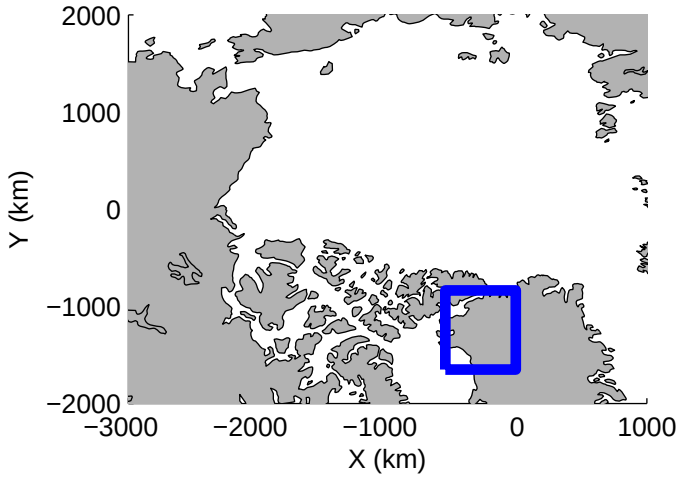
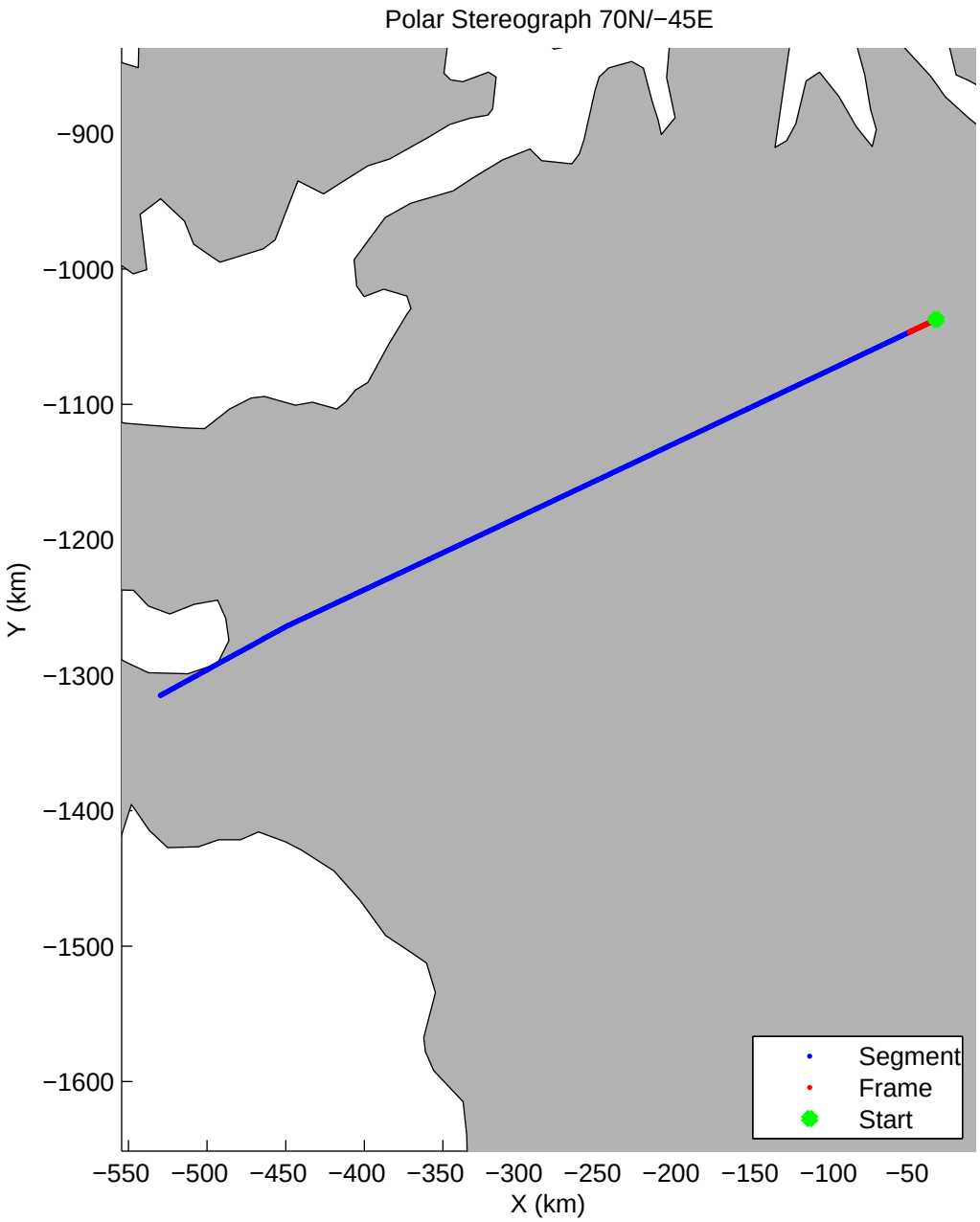
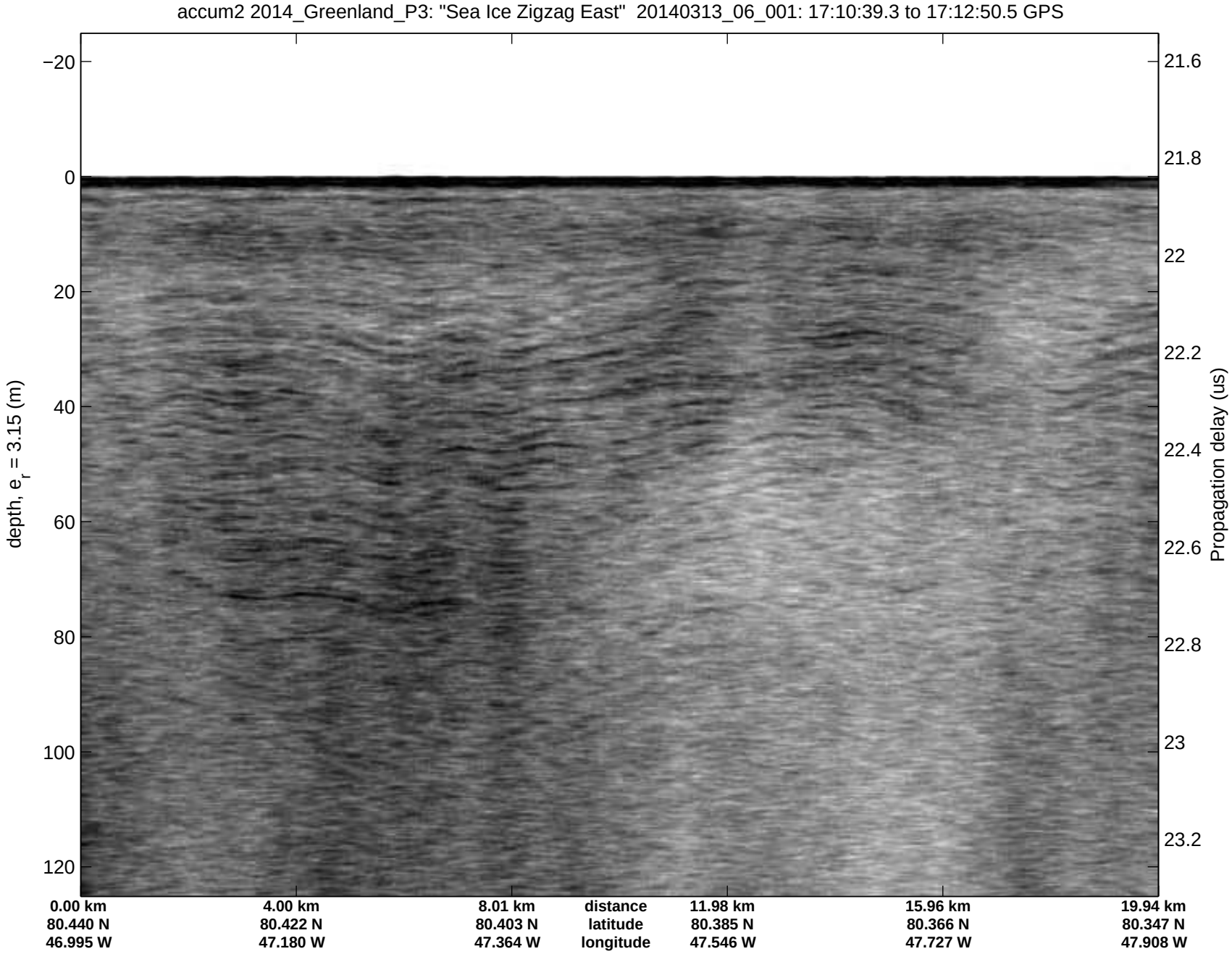
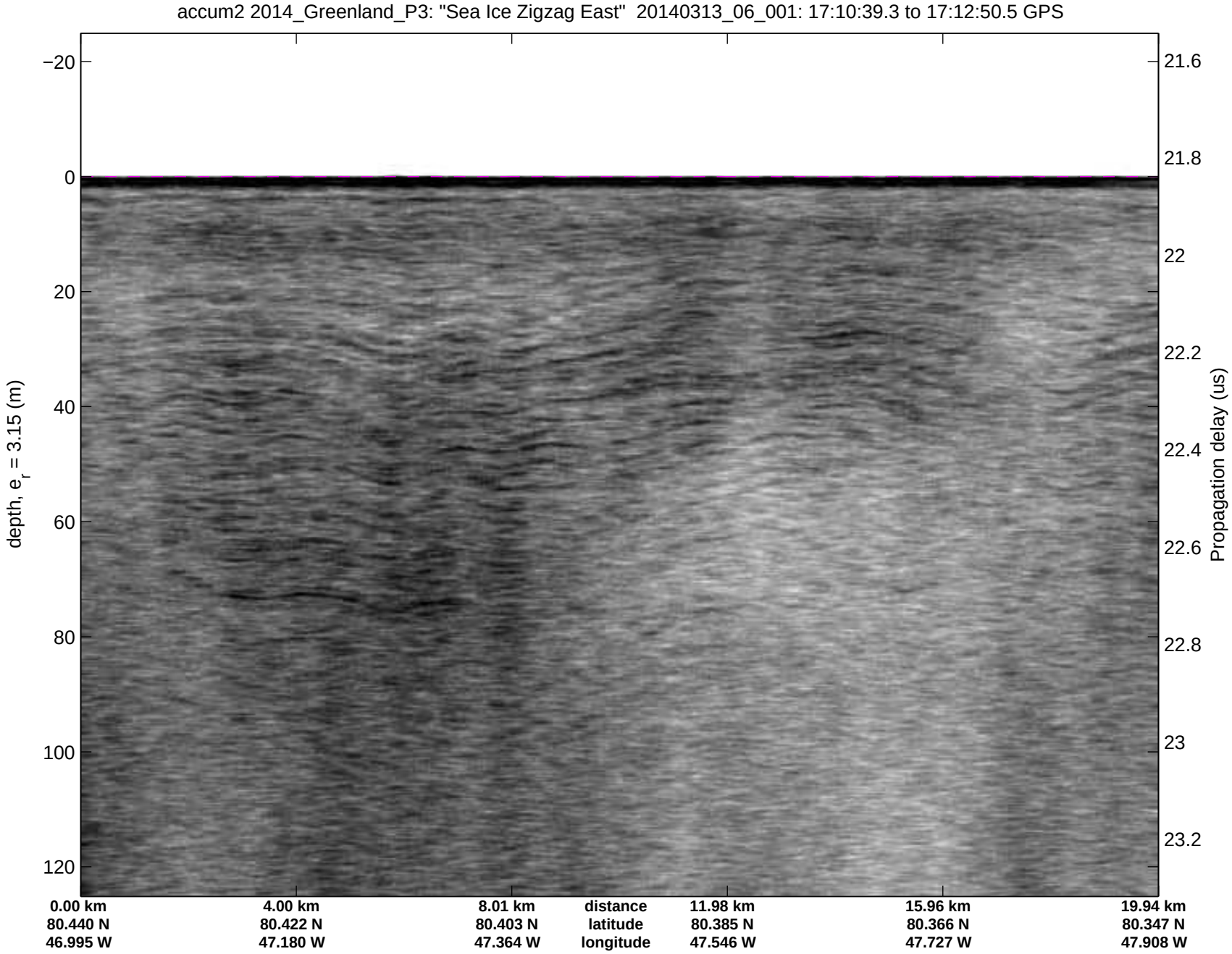
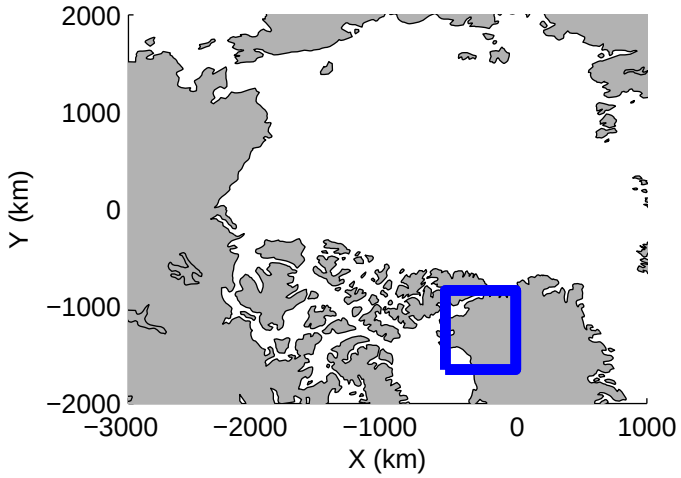
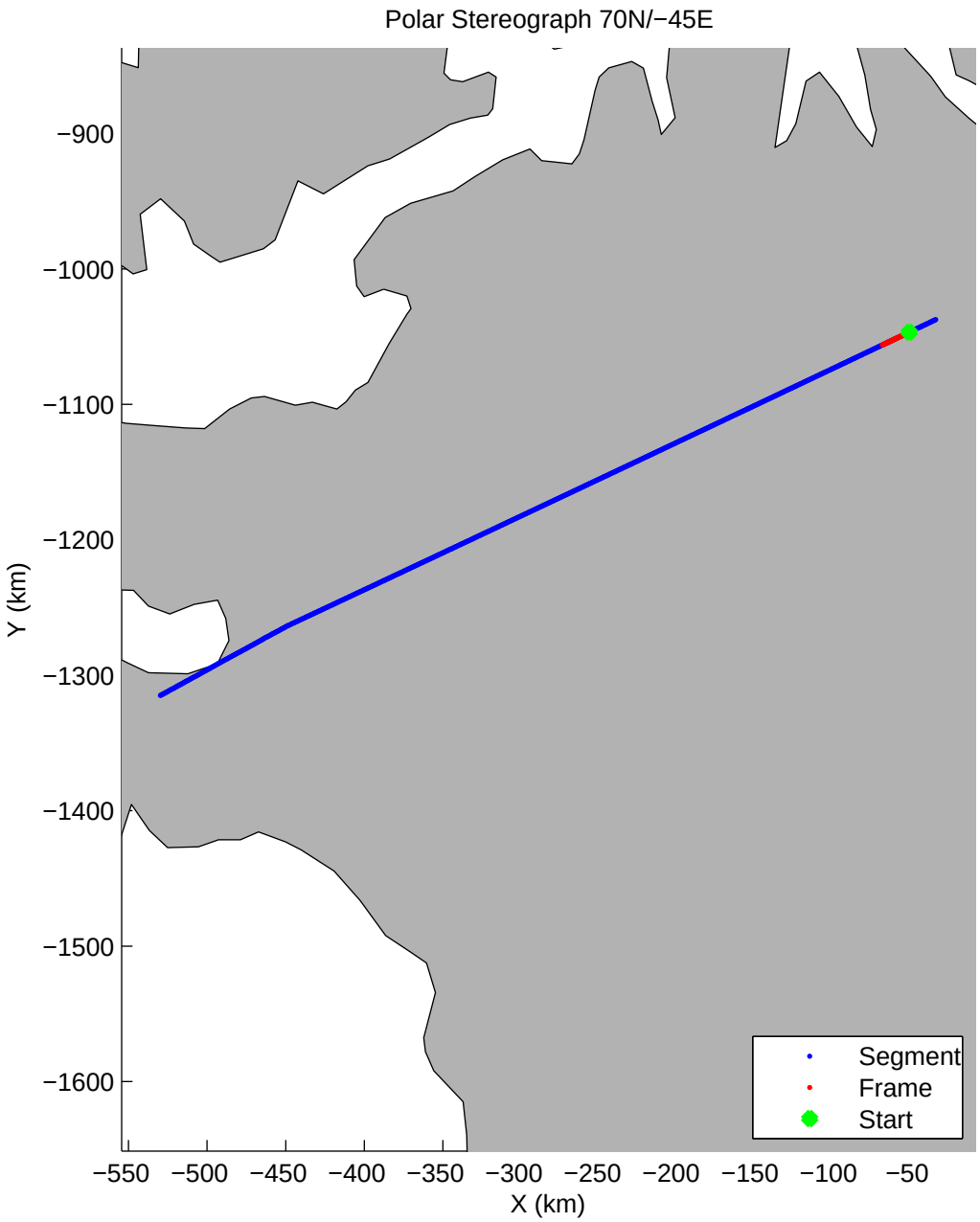

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

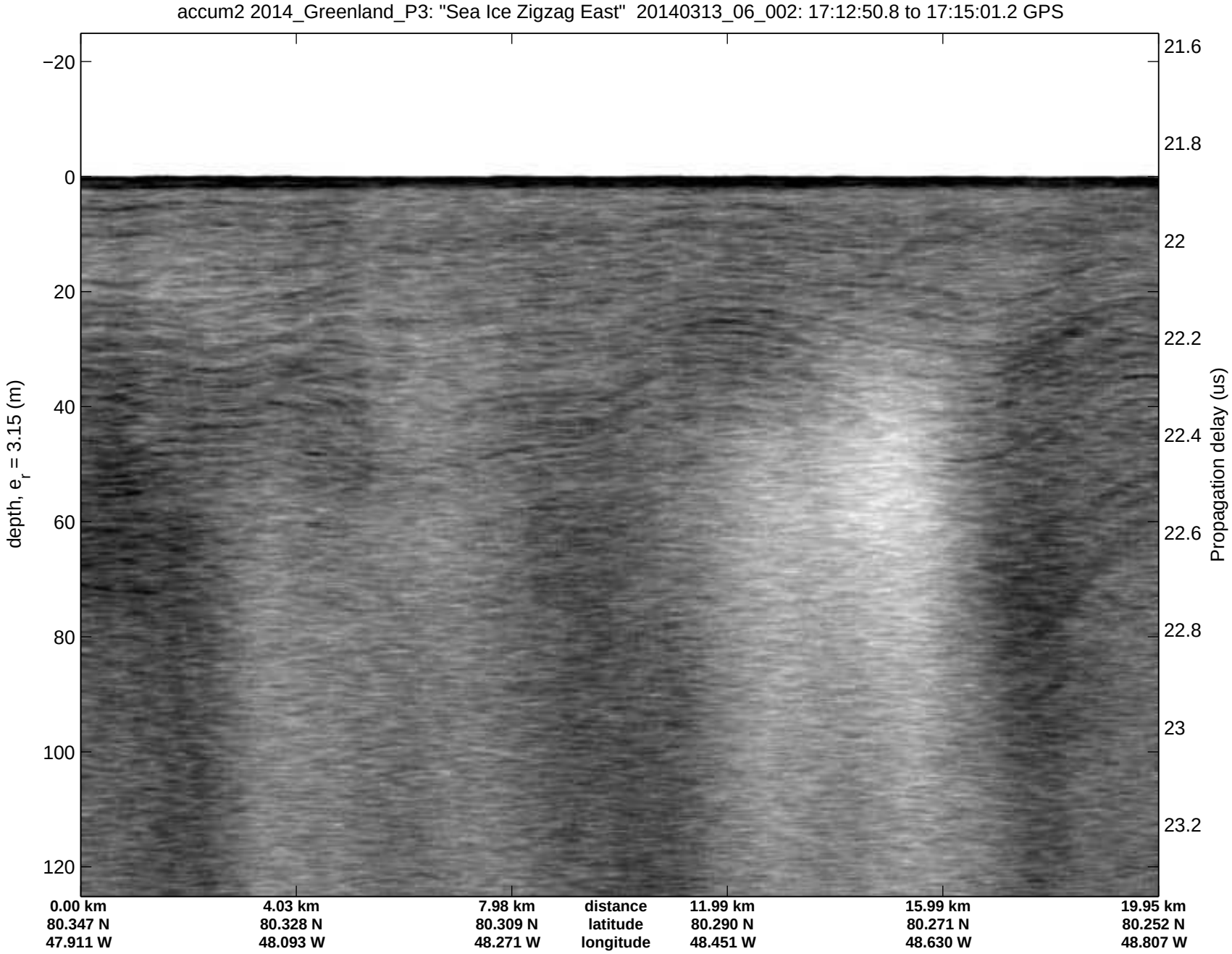

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

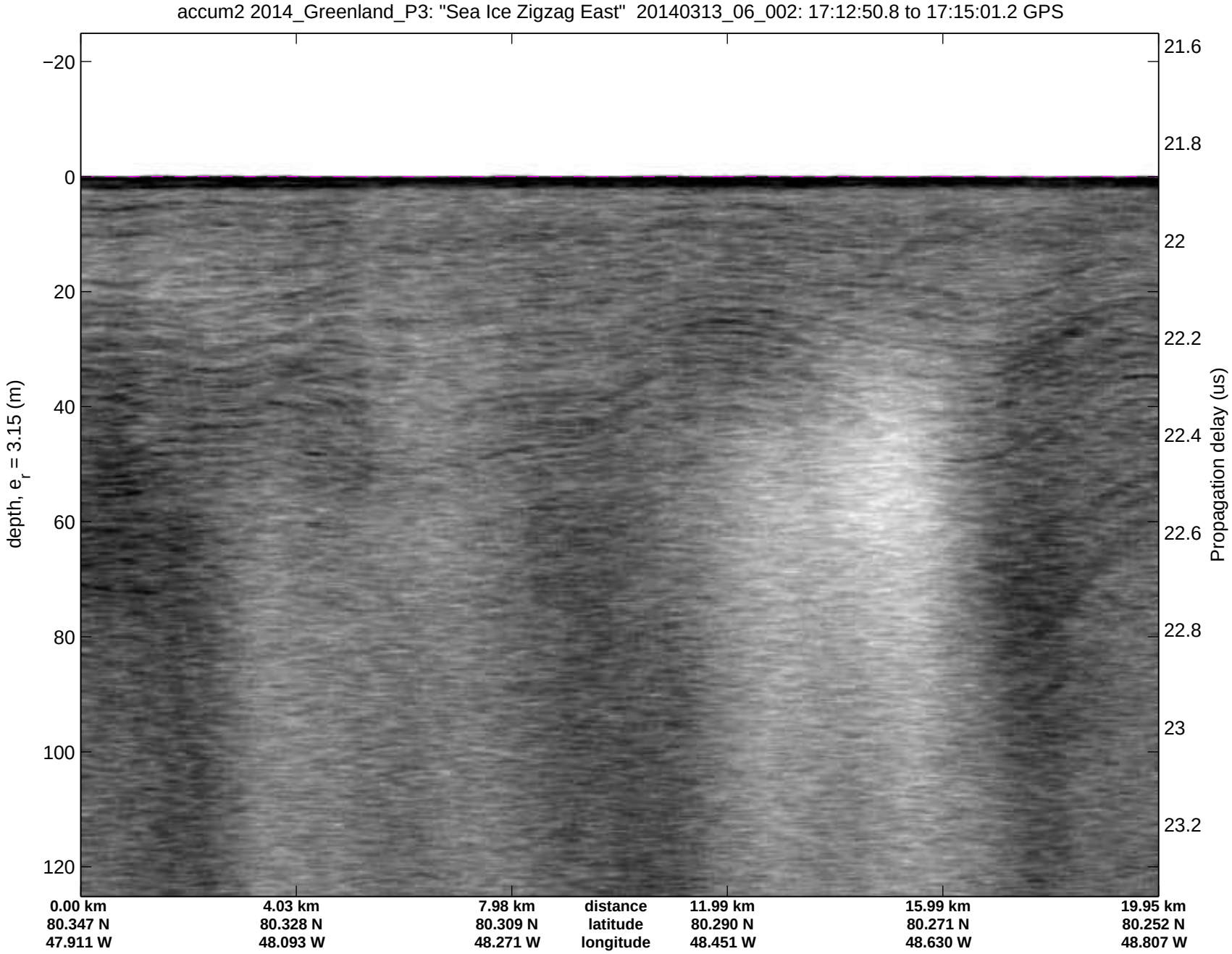

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_001: 17:10:39.3 to 17:12:50.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
21.6
21.8
22
22.2
22.4
22.6
22.8
23
23.2
0.00 km
80.440 N
46.995 W
4.00 km
80.422 N
47.180 W
8.01 km
80.403 N
47.364 W
distance
latitude
longitude
11.98 km
80.385 N
47.546 W
15.96 km
80.366 N
47.727 W
19.94 km
80.347 N
47.908 W

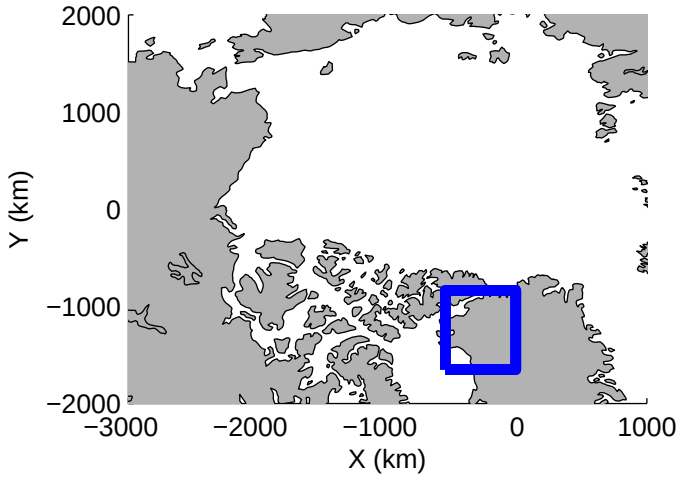

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_001: 17:10:39.3 to 17:12:50.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
21.6
21.8
22
22.2
22.4
22.6
22.8
23
23.2
0.00 km
80.440 N
46.995 W
4.00 km
80.422 N
47.180 W
8.01 km
80.403 N
47.364 W
distance
latitude
longitude
11.98 km
80.385 N
47.546 W
15.96 km
80.366 N
47.727 W
19.94 km
80.347 N
47.908 W

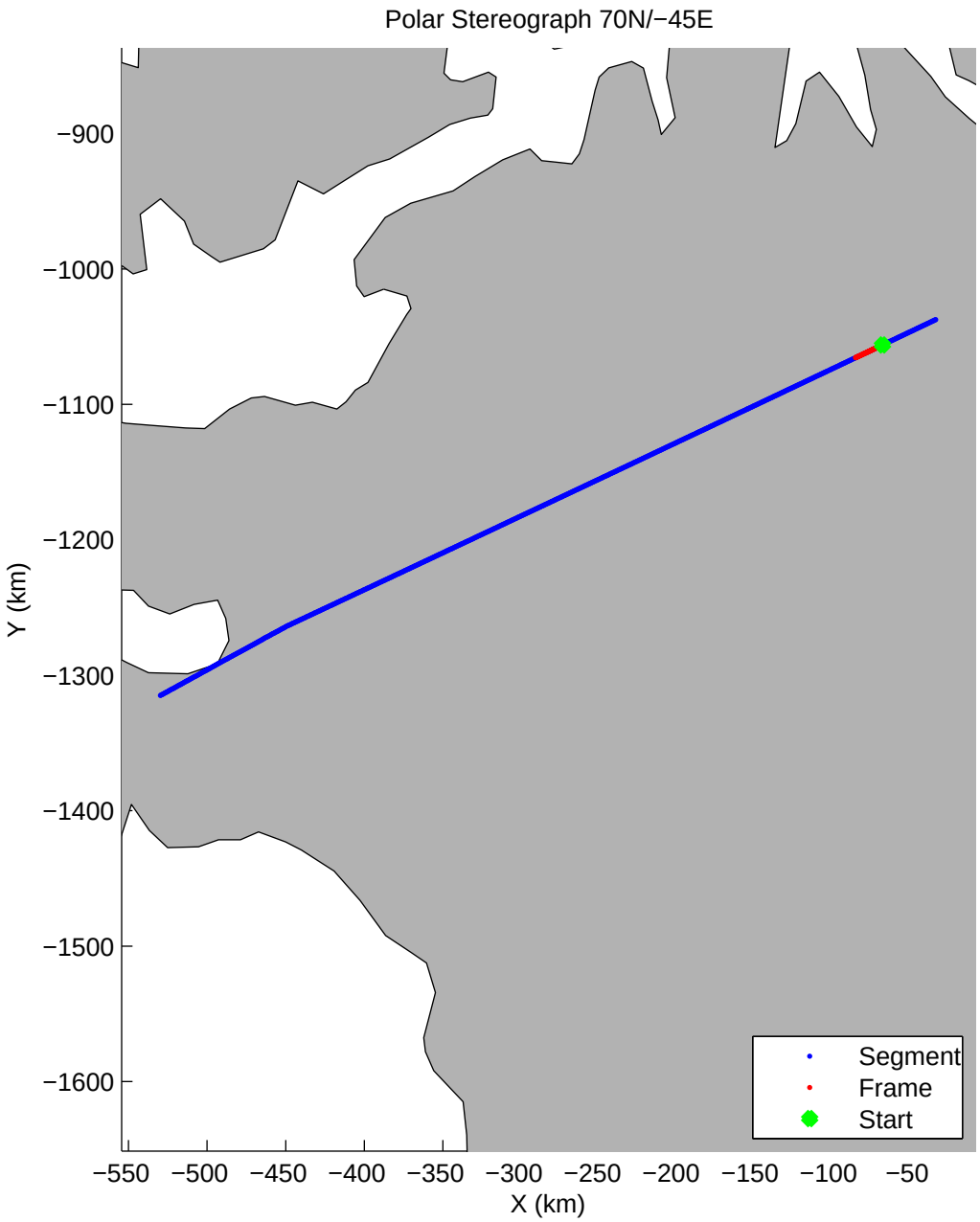

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

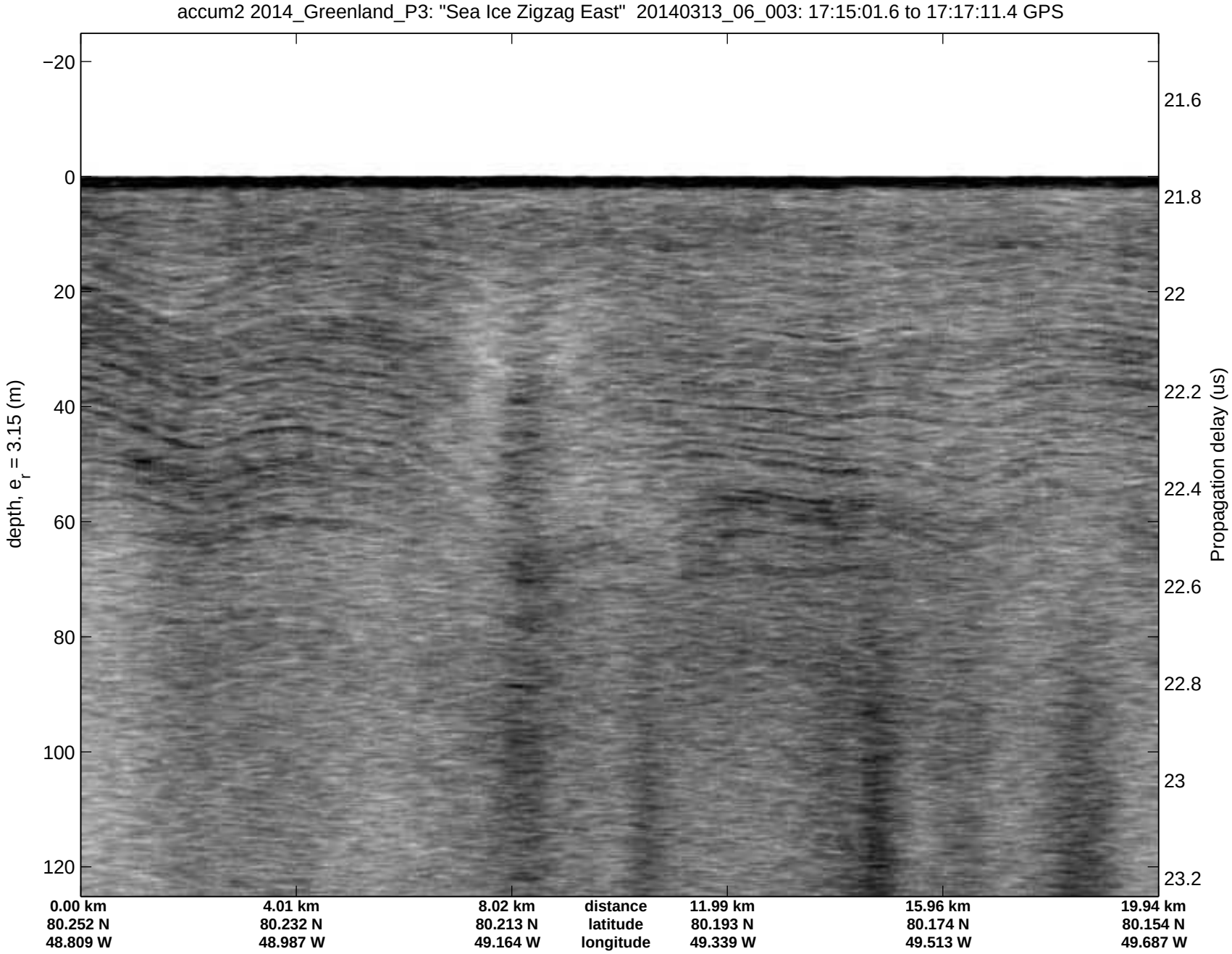

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

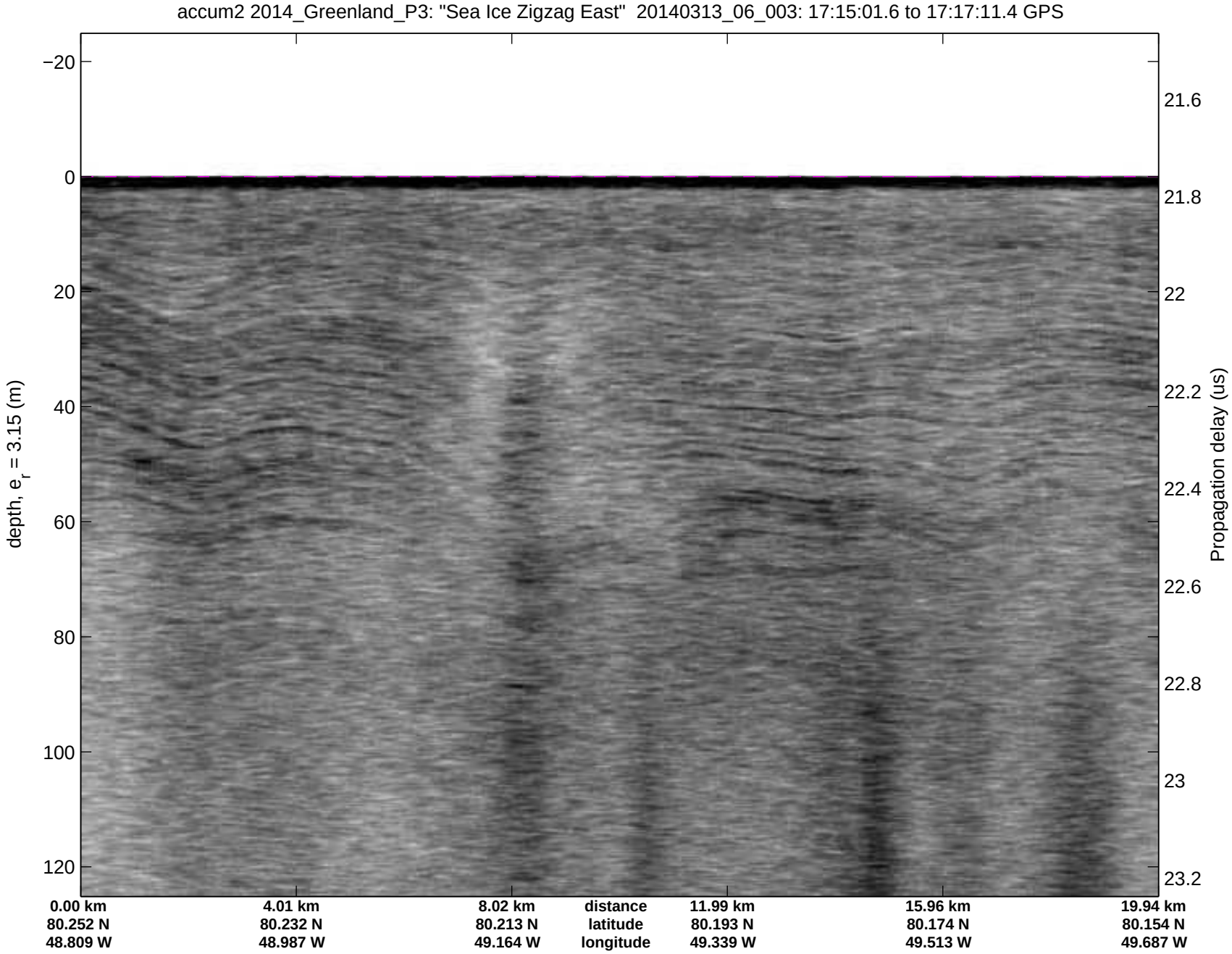

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_002: 17:12:50.8 to 17:15:01.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
21.6
21.8
22
22.2
22.4
22.6
22.8
23
23.2
Propagation delay (us)
0.00 km
80.347 N
47.911 W
4.03 km
80.328 N
48.093 W
7.98 km
80.309 N
48.271 W
distance
latitude
longitude
11.99 km
80.290 N
48.451 W
15.99 km
80.271 N
48.630 W
19.95 km
80.252 N
48.807 W

