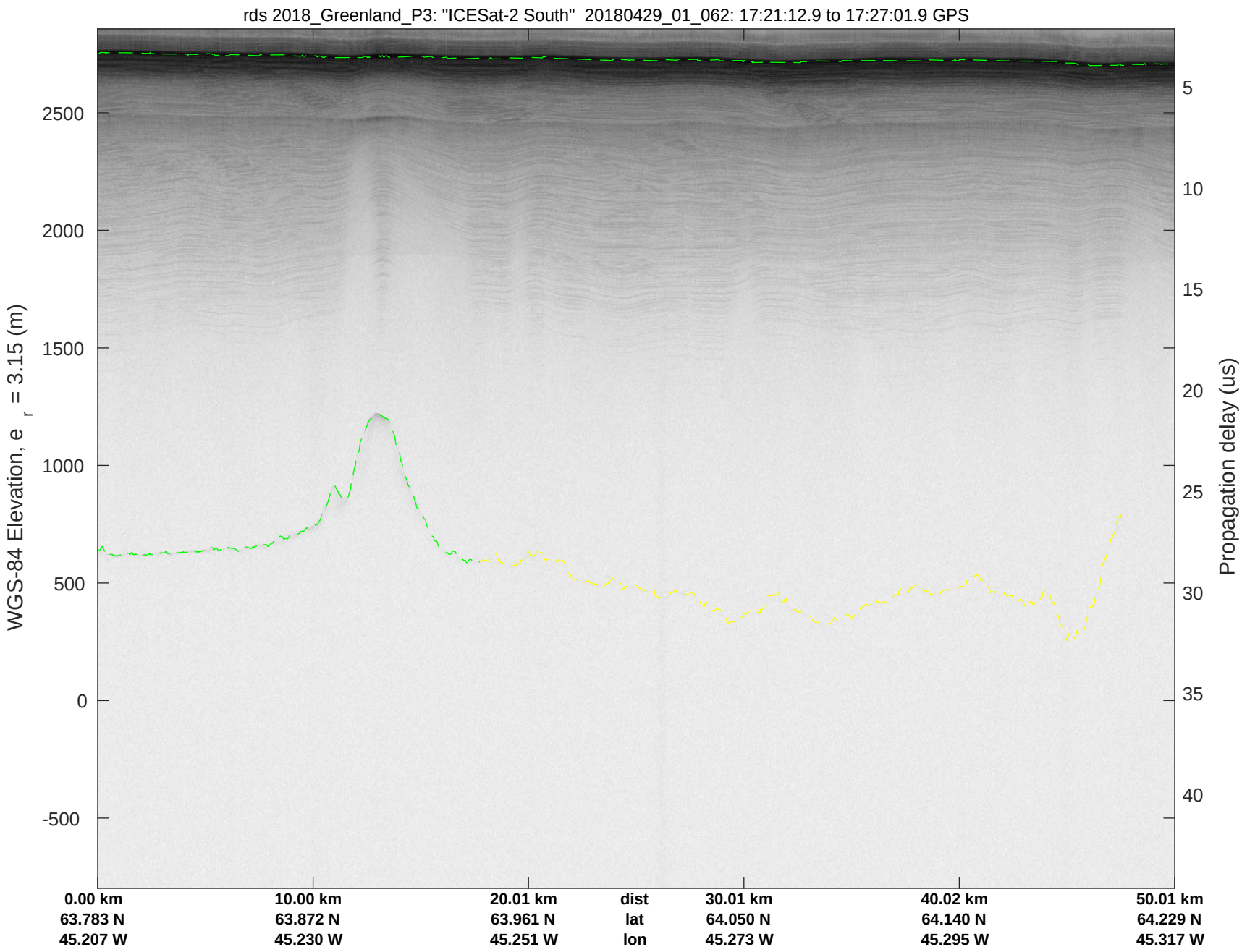

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_060: 17:09:16.4 to 17:15:19.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
3000
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
0.00 km
62.891 N
44.994 W
10.01 km
62.980 N
45.016 W
20.01 km
63.069 N
45.036 W
dist
lat
lon
30.02 km
63.159 N
45.058 W
40.02 km
63.248 N
45.078 W
50.01 km
63.337 N
45.099 W

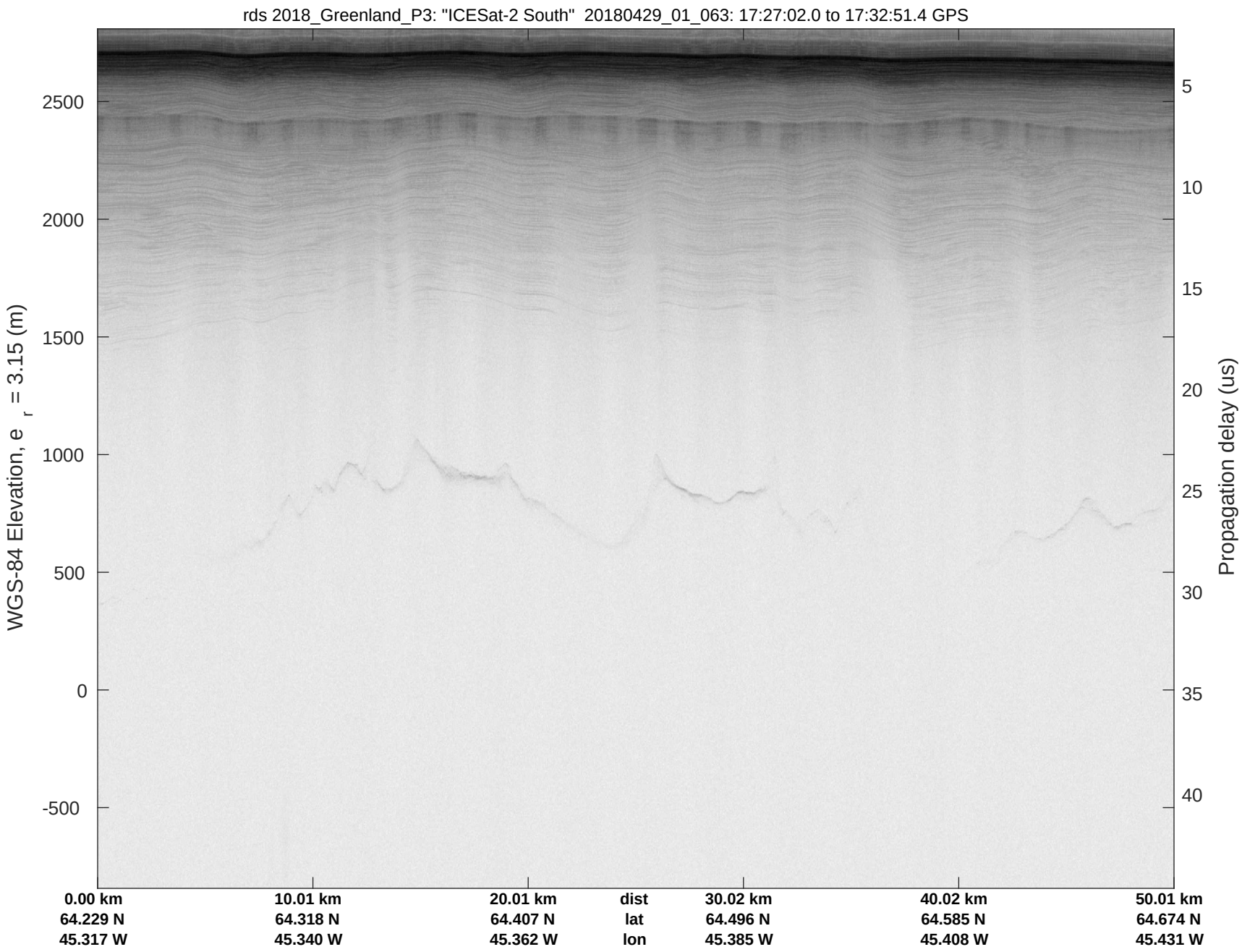

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_060: 17:09:16.4 to 17:15:19.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
3000
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
0.00 km
62.891 N
44.994 W
10.01 km
62.980 N
45.016 W
20.01 km
63.069 N
45.036 W
dist
lat
lon
30.02 km
63.159 N
45.058 W
40.02 km
63.248 N
45.078 W
50.01 km
63.337 N
45.099 W

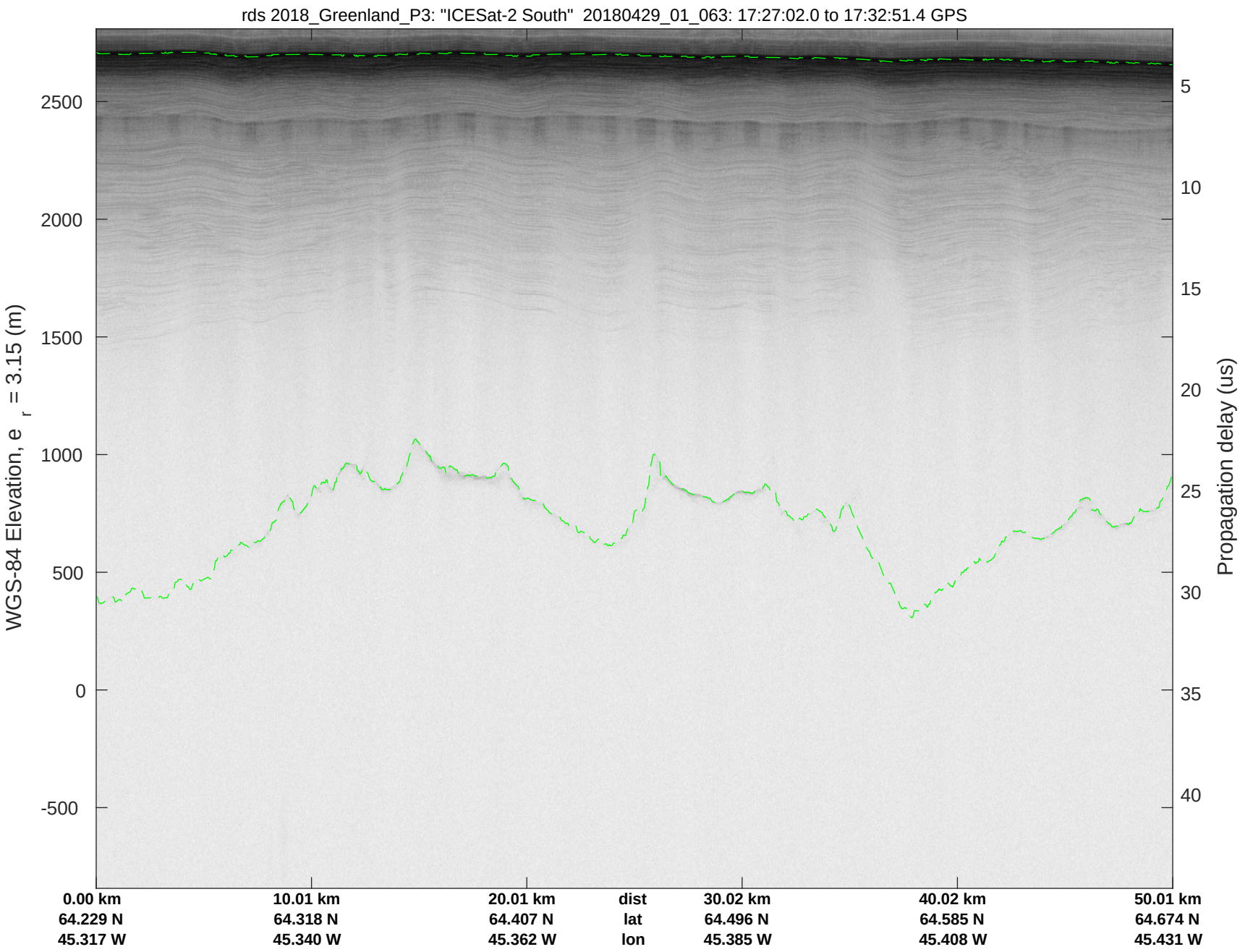

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_061: 17:15:20.0 to 17:21:12.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.337 N
45.099 W
10.00 km
63.426 N
45.121 W
20.01 km
63.515 N
45.142 W
dist
lat
lon
30.01 km
63.605 N
45.164 W
40.02 km
63.694 N
45.186 W
50.01 km
63.783 N
45.207 W