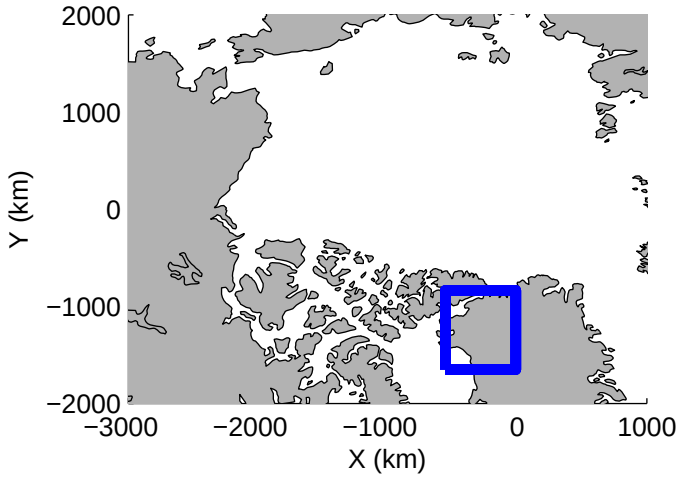

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_002: 17:12:50.8 to 17:15:01.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
21.6
21.8
22
22.2
22.4
22.6
22.8
23
23.2
Propagation delay (us)
0.00 km
80.347 N
47.911 W
4.03 km
80.328 N
48.093 W
7.98 km
80.309 N
48.271 W
distance
latitude
longitude
11.99 km
80.290 N
48.451 W
15.99 km
80.271 N
48.630 W
19.95 km
80.252 N
48.807 W

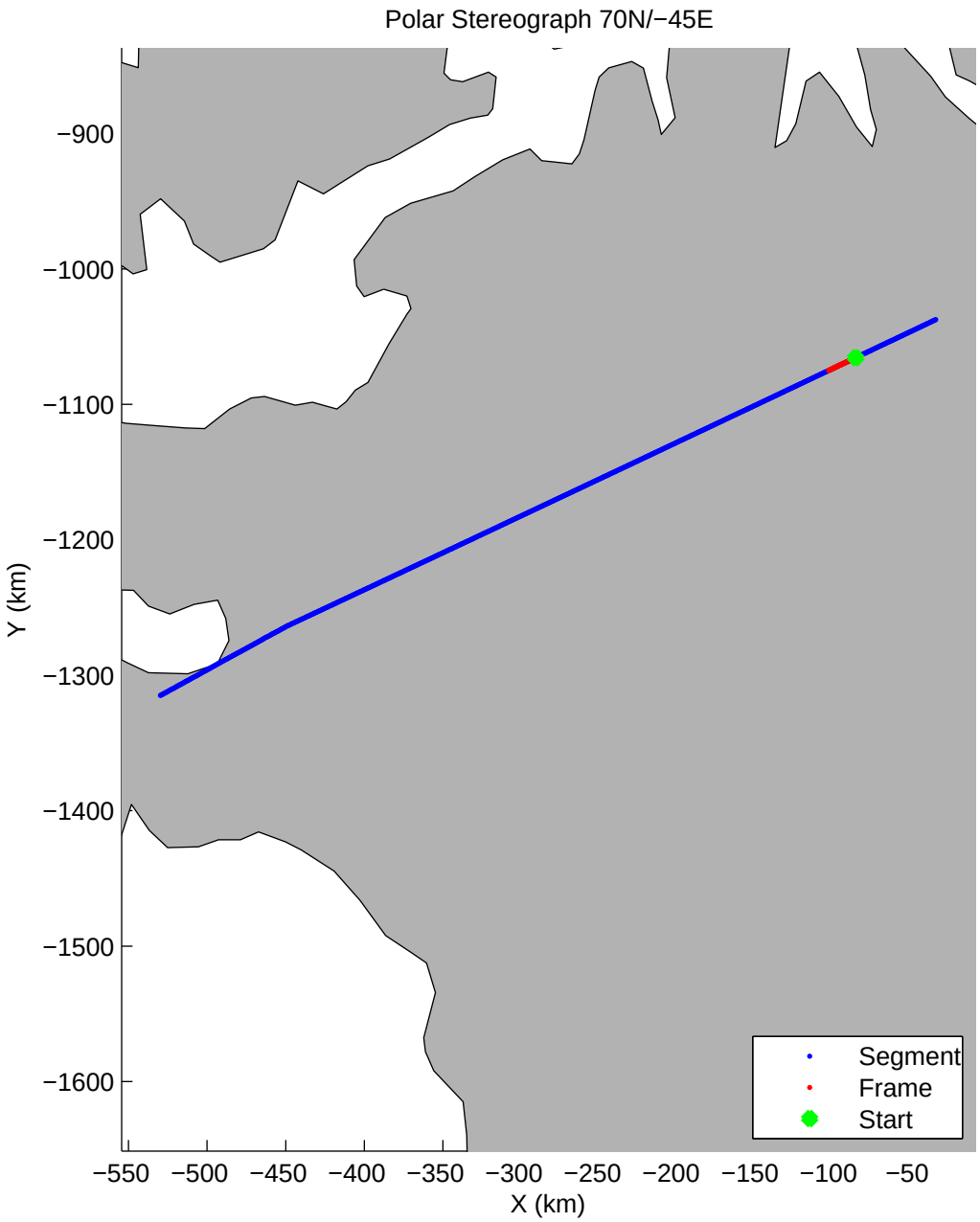

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

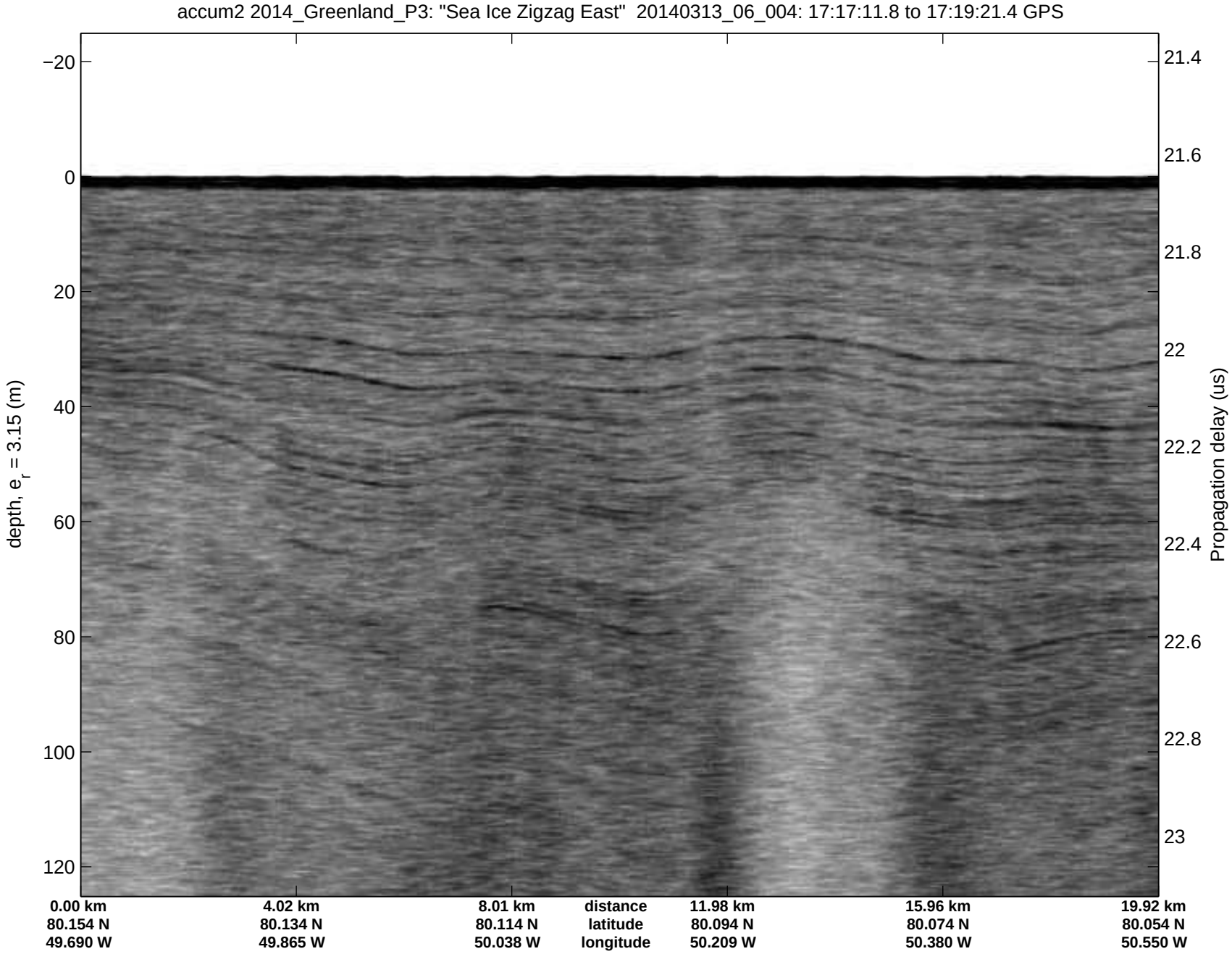

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

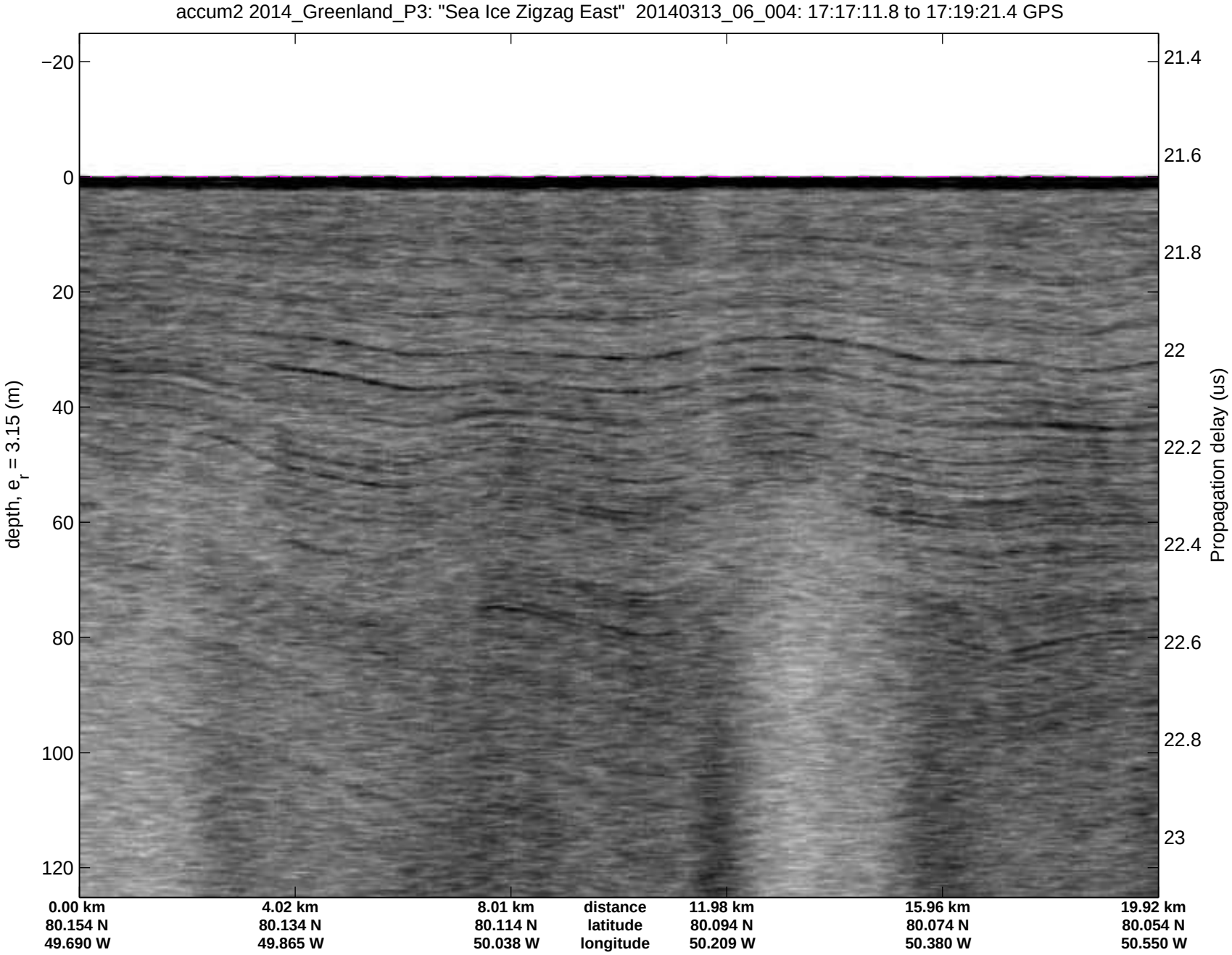

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_003: 17:15:01.6 to 17:17:11.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
21.6
21.8
22
22.2
22.4
22.6
22.8
23
23.2
0.00 km
80.252 N
48.809 W
4.01 km
80.232 N
48.987 W
8.02 km
80.213 N
49.164 W
distance
latitude
longitude
11.99 km
80.193 N
49.339 W
15.96 km
80.174 N
49.513 W
19.94 km
80.154 N
49.687 W

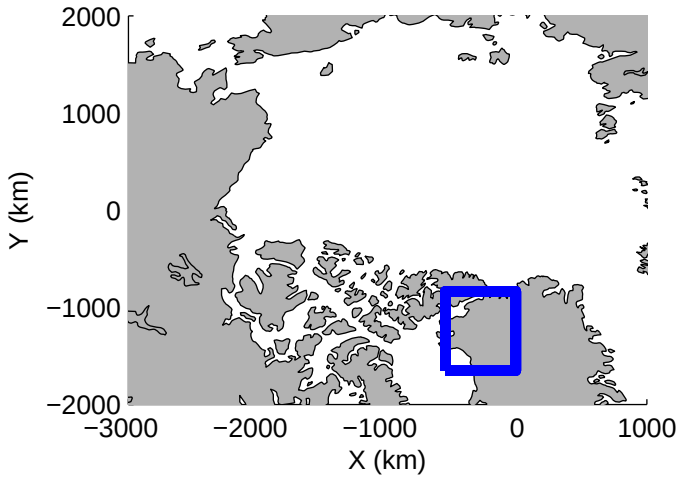

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_003: 17:15:01.6 to 17:17:11.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
21.6
21.8
22
22.2
22.4
22.6
22.8
23
23.2
0.00 km
80.252 N
48.809 W
4.01 km
80.232 N
48.987 W
8.02 km
80.213 N
49.164 W
distance
latitude
longitude
11.99 km
80.193 N
49.339 W
15.96 km
80.174 N
49.513 W
19.94 km
80.154 N
49.687 W

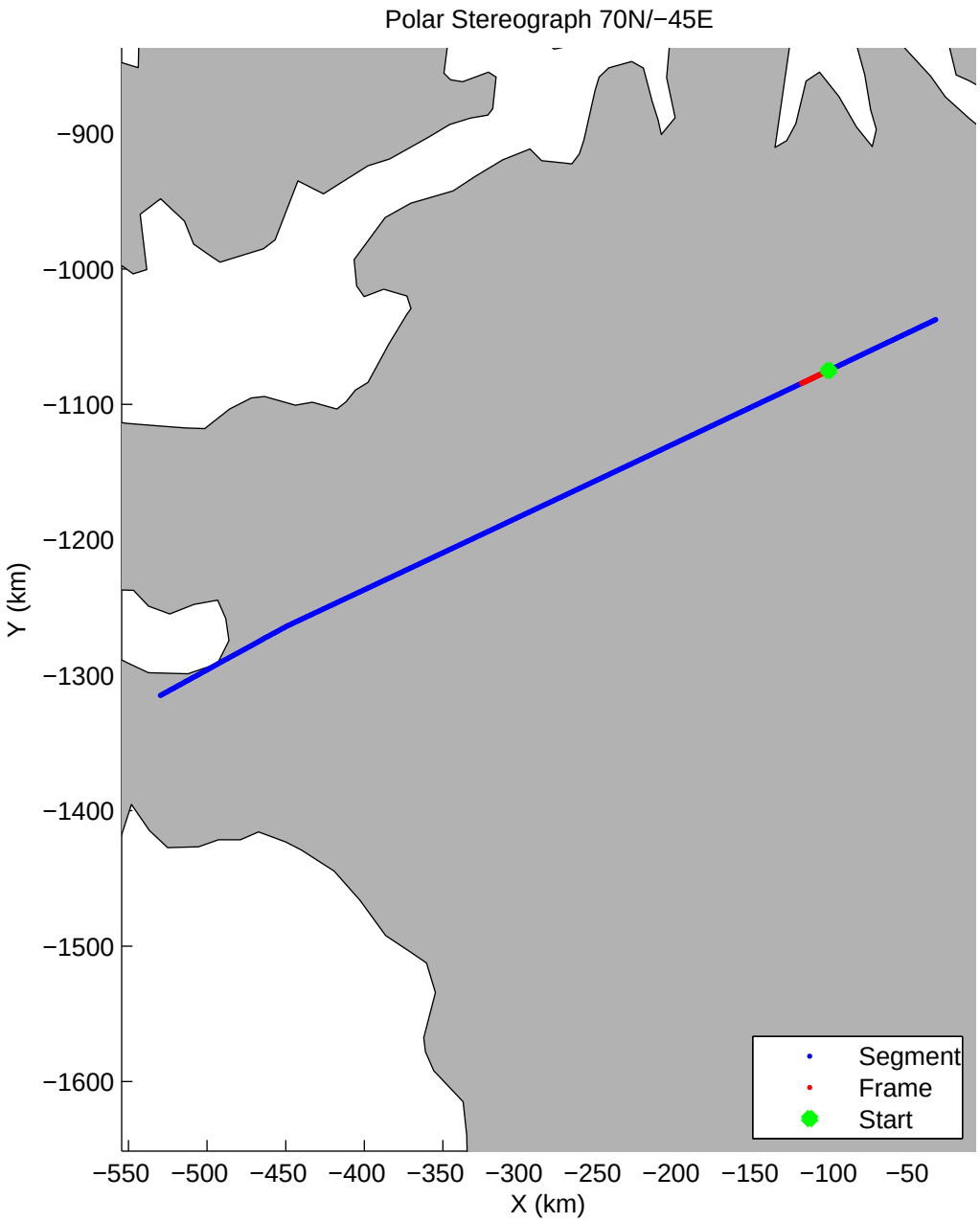

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

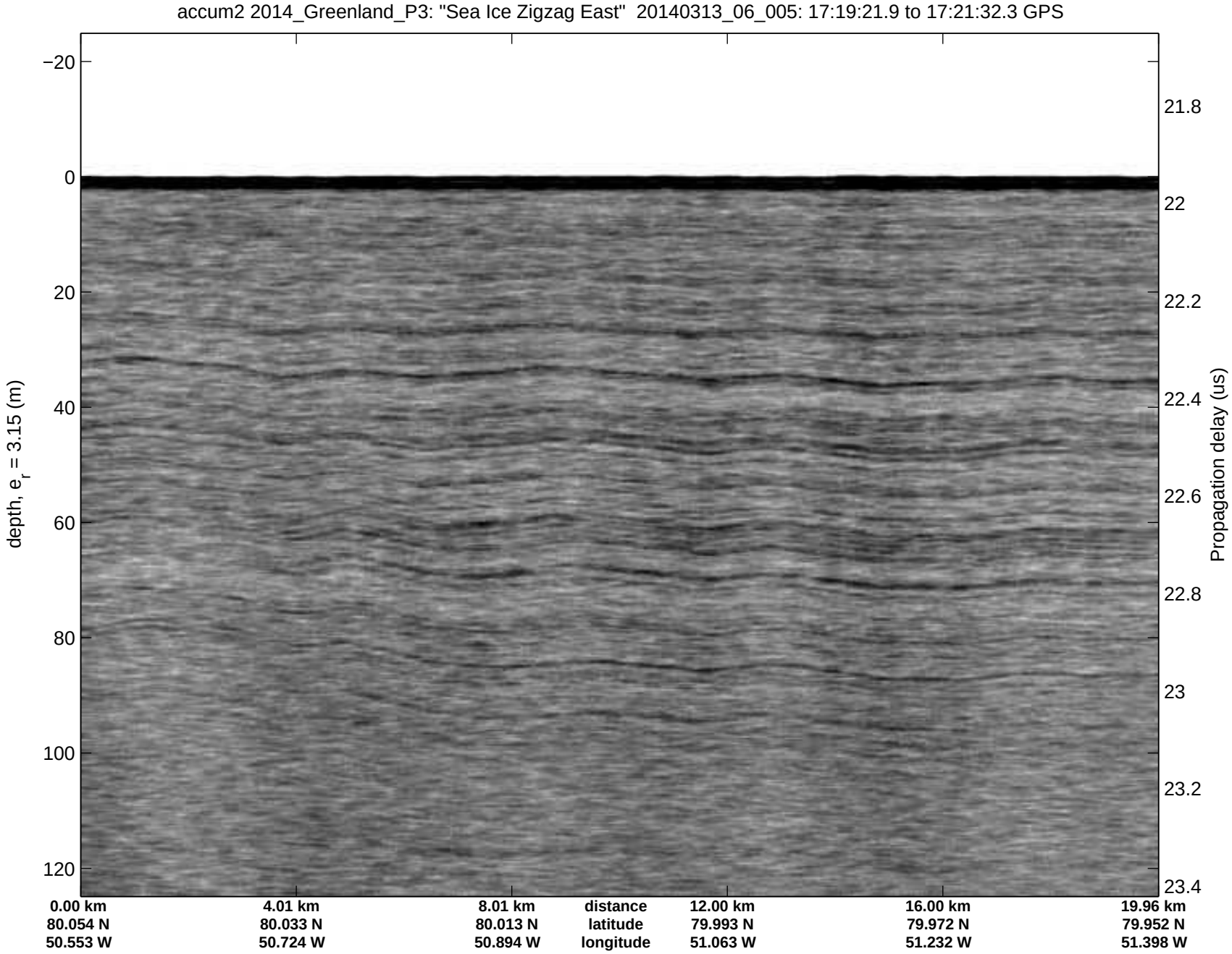

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

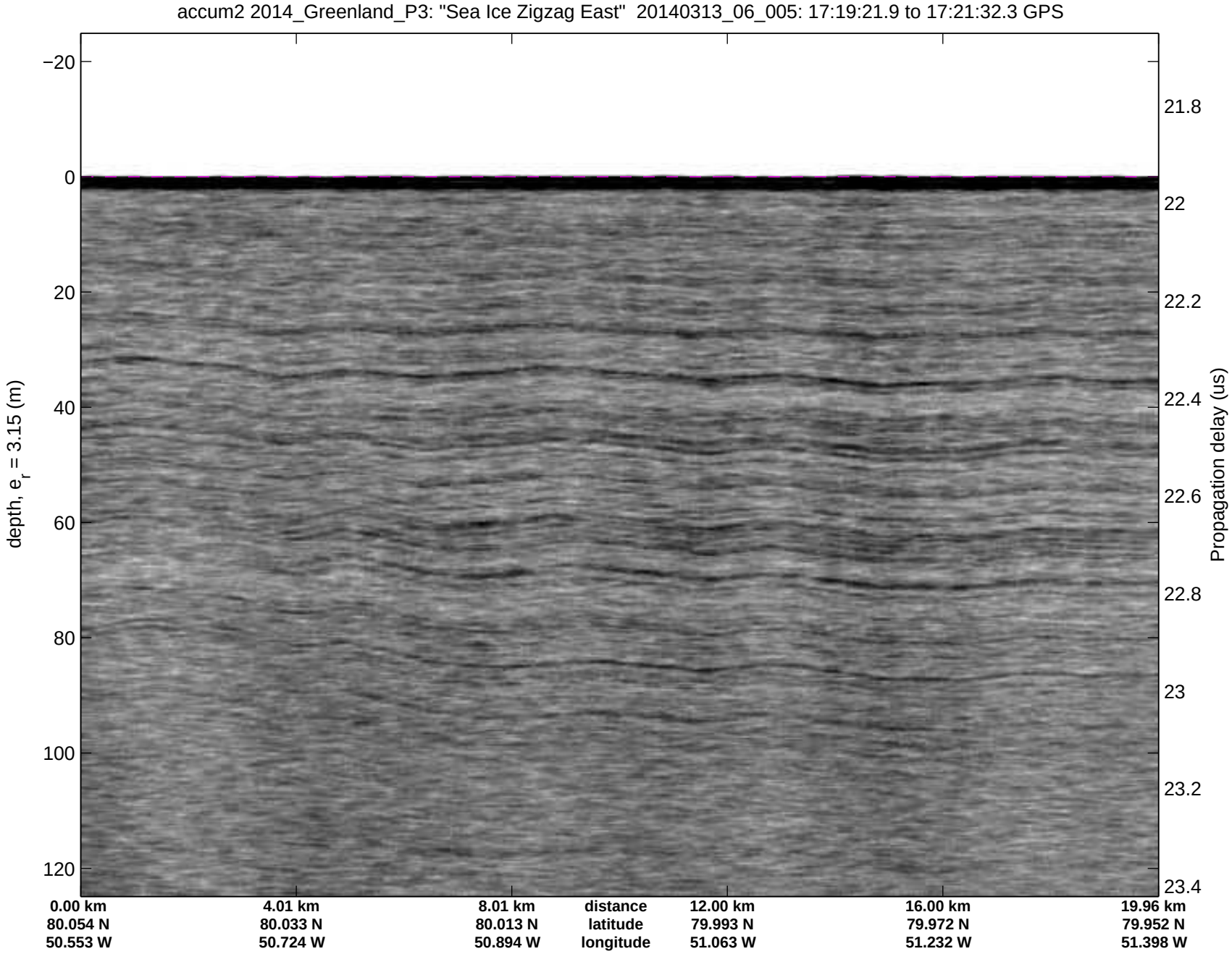

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_004: 17:17:11.8 to 17:19:21.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
21.4
21.6
21.8
22
22.2
22.4
22.6
22.8
23
Propagation delay (us)
0.00 km
80.154 N
49.690 W
4.02 km
80.134 N
49.865 W
8.01 km
80.114 N
50.038 W
distance
latitude
longitude
11.98 km
80.094 N
50.209 W
15.96 km
80.074 N
50.380 W
19.92 km
80.054 N
50.550 W

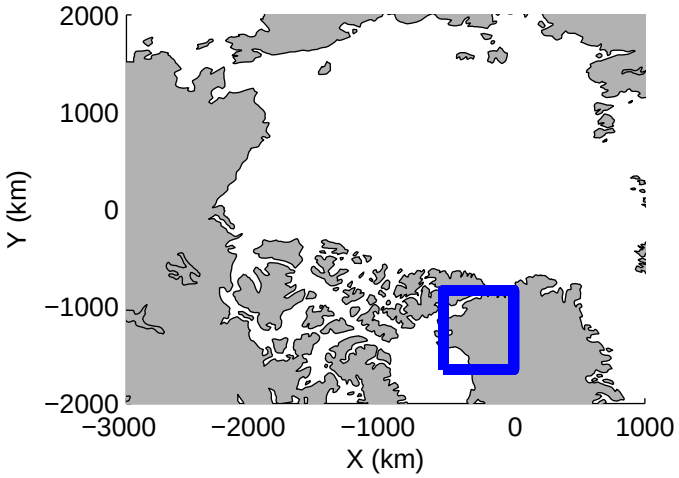

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_004: 17:17:11.8 to 17:19:21.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
21.4
21.6
21.8
22
22.2
22.4
22.6
22.8
23
Propagation delay (us)
0.00 km
80.154 N
49.690 W
4.02 km
80.134 N
49.865 W
8.01 km
80.114 N
50.038 W
distance
latitude
longitude
11.98 km
80.094 N
50.209 W
15.96 km
80.074 N
50.380 W
19.92 km
80.054 N
50.550 W

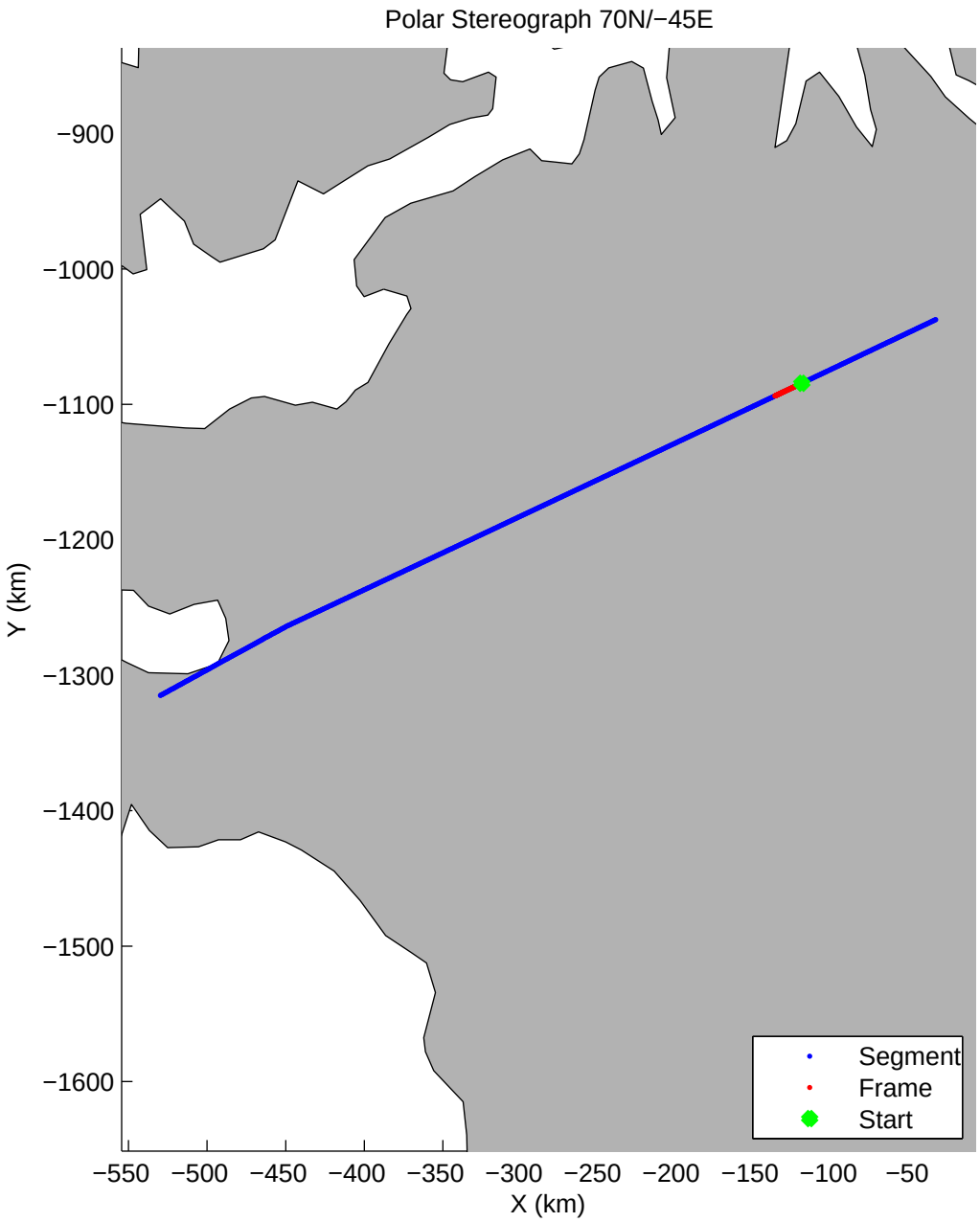

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

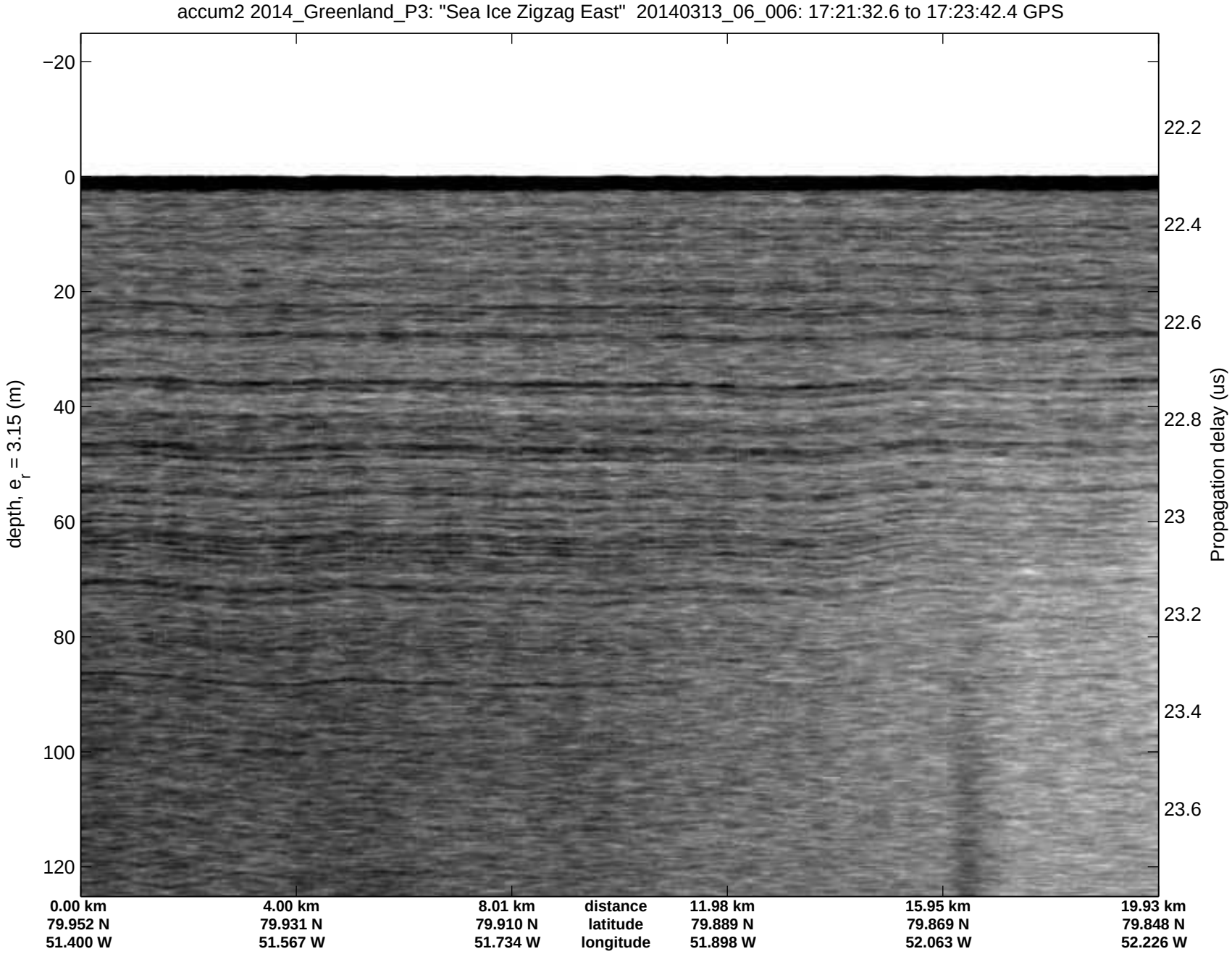

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

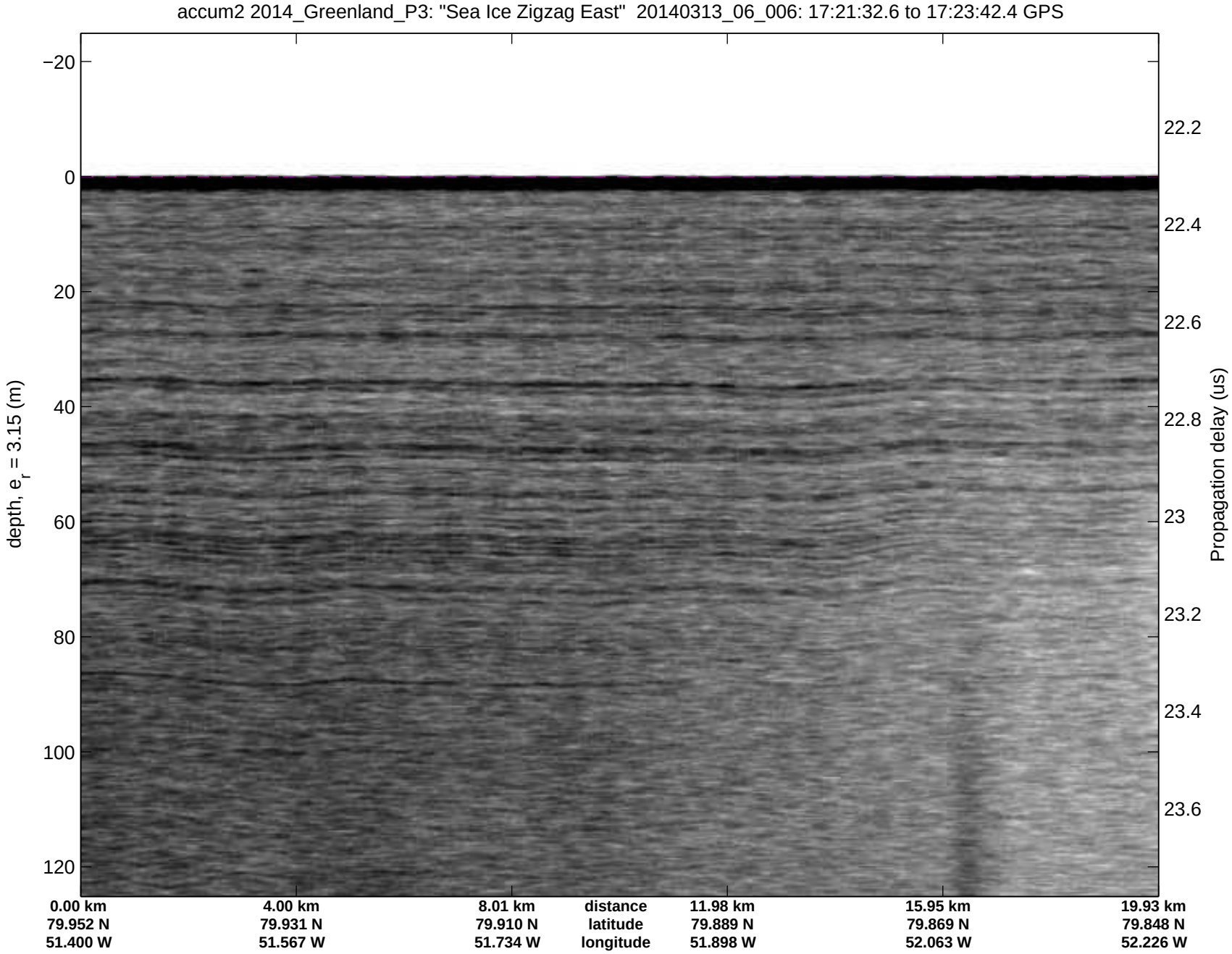

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_005: 17:19:21.9 to 17:21:32.3 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
21.8
22
22.2
22.4
22.6
22.8
23
23.2
23.4
0.00 km
80.054 N
50.553 W
4.01 km
80.033 N
50.724 W
8.01 km
80.013 N
50.894 W
distance
latitude
longitude
12.00 km
79.993 N
51.063 W
16.00 km
79.972 N
51.232 W
19.96 km
79.952 N
51.398 W