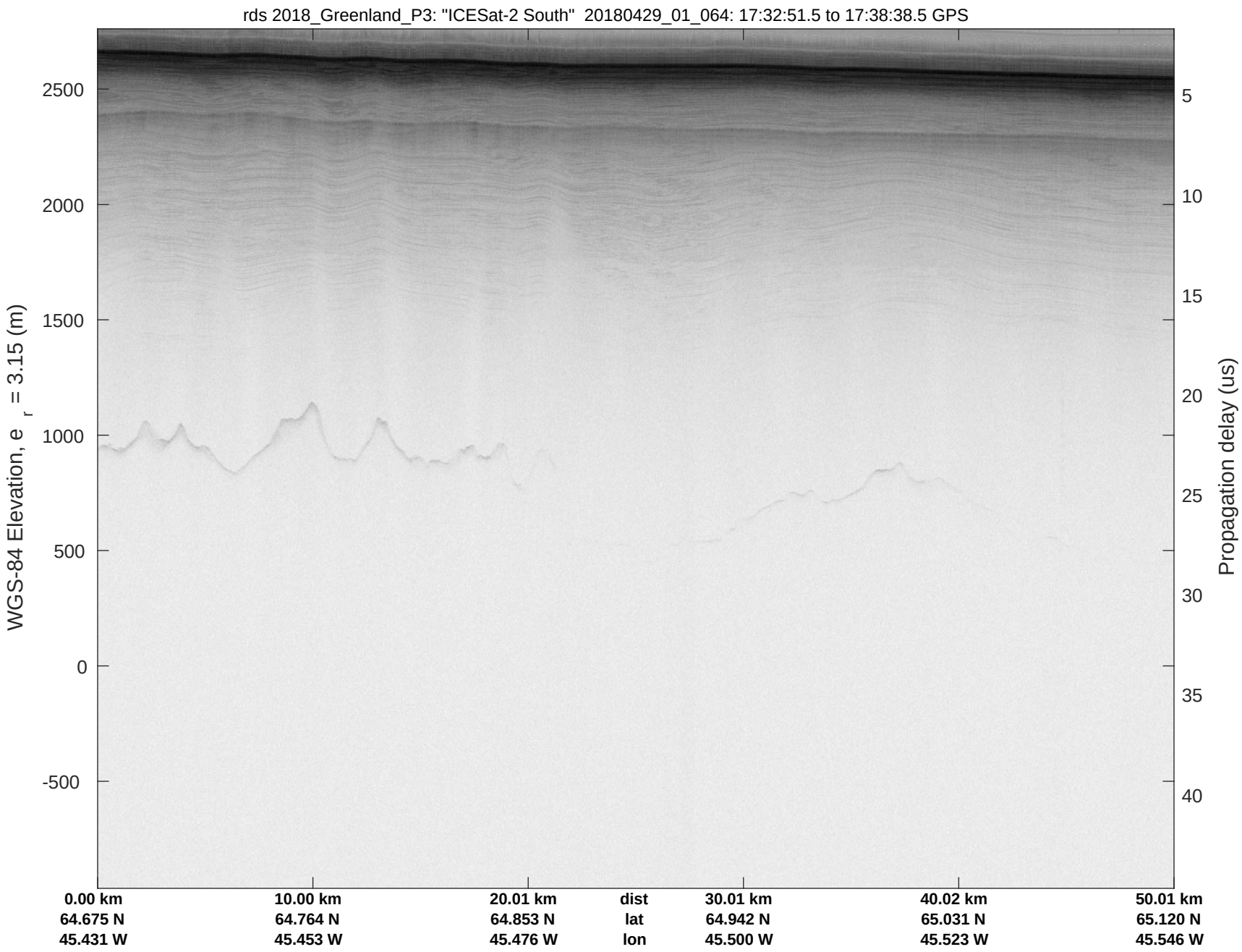

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_061: 17:15:20.0 to 17:21:12.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.337 N
45.099 W
10.00 km
63.426 N
45.121 W
20.01 km
63.515 N
45.142 W
dist
lat
lon
30.01 km
63.605 N
45.164 W
40.02 km
63.694 N
45.186 W
50.01 km
63.783 N
45.207 W

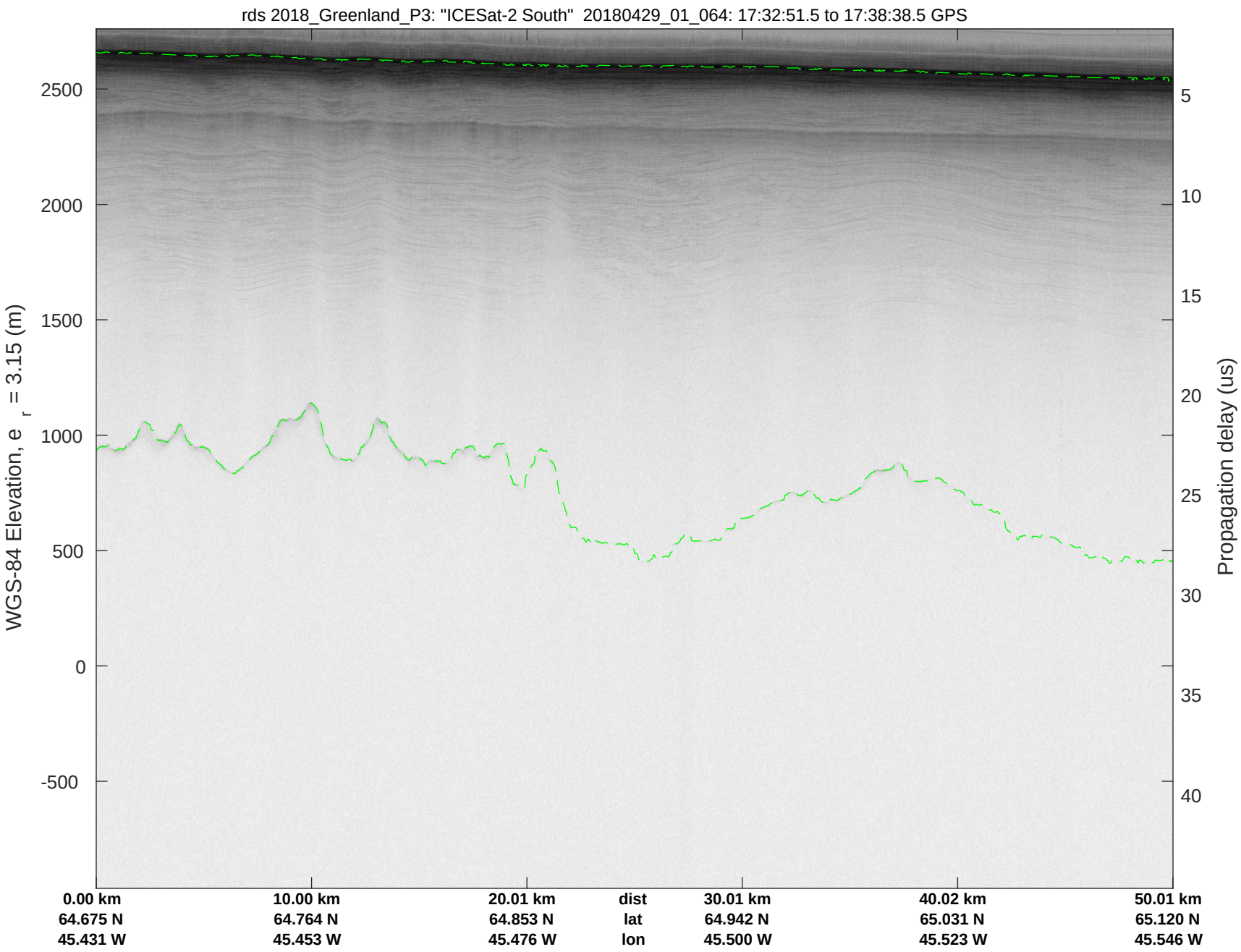

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_062: 17:21:12.9 to 17:27:01.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
63.783 N
45.207 W
10.00 km
63.872 N
45.230 W
20.01 km
63.961 N
45.251 W
dist
lat
lon
30.01 km
64.050 N
45.273 W
40.02 km
64.140 N
45.295 W
50.01 km
64.229 N
45.317 W

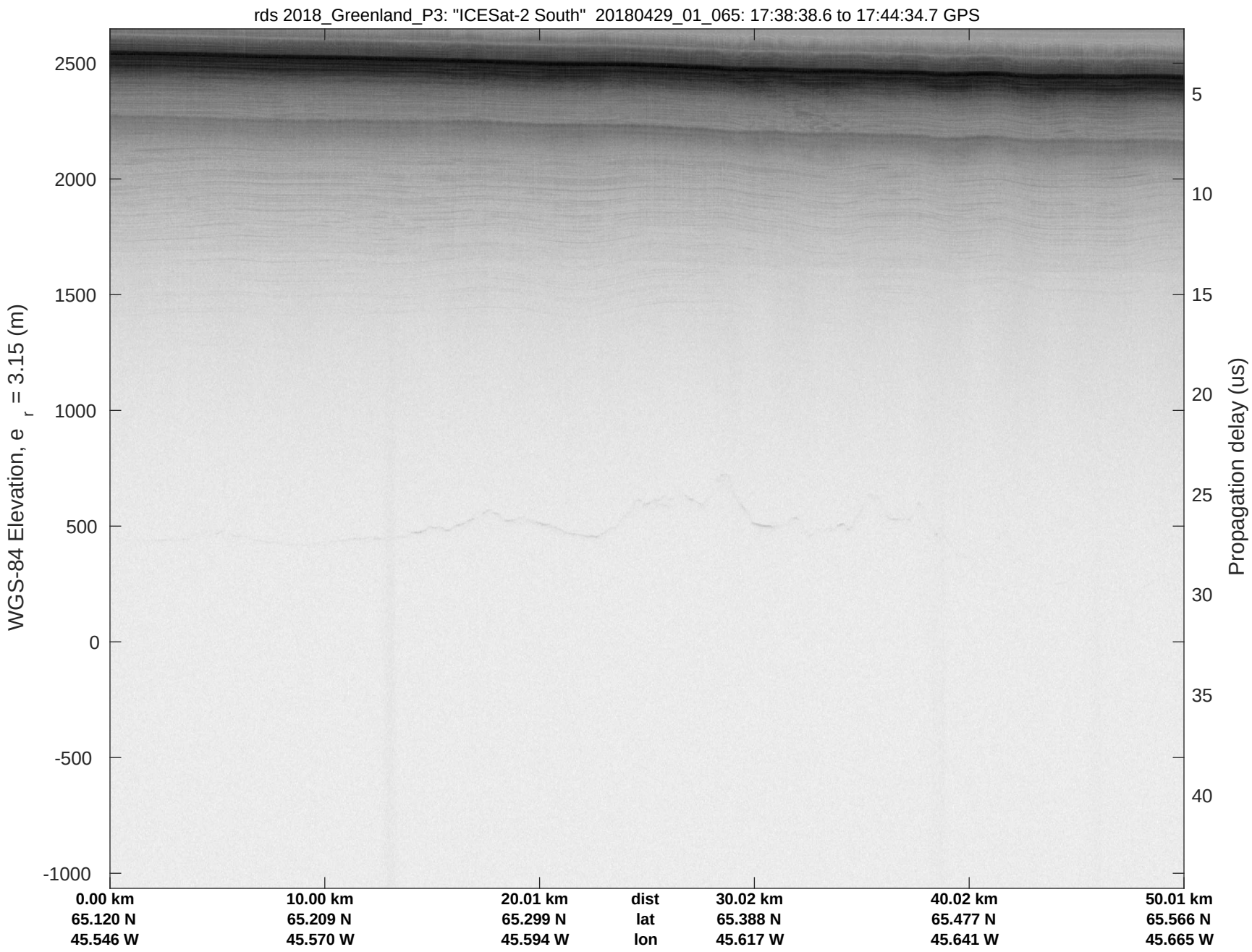

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_062: 17:21:12.9 to 17:27:01.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
0.00 km
63.783 N
45.207 W
10.00 km
63.872 N
45.230 W
20.01 km
63.961 N
45.251 W
dist
lat
lon
30.01 km
64.050 N
45.273 W
40.02 km
64.140 N
45.295 W
50.01 km
64.229 N
45.317 W