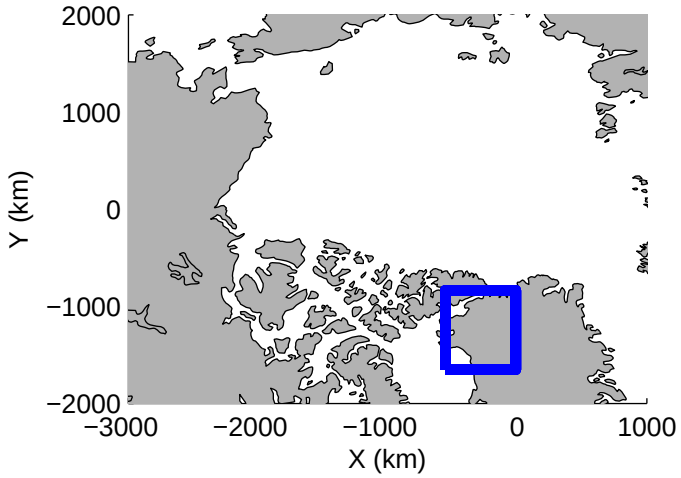

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_005: 17:19:21.9 to 17:21:32.3 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
21.8
22
22.2
22.4
22.6
22.8
23
23.2
23.4
0.00 km
80.054 N
50.553 W
4.01 km
80.033 N
50.724 W
8.01 km
80.013 N
50.894 W
distance
latitude
longitude
12.00 km
79.993 N
51.063 W
16.00 km
79.972 N
51.232 W
19.96 km
79.952 N
51.398 W

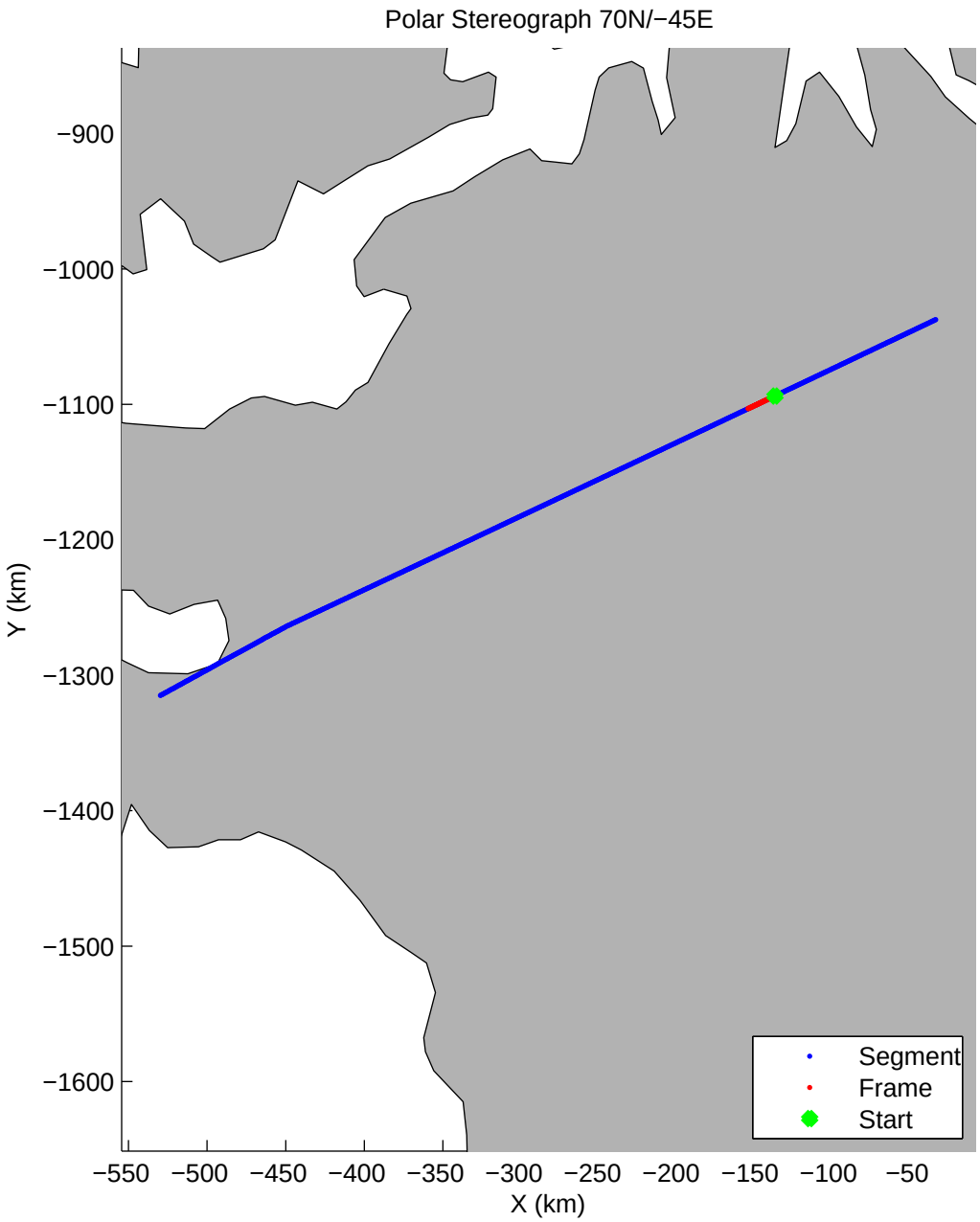

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

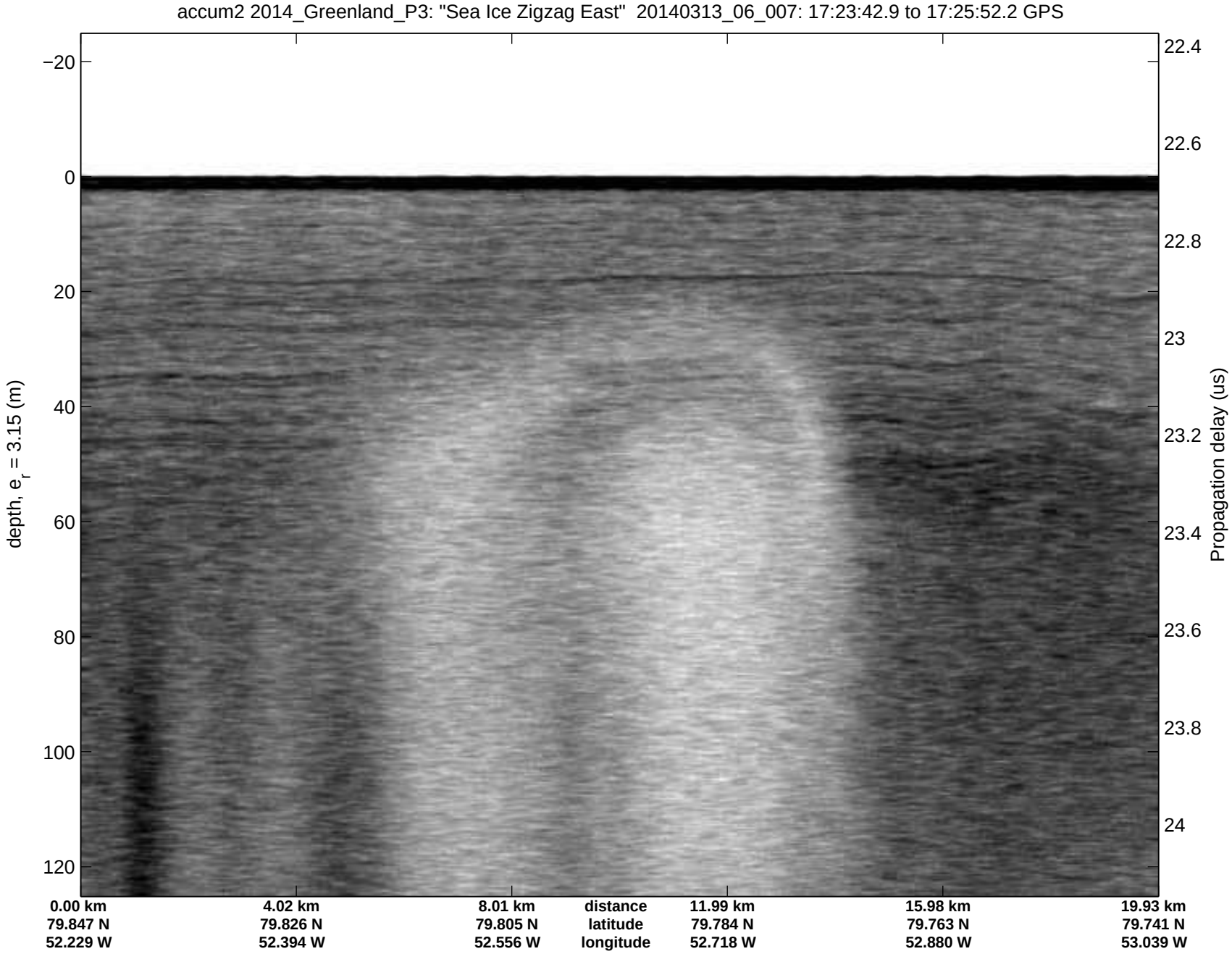

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start


accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_006: 17:21:32.6 to 17:23:42.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.2
22.4
22.6
22.8
23
23.2
23.4
23.6
0.00 km
79.952 N
51.400 W
4.00 km
79.931 N
51.567 W
8.01 km
79.910 N
51.734 W
distance
latitude
longitude
11.98 km
79.889 N
51.898 W
15.95 km
79.869 N
52.063 W
19.93 km
79.848 N
52.226 W

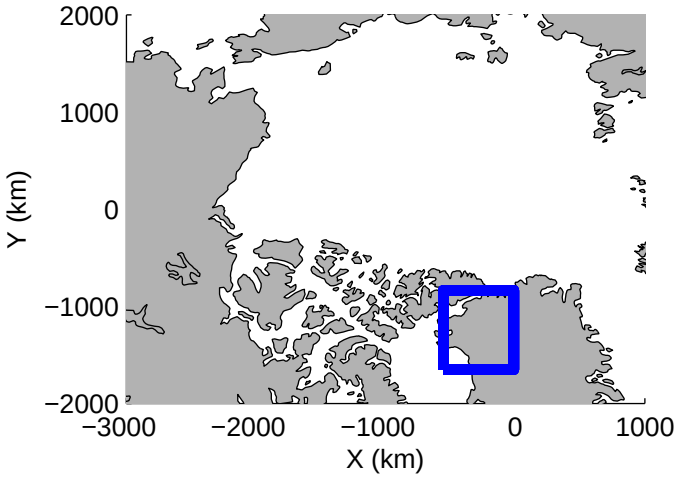

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_006: 17:21:32.6 to 17:23:42.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.2
22.4
22.6
22.8
23
23.2
23.4
23.6
0.00 km
79.952 N
51.400 W
4.00 km
79.931 N
51.567 W
8.01 km
79.910 N
51.734 W
distance
latitude
longitude
11.98 km
79.889 N
51.898 W
15.95 km
79.869 N
52.063 W
19.93 km
79.848 N
52.226 W

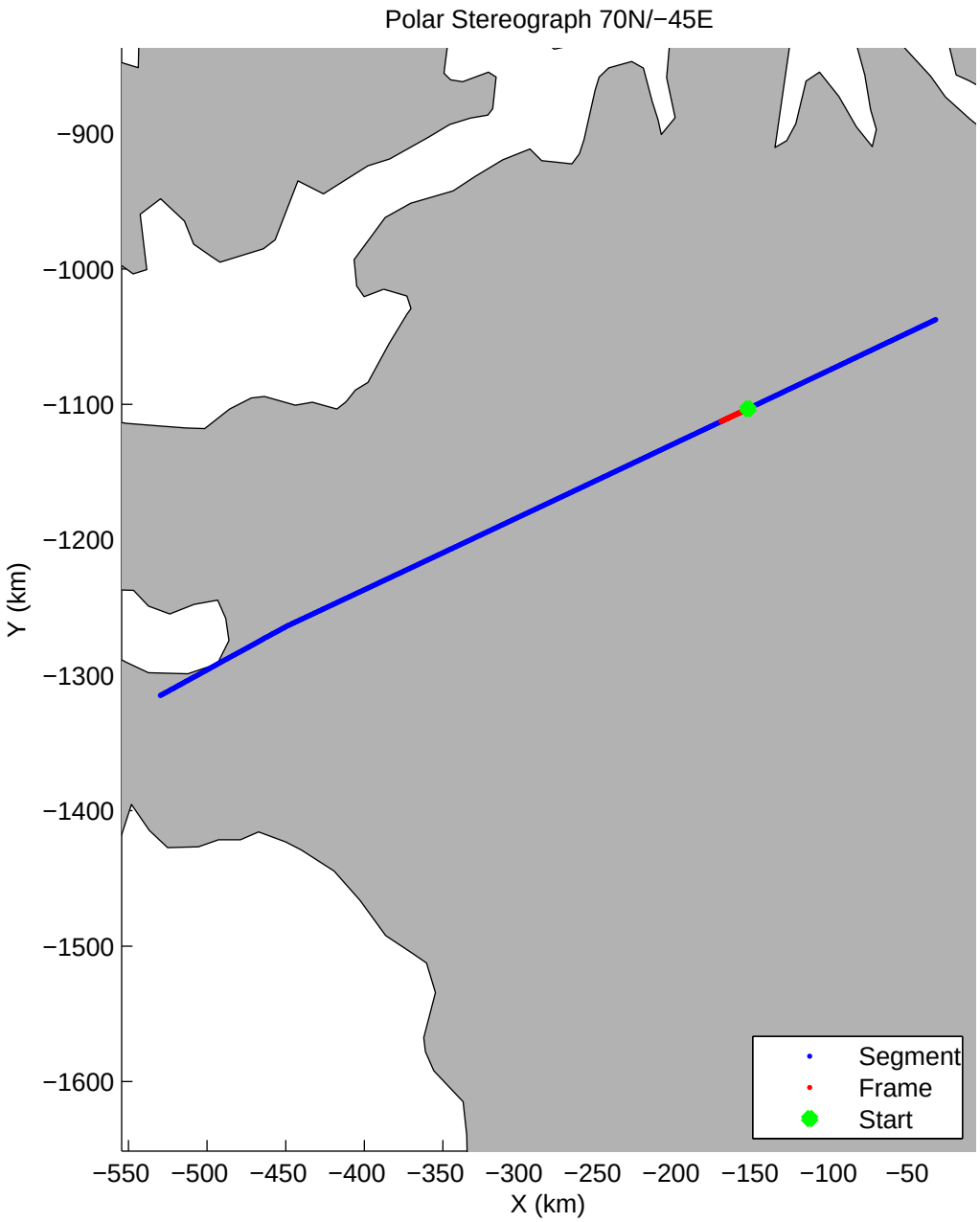

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

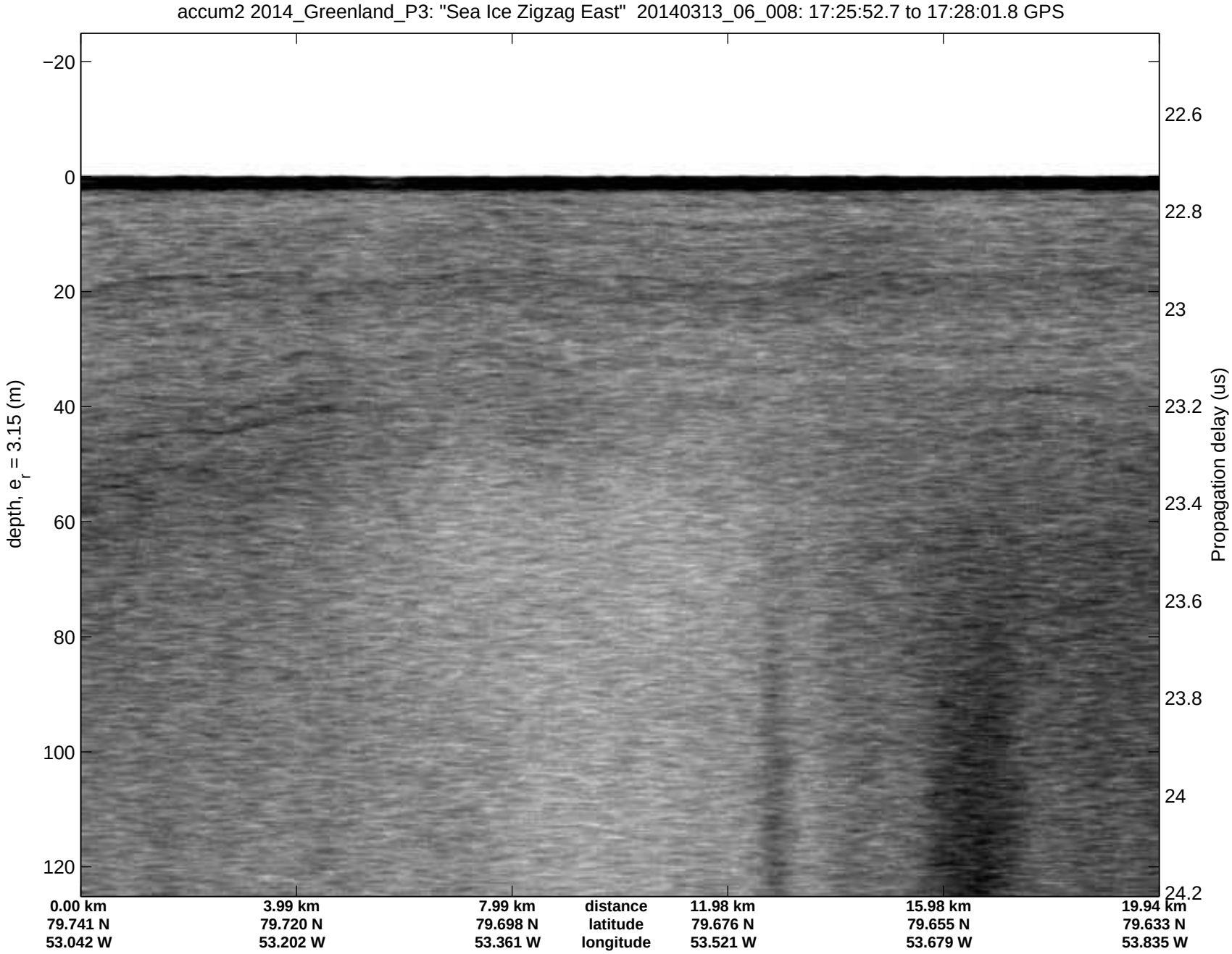

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

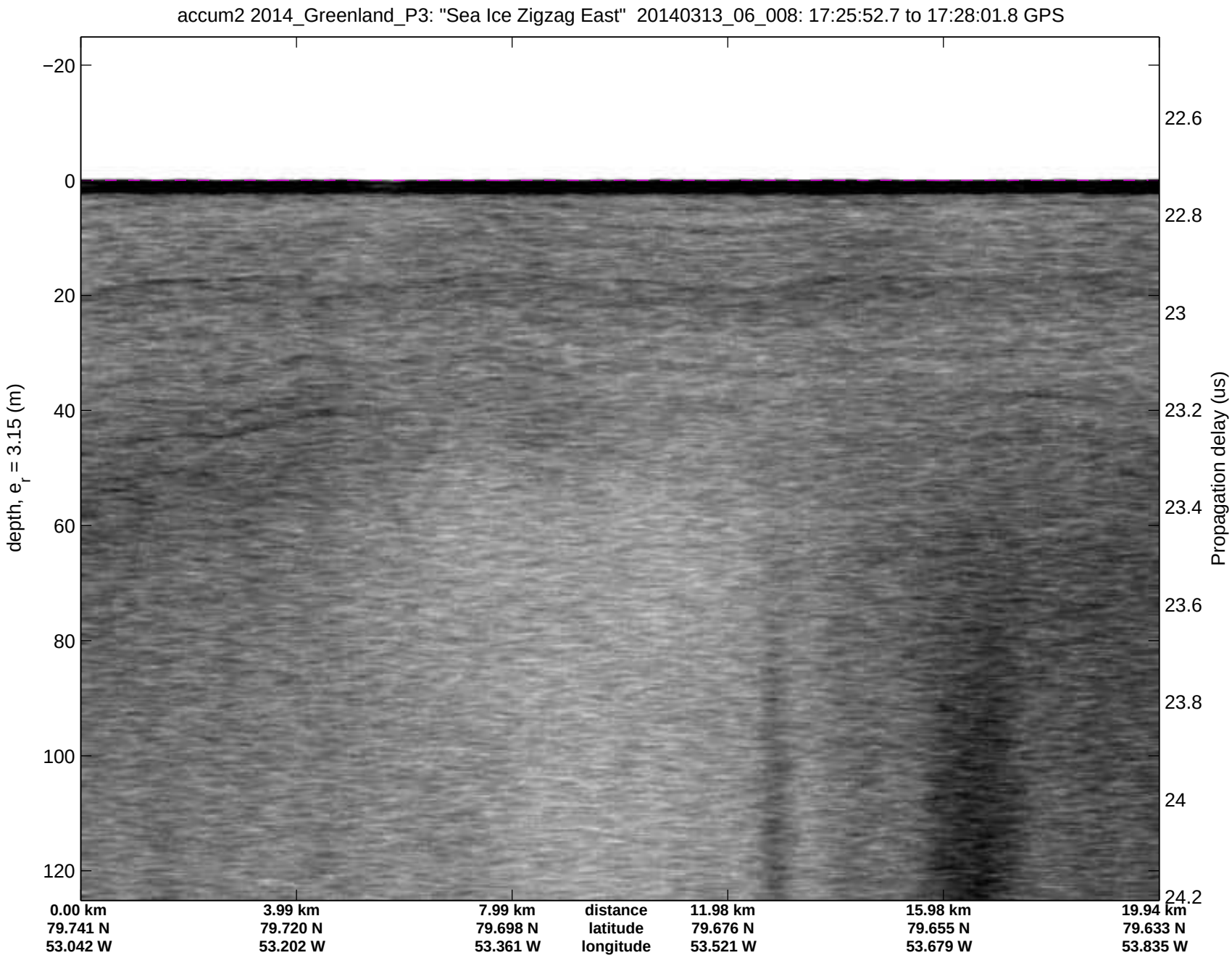

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_007: 17:23:42.9 to 17:25:52.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
79.847 N
52.229 W
4.02 km
79.826 N
52.394 W
8.01 km
79.805 N
52.556 W
distance
latitude
longitude
11.99 km
79.784 N
52.718 W
15.98 km
79.763 N
52.880 W
19.93 km
79.741 N
53.039 W

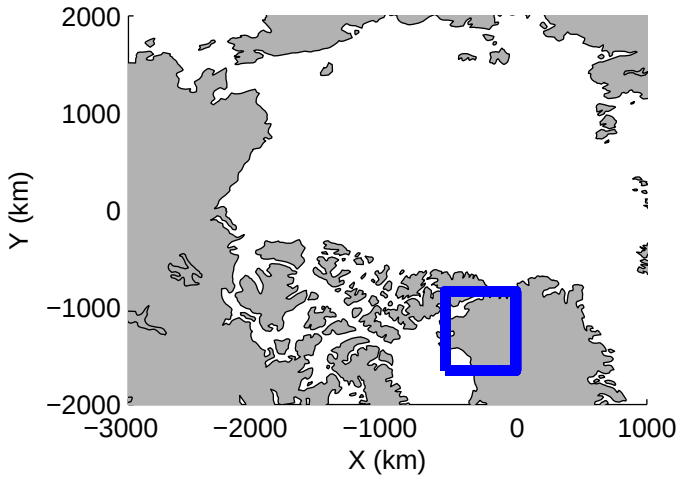
accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_007: 17:23:42.9 to 17:25:52.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
79.847 N
52.229 W
4.02 km
79.826 N
52.394 W
8.01 km
79.805 N
52.556 W
distance
latitude
longitude
11.99 km
79.784 N
52.718 W
15.98 km
79.763 N
52.880 W
19.93 km
79.741 N
53.039 W

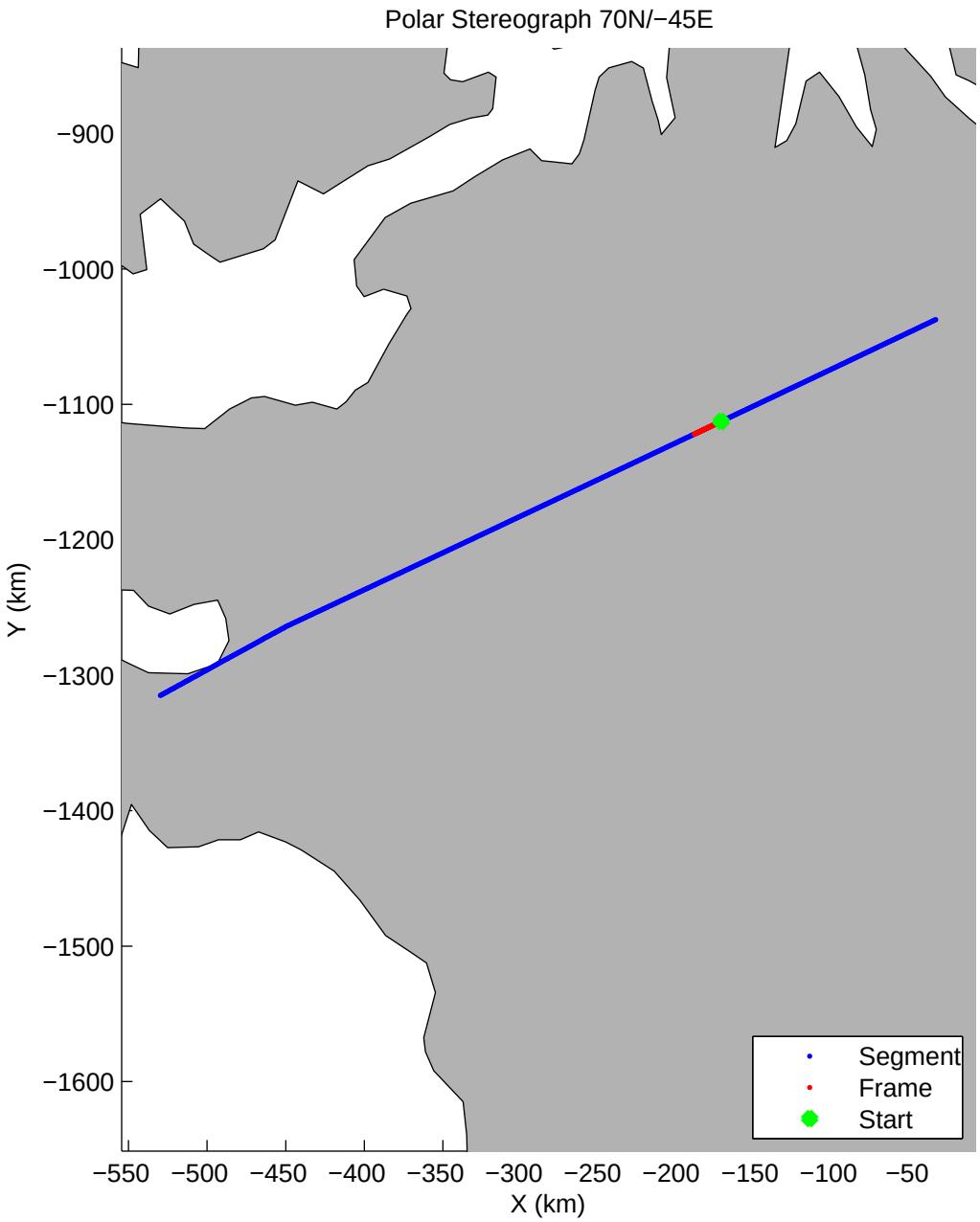

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

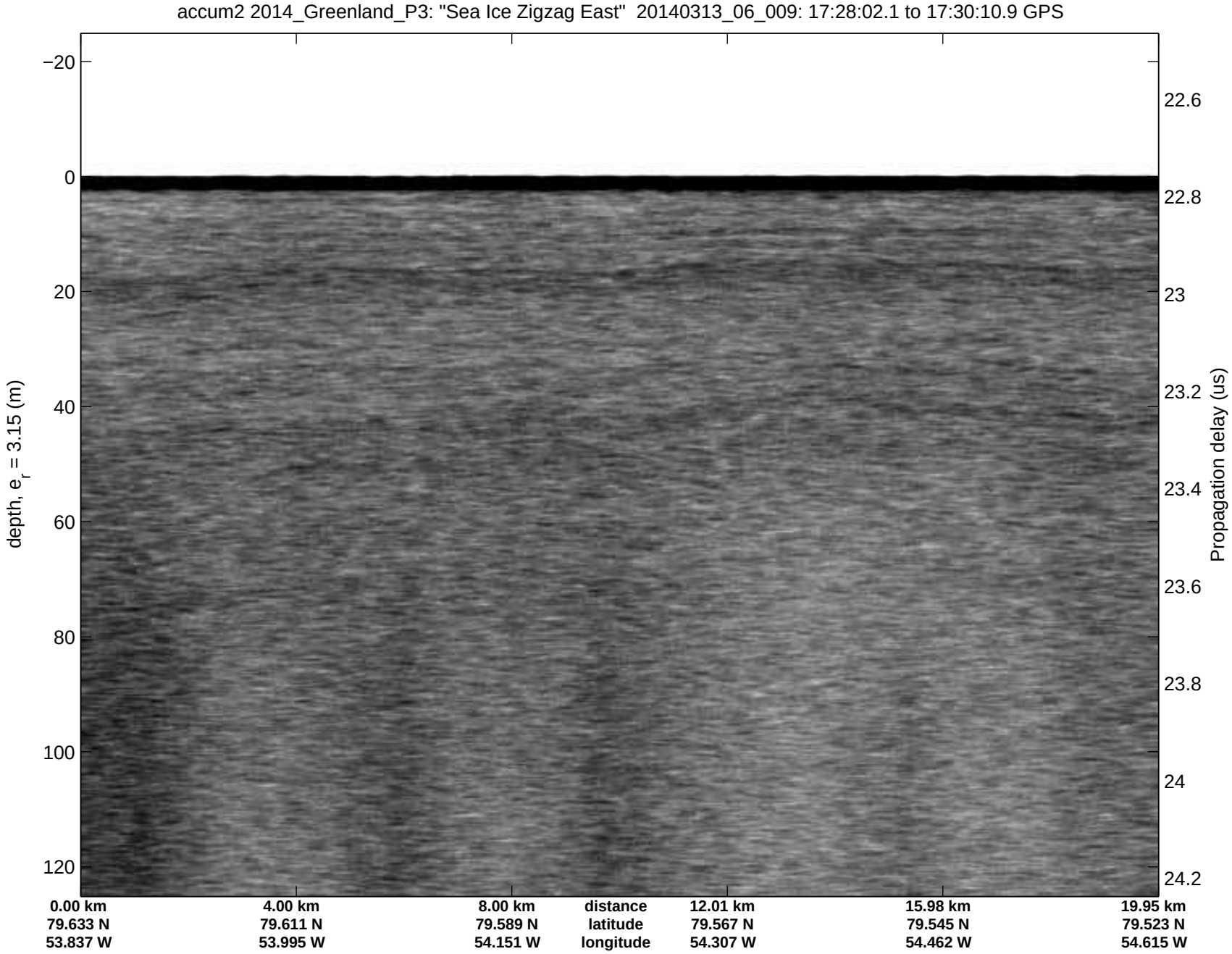

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

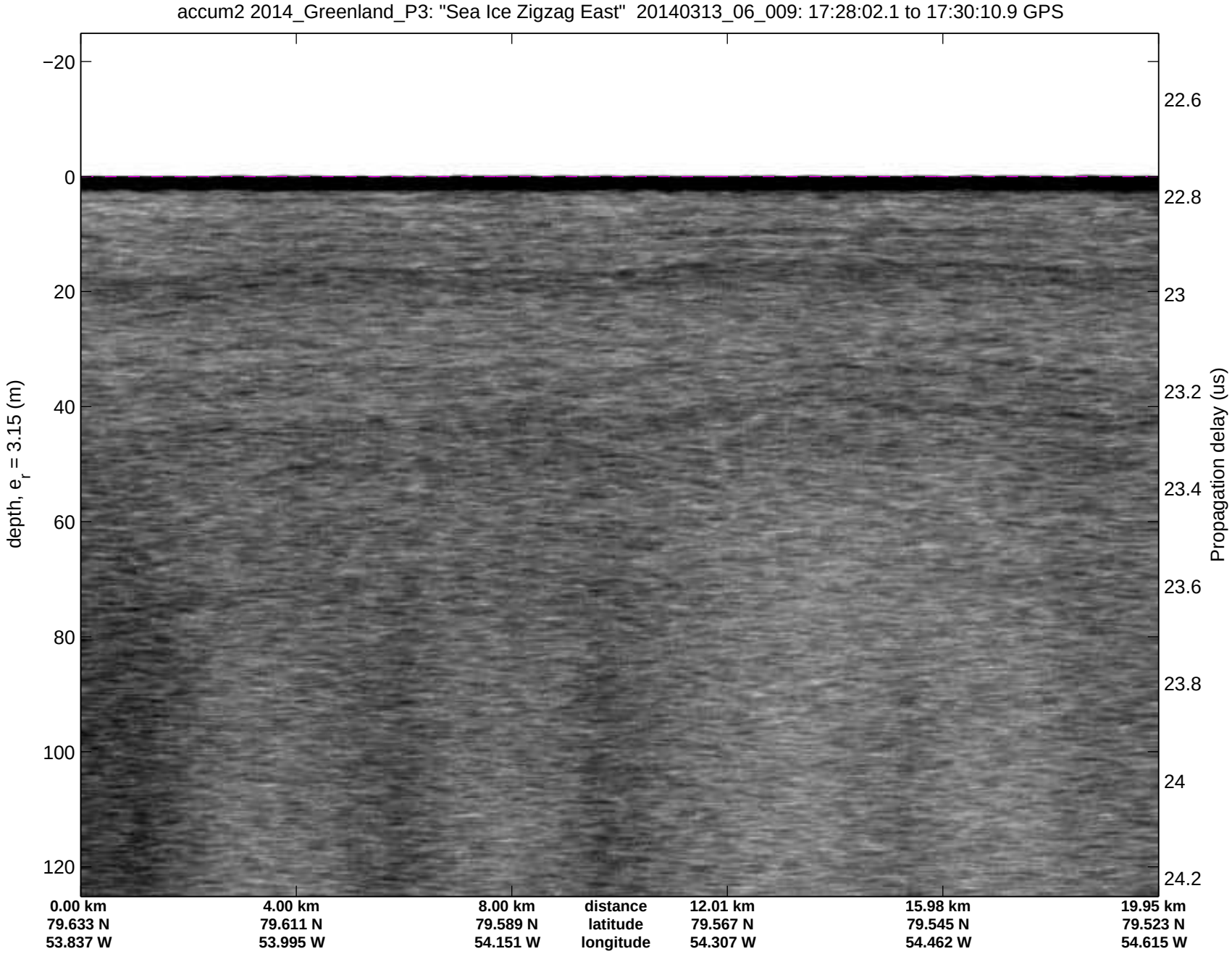

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_008: 17:25:52.7 to 17:28:01.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
79.741 N
53.042 W
3.99 km
79.720 N
53.202 W
7.99 km
79.698 N
53.361 W
distance
latitude
longitude
11.98 km
79.676 N
53.521 W
15.98 km
79.655 N
53.679 W
19.94 km
79.633 N
53.835 W

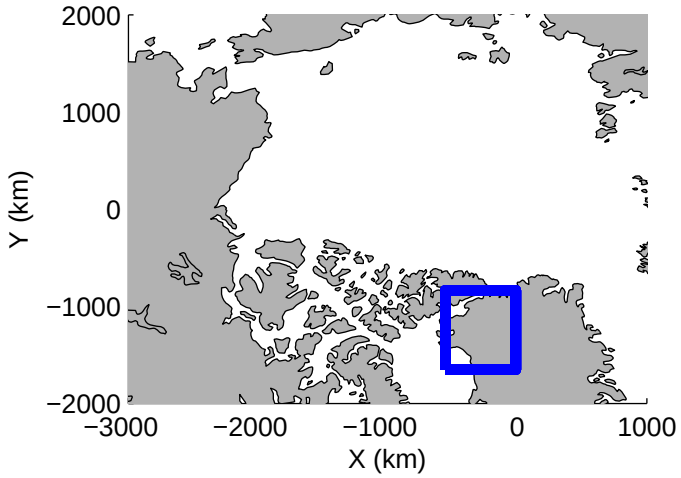

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_008: 17:25:52.7 to 17:28:01.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
79.741 N
53.042 W
3.99 km
79.720 N
53.202 W
7.99 km
79.698 N
53.361 W
distance
latitude
longitude
11.98 km
79.676 N
53.521 W
15.98 km
79.655 N
53.679 W
19.94 km
79.633 N
53.835 W