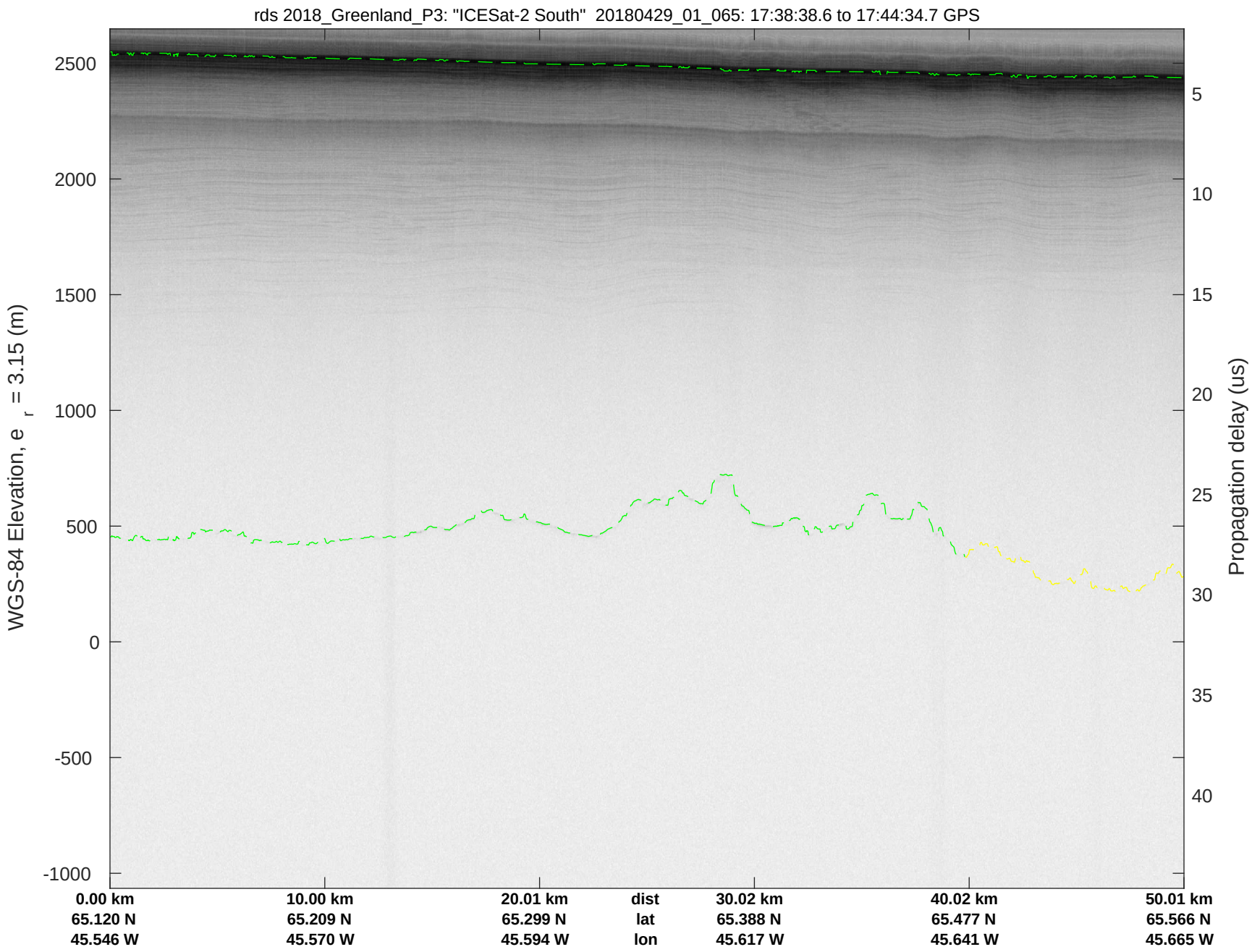

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_063: 17:27:02.0 to 17:32:51.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.229 N
45.317 W
10.01 km
64.318 N
45.340 W
20.01 km
64.407 N
45.362 W
dist
lat
lon
30.02 km
64.496 N
45.385 W
40.02 km
64.585 N
45.408 W
50.01 km
64.674 N
45.431 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_063: 17:27:02.0 to 17:32:51.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
5
10
15
20
25
30
35
40
0.00 km
64.229 N
45.317 W
10.01 km
64.318 N
45.340 W
20.01 km
64.407 N
45.362 W
dist
lat
lon
30.02 km
64.496 N
45.385 W
40.02 km
64.585 N
45.408 W
50.01 km
64.674 N
45.431 W

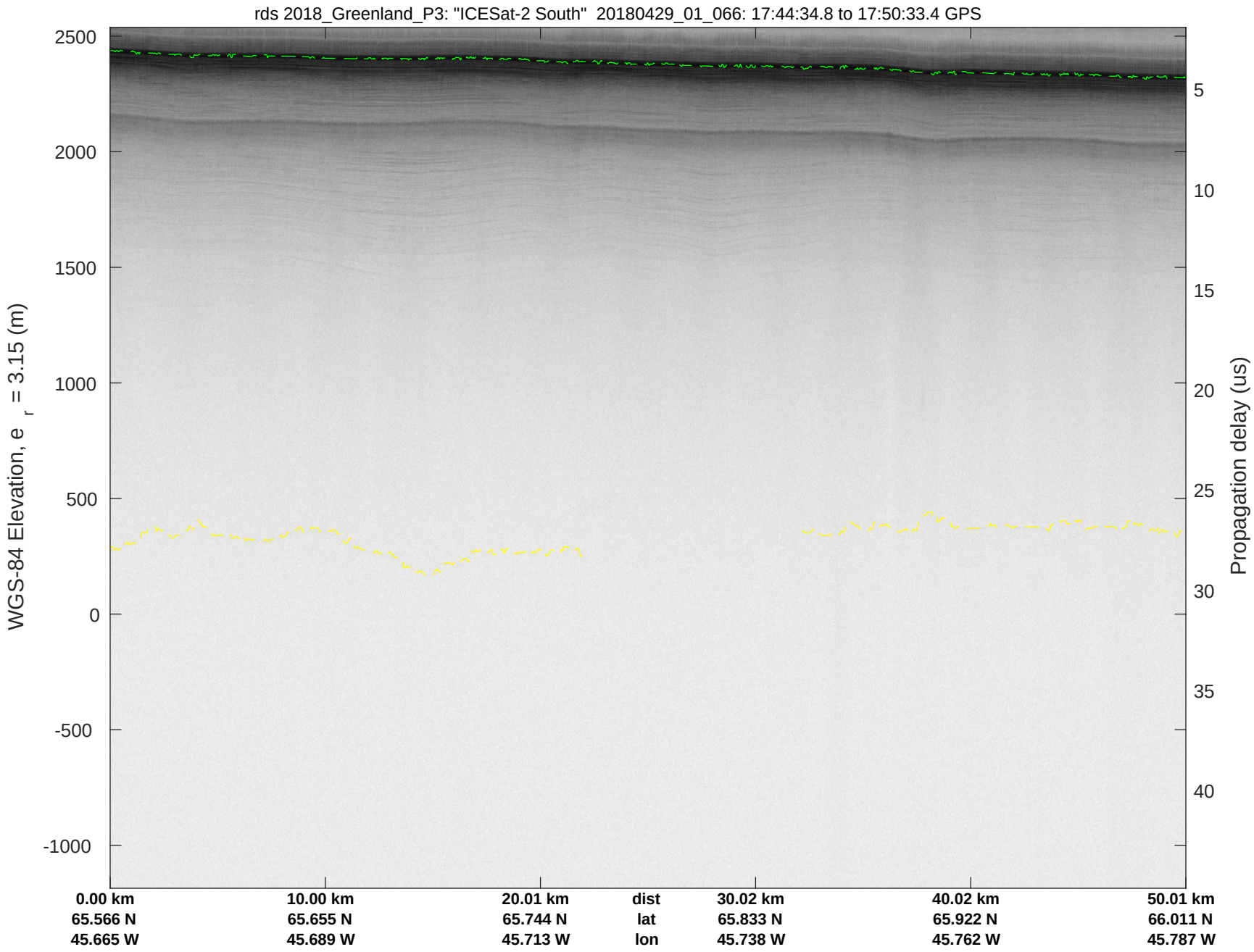

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_064: 17:32:51.5 to 17:38:38.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.675 N
45.431 W
10.00 km
64.764 N
45.453 W
20.01 km
64.853 N
45.476 W
dist
lat
lon
30.01 km
64.942 N
45.500 W
40.02 km
65.031 N
45.523 W
50.01 km
65.120 N
45.546 W

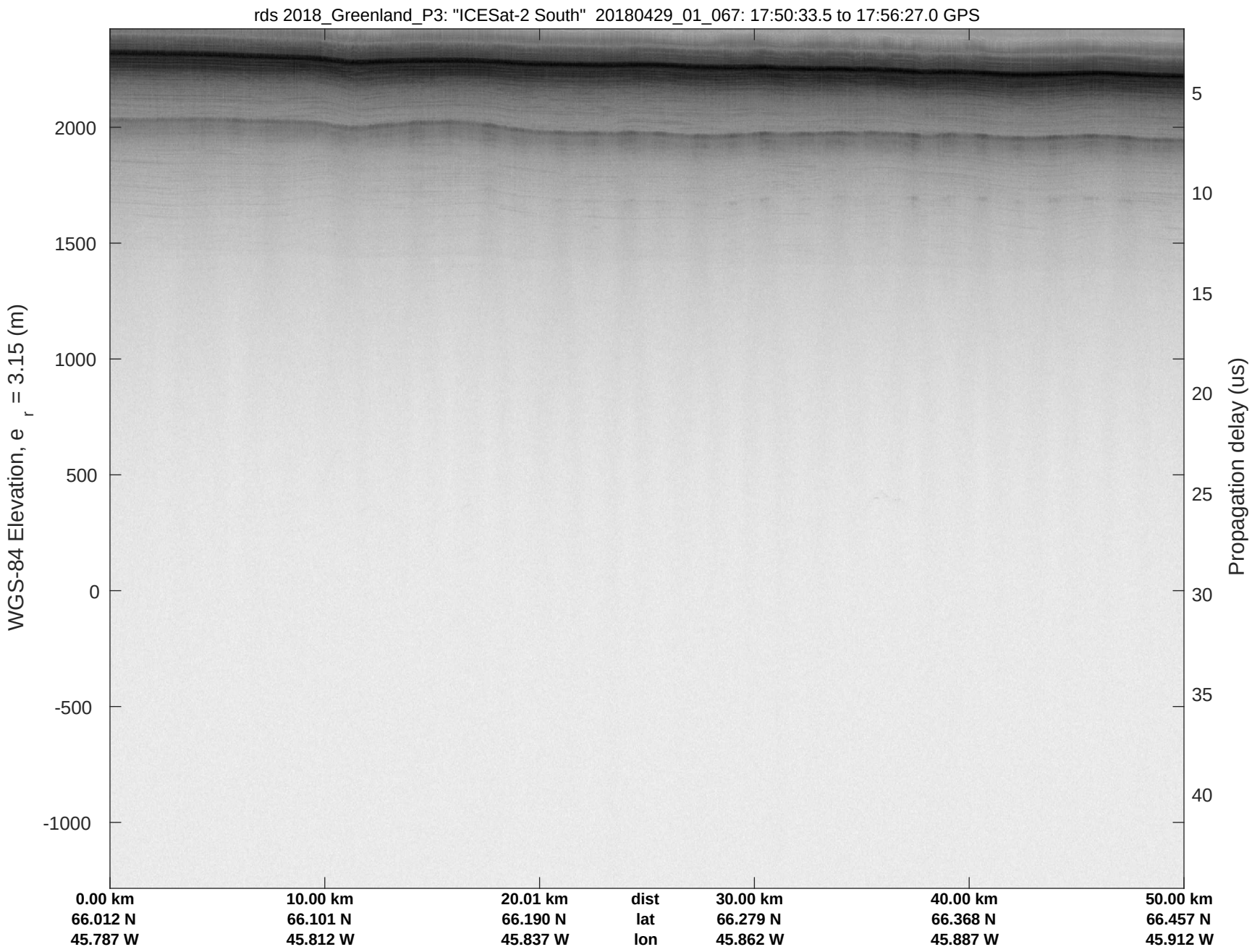

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_064: 17:32:51.5 to 17:38:38.5 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
64.675 N
45.431 W
10.00 km
64.764 N
45.453 W
20.01 km
64.853 N
45.476 W
dist
lat
lon
30.01 km
64.942 N
45.500 W
40.02 km
65.031 N
45.523 W
50.01 km
65.120 N
45.546 W

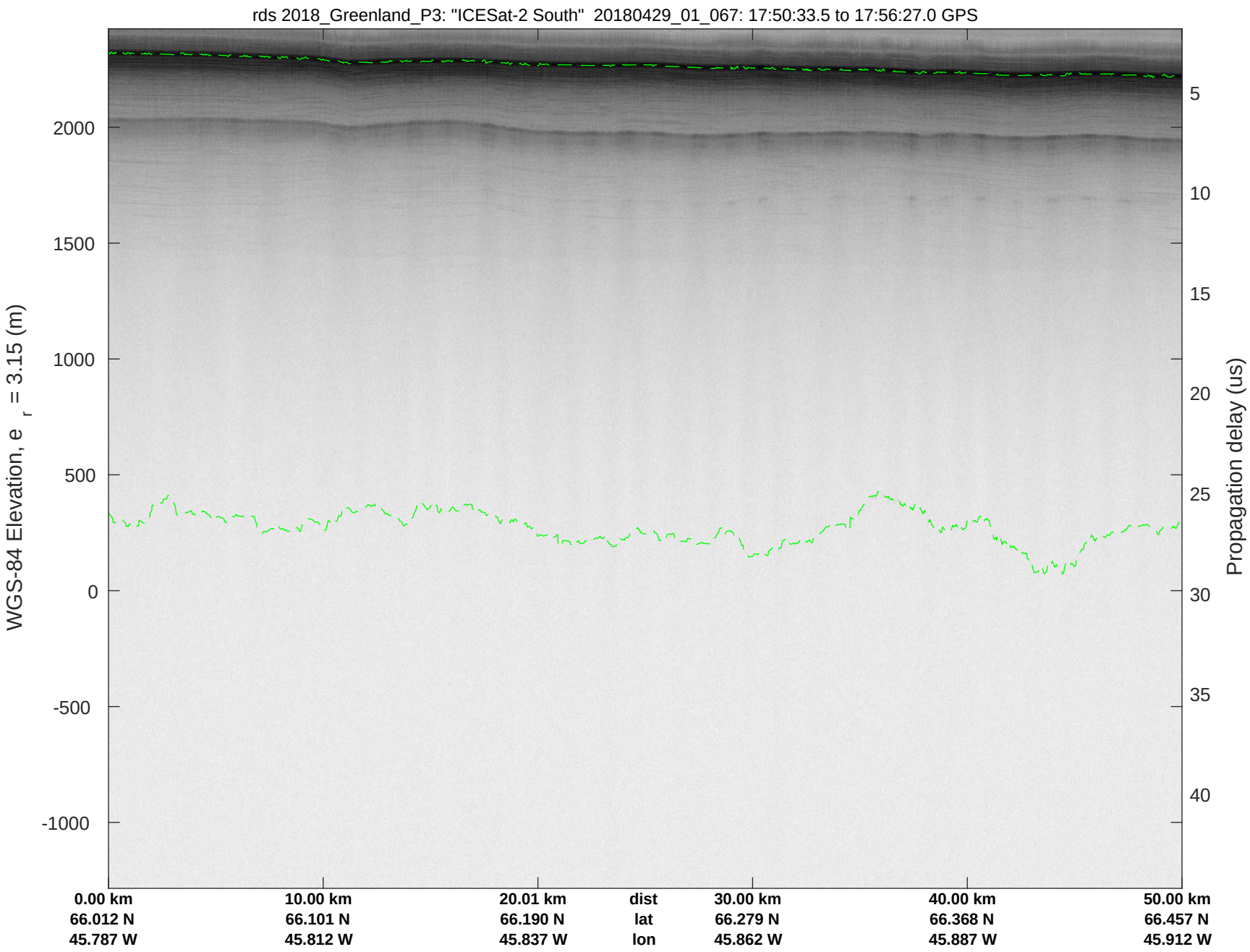

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_065: 17:38:38.6 to 17:44:34.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
2500
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
65.120 N
45.546 W
10.00 km
65.209 N
45.570 W
20.01 km
65.299 N
45.594 W
dist
lat
lon
30.02 km
65.388 N
45.617 W
40.02 km
65.477 N
45.641 W
50.01 km
65.566 N
45.665 W