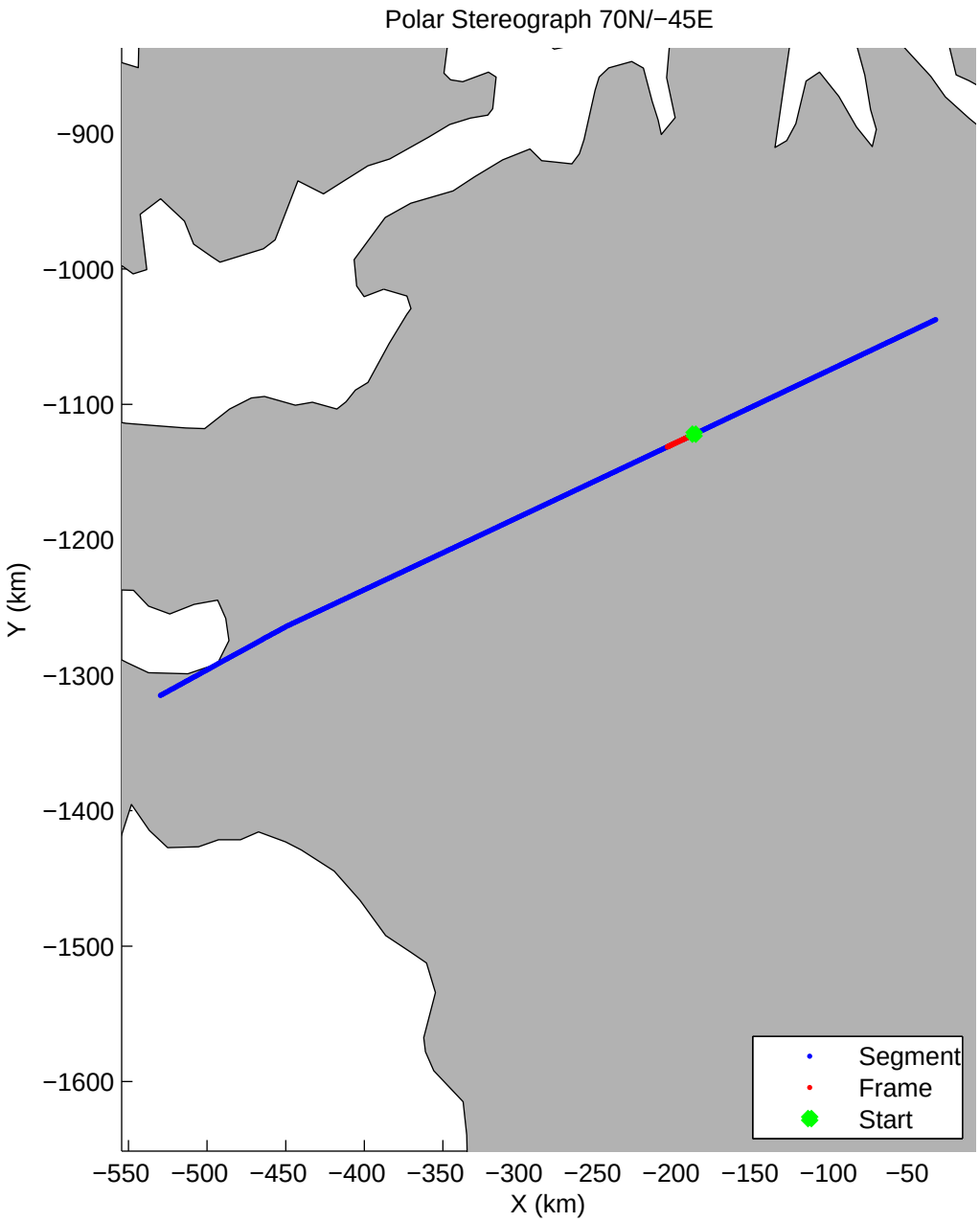

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

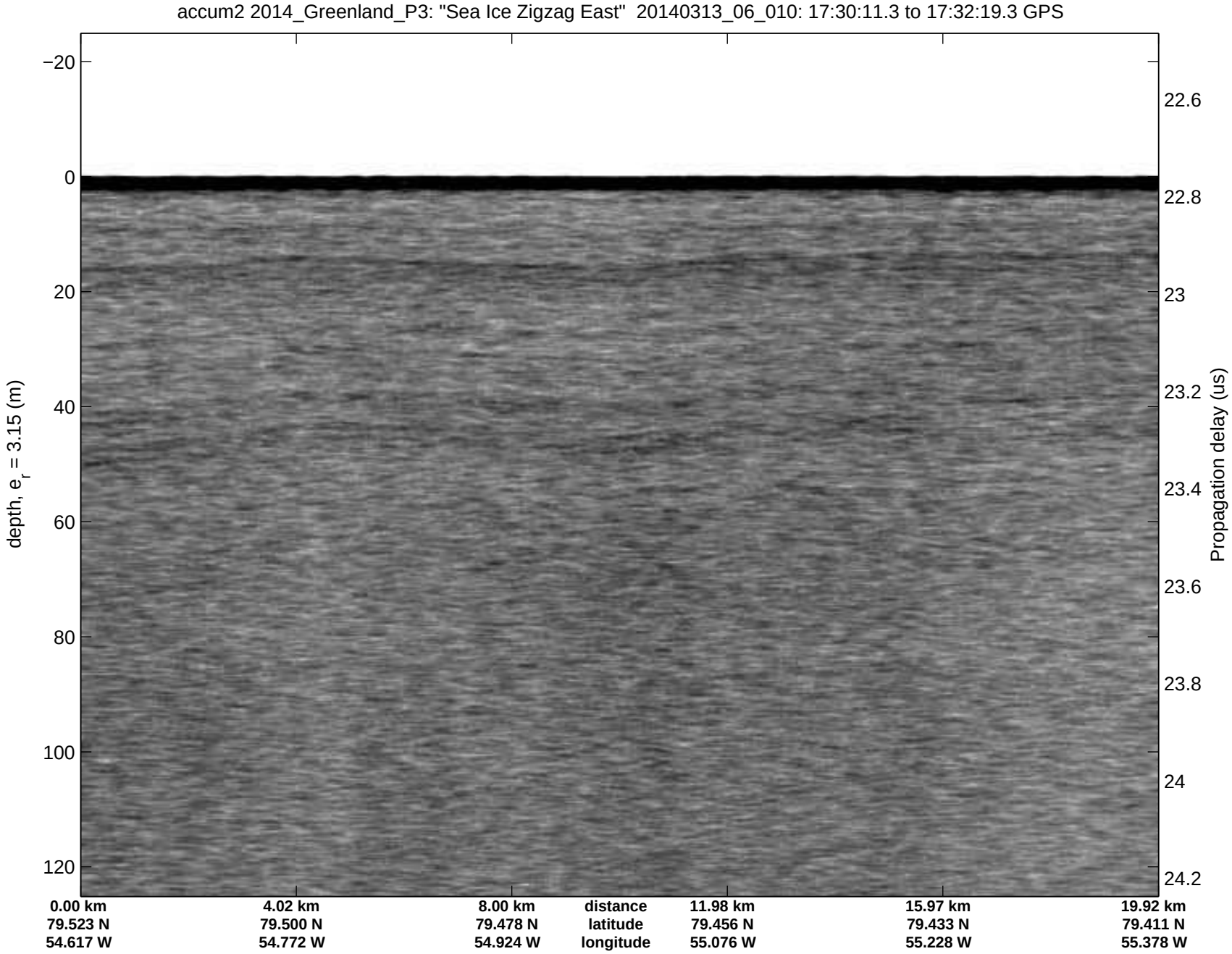

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

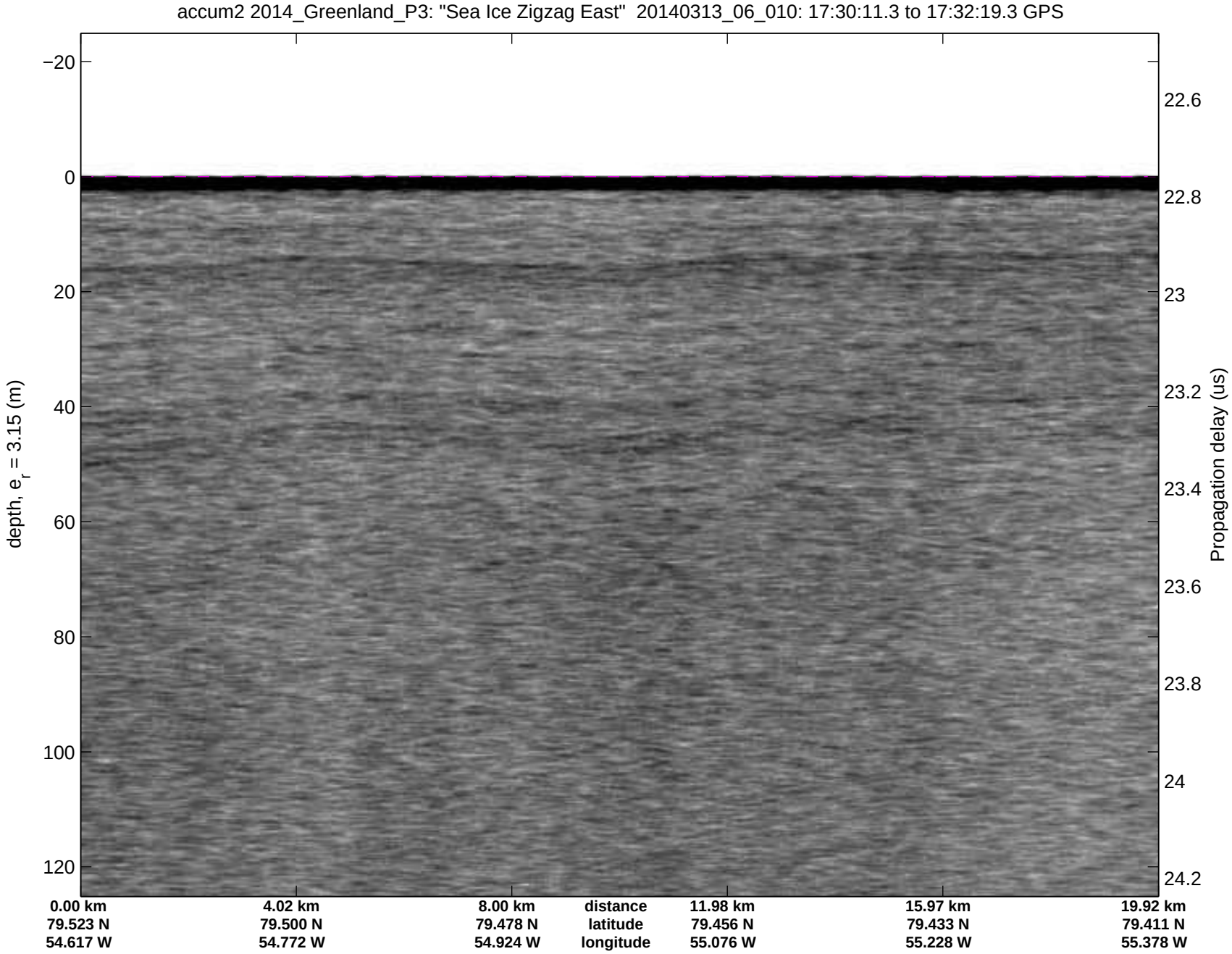

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_009: 17:28:02.1 to 17:30:10.9 GPS
−20
0
20
40
60
80
100
120
depth, e_r = 3.15 (m)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
Propagation delay (us)
0.00 km
79.633 N
53.837 W
4.00 km
79.611 N
53.995 W
8.00 km
79.589 N
54.151 W
distance
latitude
longitude
12.01 km
79.567 N
54.307 W
15.98 km
79.545 N
54.462 W
19.95 km
79.523 N
54.615 W

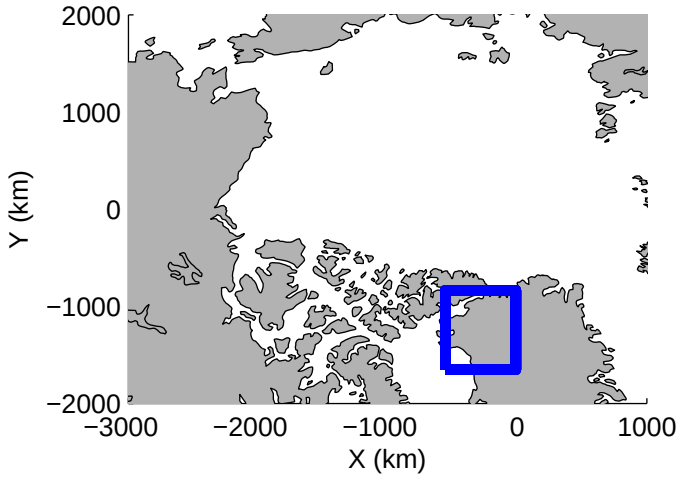

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_009: 17:28:02.1 to 17:30:10.9 GPS
−20
0
20
40
60
80
100
120
depth, e_r = 3.15 (m)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
Propagation delay (us)
0.00 km
79.633 N
53.837 W
4.00 km
79.611 N
53.995 W
8.00 km
79.589 N
54.151 W
distance
latitude
longitude
12.01 km
79.567 N
54.307 W
15.98 km
79.545 N
54.462 W
19.95 km
79.523 N
54.615 W

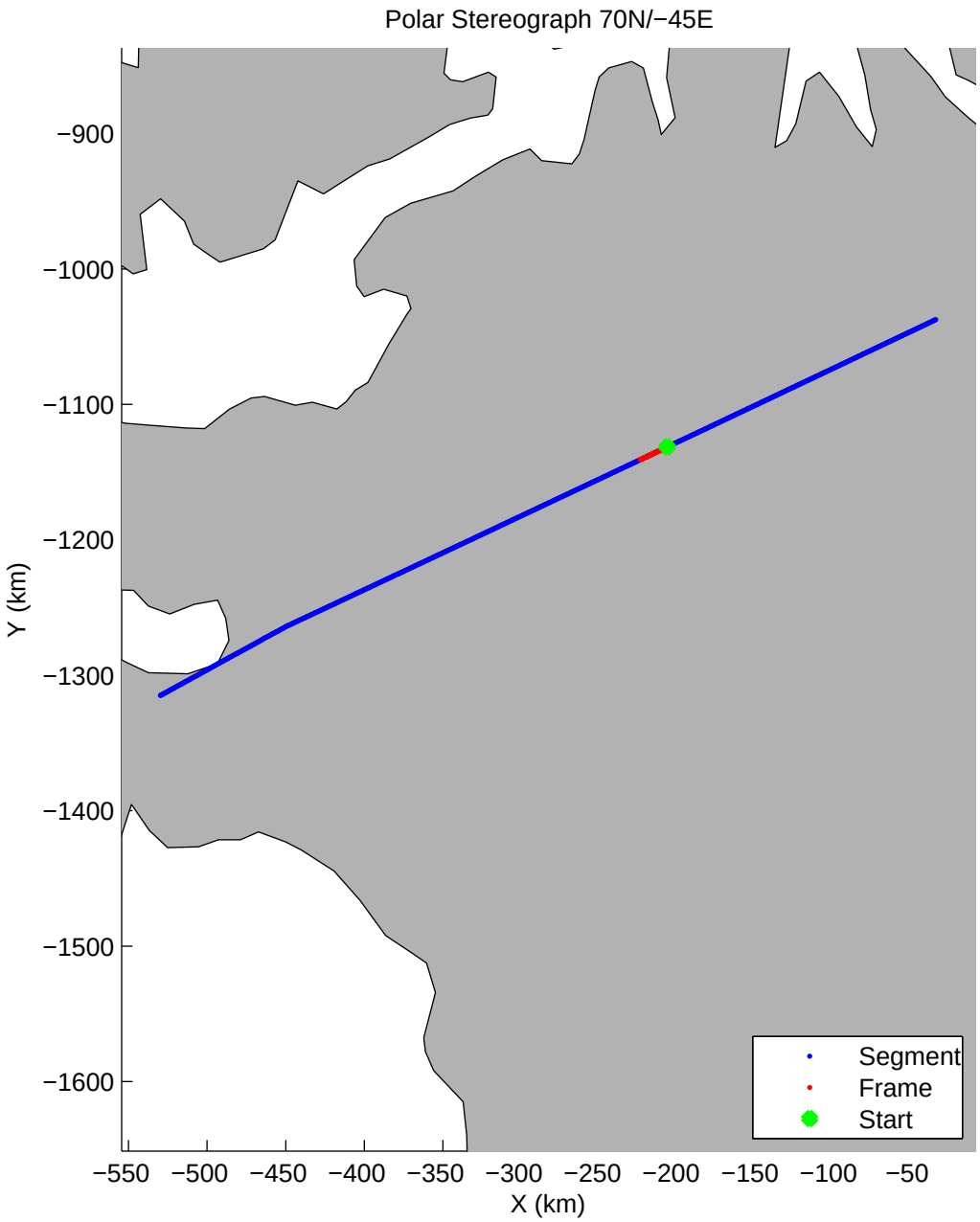

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

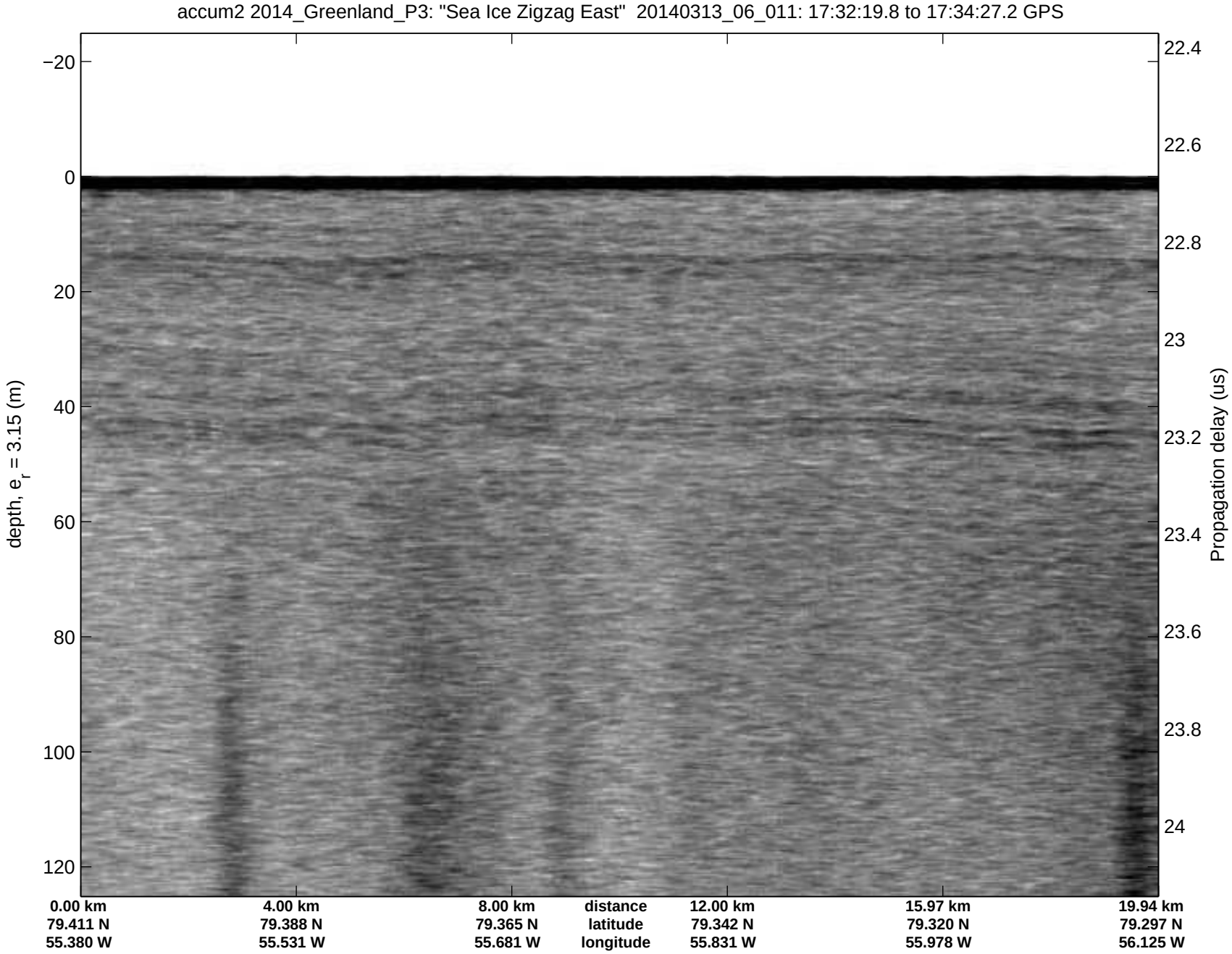

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

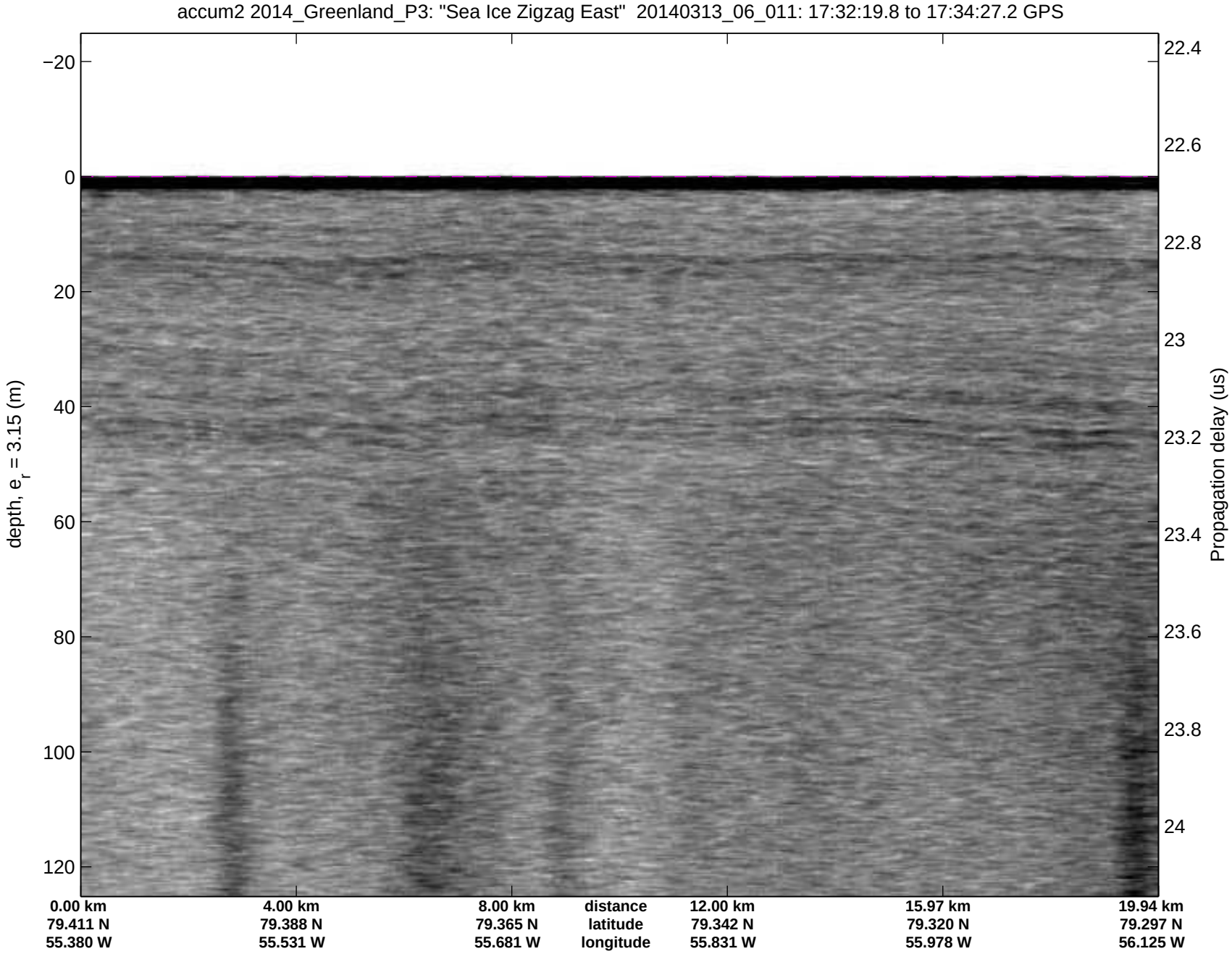

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_010: 17:30:11.3 to 17:32:19.3 GPS
depth, e_r = 3.15 (m)
Propagation delay (us)
−20
0
20
40
60
80
100
120
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
79.523 N
54.617 W
4.02 km
79.500 N
54.772 W
8.00 km
79.478 N
54.924 W
distance
latitude
longitude
11.98 km
79.456 N
55.076 W
15.97 km
79.433 N
55.228 W
19.92 km
79.411 N
55.378 W

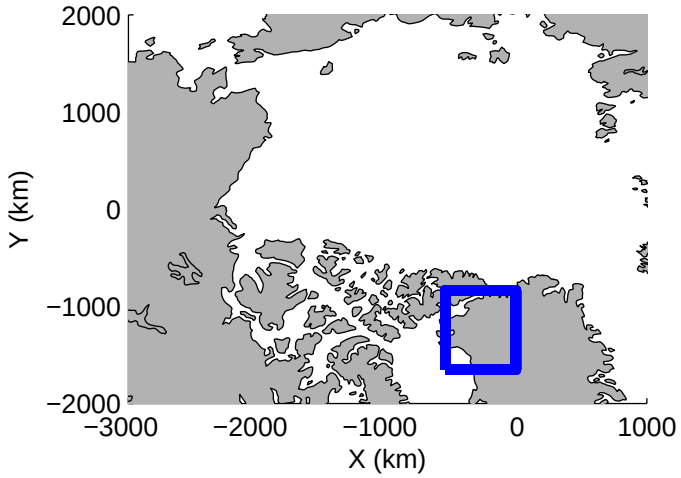

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_010: 17:30:11.3 to 17:32:19.3 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
79.523 N
54.617 W
4.02 km
79.500 N
54.772 W
8.00 km
79.478 N
54.924 W
distance
latitude
longitude
11.98 km
79.456 N
55.076 W
15.97 km
79.433 N
55.228 W
19.92 km
79.411 N
55.378 W

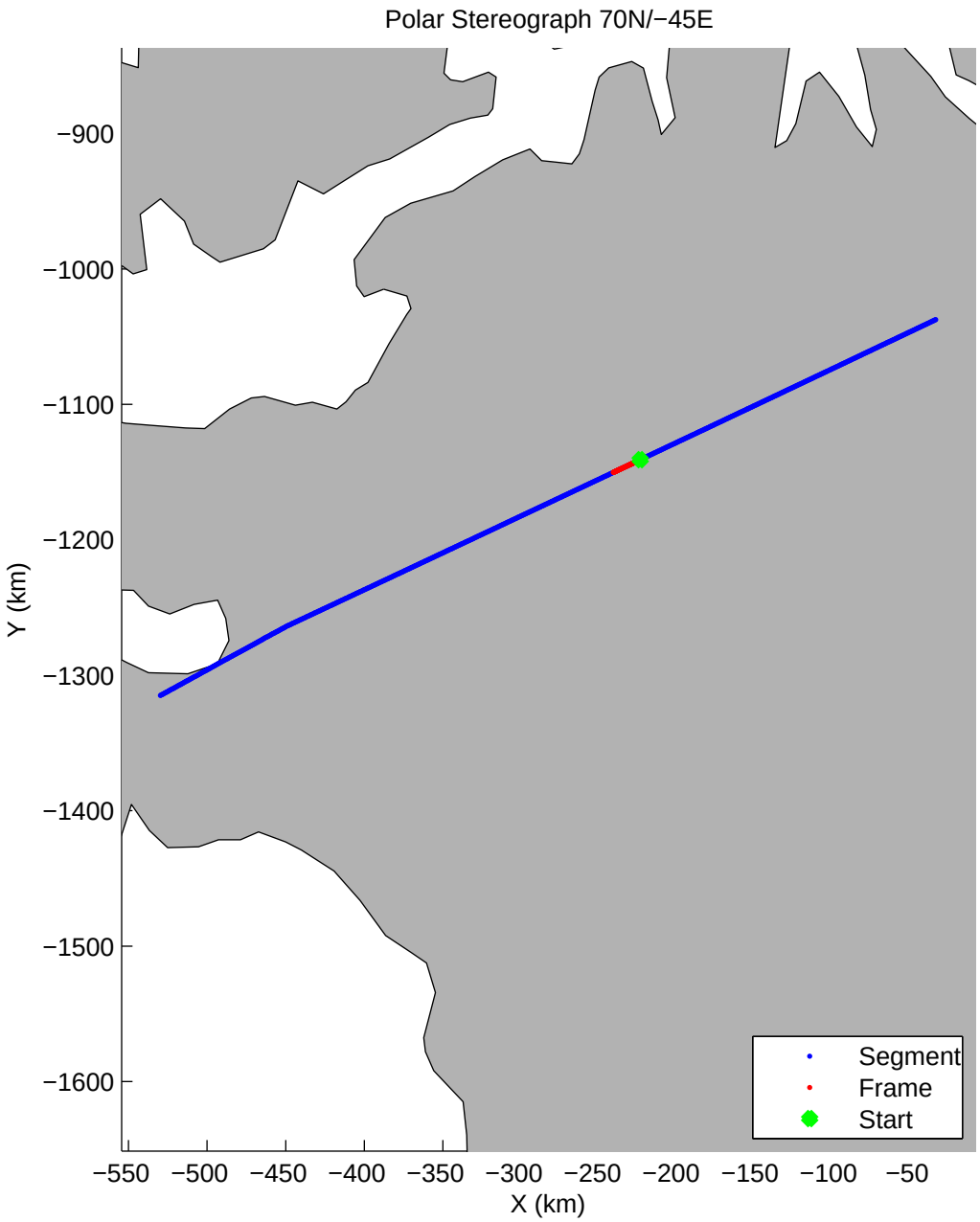

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

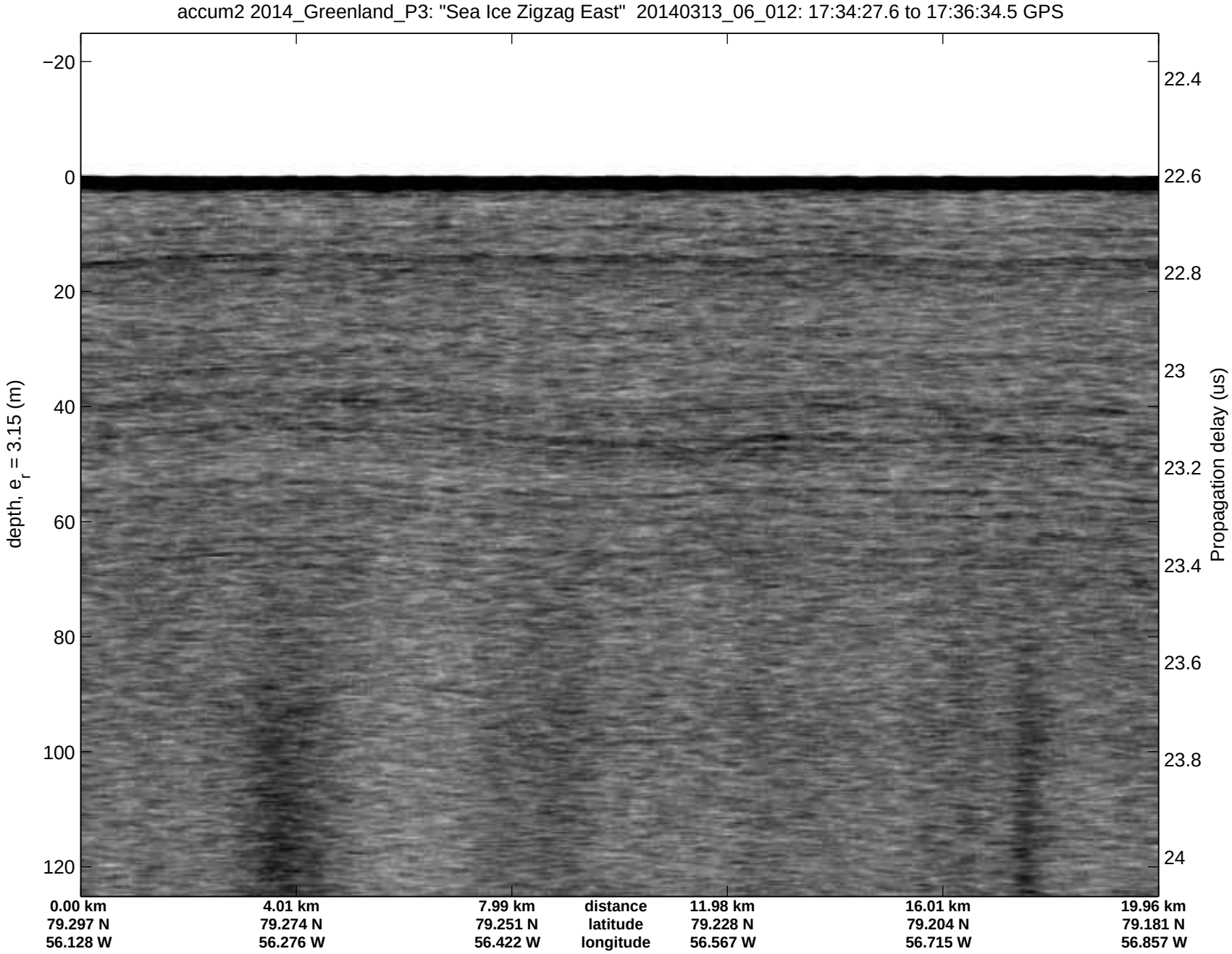

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

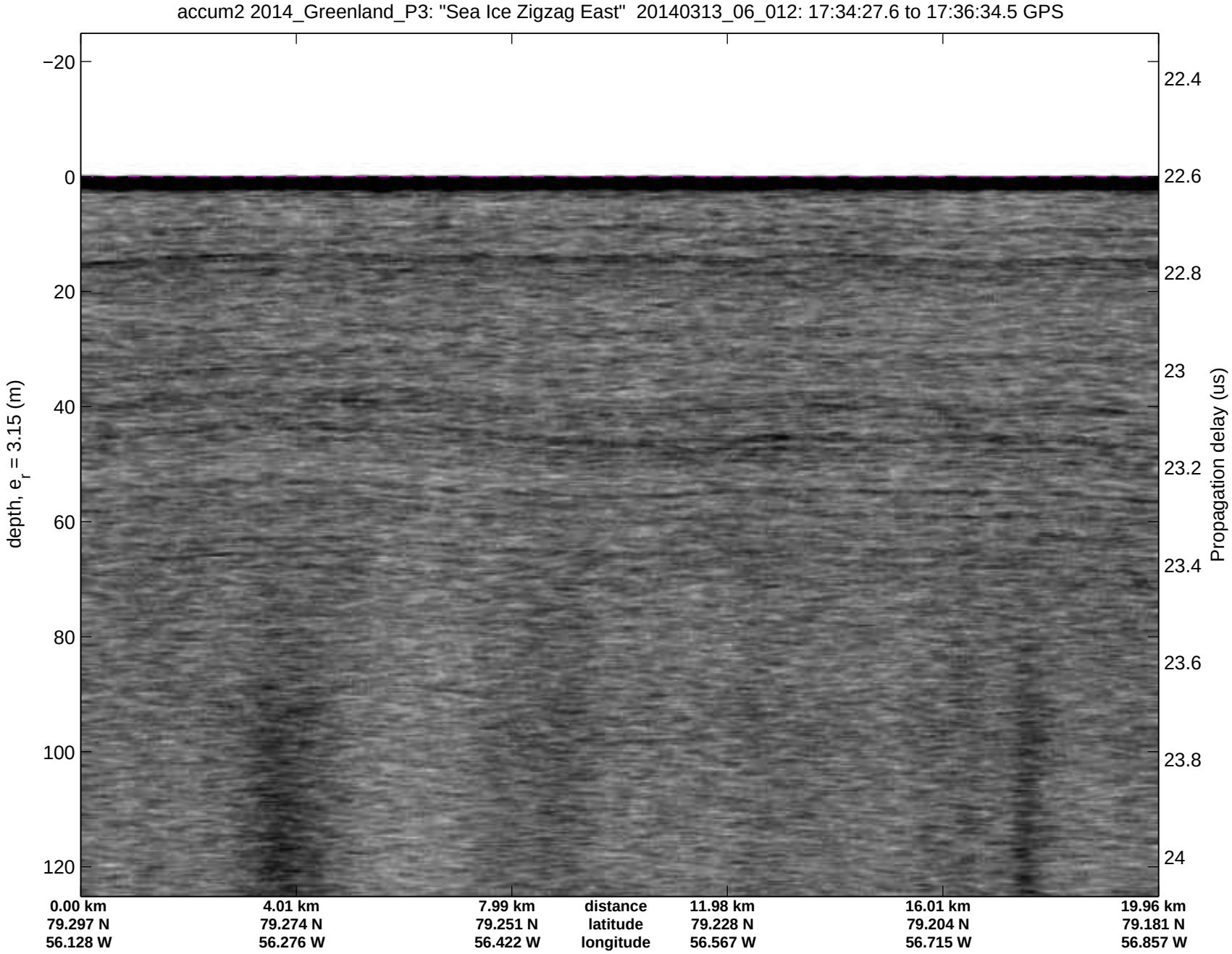

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_011: 17:32:19.8 to 17:34:27.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
79.411 N
55.380 W
4.00 km
79.388 N
55.531 W
8.00 km
79.365 N
55.681 W
distance
latitude
longitude
12.00 km
79.342 N
55.831 W
15.97 km
79.320 N
55.978 W
19.94 km
79.297 N
56.125 W

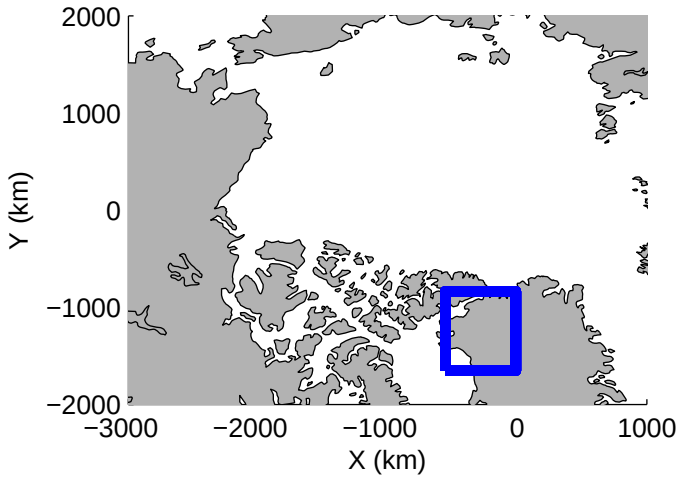

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_011: 17:32:19.8 to 17:34:27.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
79.411 N
55.380 W
4.00 km
79.388 N
55.531 W
8.00 km
79.365 N
55.681 W
distance
latitude
longitude
12.00 km
79.342 N
55.831 W
15.97 km
79.320 N
55.978 W
19.94 km
79.297 N
56.125 W