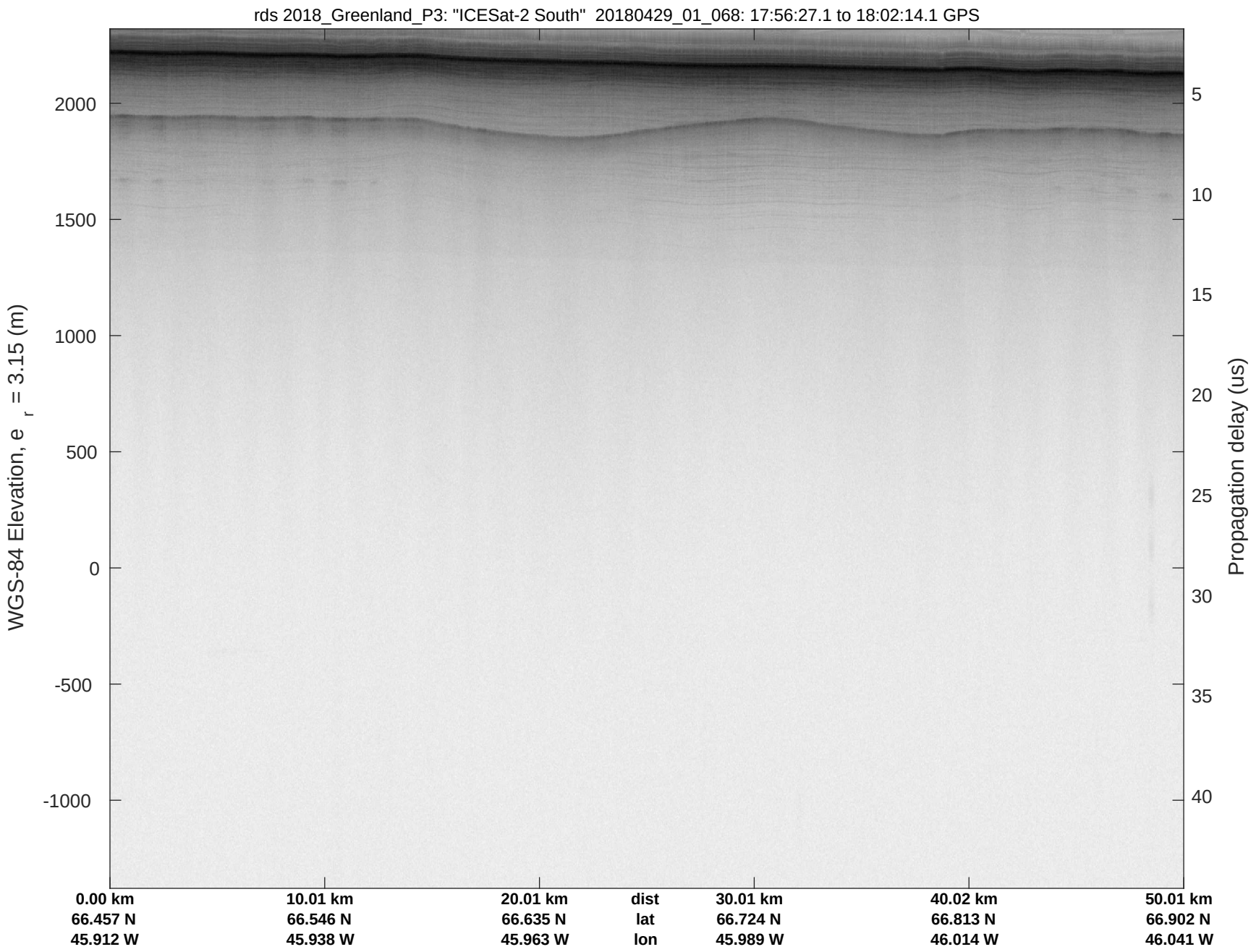

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_065: 17:38:38.6 to 17:44:34.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.120 N
45.546 W
10.00 km
65.209 N
45.570 W
20.01 km
65.299 N
45.594 W
dist
lat
lon
30.02 km
65.388 N
45.617 W
40.02 km
65.477 N
45.641 W
50.01 km
65.566 N
45.665 W

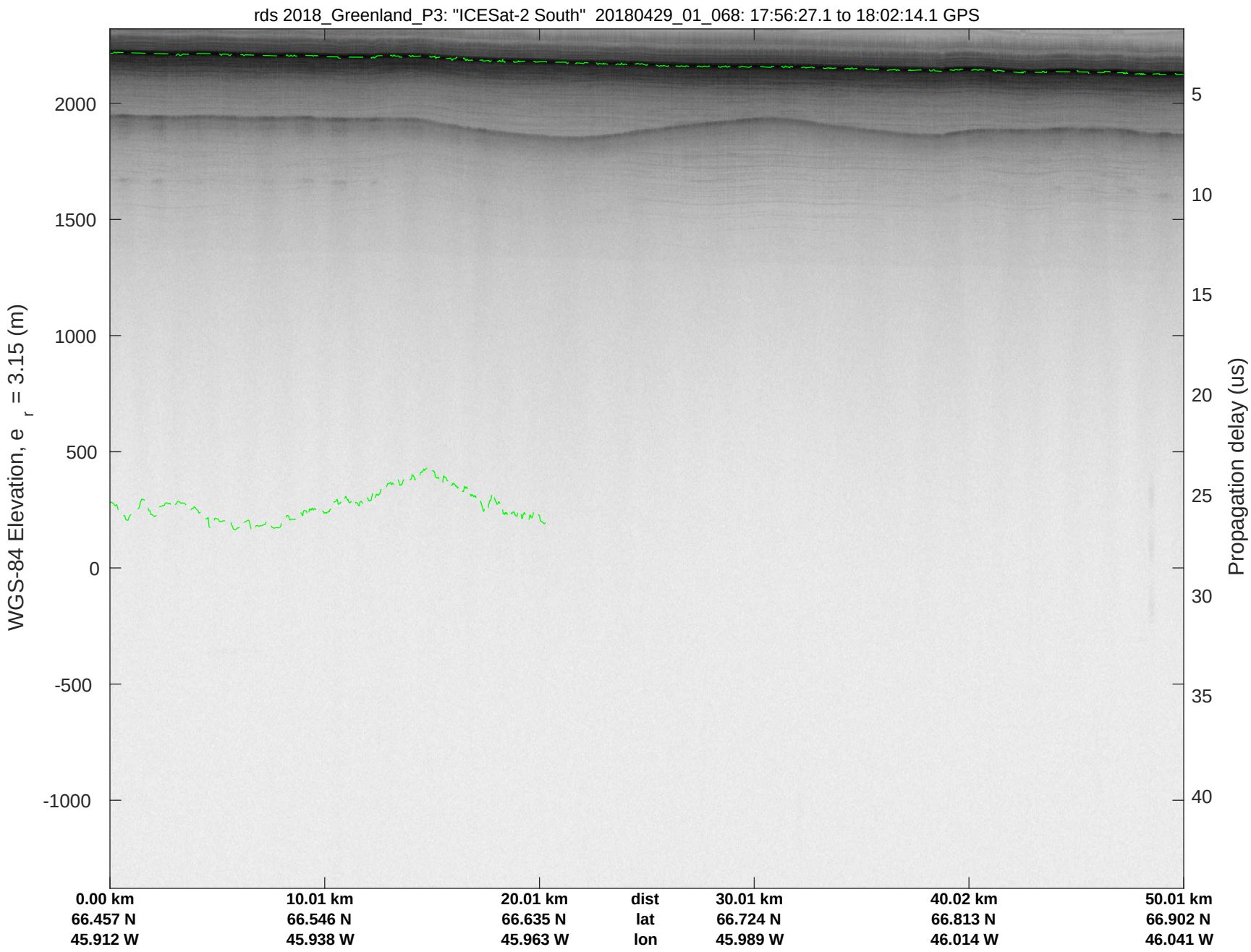
rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_066: 17:44:34.8 to 17:50:33.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.566 N
45.665 W
10.00 km
65.655 N
45.689 W
20.01 km
65.744 N
45.713 W
dist
lat
lon
30.02 km
65.833 N
45.738 W
40.02 km
65.922 N
45.762 W
50.01 km
66.011 N
45.787 W

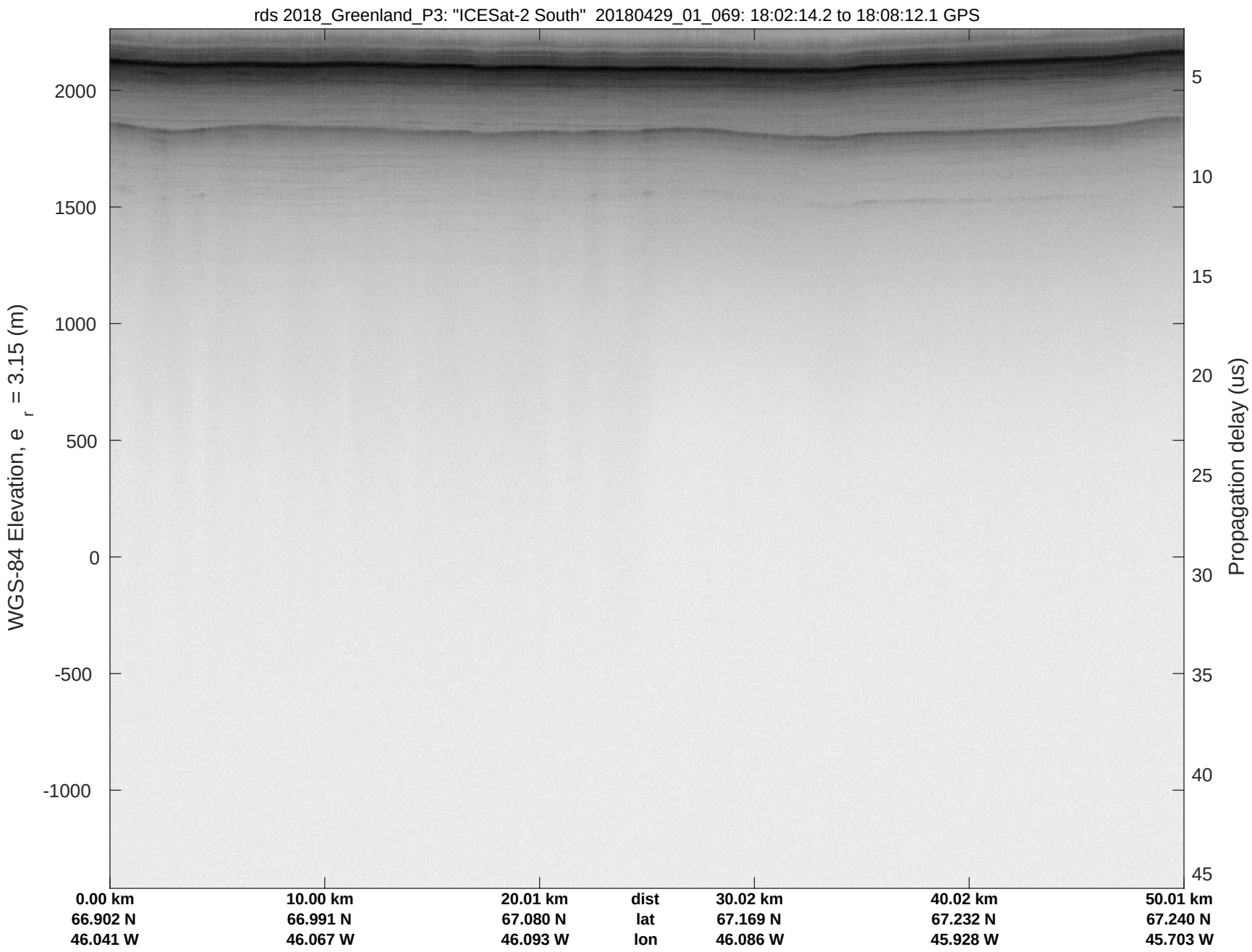

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_066: 17:44:34.8 to 17:50:33.4 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2500
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
65.566 N
45.665 W
10.00 km
65.655 N
45.689 W
20.01 km
65.744 N
45.713 W
dist
lat
lon
30.02 km
65.833 N
45.738 W
40.02 km
65.922 N
45.762 W
50.01 km
66.011 N
45.787 W

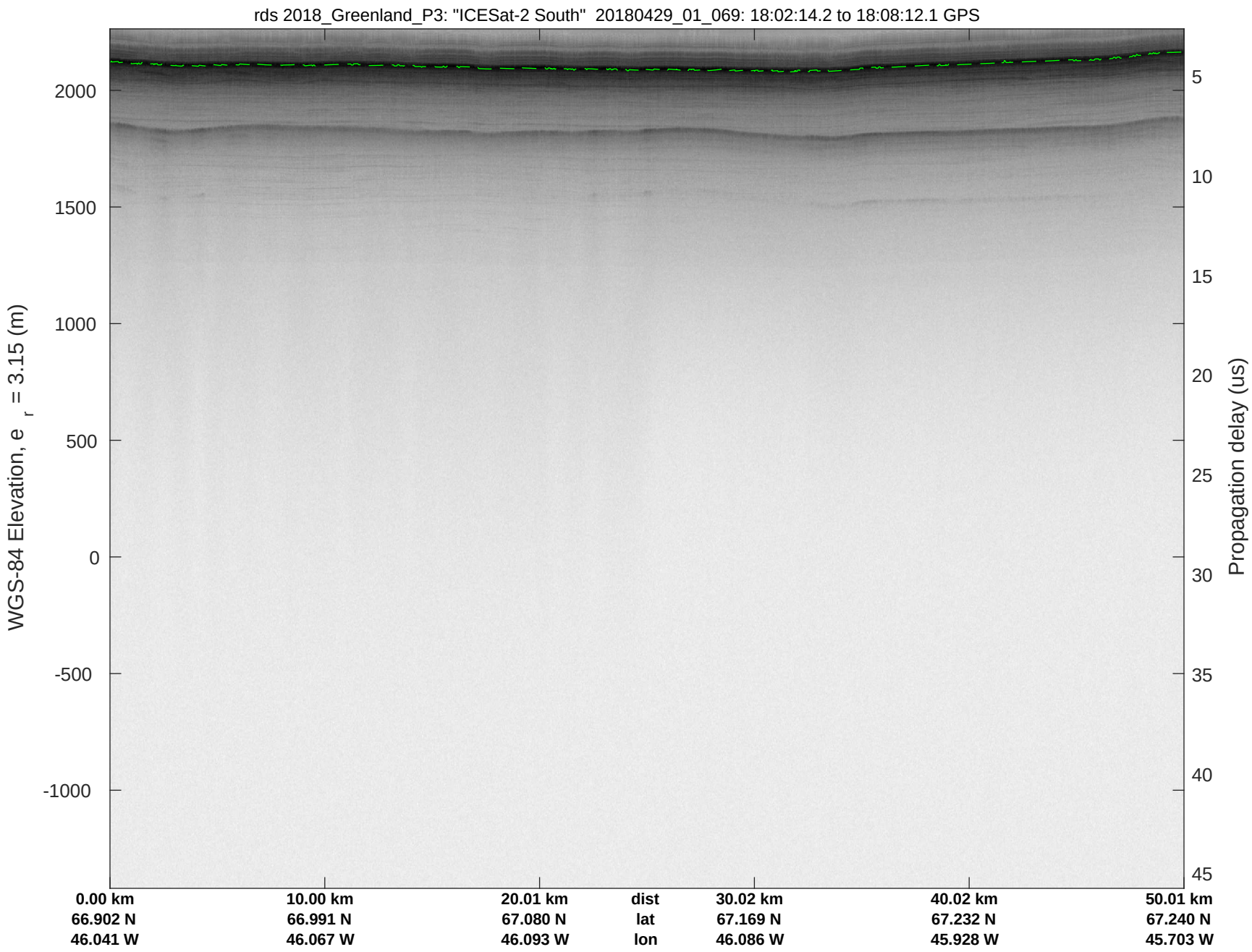

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_067: 17:50:33.5 to 17:56:27.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.012 N
45.787 W
10.00 km
66.101 N
45.812 W
20.01 km
66.190 N
45.837 W
dist
lat
lon
30.00 km
66.279 N
45.862 W
40.00 km
66.368 N
45.887 W
50.00 km
66.457 N
45.912 W

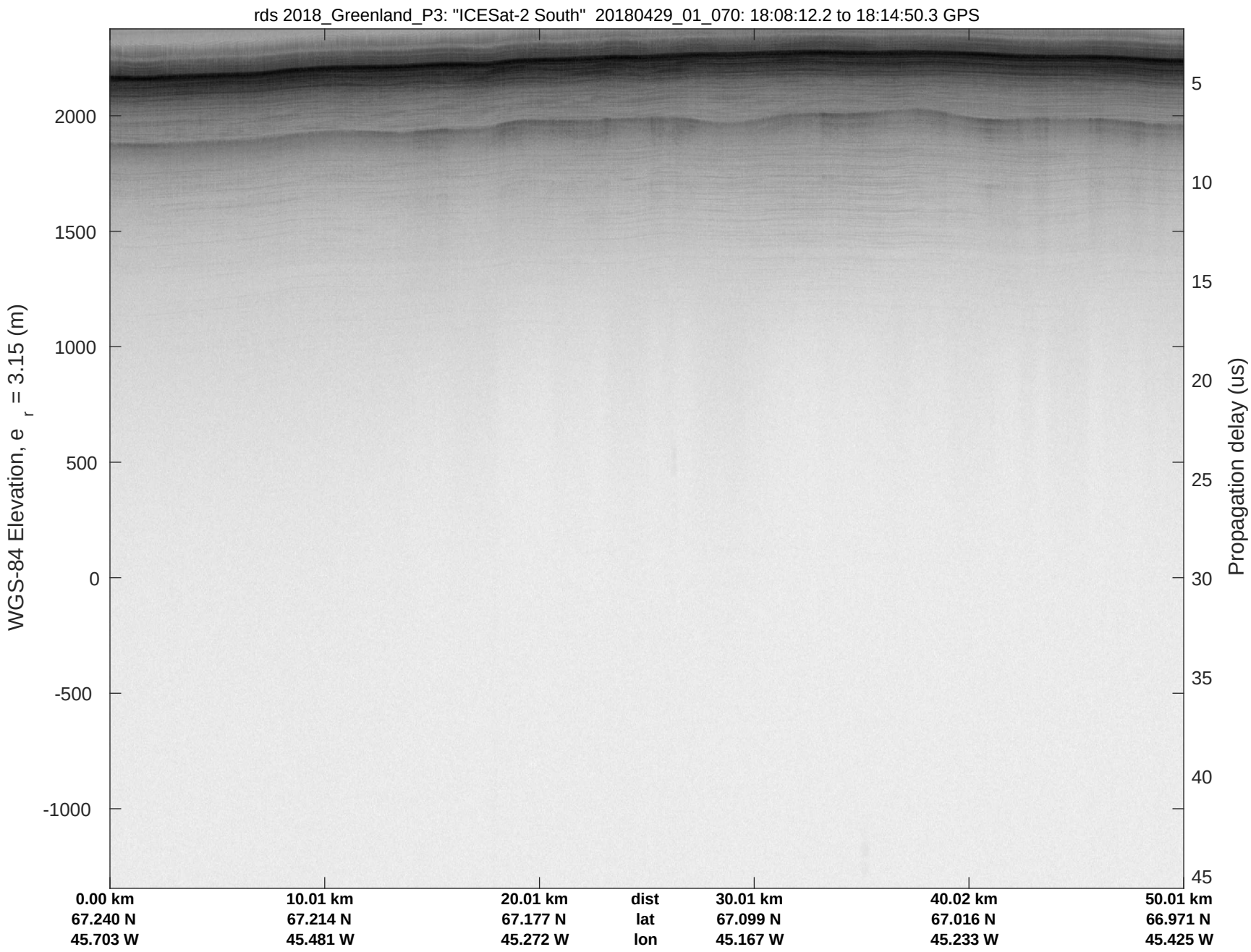

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_067: 17:50:33.5 to 17:56:27.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
2000
1500
1000
500
0
-500
-1000
5
10
15
20
25
30
35
40
0.00 km
66.012 N
45.787 W
10.00 km
66.101 N
45.812 W
20.01 km
66.190 N
45.837 W
dist
lat
lon
30.00 km
66.279 N
45.862 W
40.00 km
66.368 N
45.887 W
50.00 km
66.457 N
45.912 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_068: 17:56:27.1 to 18:02:14.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.457 N
45.912 W
10.01 km
66.546 N
45.938 W
20.01 km
66.635 N
45.963 W
dist
lat
lon
30.01 km
66.724 N
45.989 W
40.02 km
66.813 N
46.014 W
50.01 km
66.902 N
46.041 W

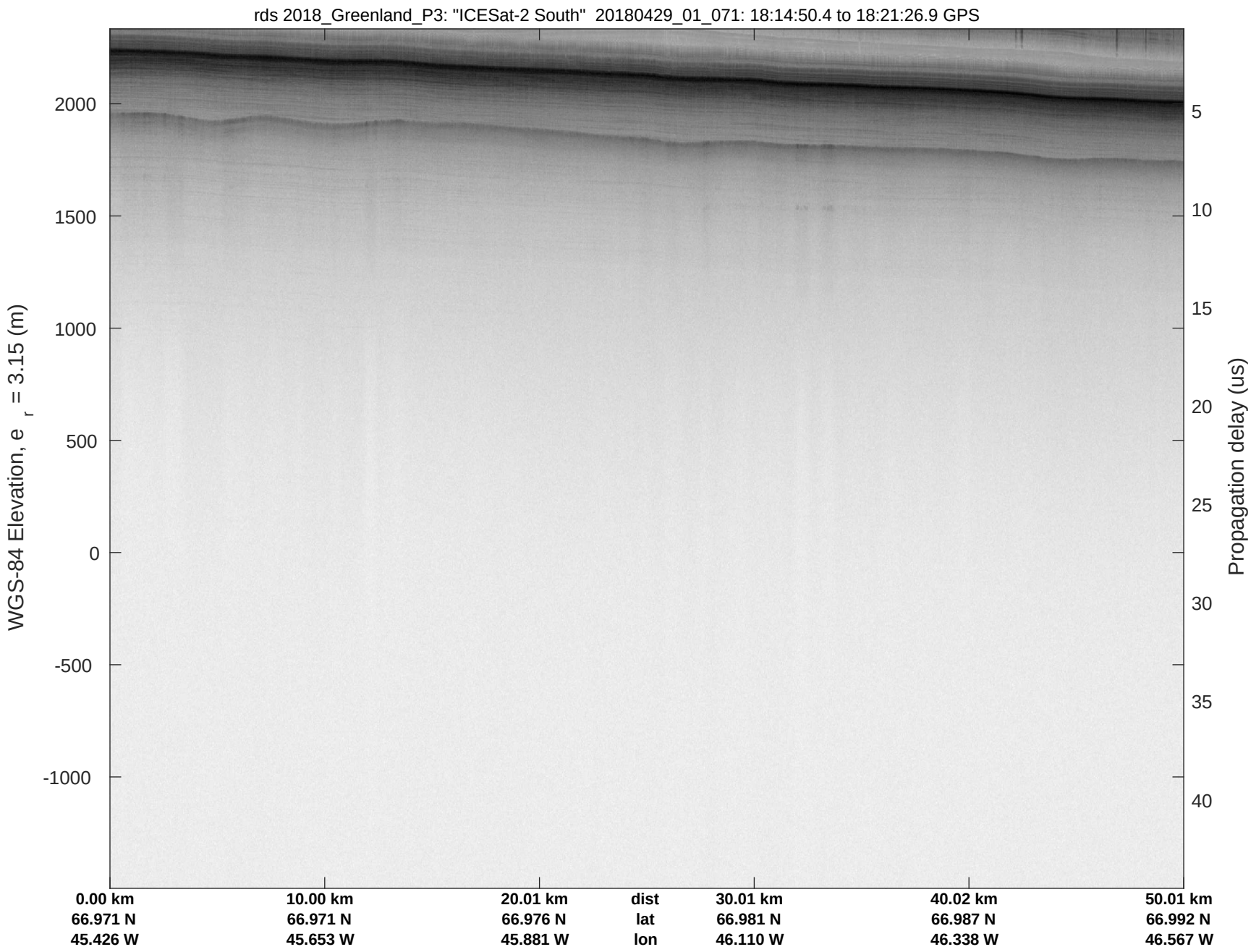

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_068: 17:56:27.1 to 18:02:14.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.457 N
45.912 W
10.01 km
66.546 N
45.938 W
20.01 km
66.635 N
45.963 W
dist
lat
lon
30.01 km
66.724 N
45.989 W
40.02 km
66.813 N
46.014 W
50.01 km
66.902 N
46.041 W