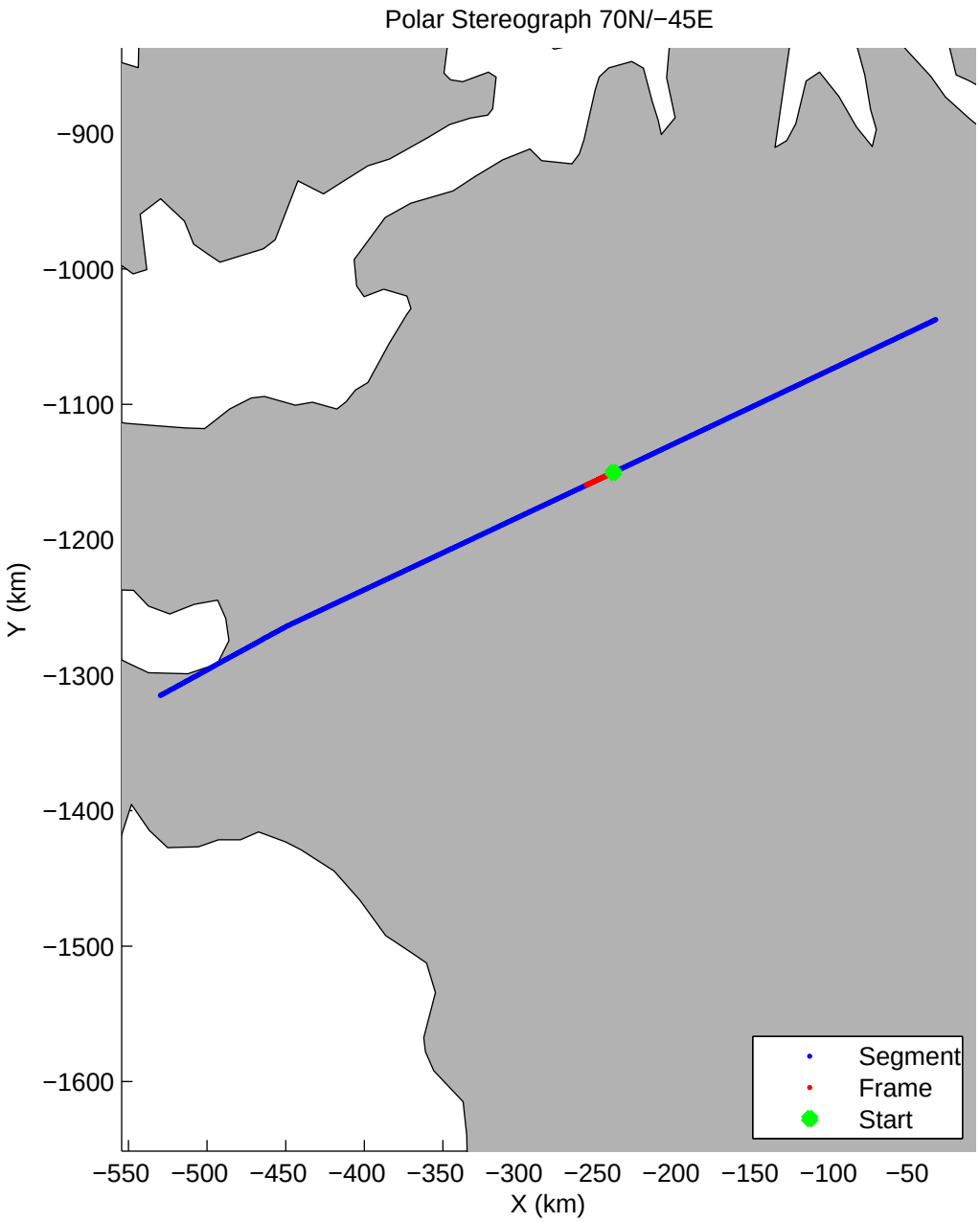

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

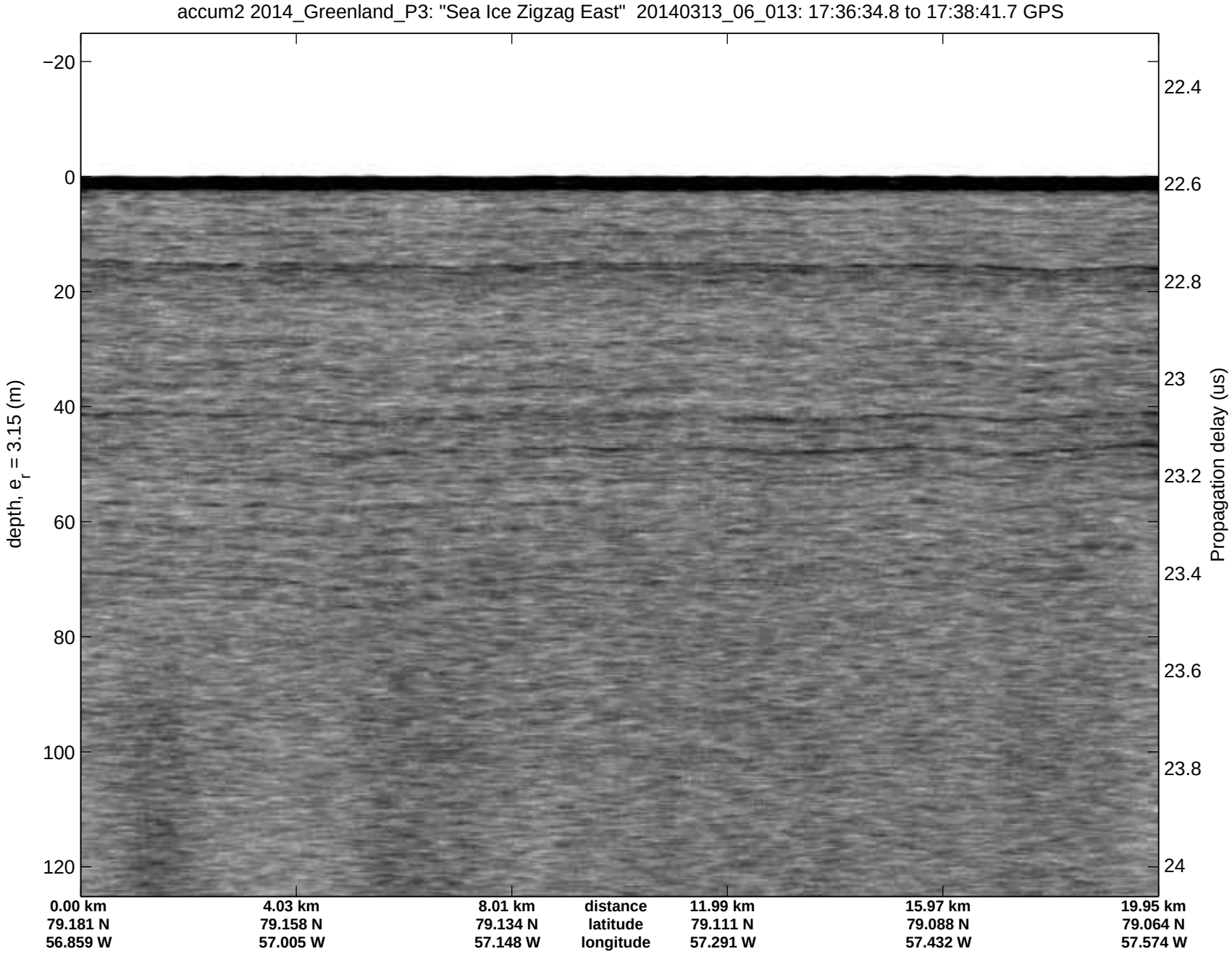

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

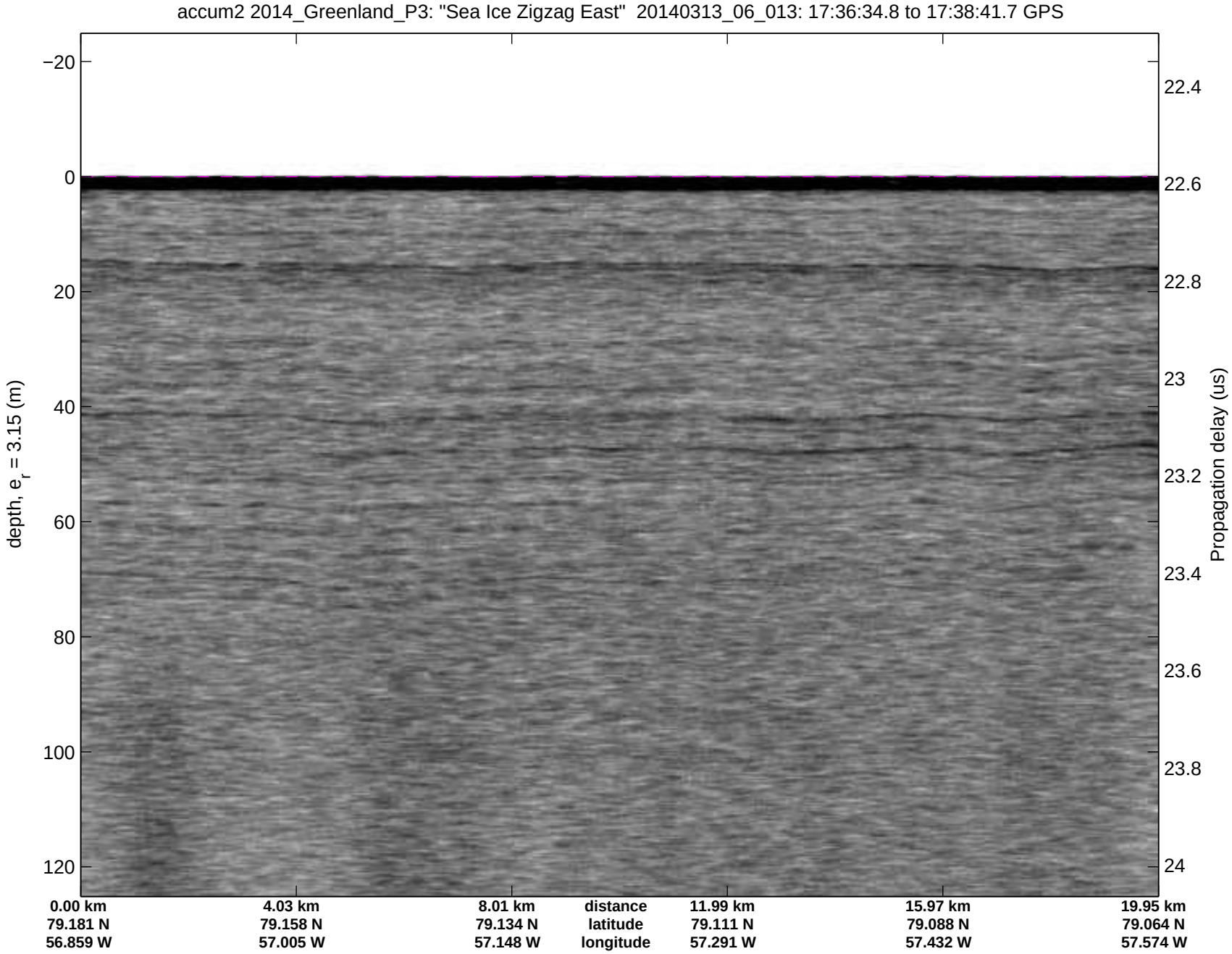

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_012: 17:34:27.6 to 17:36:34.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
79.297 N
56.128 W
4.01 km
79.274 N
56.276 W
7.99 km
79.251 N
56.422 W
distance
latitude
longitude
11.98 km
79.228 N
56.567 W
16.01 km
79.204 N
56.715 W
19.96 km
79.181 N
56.857 W

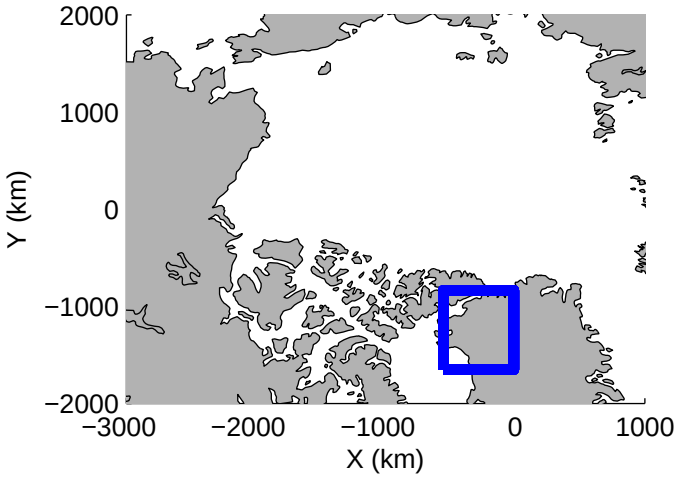

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_012: 17:34:27.6 to 17:36:34.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
79.297 N
56.128 W
4.01 km
79.274 N
56.276 W
7.99 km
79.251 N
56.422 W
distance
latitude
longitude
11.98 km
79.228 N
56.567 W
16.01 km
79.204 N
56.715 W
19.96 km
79.181 N
56.857 W

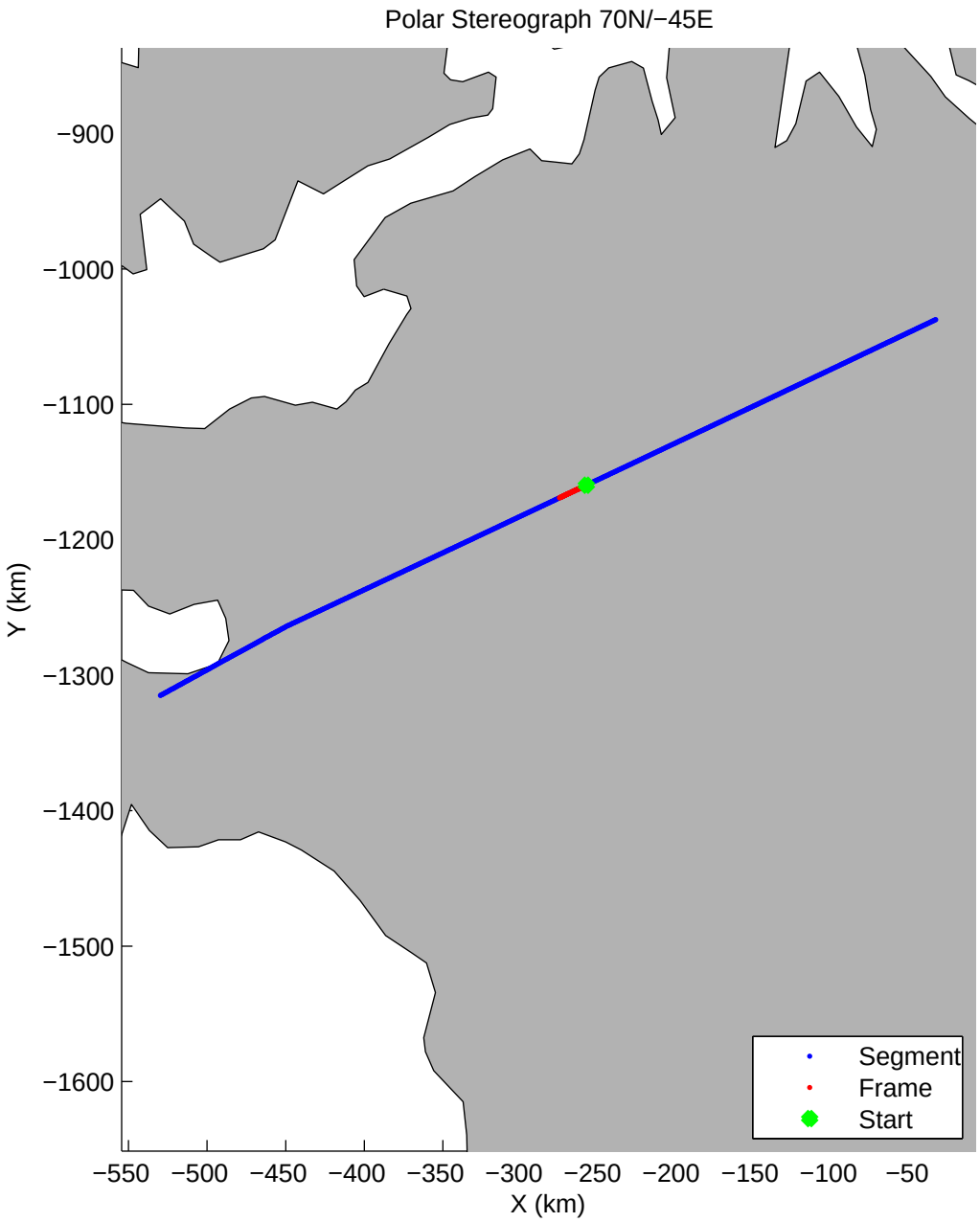

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

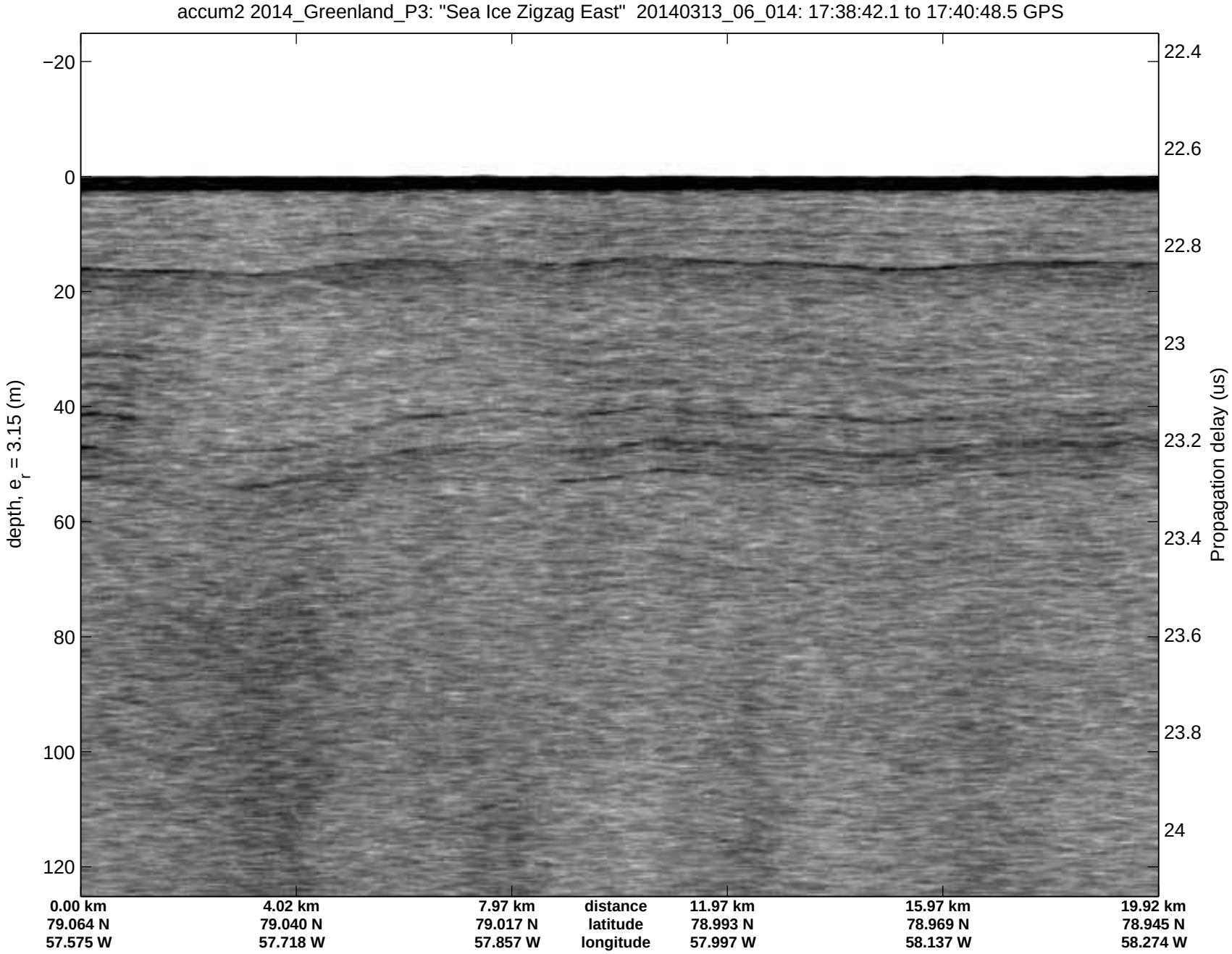

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

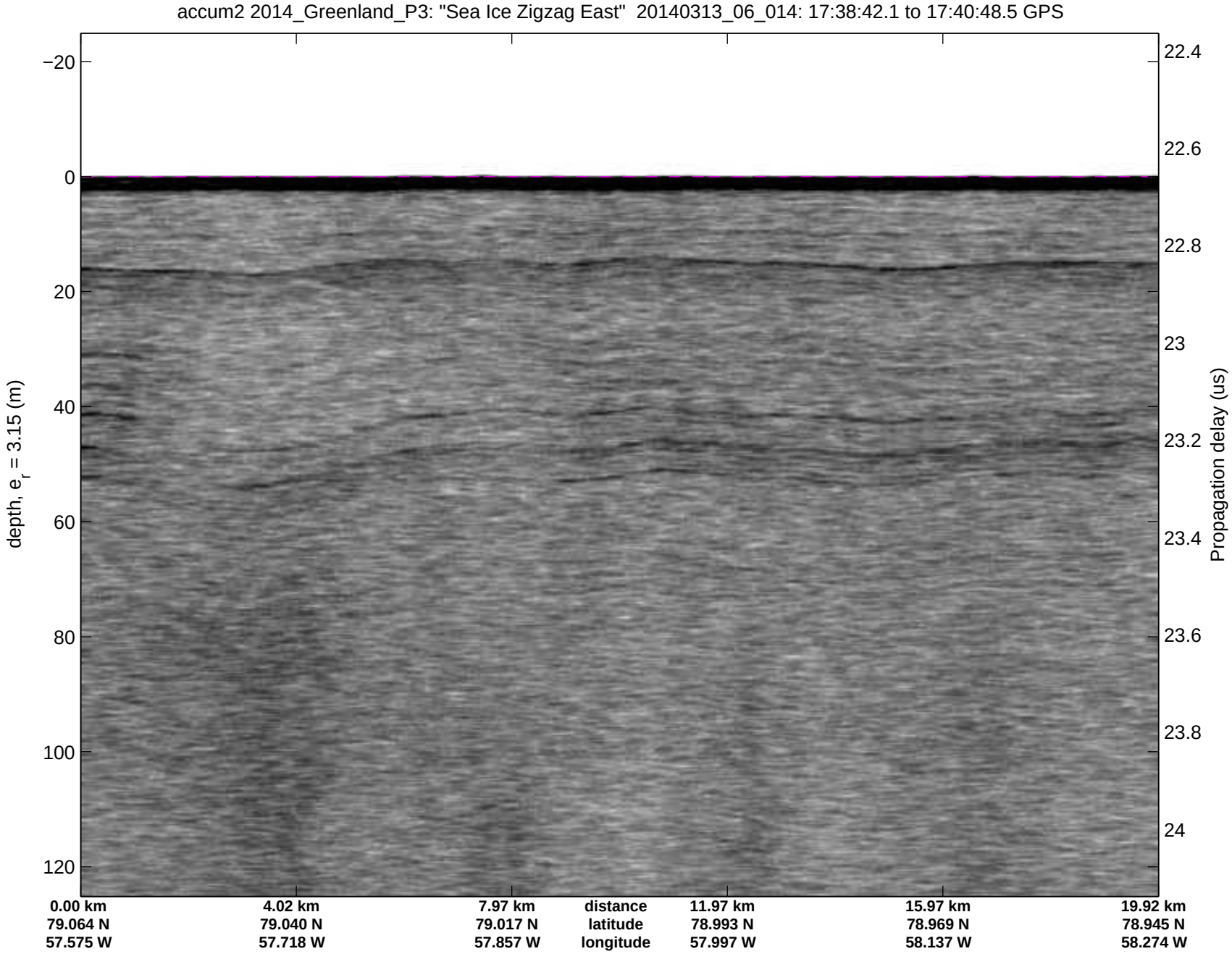

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_013: 17:36:34.8 to 17:38:41.7 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
79.181 N
56.859 W
4.03 km
79.158 N
57.005 W
8.01 km
79.134 N
57.148 W
distance
latitude
longitude
11.99 km
79.111 N
57.291 W
15.97 km
79.088 N
57.432 W
19.95 km
79.064 N
57.574 W

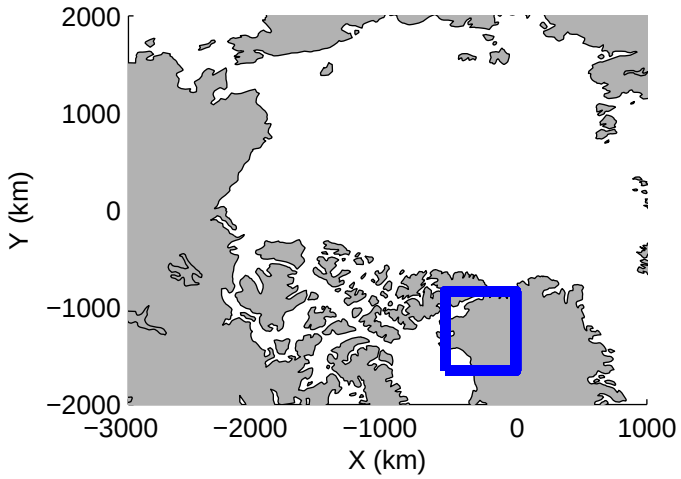

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_013: 17:36:34.8 to 17:38:41.7 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
79.181 N
56.859 W
4.03 km
79.158 N
57.005 W
8.01 km
79.134 N
57.148 W
distance
latitude
longitude
11.99 km
79.111 N
57.291 W
15.97 km
79.088 N
57.432 W
19.95 km
79.064 N
57.574 W

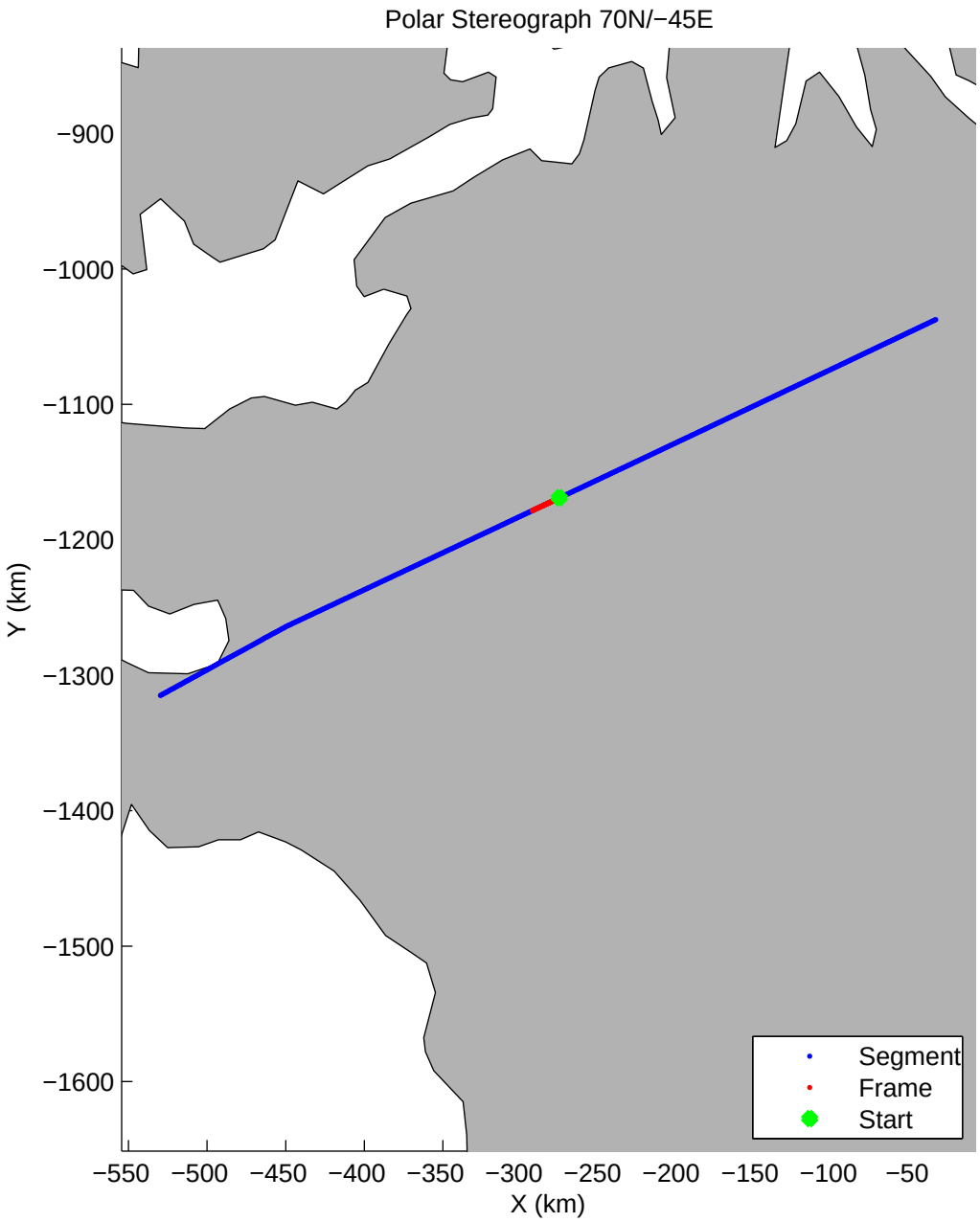

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)


Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start


accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_014: 17:38:42.1 to 17:40:48.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
79.064 N
57.575 W
4.02 km
79.040 N
57.718 W
7.97 km
79.017 N
57.857 W
distance
latitude
longitude
11.97 km
78.993 N
57.997 W
15.97 km
78.969 N
58.137 W
19.92 km
78.945 N
58.274 W

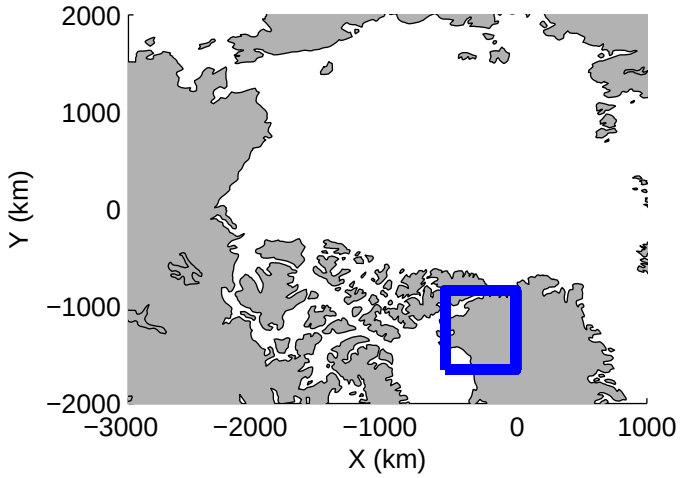

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_014: 17:38:42.1 to 17:40:48.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
79.064 N
57.575 W
4.02 km
79.040 N
57.718 W
7.97 km
79.017 N
57.857 W
distance
latitude
longitude
11.97 km
78.993 N
57.997 W
15.97 km
78.969 N
58.137 W
19.92 km
78.945 N
58.274 W

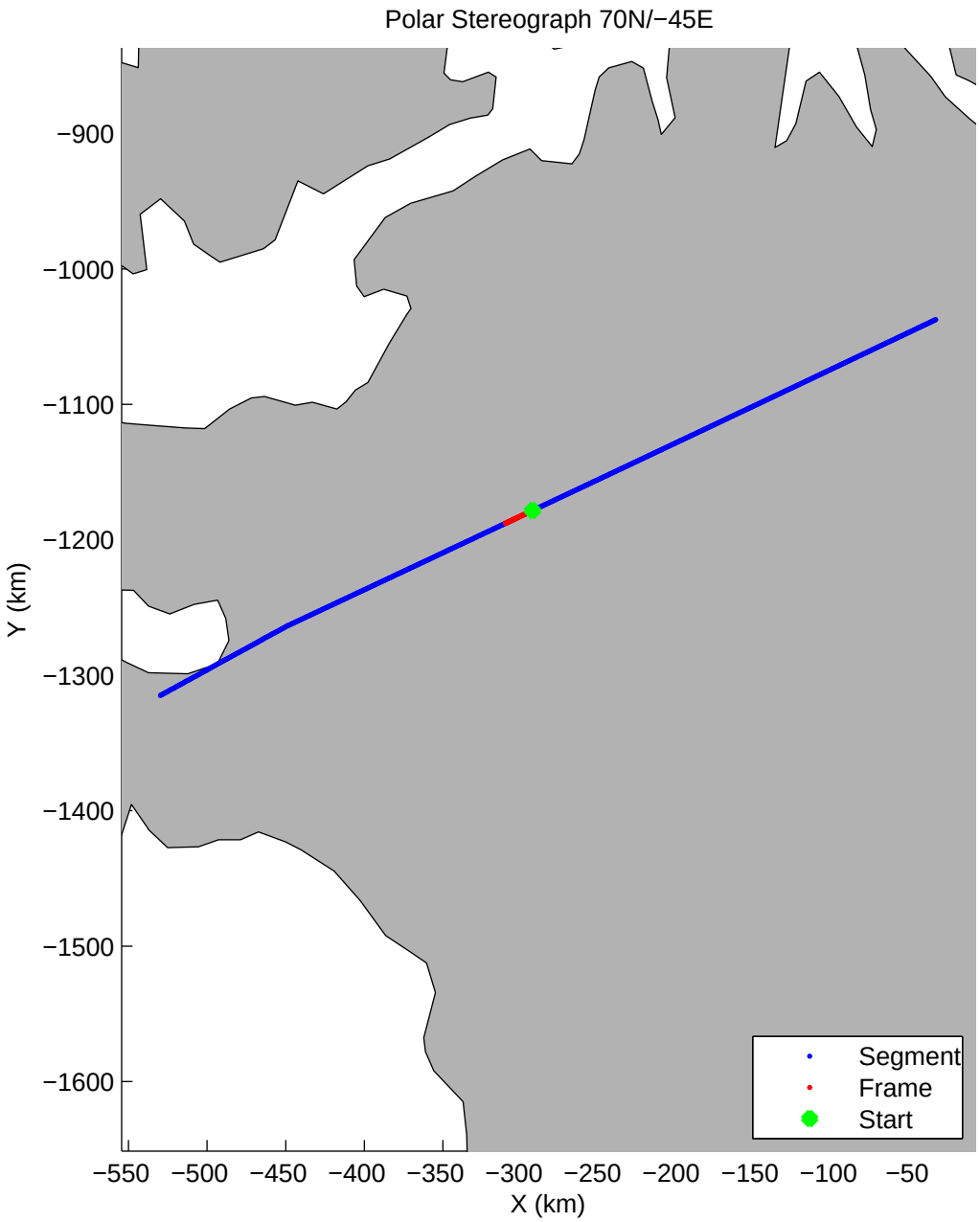

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

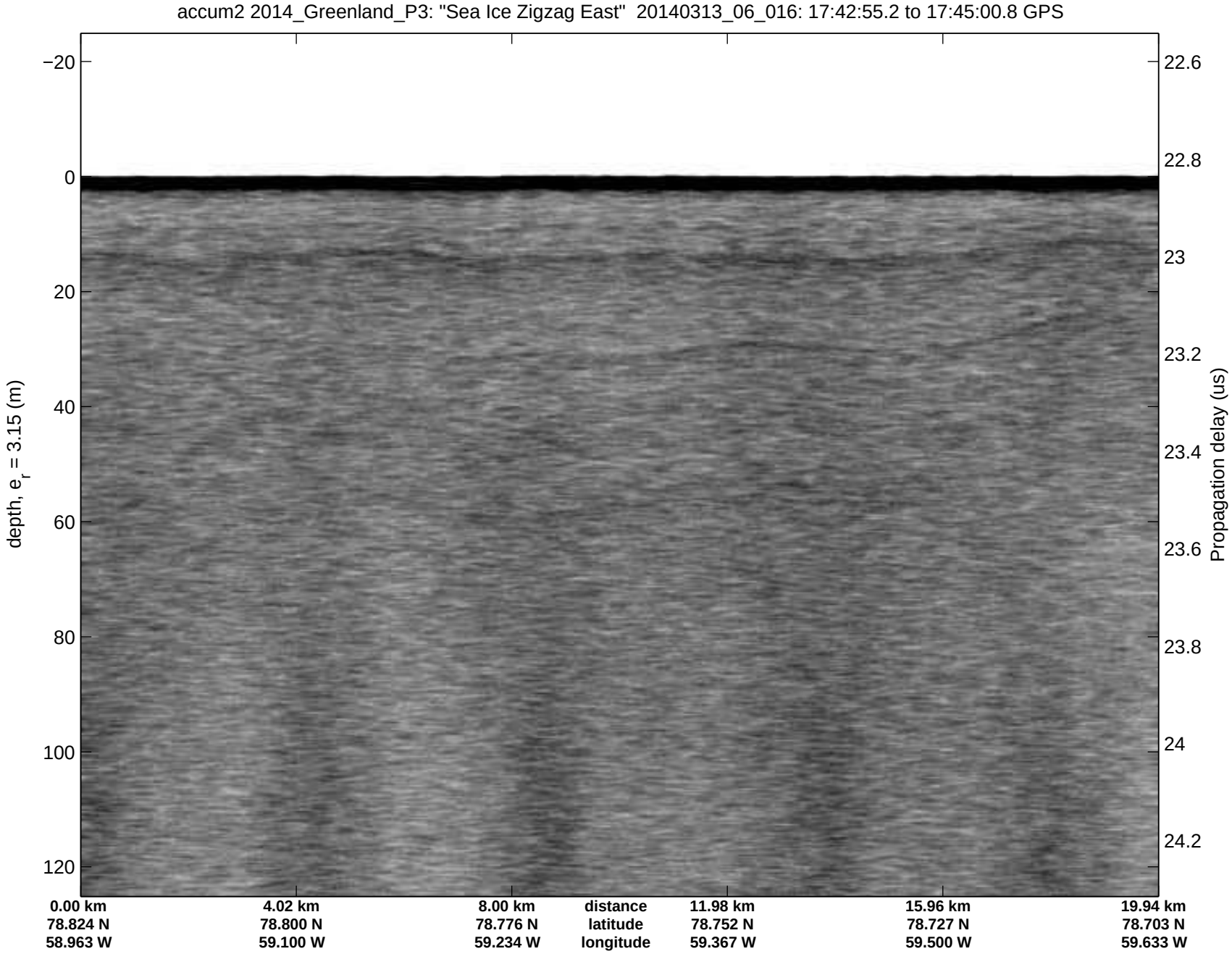

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

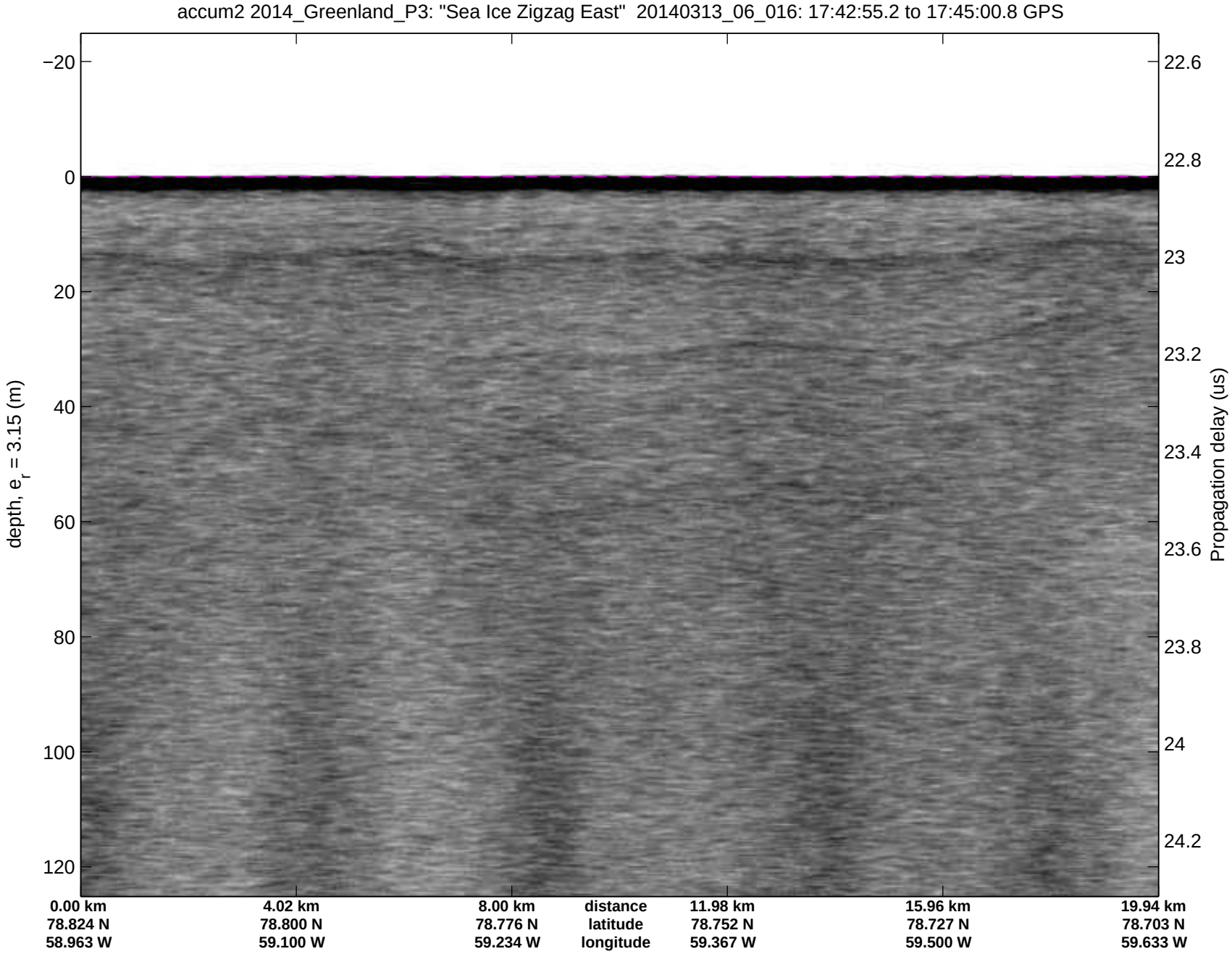
accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_015: 17:40:49.0 to 17:42:54.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
78.945 N
58.277 W
4.00 km
78.921 N
58.415 W
8.01 km
78.897 N
58.553 W
distance
latitude
longitude
11.99 km
78.873 N
58.690 W
15.96 km
78.849 N
58.826 W
19.94 km
78.825 N
58.961 W