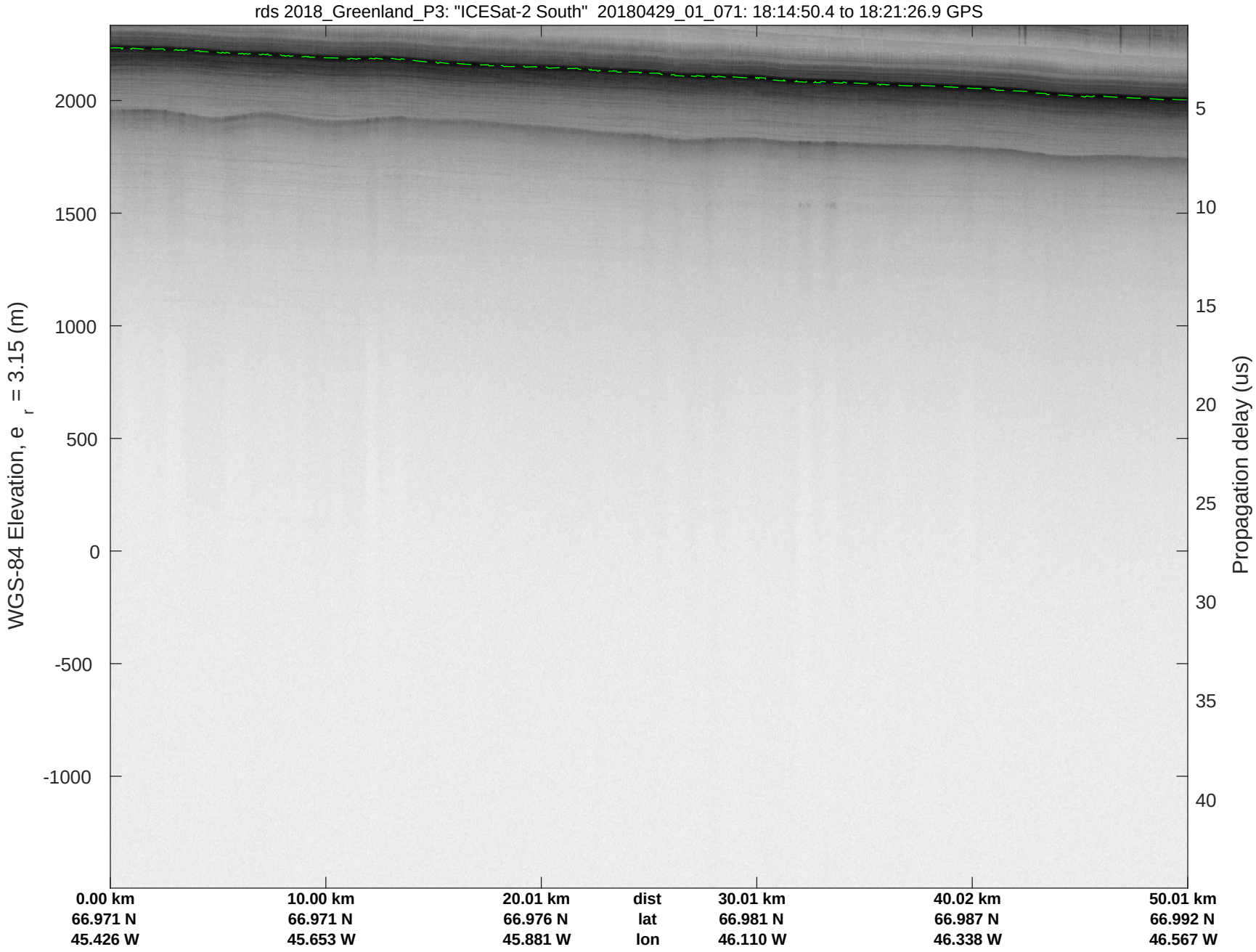

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_069: 18:02:14.2 to 18:08:12.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
66.902 N
46.041 W
10.00 km
66.991 N
46.067 W
20.01 km
67.080 N
46.093 W
dist
lat
lon
30.02 km
67.169 N
46.086 W
40.02 km
67.232 N
45.928 W
50.01 km
67.240 N
45.703 W

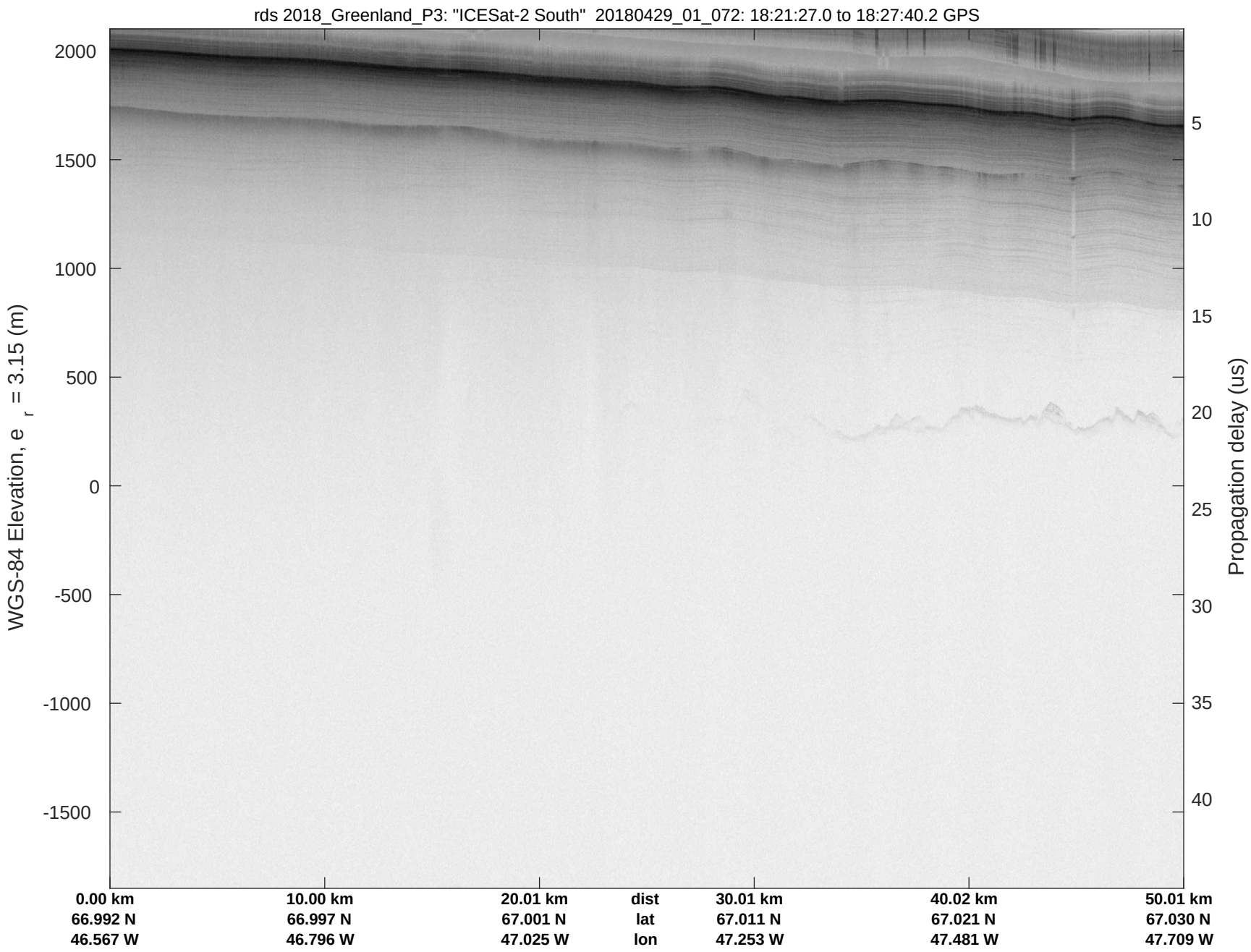

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_069: 18:02:14.2 to 18:08:12.1 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
66.902 N
46.041 W
10.00 km
66.991 N
46.067 W
20.01 km
67.080 N
46.093 W
dist
lat
lon
30.02 km
67.169 N
46.086 W
40.02 km
67.232 N
45.928 W
50.01 km
67.240 N
45.703 W

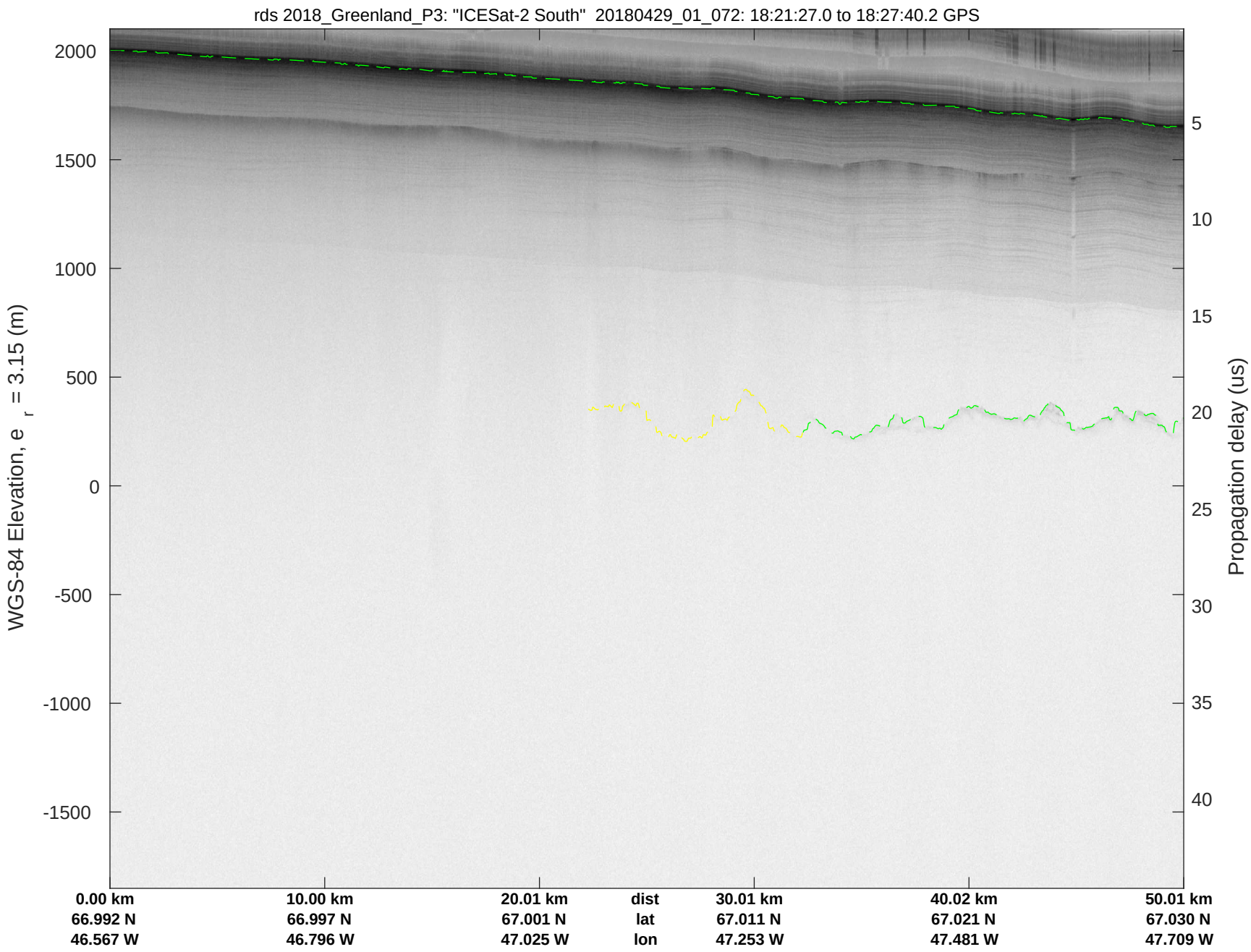

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_070: 18:08:12.2 to 18:14:50.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
67.240 N
45.703 W
10.01 km
67.214 N
45.481 W
20.01 km
67.177 N
45.272 W
dist
lat
lon
30.01 km
67.099 N
45.167 W
40.02 km
67.016 N
45.233 W
50.01 km
66.971 N
45.425 W