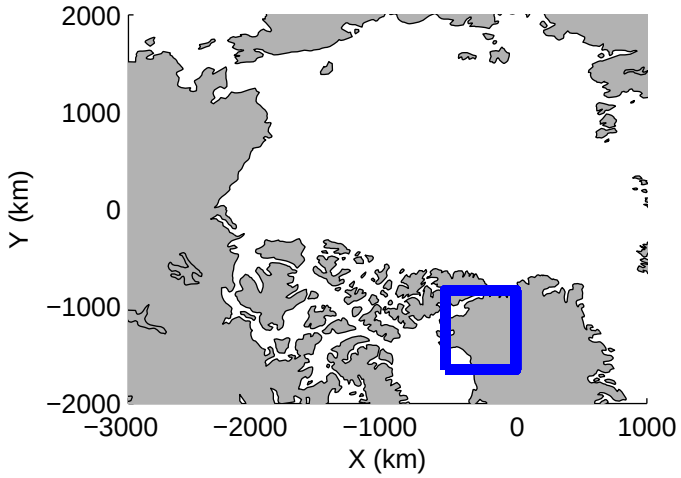
accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_015: 17:40:49.0 to 17:42:54.8 GPS
−20
0
20
40
60
80
100
120
depth, e_r = 3.15 (m)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
Propagation delay (us)
0.00 km
78.945 N
58.277 W
4.00 km
78.921 N
58.415 W
8.01 km
78.897 N
58.553 W
distance
latitude
longitude
11.99 km
78.873 N
58.690 W
15.96 km
78.849 N
58.826 W
19.94 km
78.825 N
58.961 W

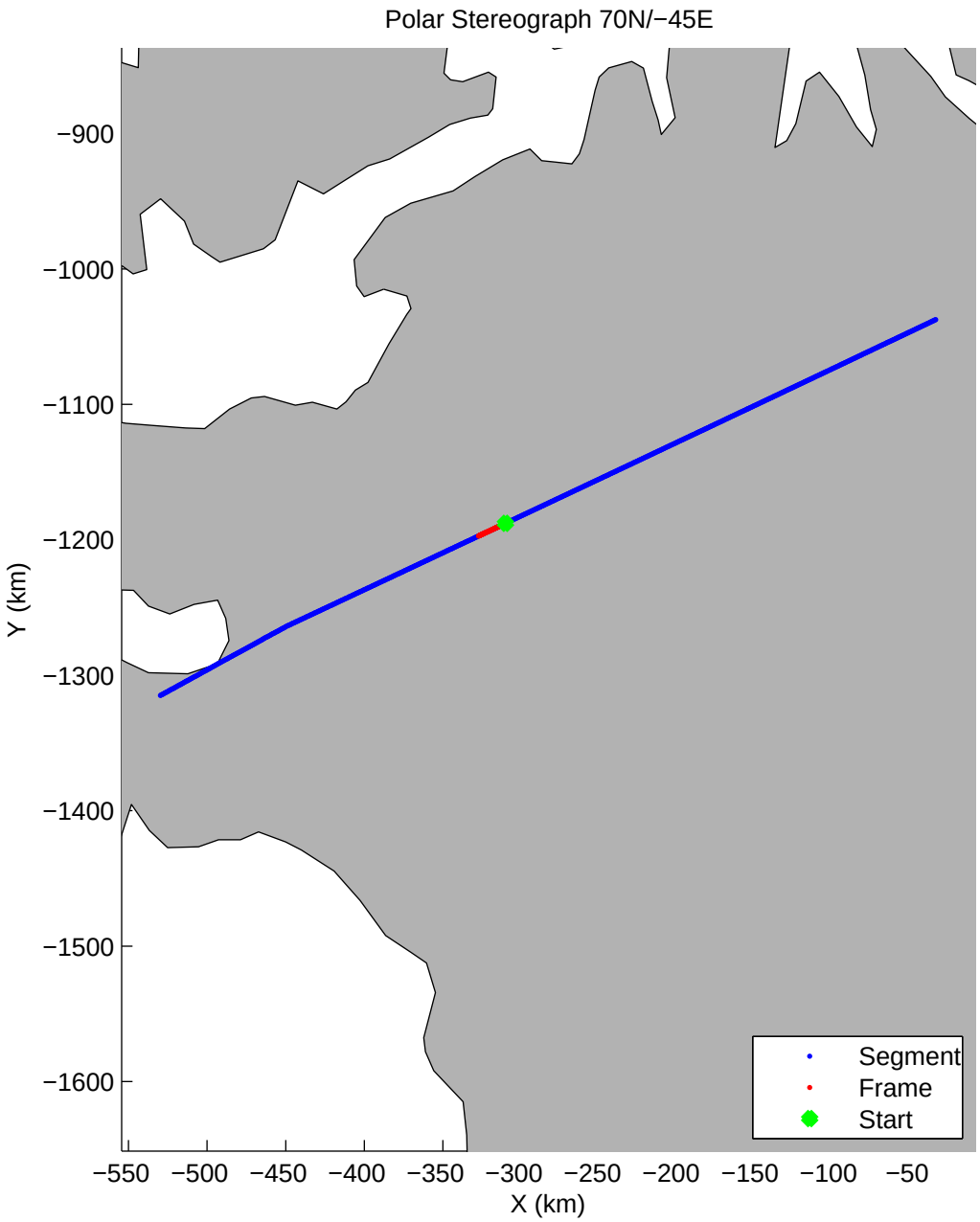

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

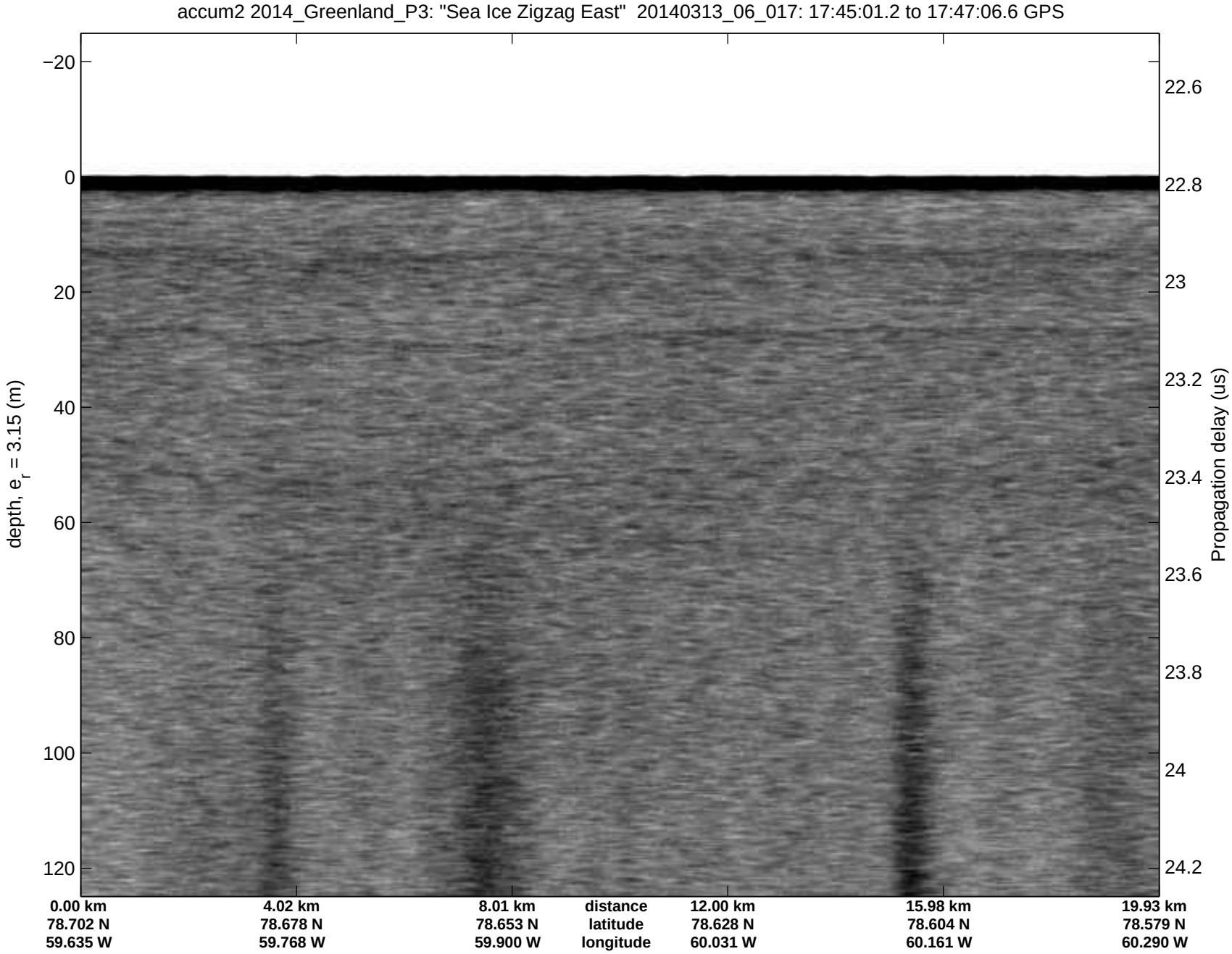

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

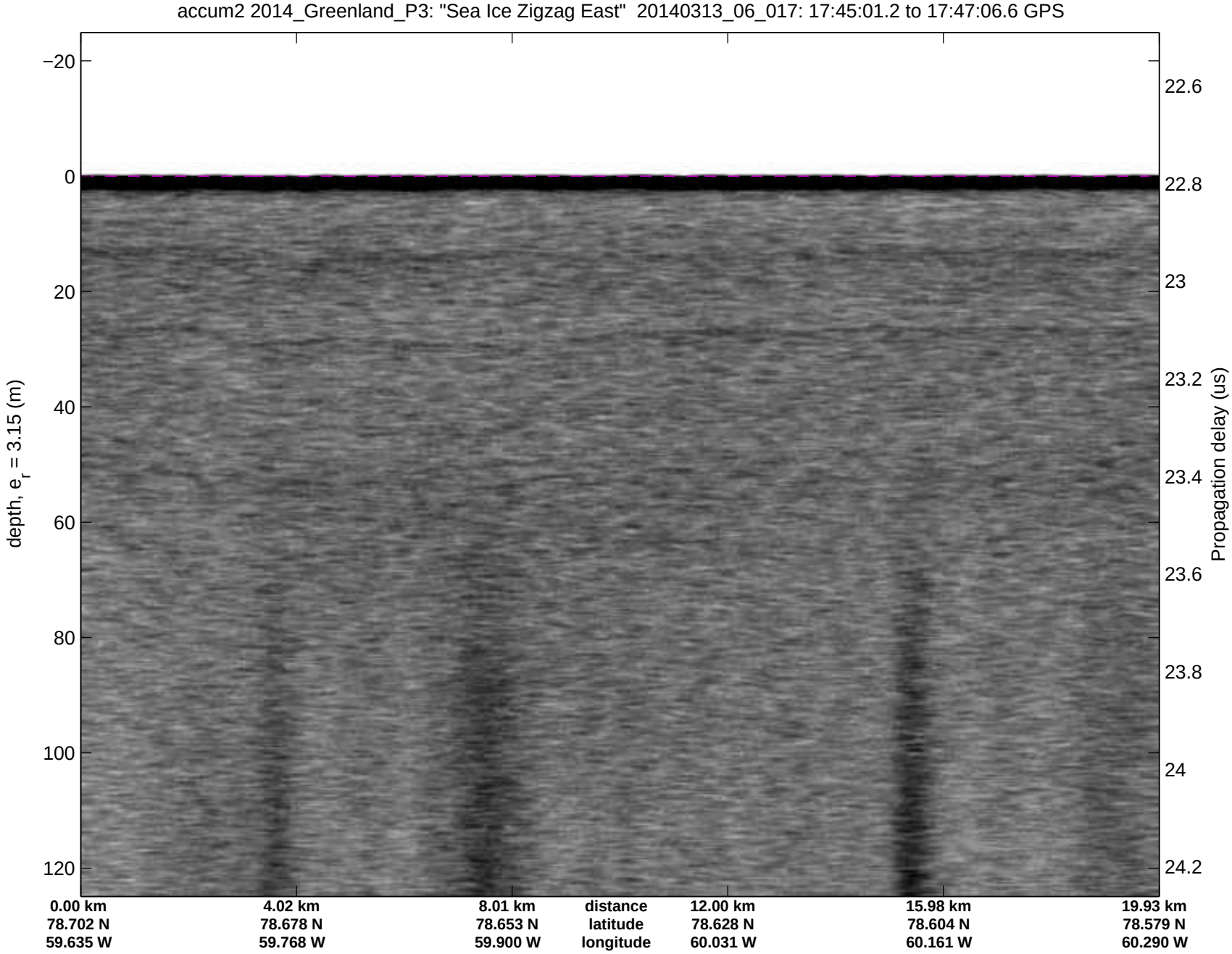

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_016: 17:42:55.2 to 17:45:00.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
78.824 N
58.963 W
4.02 km
78.800 N
59.100 W
8.00 km
78.776 N
59.234 W
distance
latitude
longitude
11.98 km
78.752 N
59.367 W
15.96 km
78.727 N
59.500 W
19.94 km
78.703 N
59.633 W

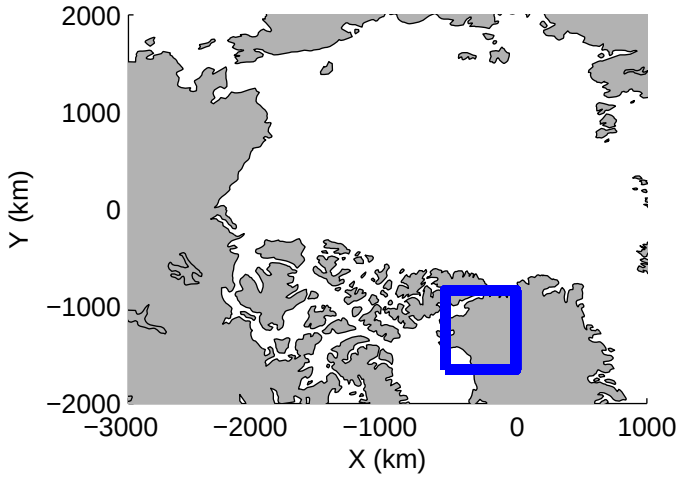

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_016: 17:42:55.2 to 17:45:00.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
Propagation delay (us)
0.00 km
78.824 N
58.963 W
4.02 km
78.800 N
59.100 W
8.00 km
78.776 N
59.234 W
distance
latitude
longitude
11.98 km
78.752 N
59.367 W
15.96 km
78.727 N
59.500 W
19.94 km
78.703 N
59.633 W

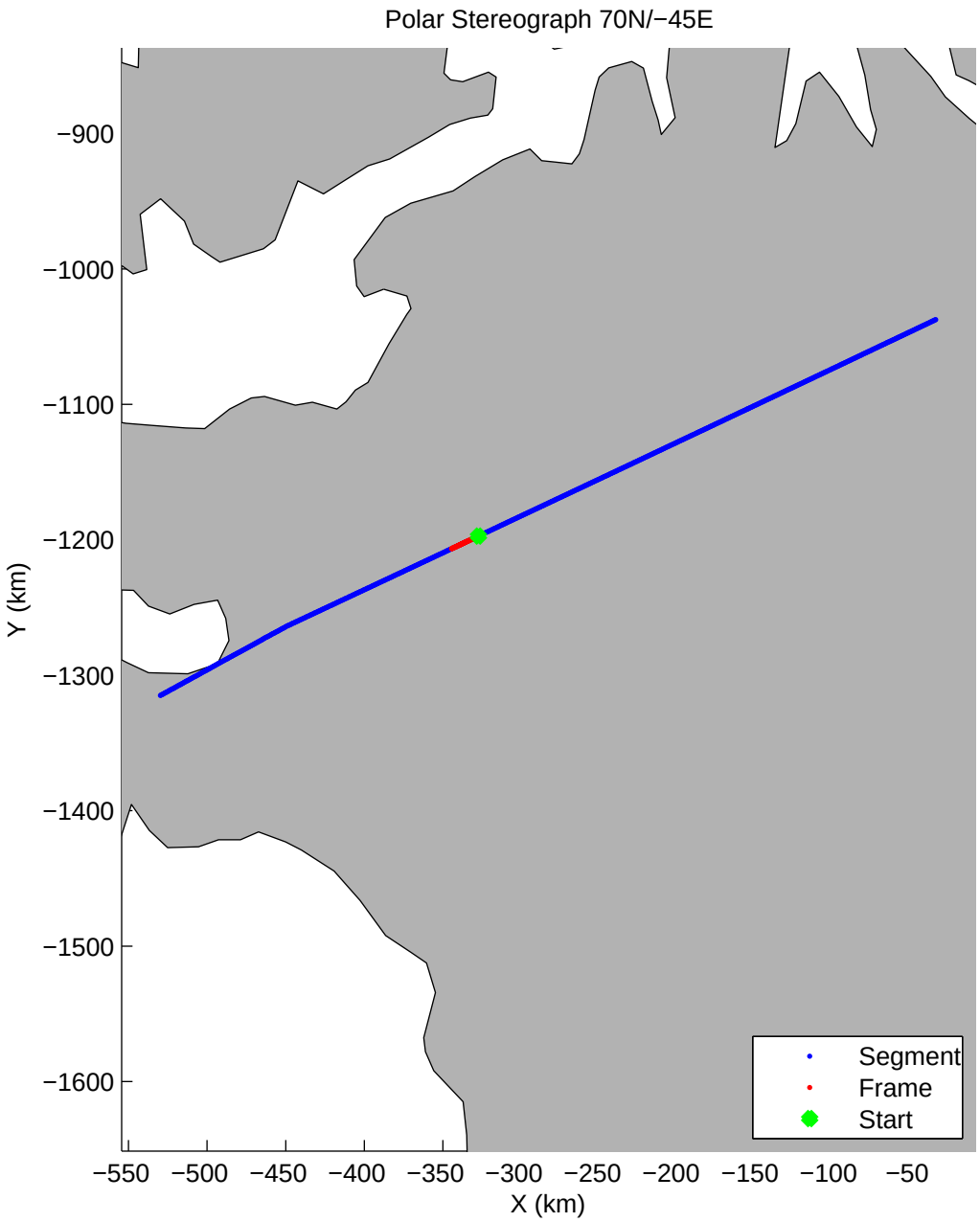

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

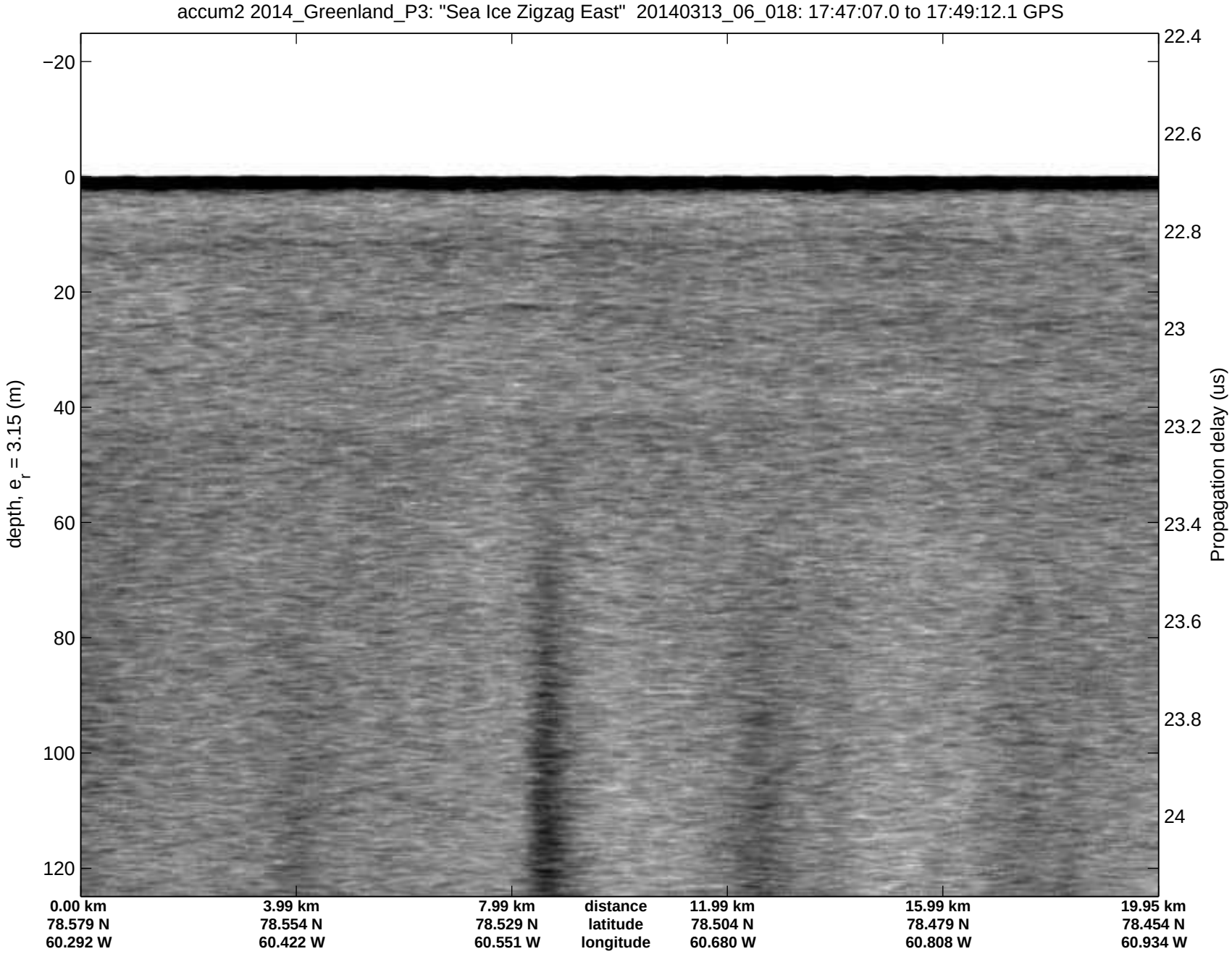

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

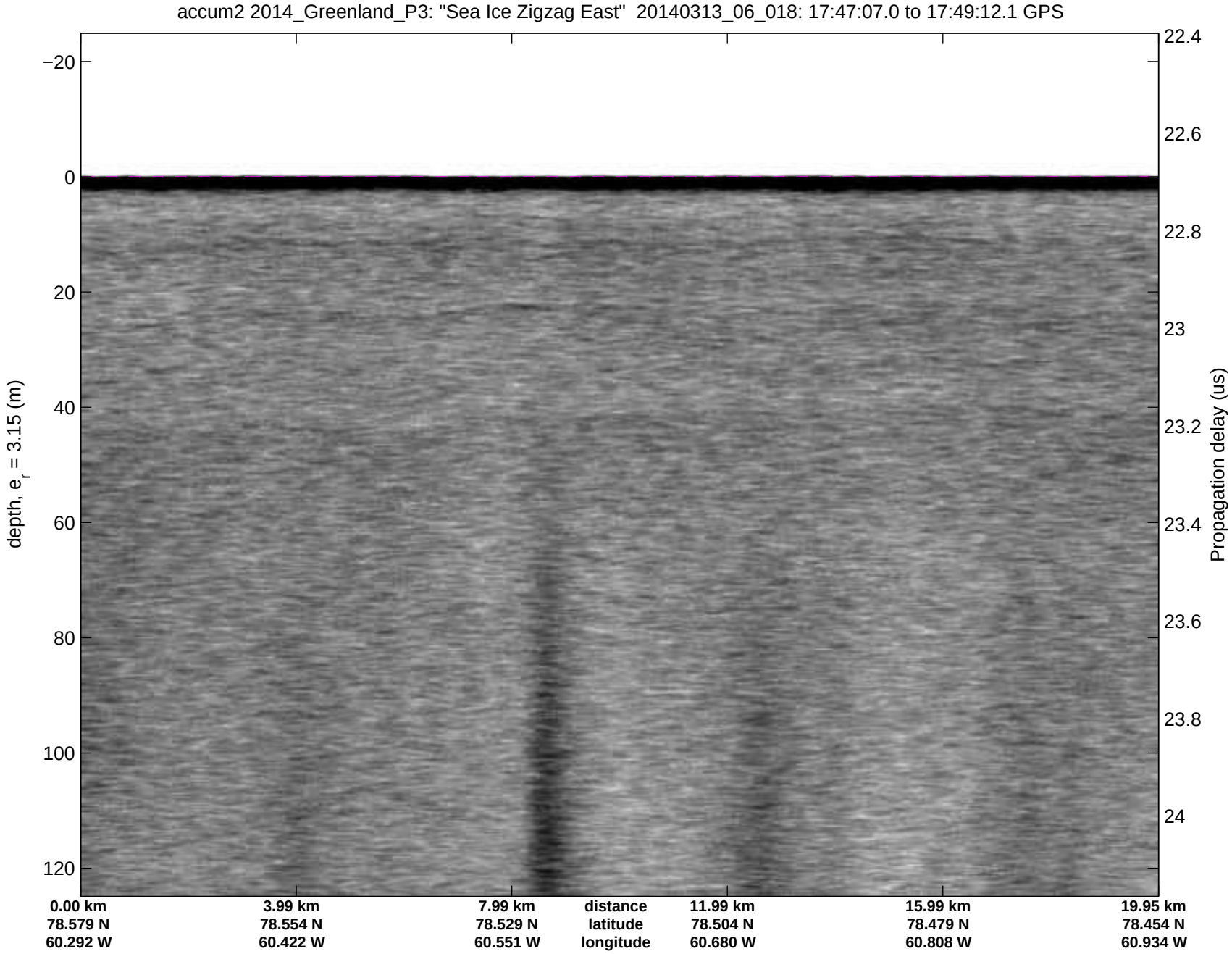

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_017: 17:45:01.2 to 17:47:06.6 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
78.702 N
59.635 W
4.02 km
78.678 N
59.768 W
8.01 km
78.653 N
59.900 W
distance
latitude
longitude
12.00 km
78.628 N
60.031 W
15.98 km
78.604 N
60.161 W
19.93 km
78.579 N
60.290 W

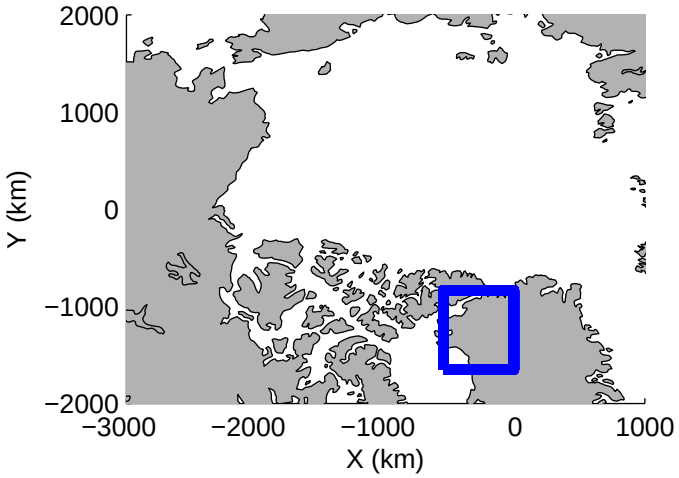

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_017: 17:45:01.2 to 17:47:06.6 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.6
22.8
23
23.2
23.4
23.6
23.8
24
24.2
0.00 km
78.702 N
59.635 W
4.02 km
78.678 N
59.768 W
8.01 km
78.653 N
59.900 W
distance
latitude
longitude
12.00 km
78.628 N
60.031 W
15.98 km
78.604 N
60.161 W
19.93 km
78.579 N
60.290 W

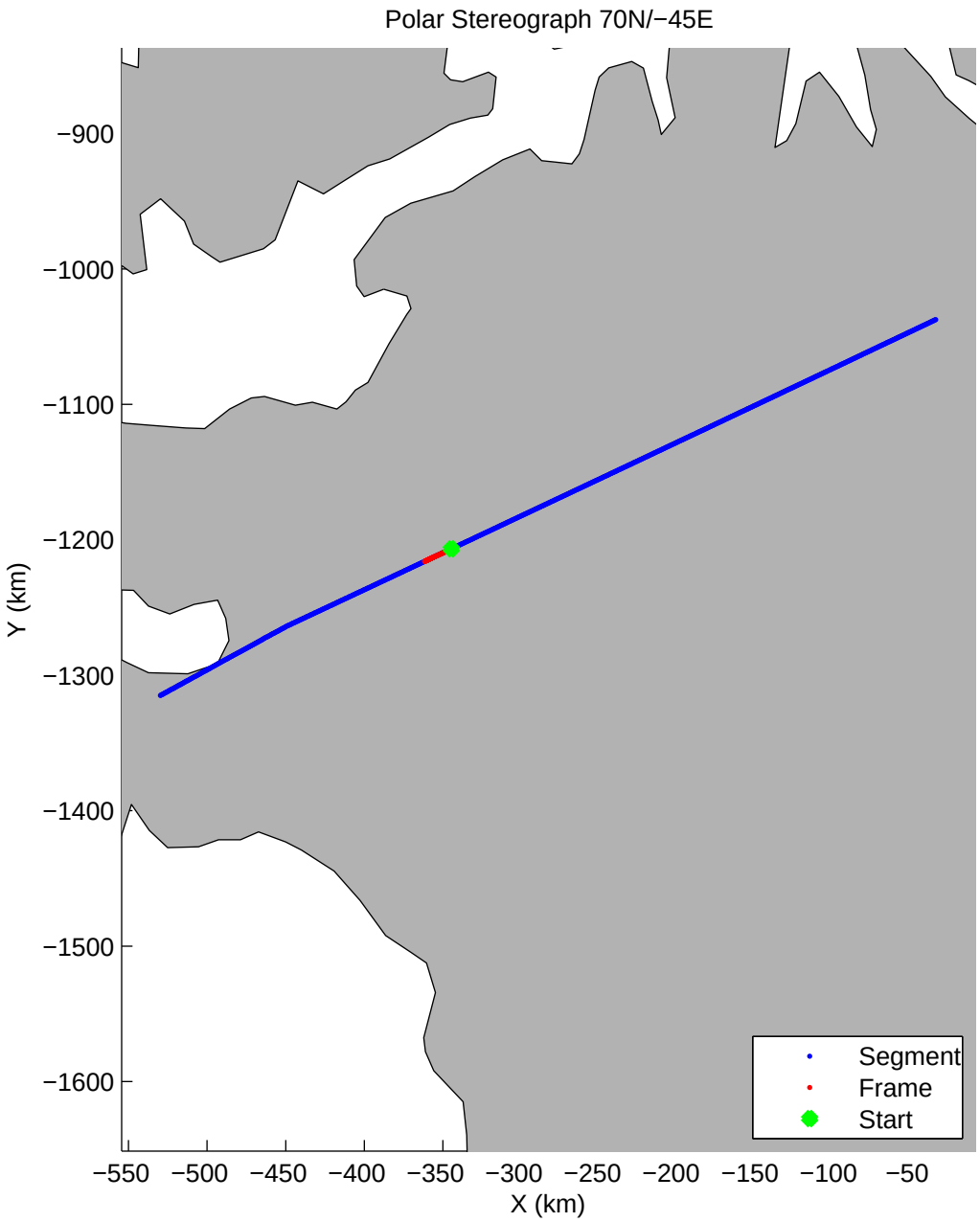

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

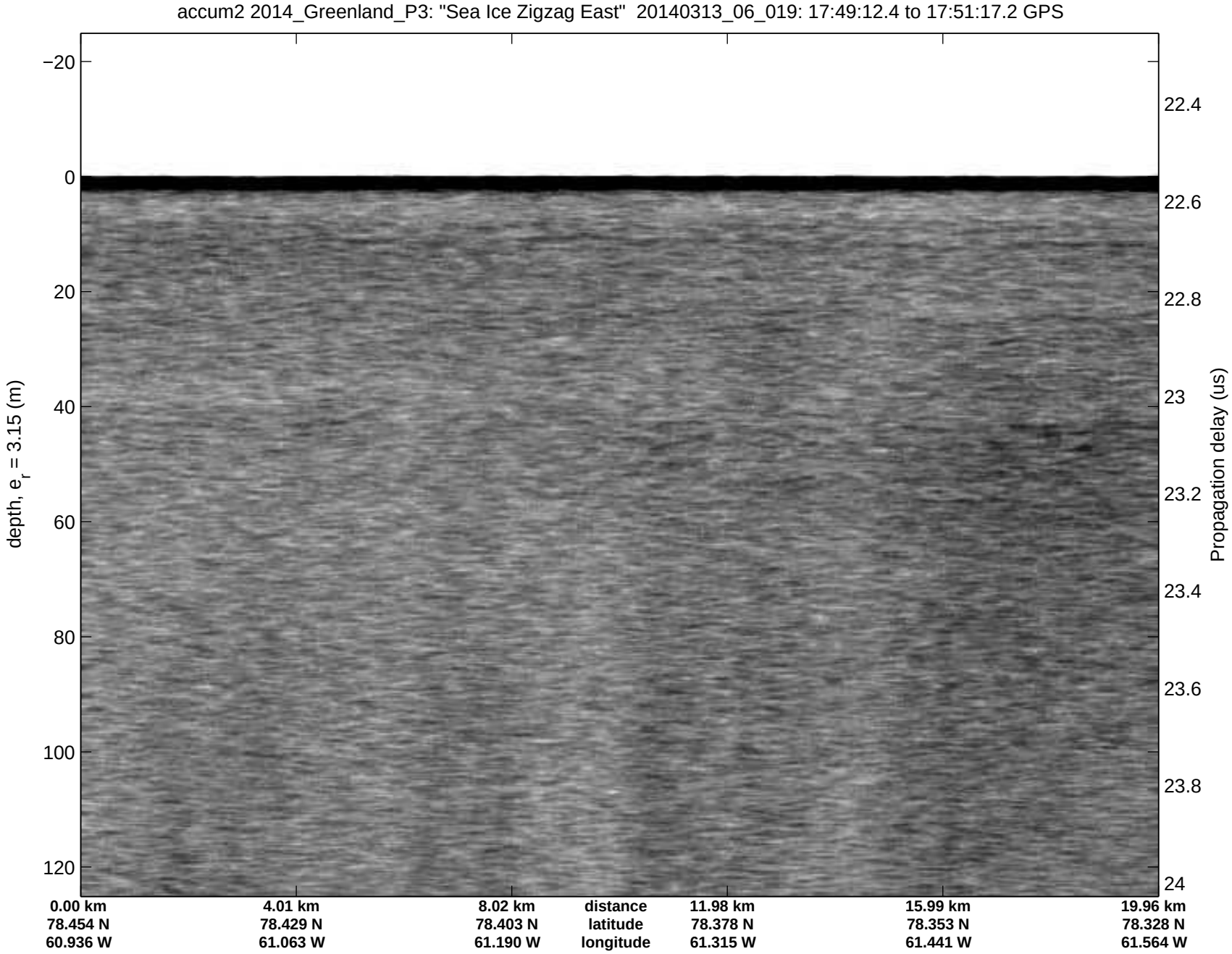

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

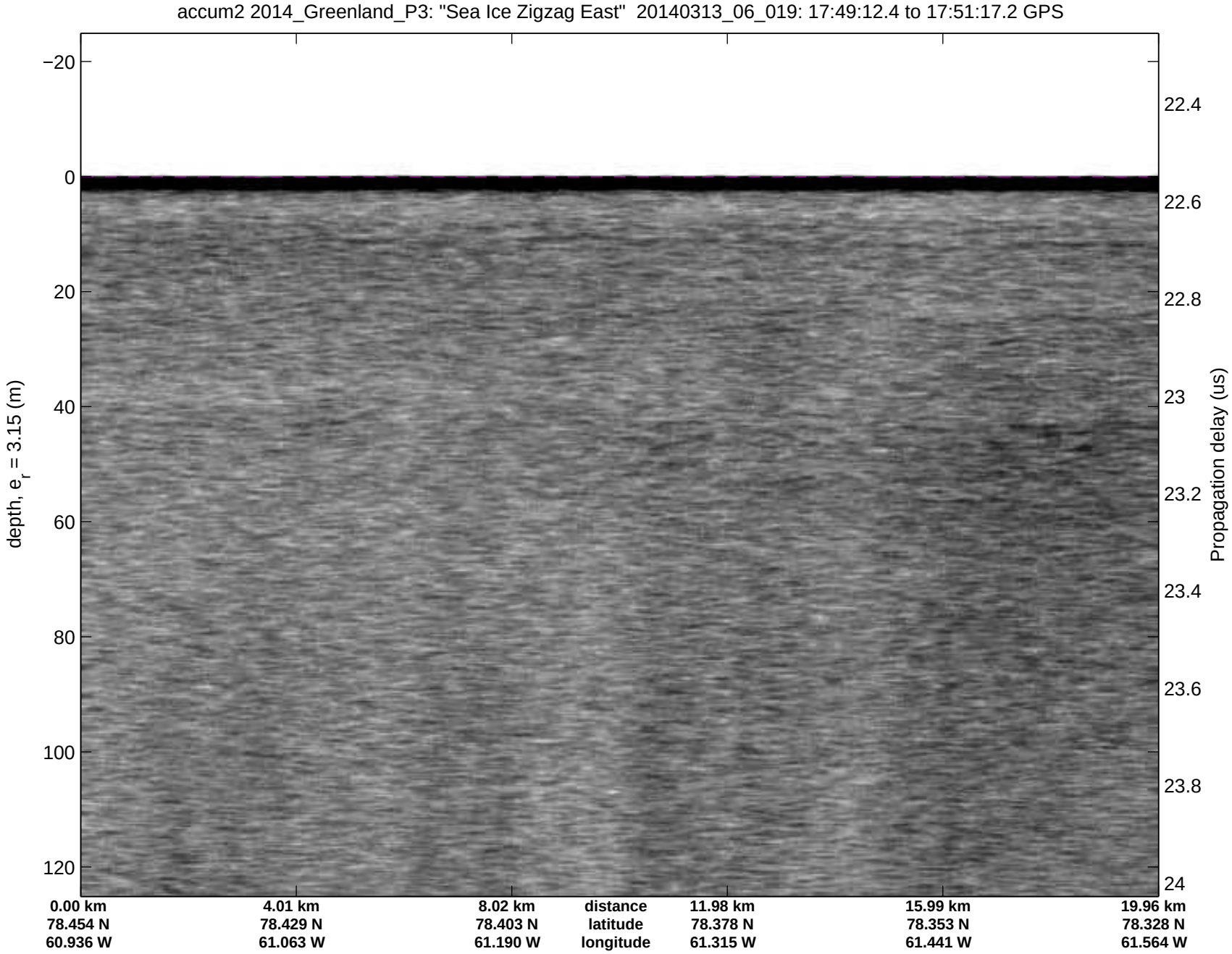

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_018: 17:47:07.0 to 17:49:12.1 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
78.579 N
60.292 W
3.99 km
78.554 N
60.422 W
7.99 km
78.529 N
60.551 W
distance
latitude
longitude
11.99 km
78.504 N
60.680 W
15.99 km
78.479 N
60.808 W
19.95 km
78.454 N
60.934 W

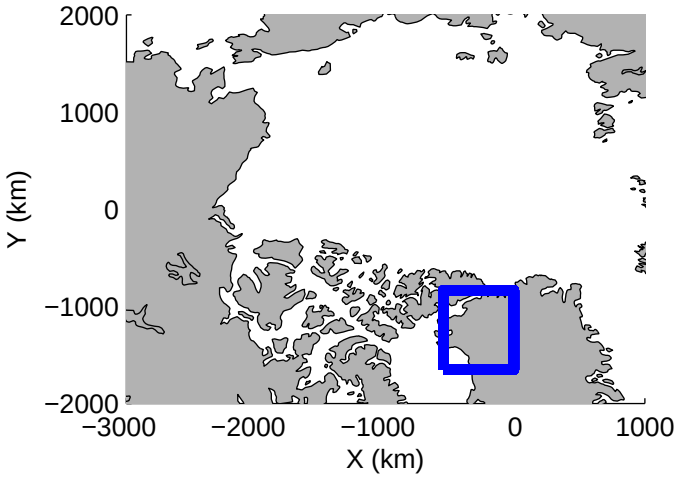

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_018: 17:47:07.0 to 17:49:12.1 GPS
−20
0
20
40
60
80
100
120
depth, e_r = 3.15 (m)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
78.579 N
60.292 W
3.99 km
78.554 N
60.422 W
7.99 km
78.529 N
60.551 W
distance
latitude
longitude
11.99 km
78.504 N
60.680 W
15.99 km
78.479 N
60.808 W
19.95 km
78.454 N
60.934 W

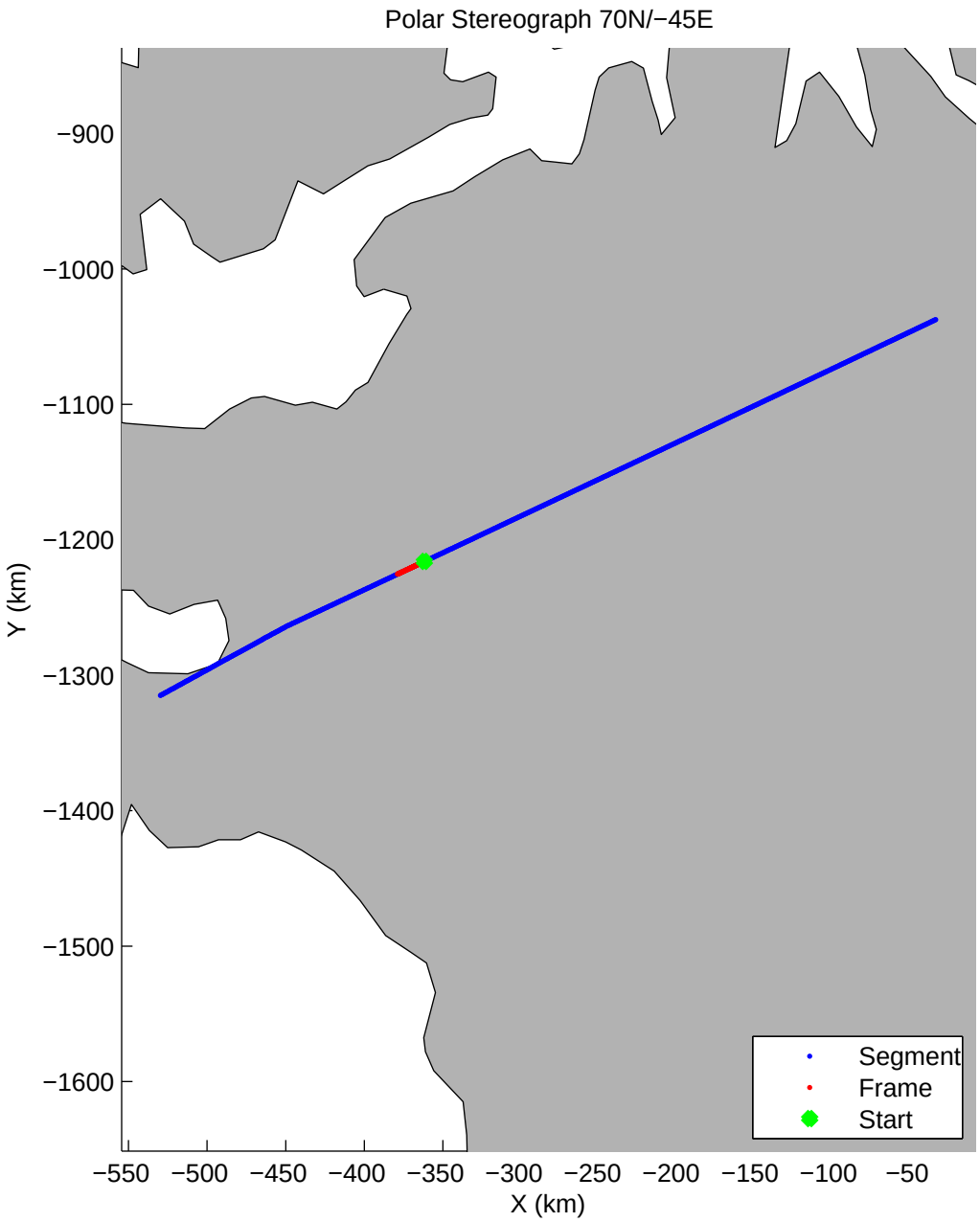

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

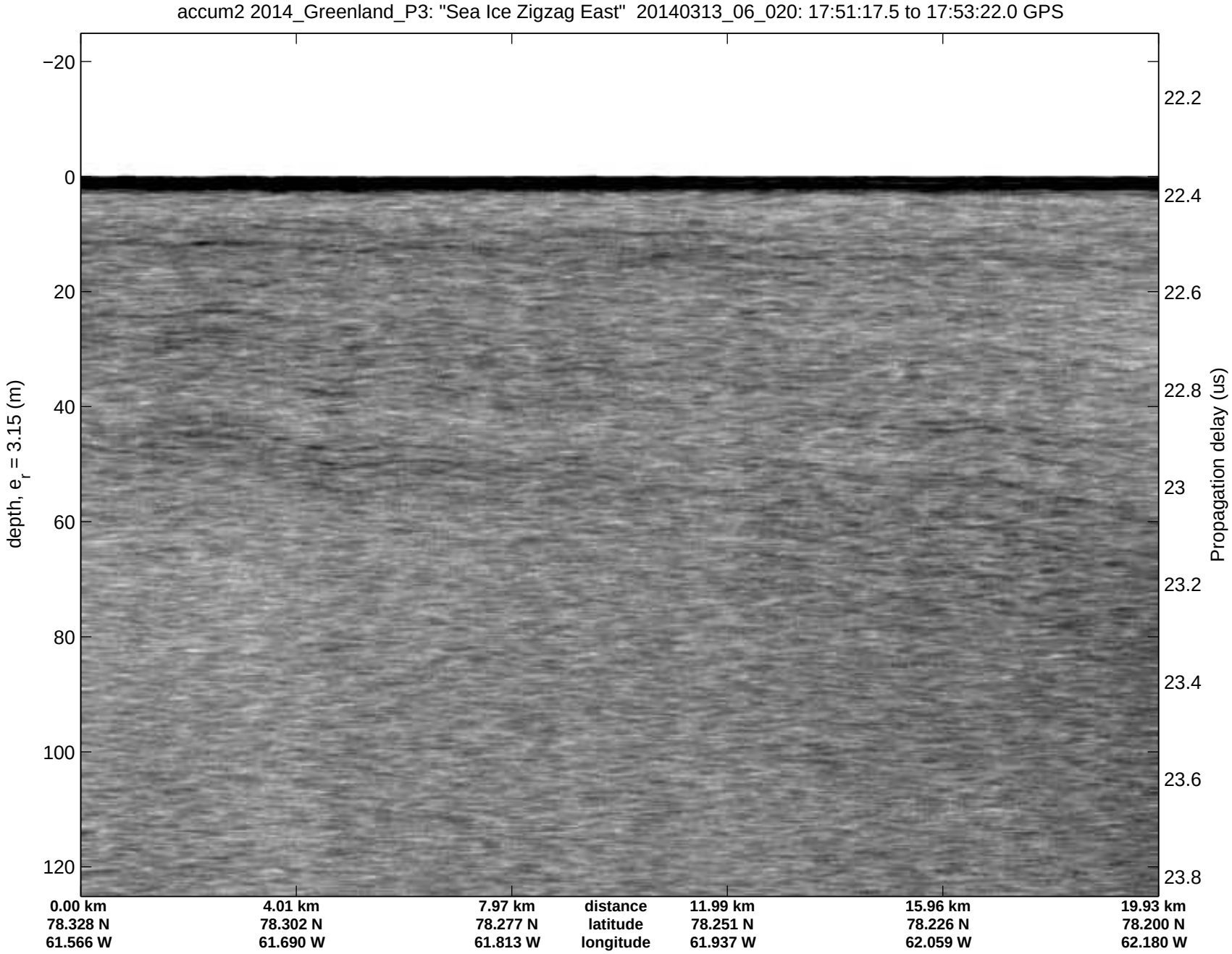

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

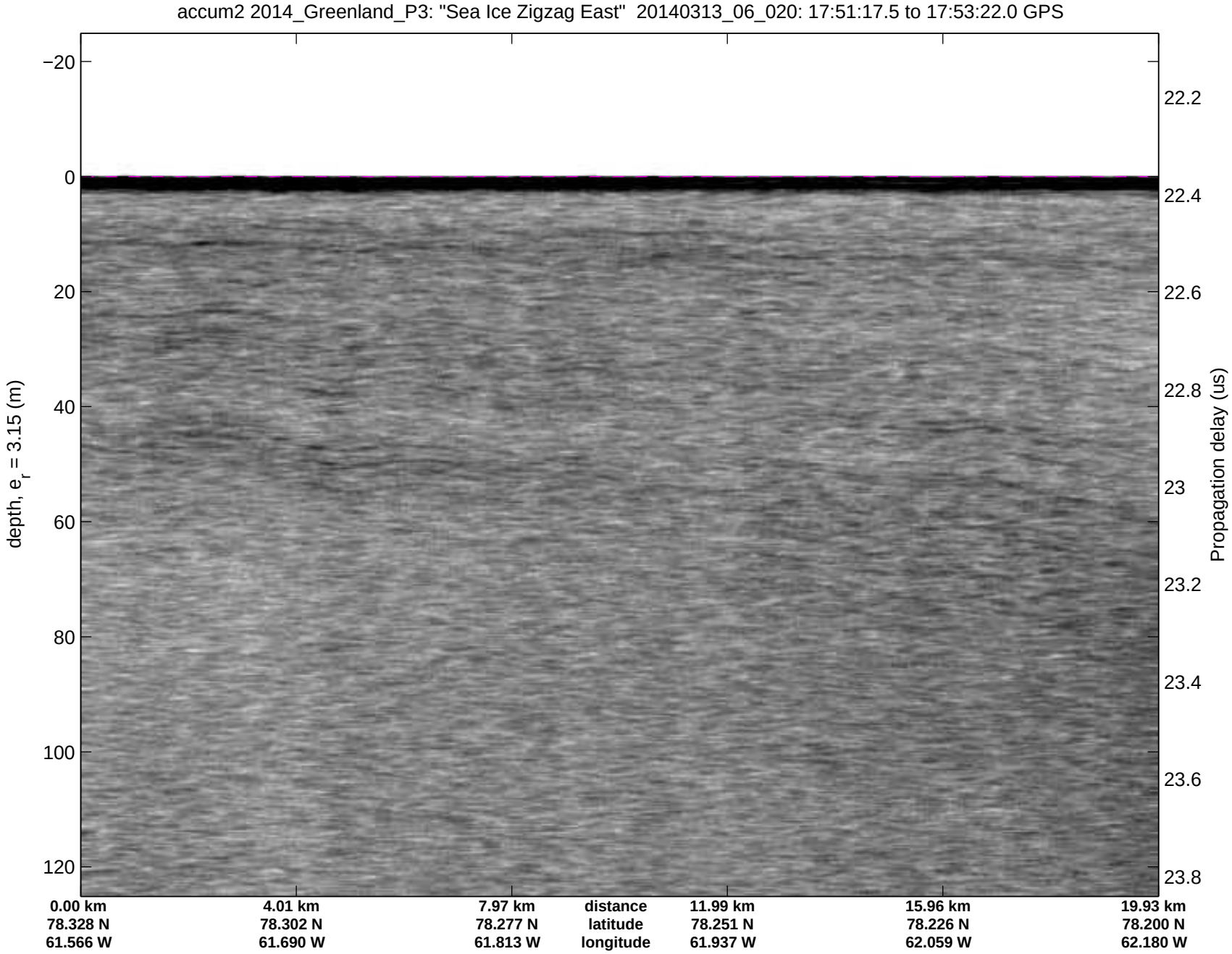

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_019: 17:49:12.4 to 17:51:17.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
78.454 N
60.936 W
4.01 km
78.429 N
61.063 W
8.02 km
78.403 N
61.190 W
distance
latitude
longitude
11.98 km
78.378 N
61.315 W
15.99 km
78.353 N
61.441 W
19.96 km
78.328 N
61.564 W

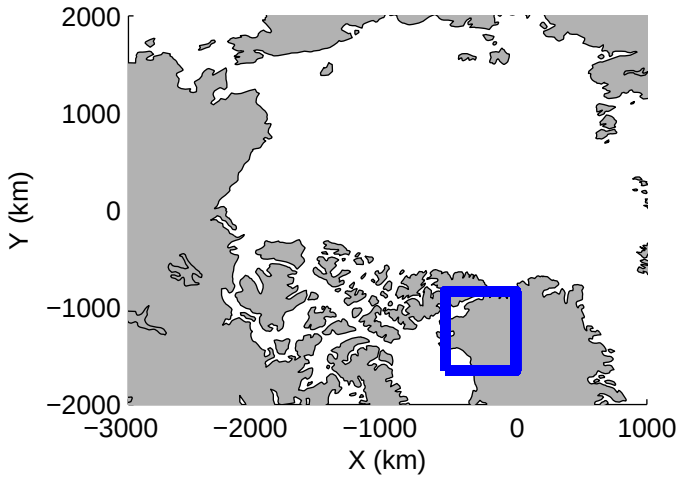

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_019: 17:49:12.4 to 17:51:17.2 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
78.454 N
60.936 W
4.01 km
78.429 N
61.063 W
8.02 km
78.403 N
61.190 W
distance
latitude
longitude
11.98 km
78.378 N
61.315 W
15.99 km
78.353 N
61.441 W
19.96 km
78.328 N
61.564 W

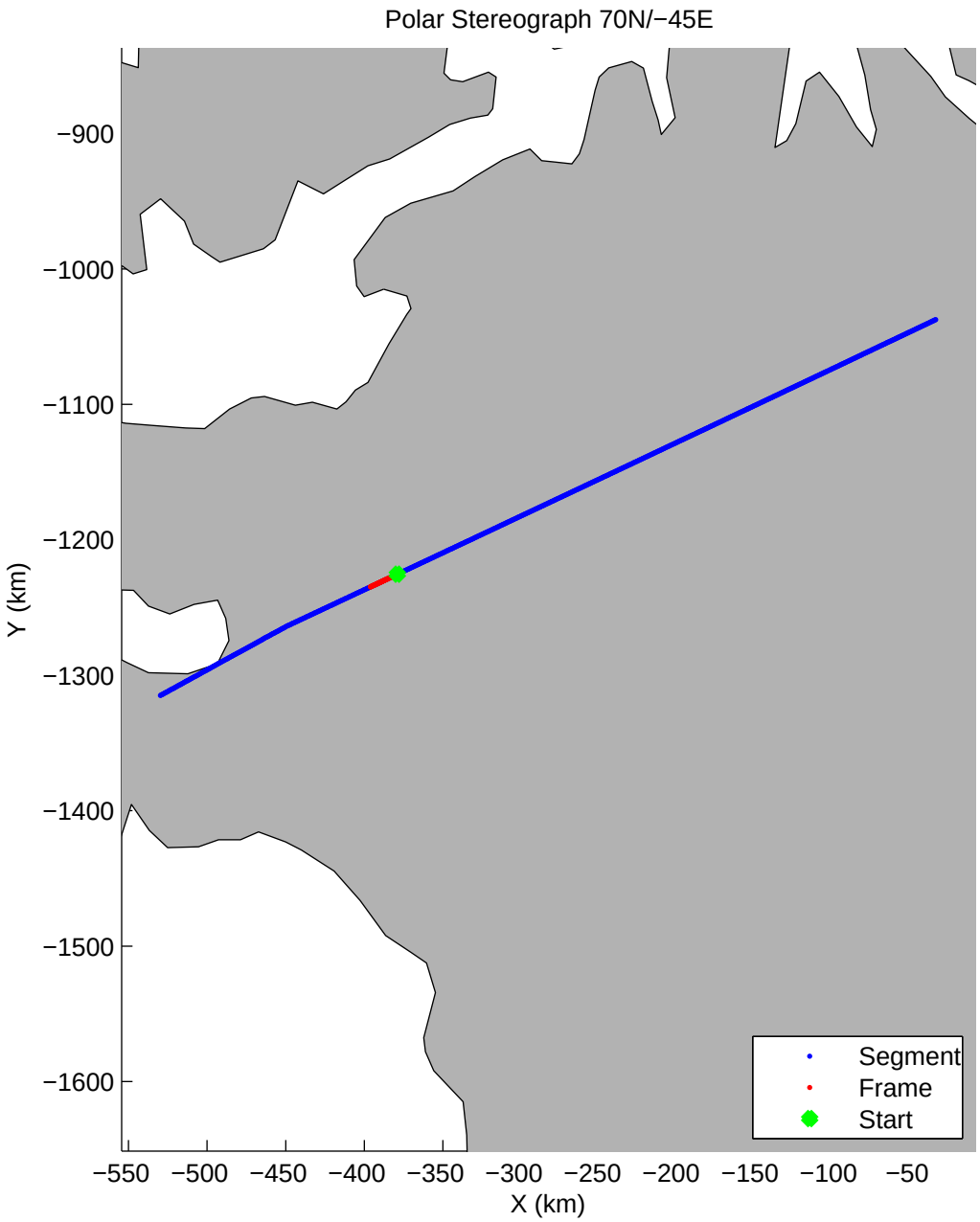

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

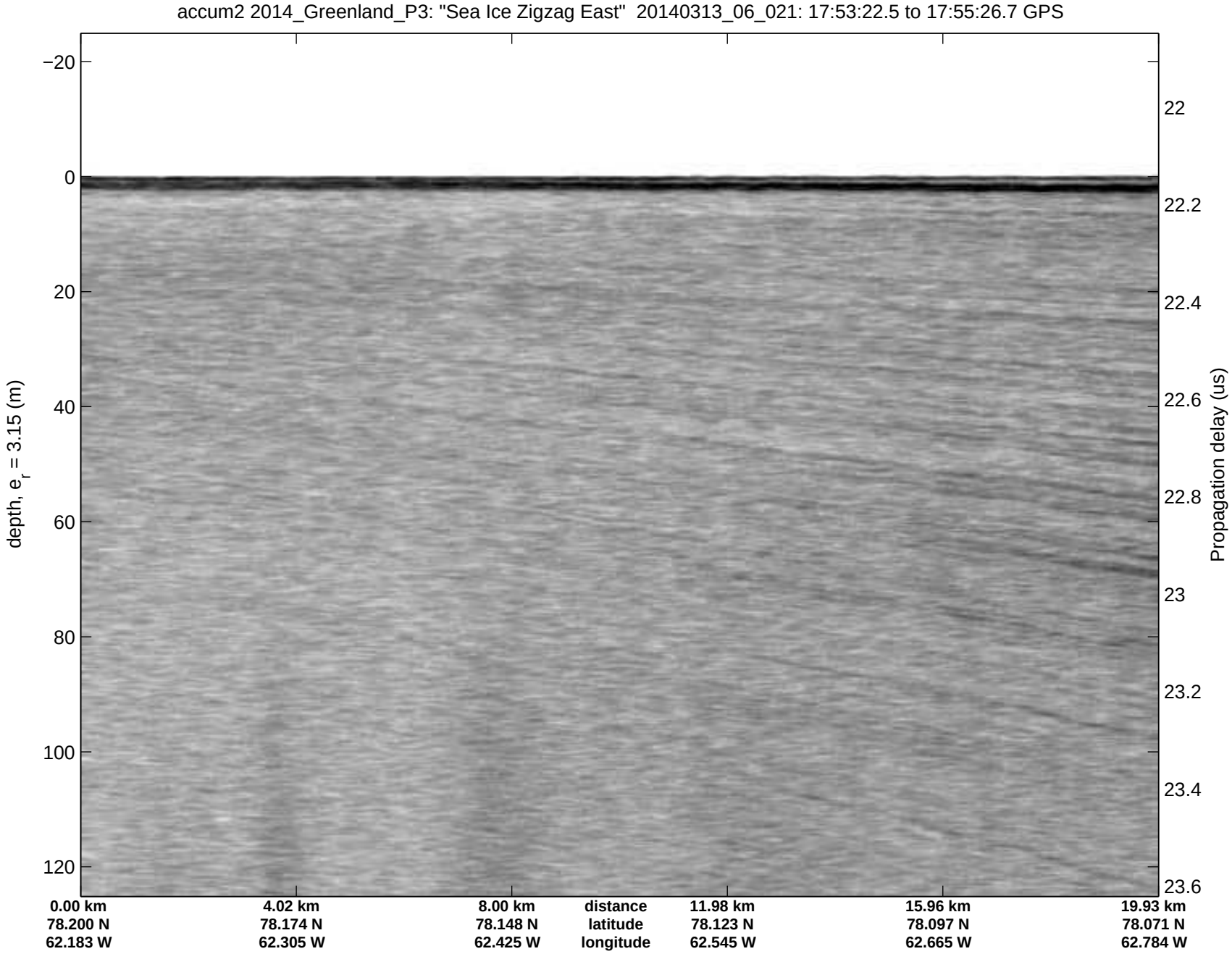

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

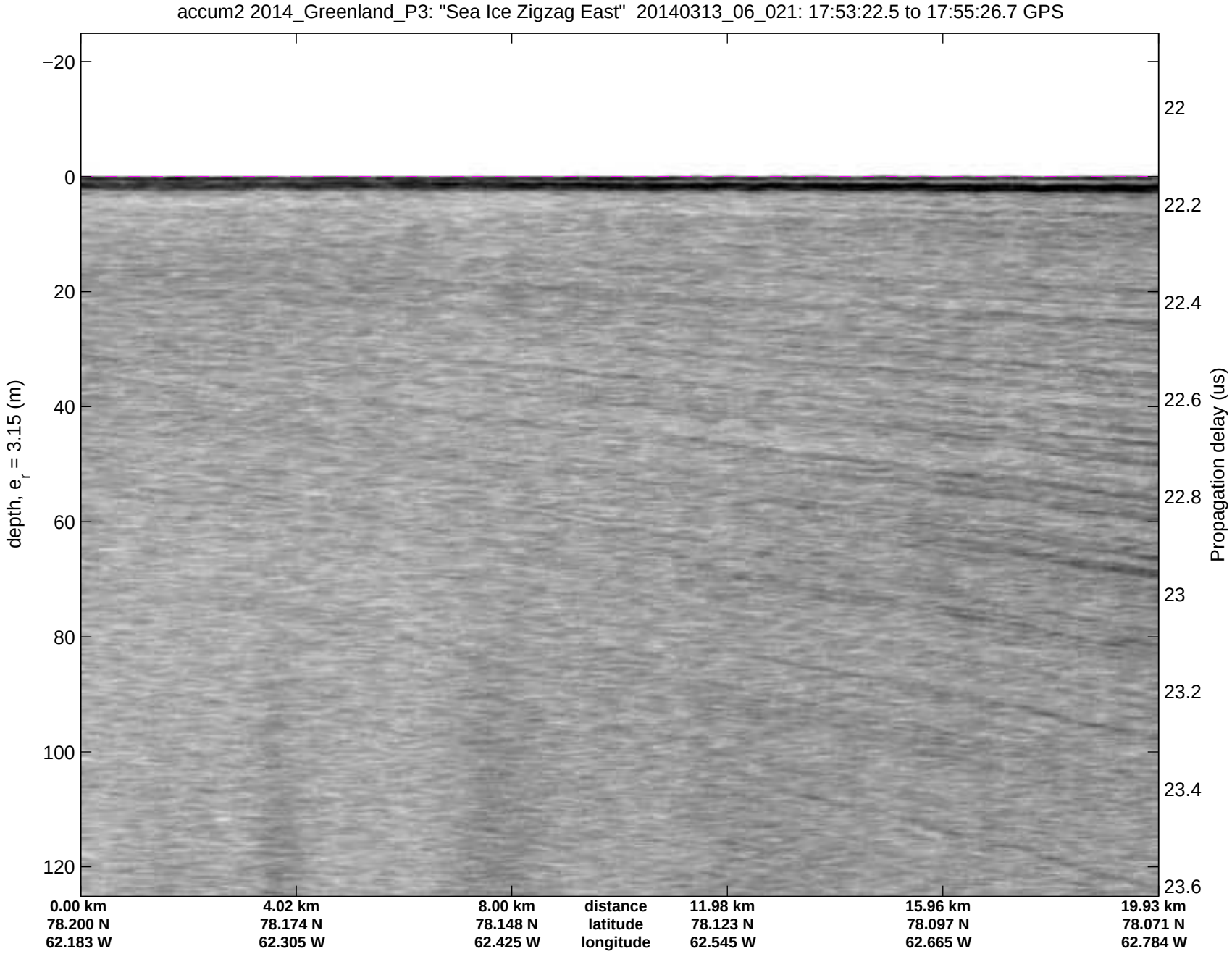

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_020: 17:51:17.5 to 17:53:22.0 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.2
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
0.00 km
78.328 N
61.566 W
4.01 km
78.302 N
61.690 W
7.97 km
78.277 N
61.813 W
distance
latitude
longitude
11.99 km
78.251 N
61.937 W
15.96 km
78.226 N
62.059 W
19.93 km
78.200 N
62.180 W

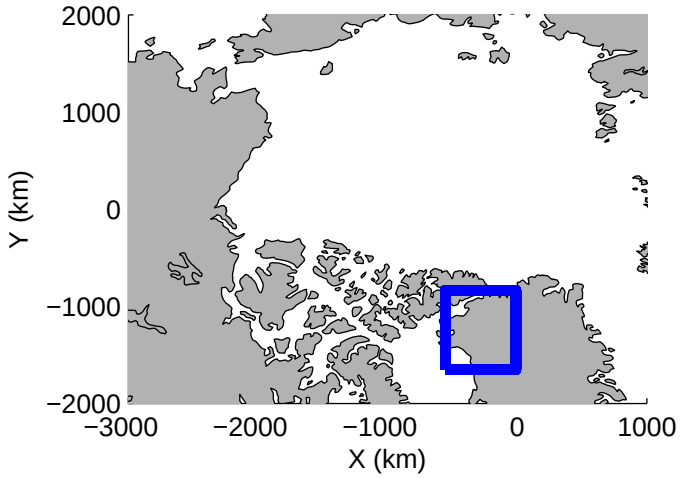

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_020: 17:51:17.5 to 17:53:22.0 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.2
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
0.00 km
78.328 N
61.566 W
4.01 km
78.302 N
61.690 W
7.97 km
78.277 N
61.813 W
distance
latitude
longitude
11.99 km
78.251 N
61.937 W
15.96 km
78.226 N
62.059 W
19.93 km
78.200 N
62.180 W

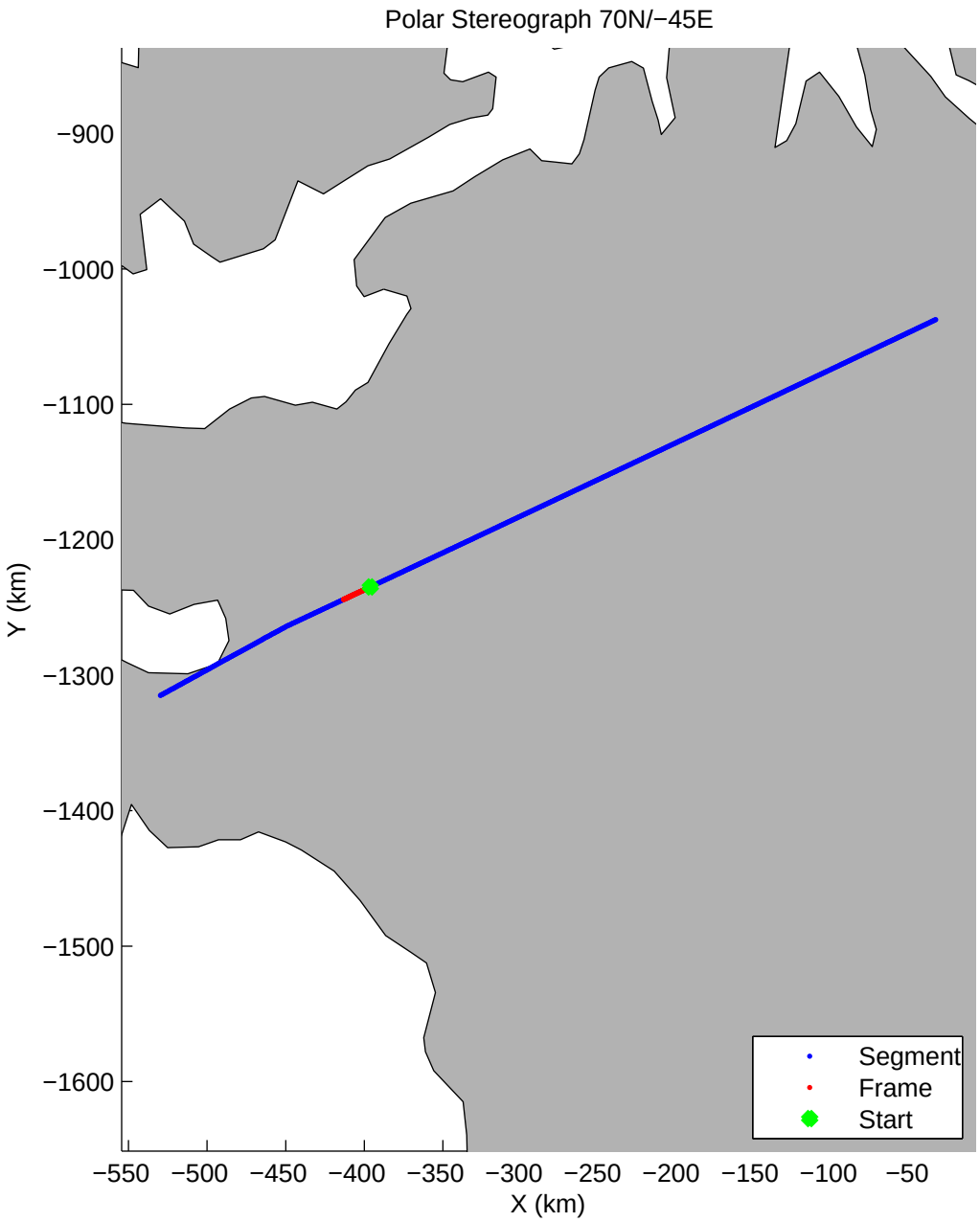

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

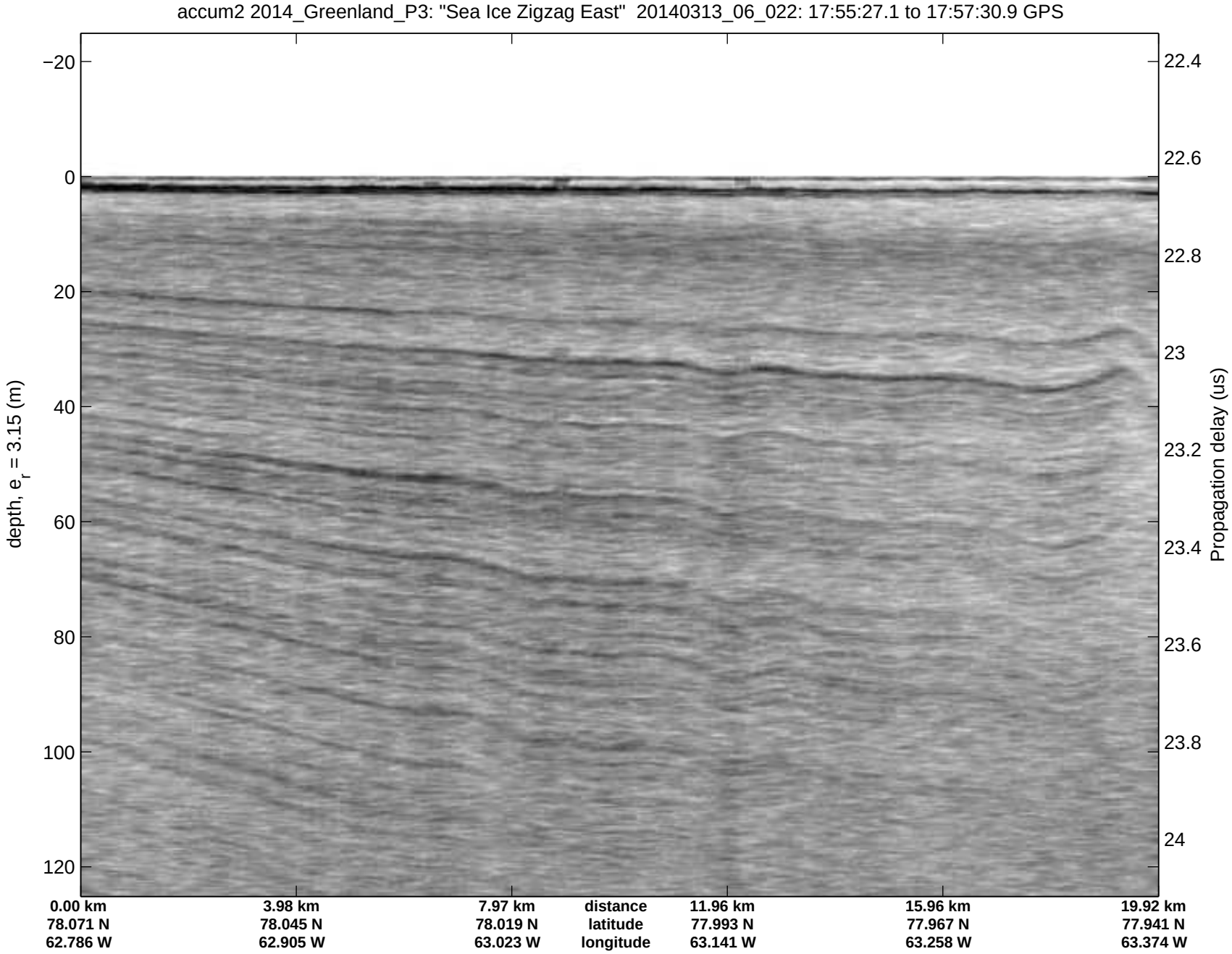

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

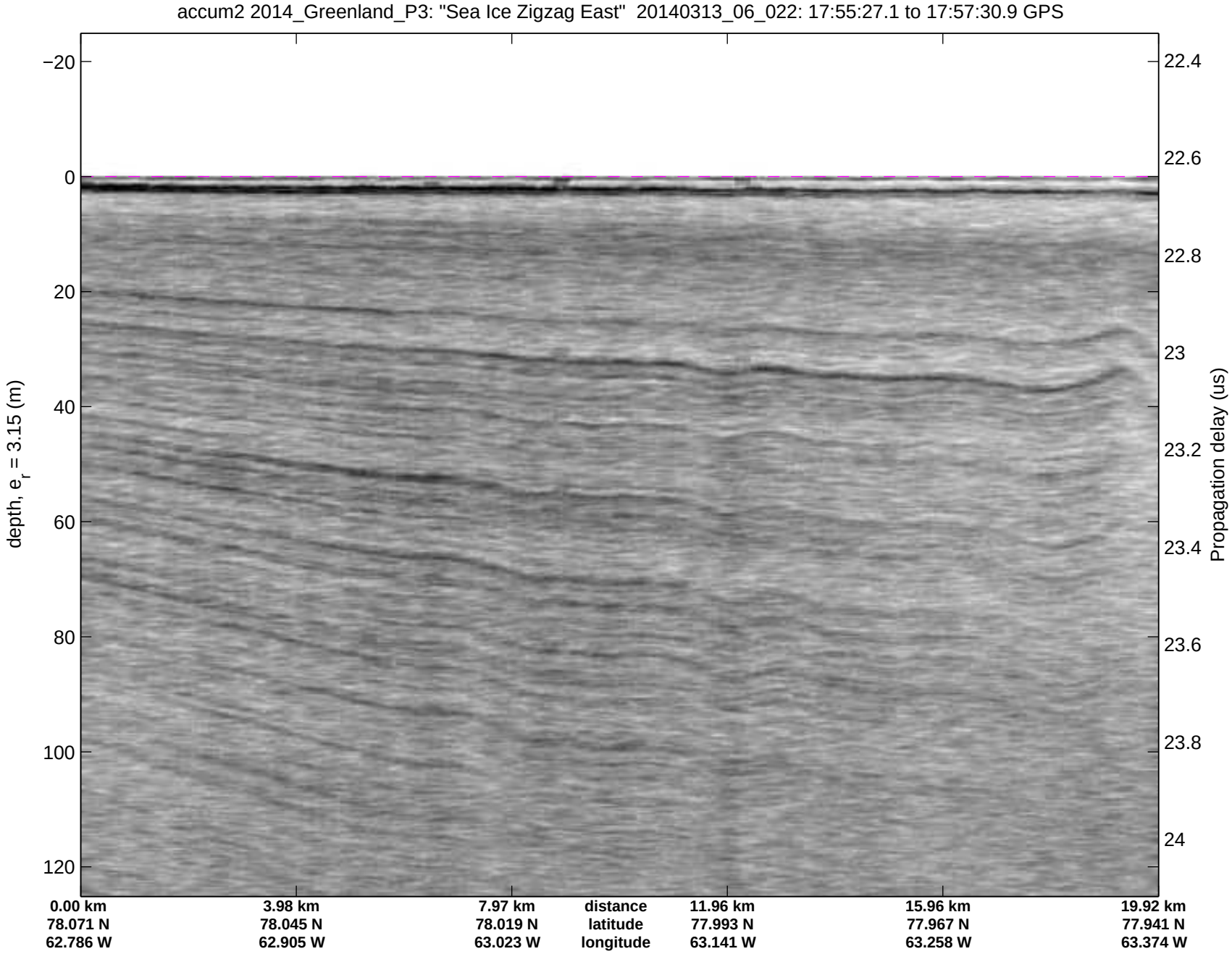

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_021: 17:53:22.5 to 17:55:26.7 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22
22.2
22.4
22.6
22.8
23
23.2
23.4
23.6
0.00 km
78.200 N
62.183 W
4.02 km
78.174 N
62.305 W
8.00 km
78.148 N
62.425 W
distance
latitude
longitude
11.98 km
78.123 N
62.545 W
15.96 km
78.097 N
62.665 W
19.93 km
78.071 N
62.784 W