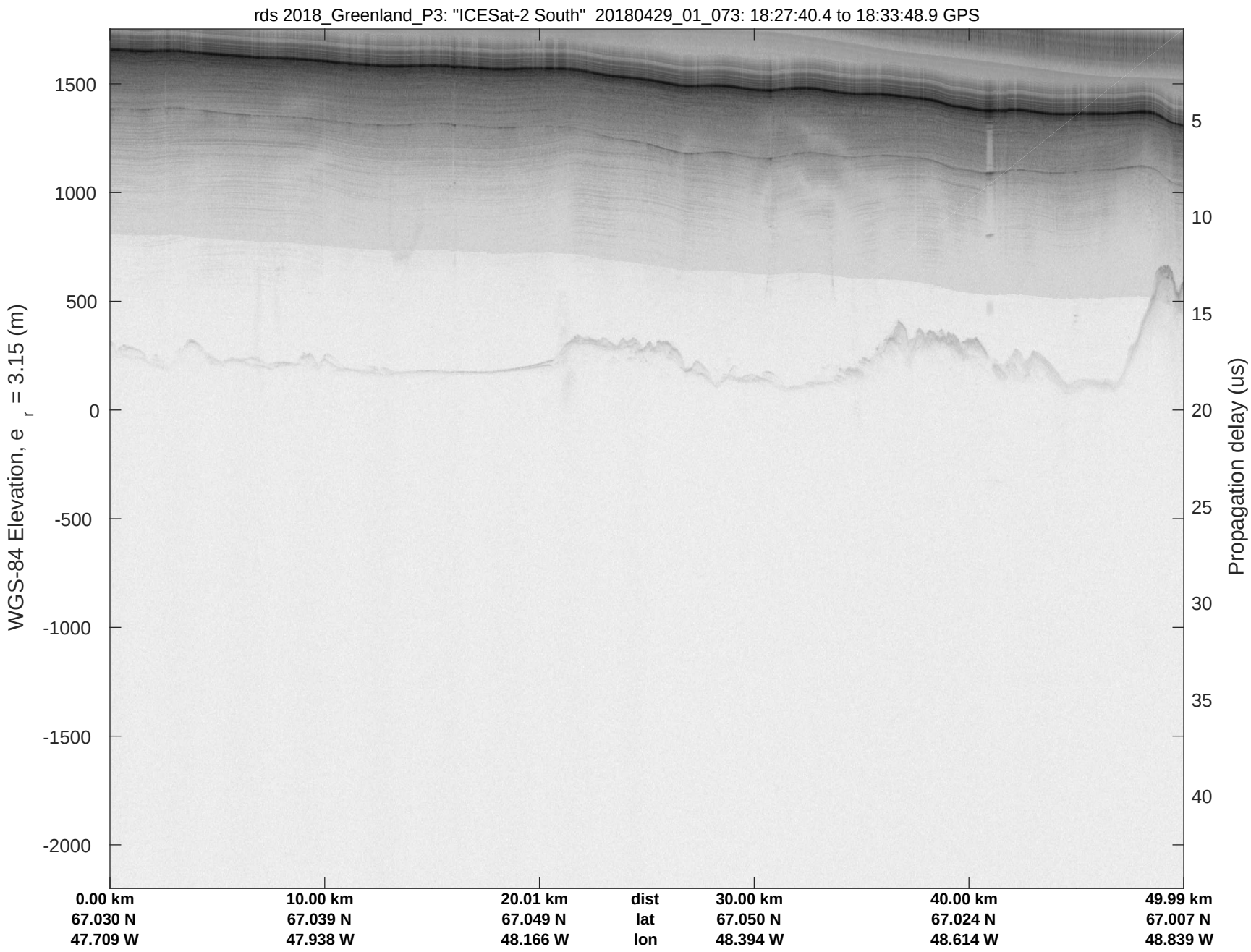
rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_070: 18:08:12.2 to 18:14:50.3 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
45
0.00 km
67.240 N
45.703 W
10.01 km
67.214 N
45.481 W
20.01 km
67.177 N
45.272 W
dist
lat
lon
30.01 km
67.099 N
45.167 W
40.02 km
67.016 N
45.233 W
50.01 km
66.971 N
45.425 W

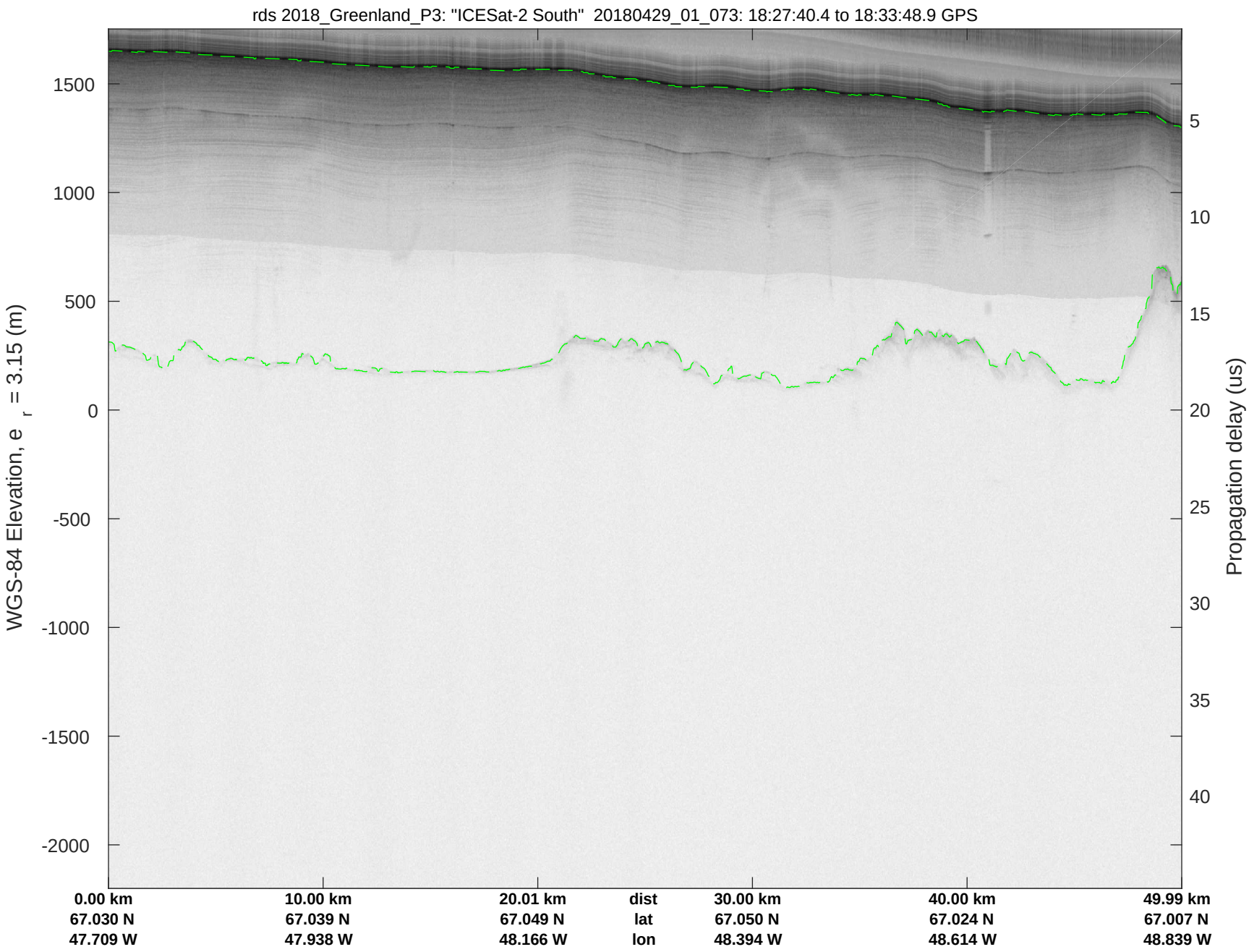

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_071: 18:14:50.4 to 18:21:26.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.971 N
45.426 W
10.00 km
66.971 N
45.653 W
20.01 km
66.976 N
45.881 W
dist
lat
lon
30.01 km
66.981 N
46.110 W
40.02 km
66.987 N
46.338 W
50.01 km
66.992 N
46.567 W

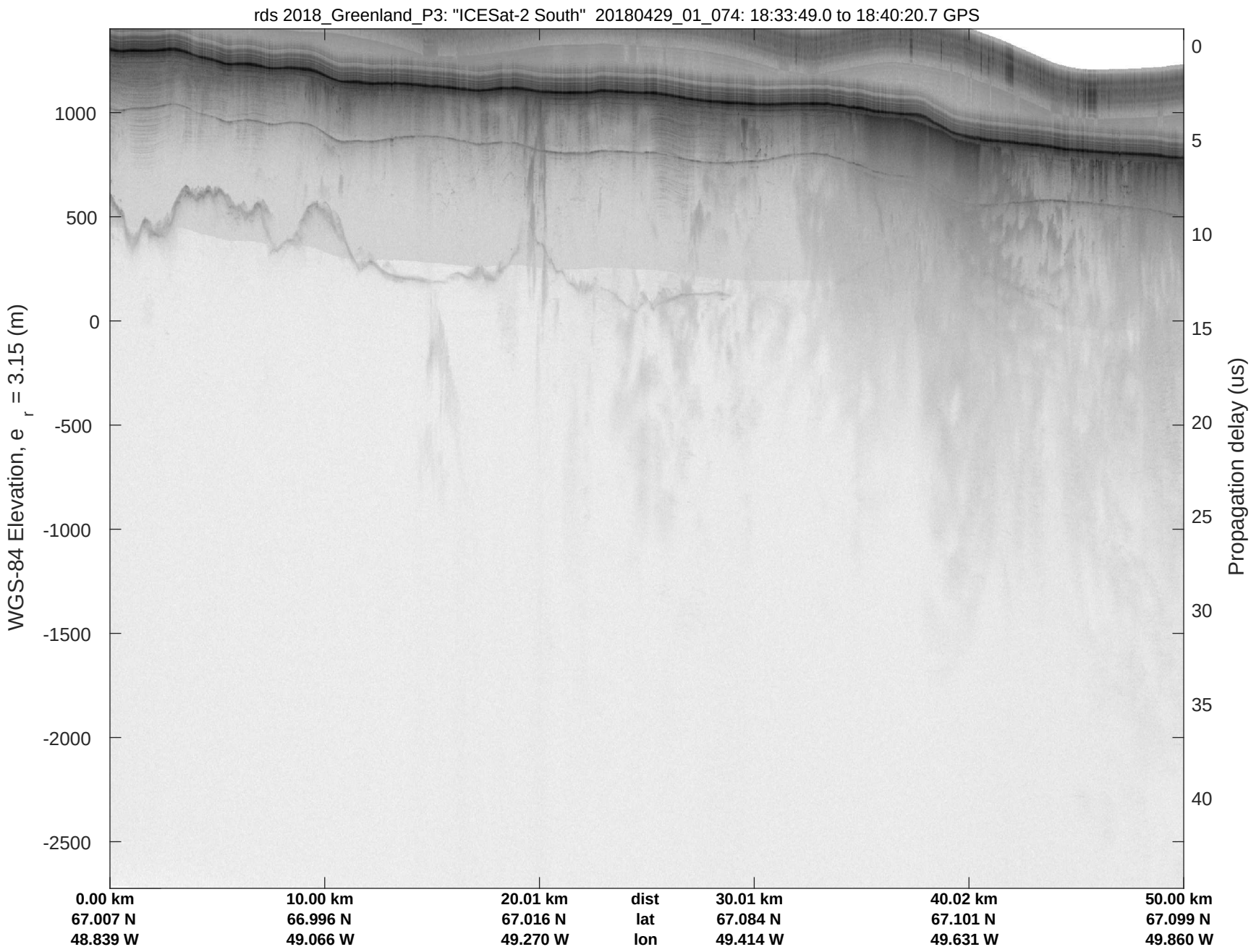

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_071: 18:14:50.4 to 18:21:26.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.971 N
45.426 W
10.00 km
66.971 N
45.653 W
20.01 km
66.976 N
45.881 W
dist
lat
lon
30.01 km
66.981 N
46.110 W
40.02 km
66.987 N
46.338 W
50.01 km
66.992 N
46.567 W

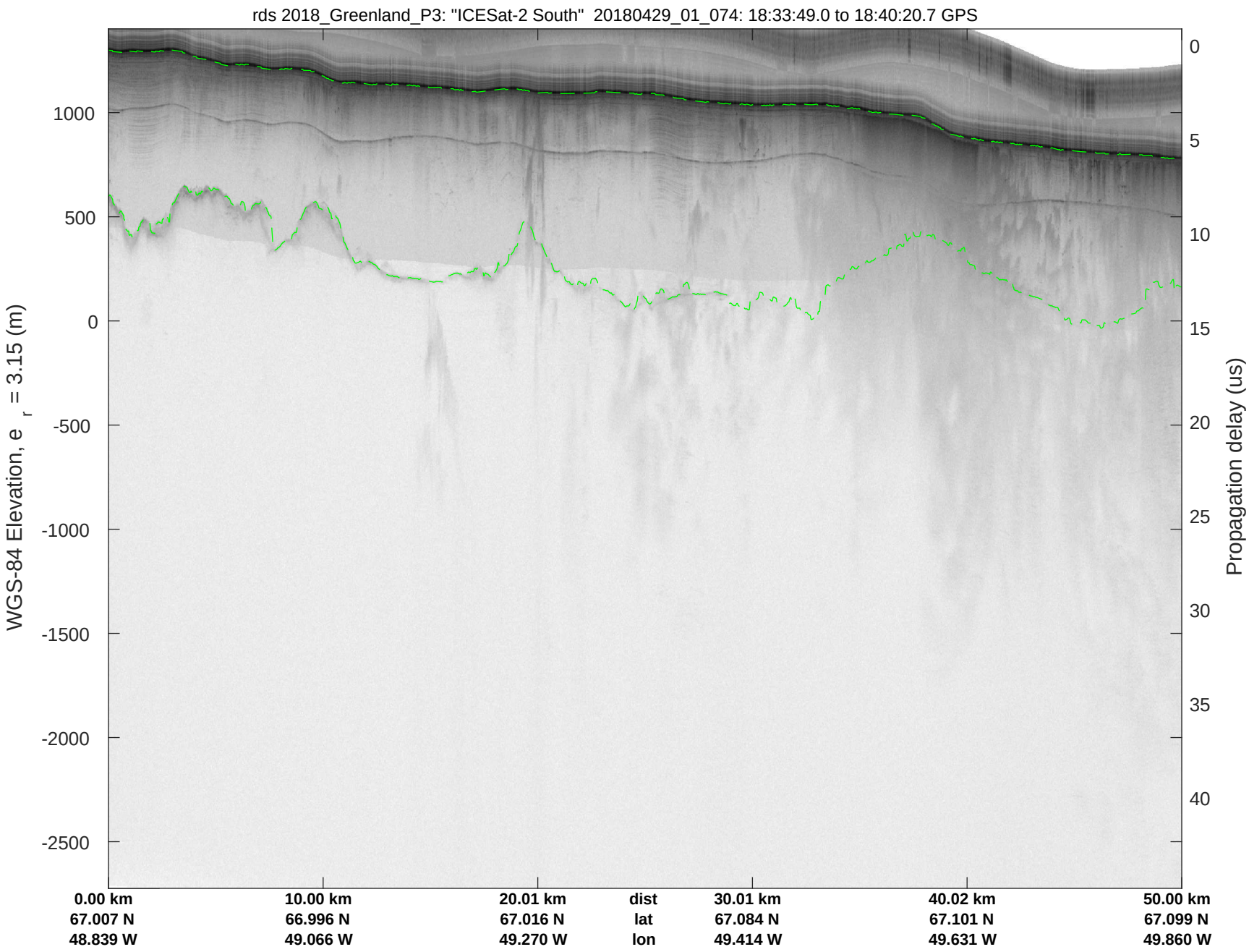

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_072: 18:21:27.0 to 18:27:40.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
-1500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.992 N
46.567 W
10.00 km
66.997 N
46.796 W
20.01 km
67.001 N
47.025 W
dist
lat
lon
30.01 km
67.011 N
47.253 W
40.02 km
67.021 N
47.481 W
50.01 km
67.030 N
47.709 W

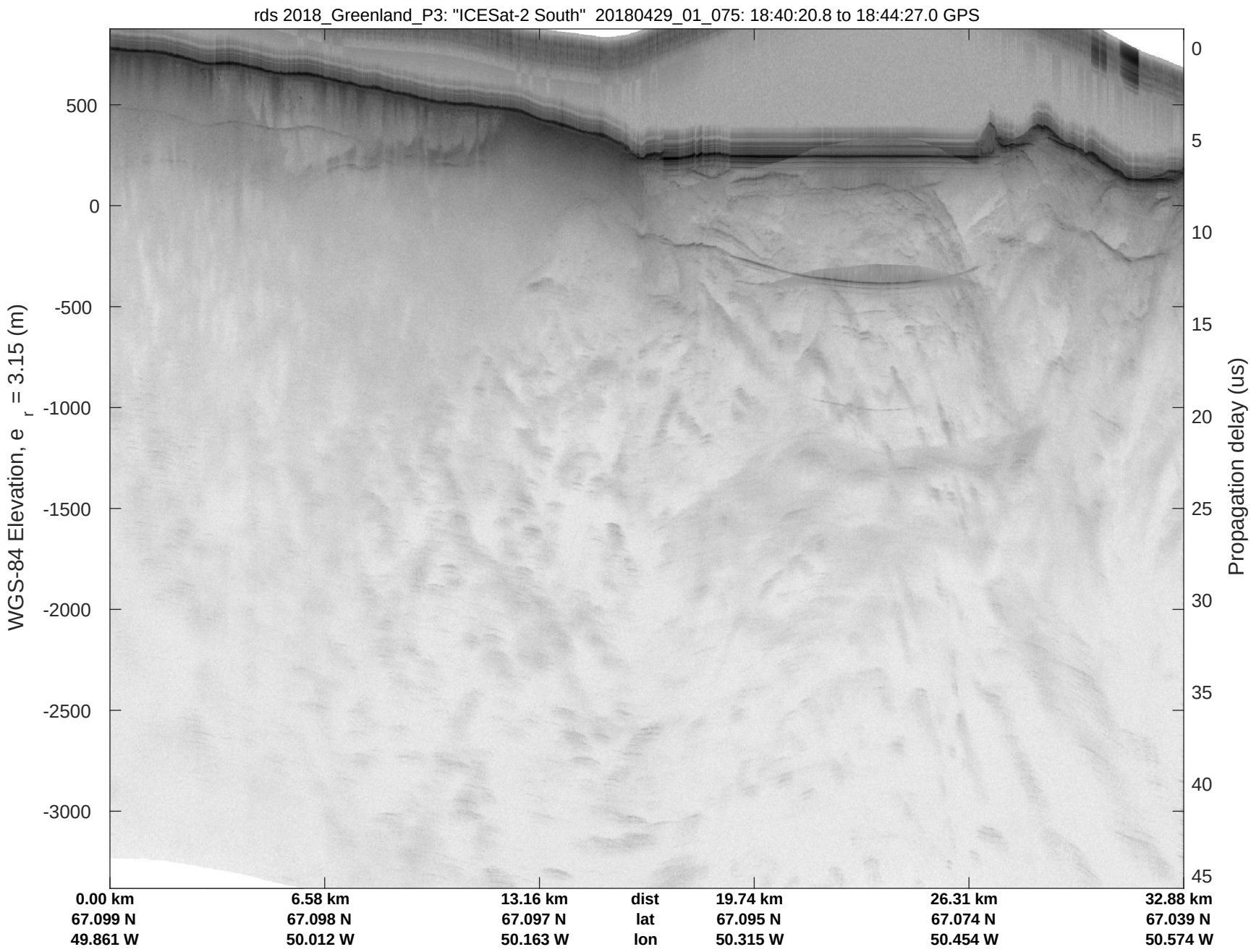

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_072: 18:21:27.0 to 18:27:40.2 GPS
WGS-84 Elevation, e r = 3.15 (m)
2000
1500
1000
500
0
-500
-1000
-1500
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
66.992 N
46.567 W
10.00 km
66.997 N
46.796 W
20.01 km
67.001 N
47.025 W
dist
lat
lon
30.01 km
67.011 N
47.253 W
40.02 km
67.021 N
47.481 W
50.01 km
67.030 N
47.709 W

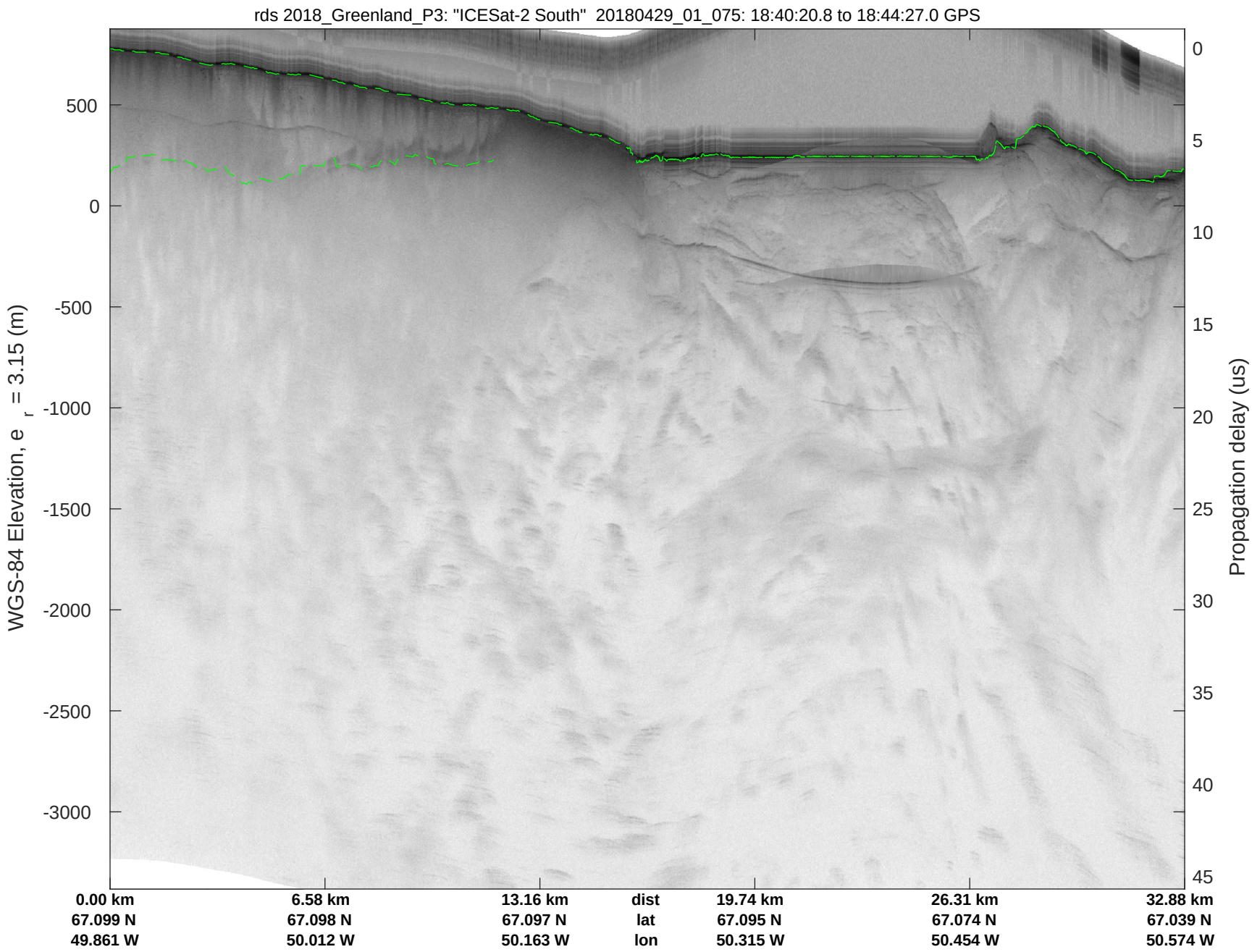

rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_073: 18:27:40.4 to 18:33:48.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
1500
1000
500
0
-500
-1000
-1500
-2000
Propagation delay (us)
5
10
15
20
25
30
35
40
0.00 km
67.030 N
47.709 W
10.00 km
67.039 N
47.938 W
20.01 km
67.049 N
48.166 W
dist
lat
lon
30.00 km
67.050 N
48.394 W
40.00 km
67.024 N
48.614 W
49.99 km
67.007 N
48.839 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_073: 18:27:40.4 to 18:33:48.9 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1500
1000
500
0
-500
-1000
-1500
-2000
5
10
15
20
25
30
35
40
0.00 km
67.030 N
47.709 W
10.00 km
67.039 N
47.938 W
20.01 km
67.049 N
48.166 W
dist
lat
lon
30.00 km
67.050 N
48.394 W
40.00 km
67.024 N
48.614 W
49.99 km
67.007 N
48.839 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_074: 18:33:49.0 to 18:40:20.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
1000
500
0
-500
-1000
-1500
-2000
-2500
0
5
10
15
20
25
30
35
40
Propagation delay (us)
0.00 km
67.007 N
48.839 W
10.00 km
66.996 N
49.066 W
20.01 km
67.016 N
49.270 W
dist
lat
lon
30.01 km
67.084 N
49.414 W
40.02 km
67.101 N
49.631 W
50.00 km
67.099 N
49.860 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_074: 18:33:49.0 to 18:40:20.7 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
1000
500
0
-500
-1000
-1500
-2000
-2500
0
5
10
15
20
25
30
35
40
0.00 km
67.007 N
48.839 W
10.00 km
66.996 N
49.066 W
20.01 km
67.016 N
49.270 W
dist
lat
lon
30.01 km
67.084 N
49.414 W
40.02 km
67.101 N
49.631 W
50.00 km
67.099 N
49.860 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_075: 18:40:20.8 to 18:44:27.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
500
0
-500
-1000
-1500
-2000
-2500
-3000
Propagation delay (us)
0
5
10
15
20
25
30
35
40
45
0.00 km
67.099 N
49.861 W
6.58 km
67.098 N
50.012 W
13.16 km
67.097 N
50.163 W
dist
lat
lon
19.74 km
67.095 N
50.315 W
26.31 km
67.074 N
50.454 W
32.88 km
67.039 N
50.574 W


rds 2018_Greenland_P3: "ICESat-2 South" 20180429_01_075: 18:40:20.8 to 18:44:27.0 GPS
WGS-84 Elevation, e r = 3.15 (m)
Propagation delay (us)
500
0
-500
-1000
-1500
-2000
-2500
-3000
0
5
10
15
20
25
30
35
40
45
0.00 km
67.099 N
49.861 W
6.58 km
67.098 N
50.012 W
13.16 km
67.097 N
50.163 W
dist
lat
lon
19.74 km
67.095 N
50.315 W
26.31 km
67.074 N
50.454 W
32.88 km
67.039 N
50.574 W