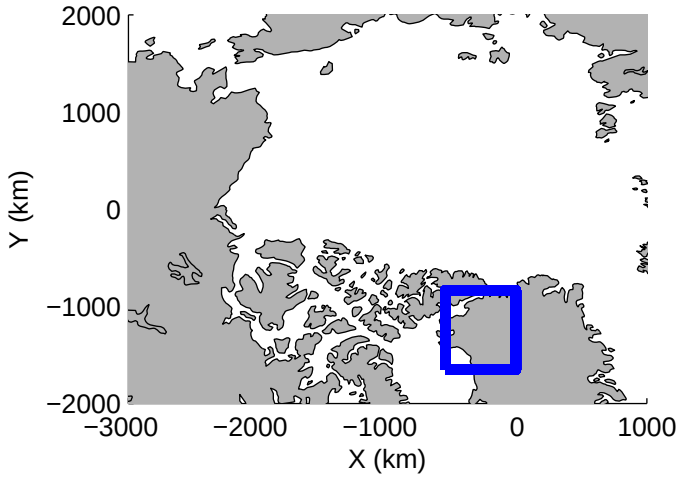

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_021: 17:53:22.5 to 17:55:26.7 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22
22.2
22.4
22.6
22.8
23
23.2
23.4
23.6
0.00 km
78.200 N
62.183 W
4.02 km
78.174 N
62.305 W
8.00 km
78.148 N
62.425 W
distance
latitude
longitude
11.98 km
78.123 N
62.545 W
15.96 km
78.097 N
62.665 W
19.93 km
78.071 N
62.784 W

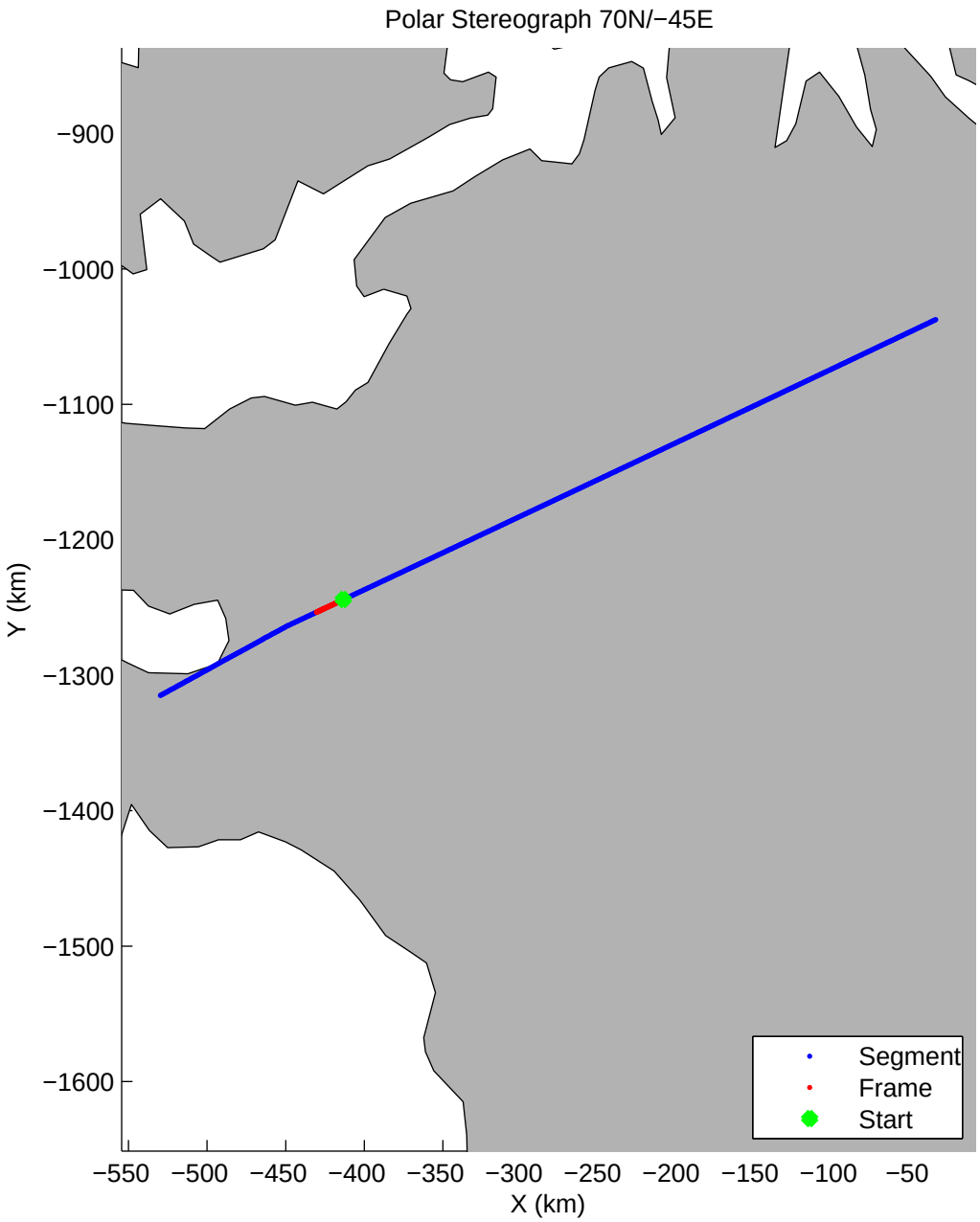

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

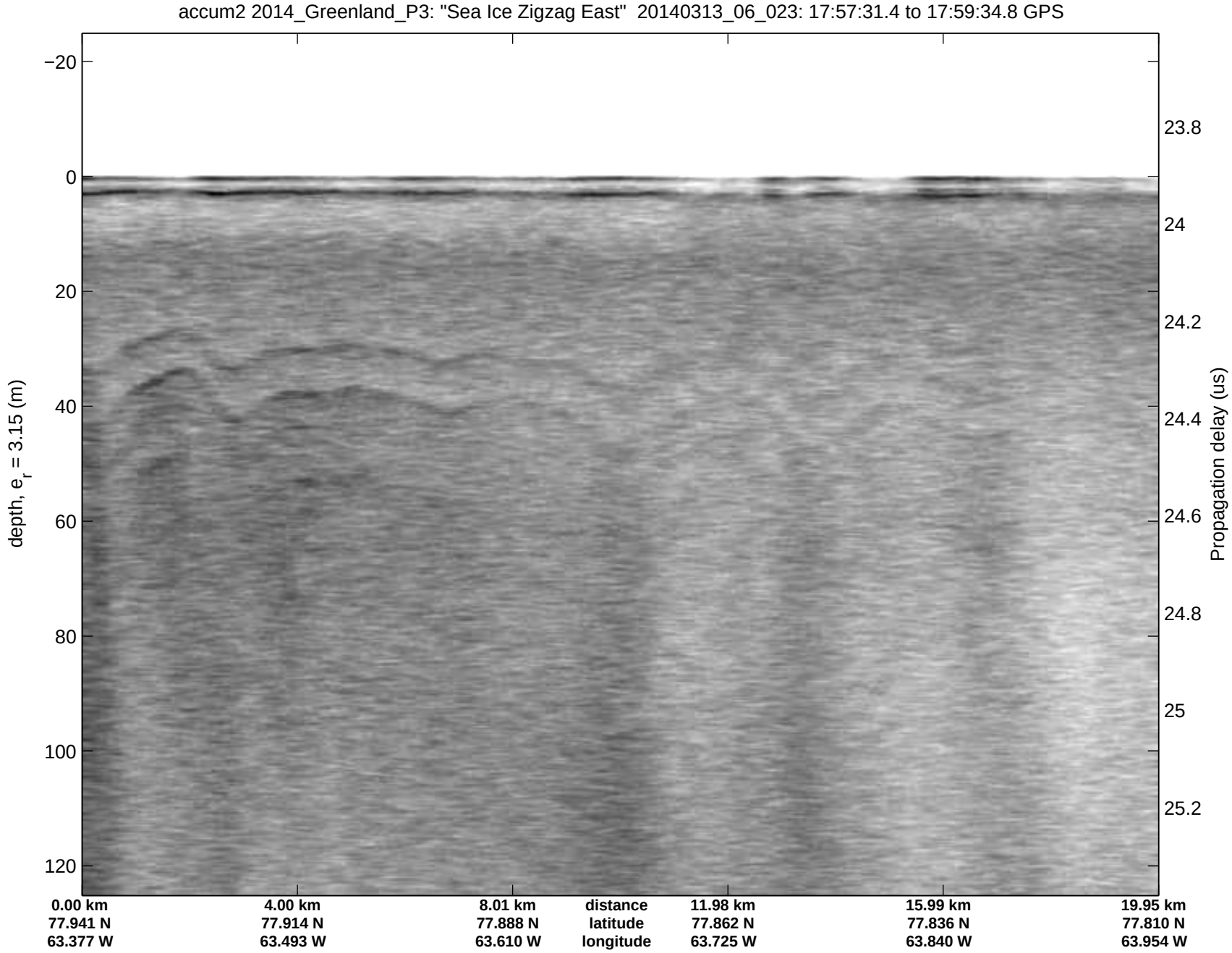

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

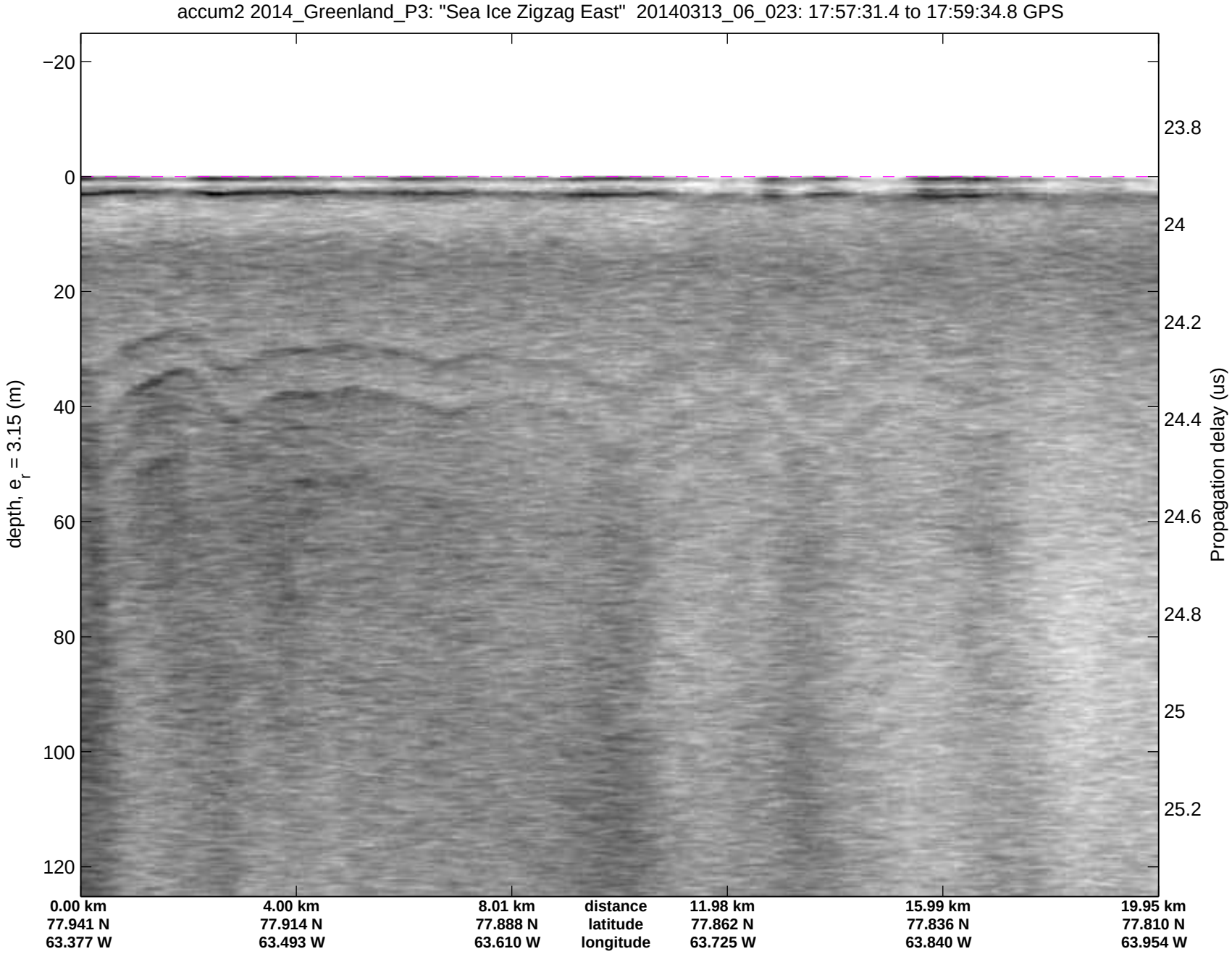

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_022: 17:55:27.1 to 17:57:30.9 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
0.00 km
78.071 N
62.786 W
3.98 km
78.045 N
62.905 W
7.97 km
78.019 N
63.023 W
distance
latitude
longitude
11.96 km
77.993 N
63.141 W
15.96 km
77.967 N
63.258 W
19.92 km
77.941 N
63.374 W

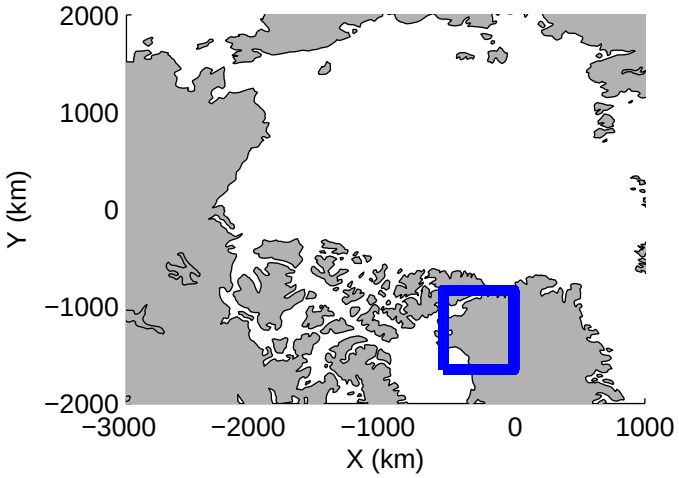

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_022: 17:55:27.1 to 17:57:30.9 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
22.4
22.6
22.8
23
23.2
23.4
23.6
23.8
24
Propagation delay (us)
0.00 km
78.071 N
62.786 W
3.98 km
78.045 N
62.905 W
7.97 km
78.019 N
63.023 W
distance
latitude
longitude
11.96 km
77.993 N
63.141 W
15.96 km
77.967 N
63.258 W
19.92 km
77.941 N
63.374 W

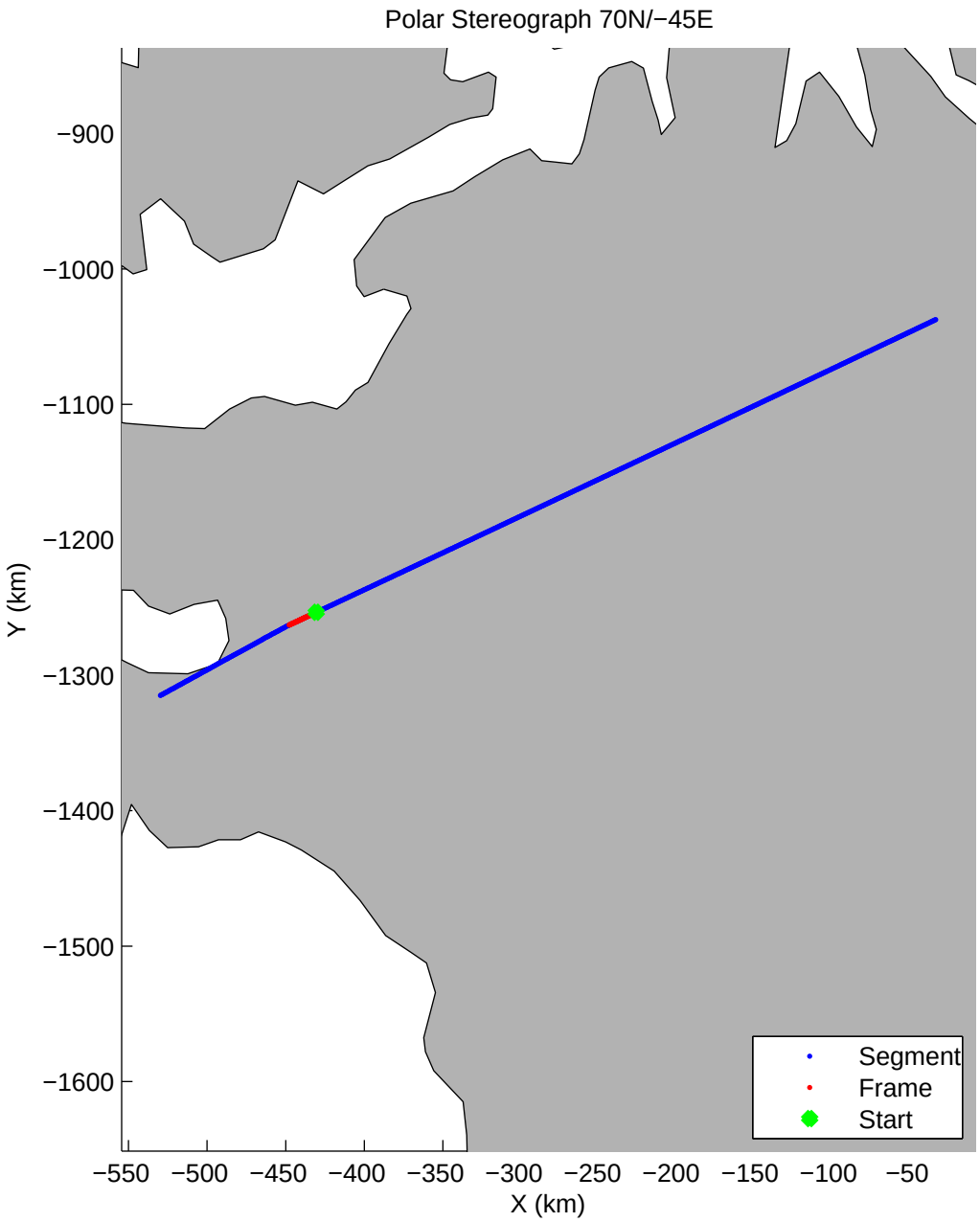

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

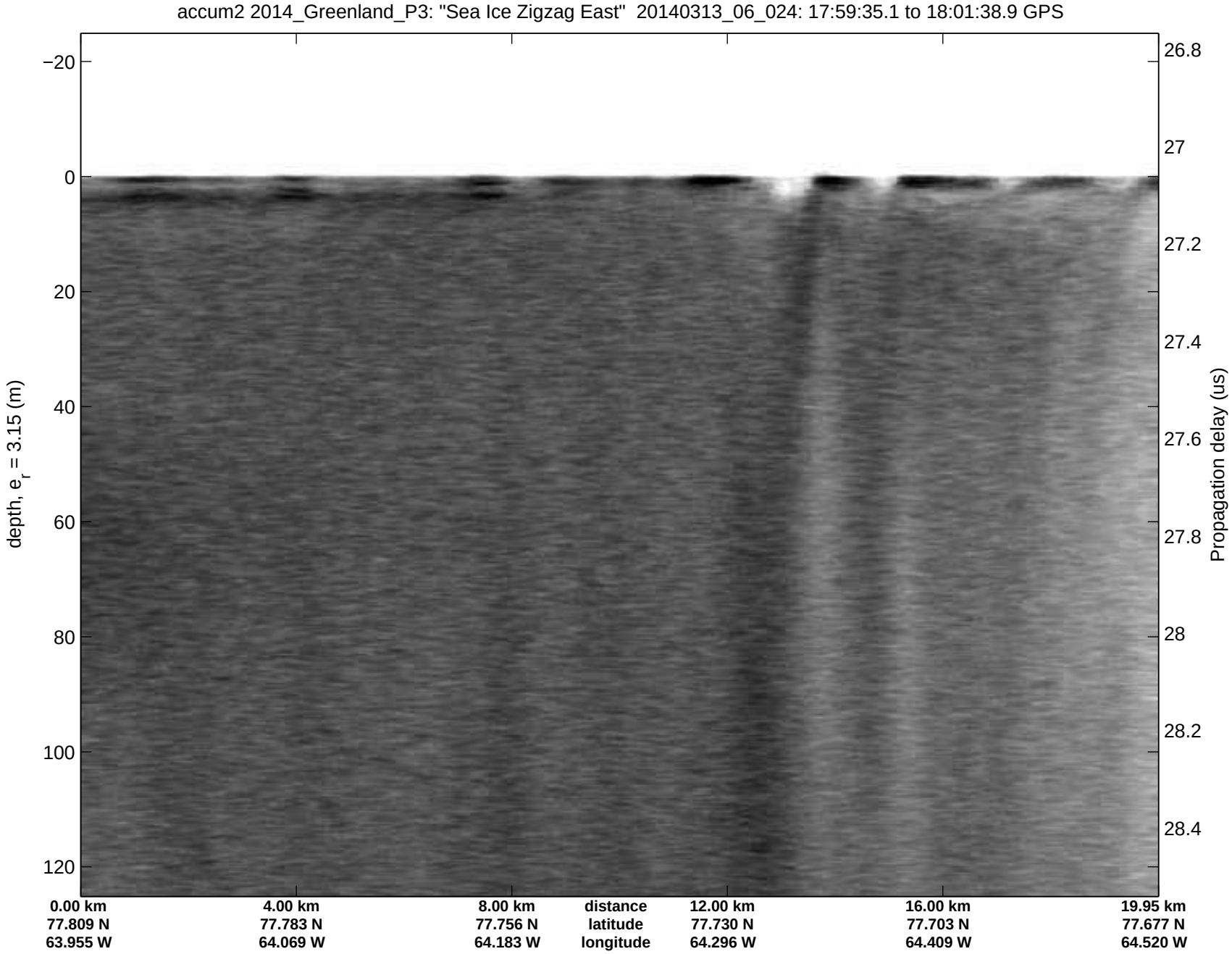

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

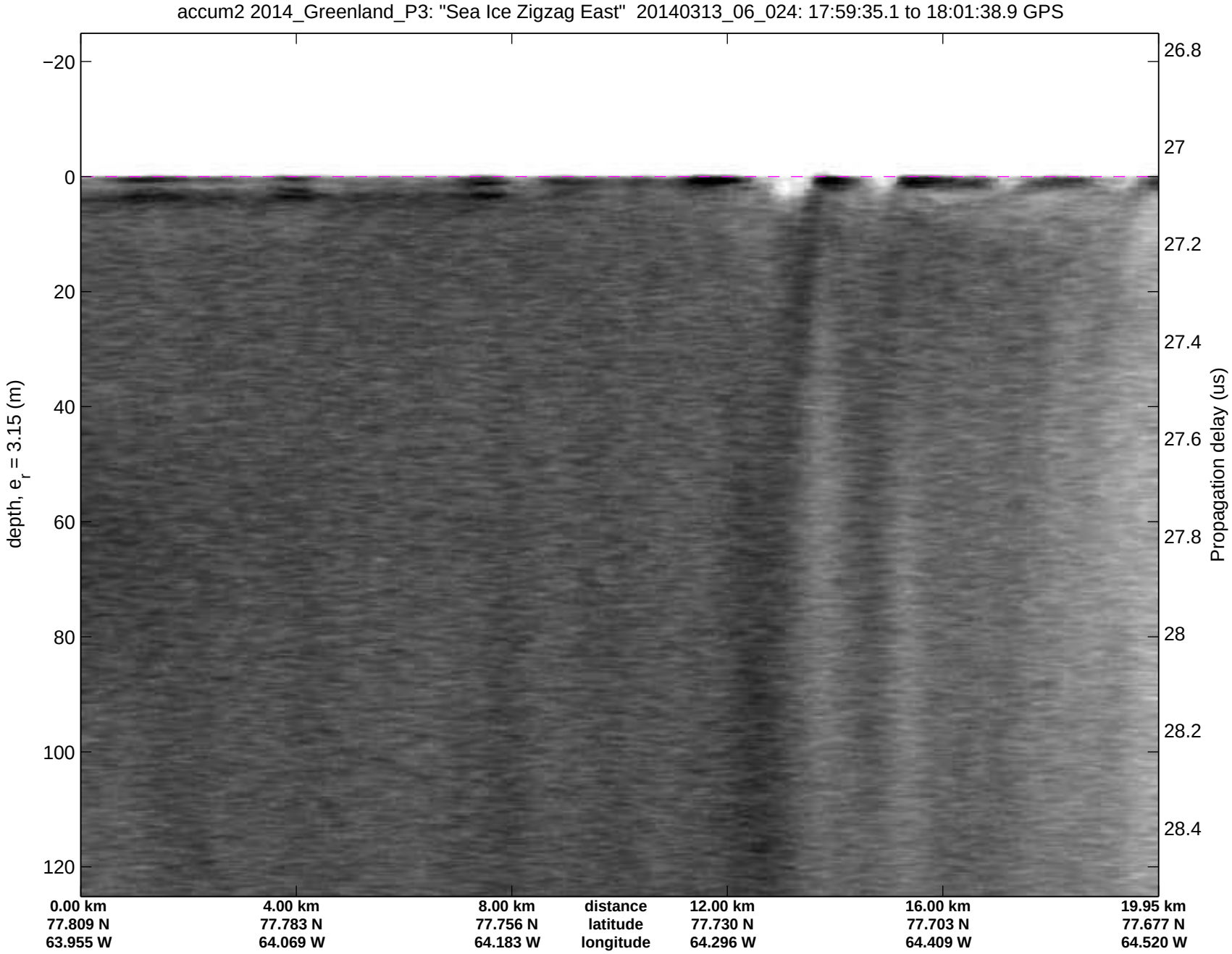

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_023: 17:57:31.4 to 17:59:34.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
23.8
24
24.2
24.4
24.6
24.8
25
25.2
0.00 km
77.941 N
63.377 W
4.00 km
77.914 N
63.493 W
8.01 km
77.888 N
63.610 W
distance
latitude
longitude
11.98 km
77.862 N
63.725 W
15.99 km
77.836 N
63.840 W
19.95 km
77.810 N
63.954 W

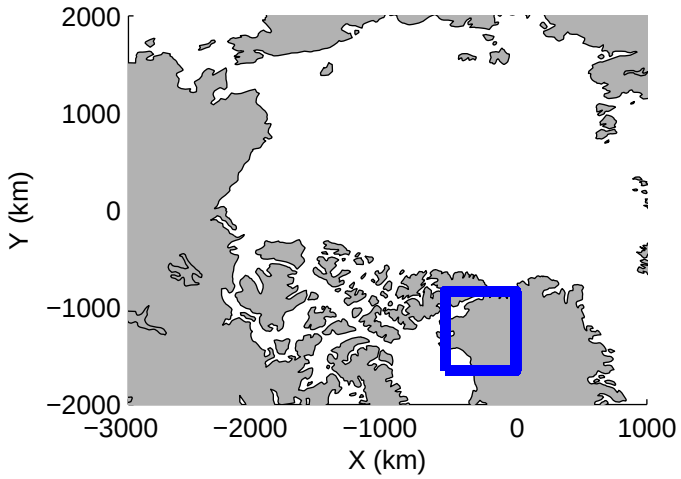

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_023: 17:57:31.4 to 17:59:34.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
23.8
24
24.2
24.4
24.6
24.8
25
25.2
0.00 km
77.941 N
63.377 W
4.00 km
77.914 N
63.493 W
8.01 km
77.888 N
63.610 W
distance
latitude
longitude
11.98 km
77.862 N
63.725 W
15.99 km
77.836 N
63.840 W
19.95 km
77.810 N
63.954 W

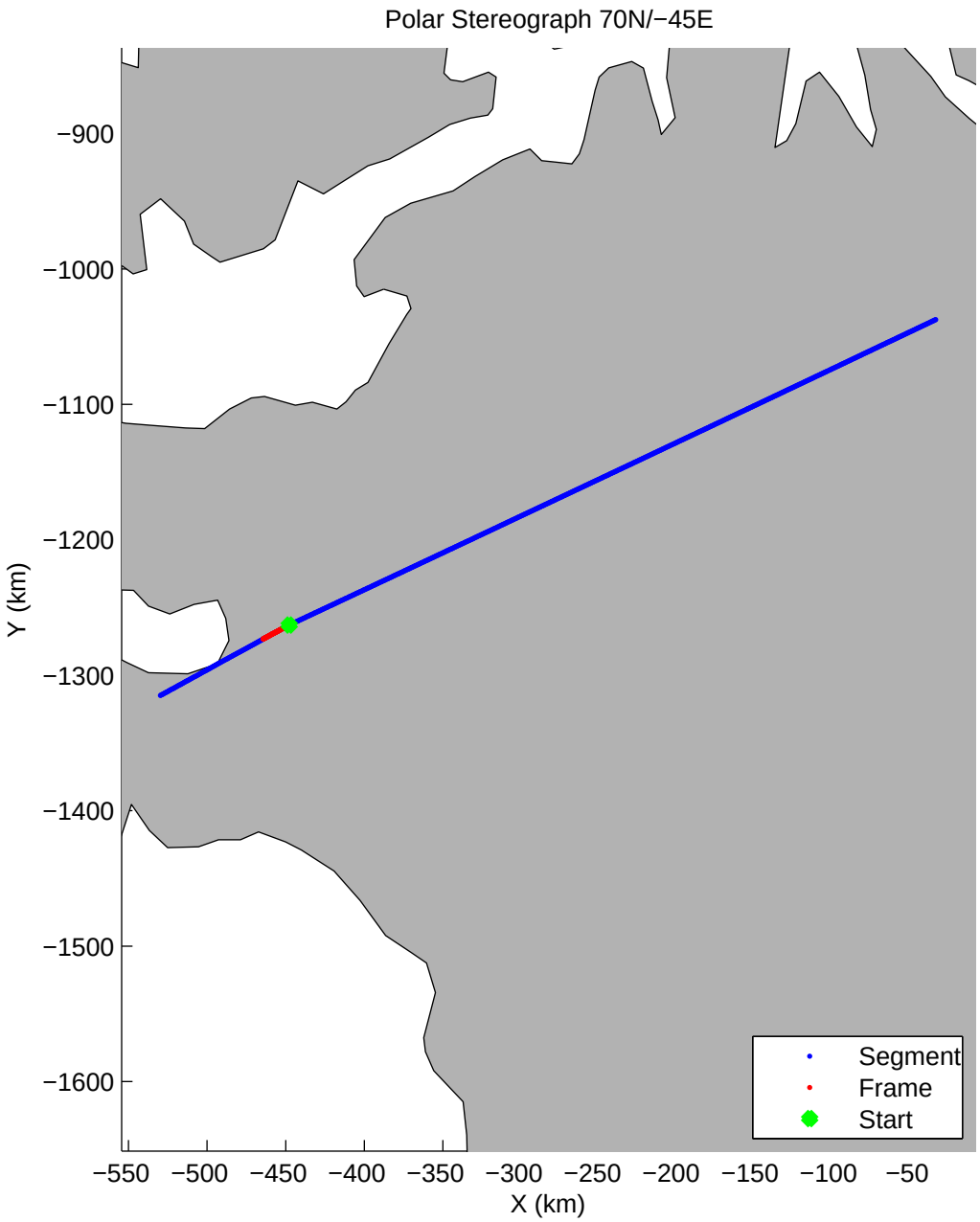

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

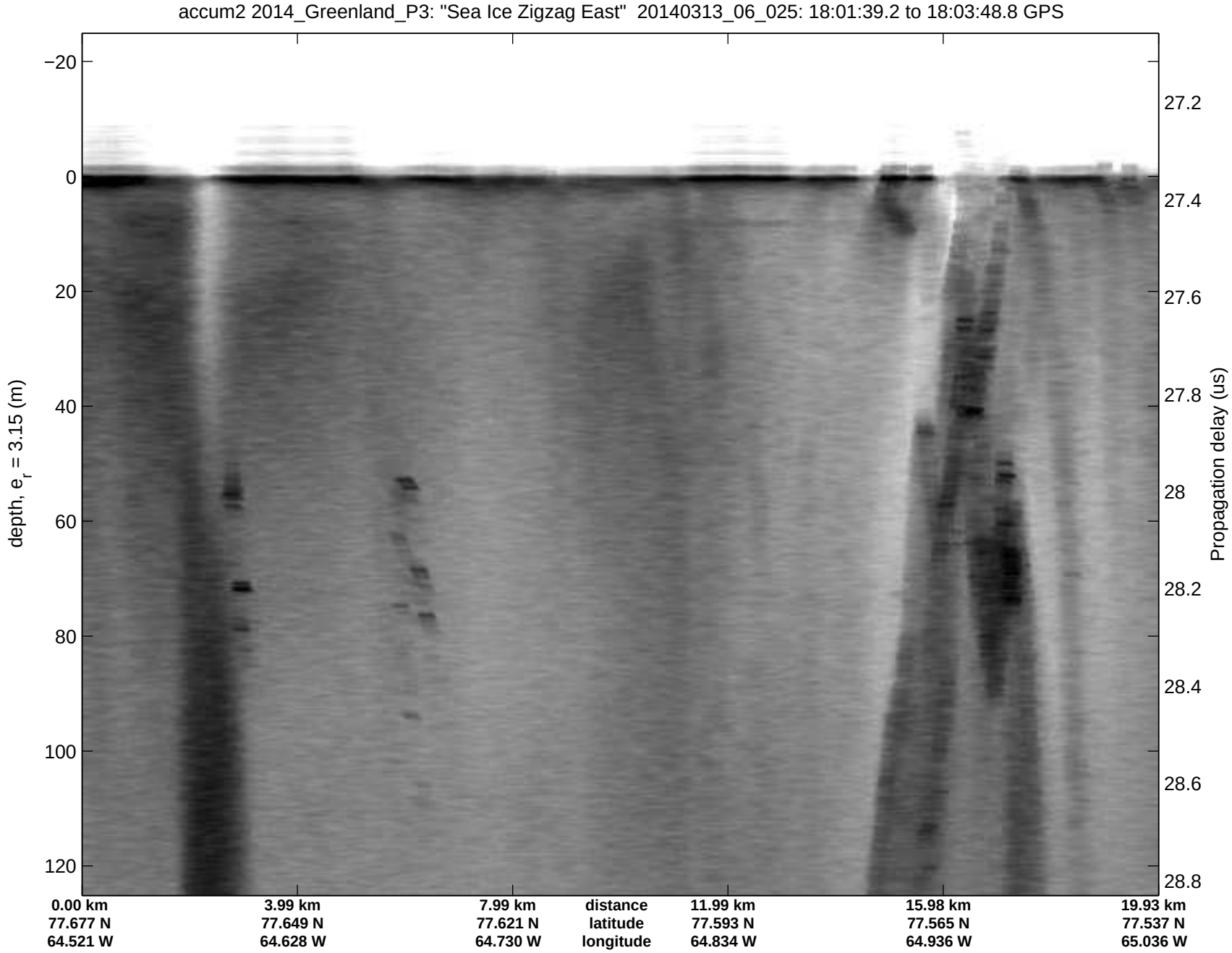

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

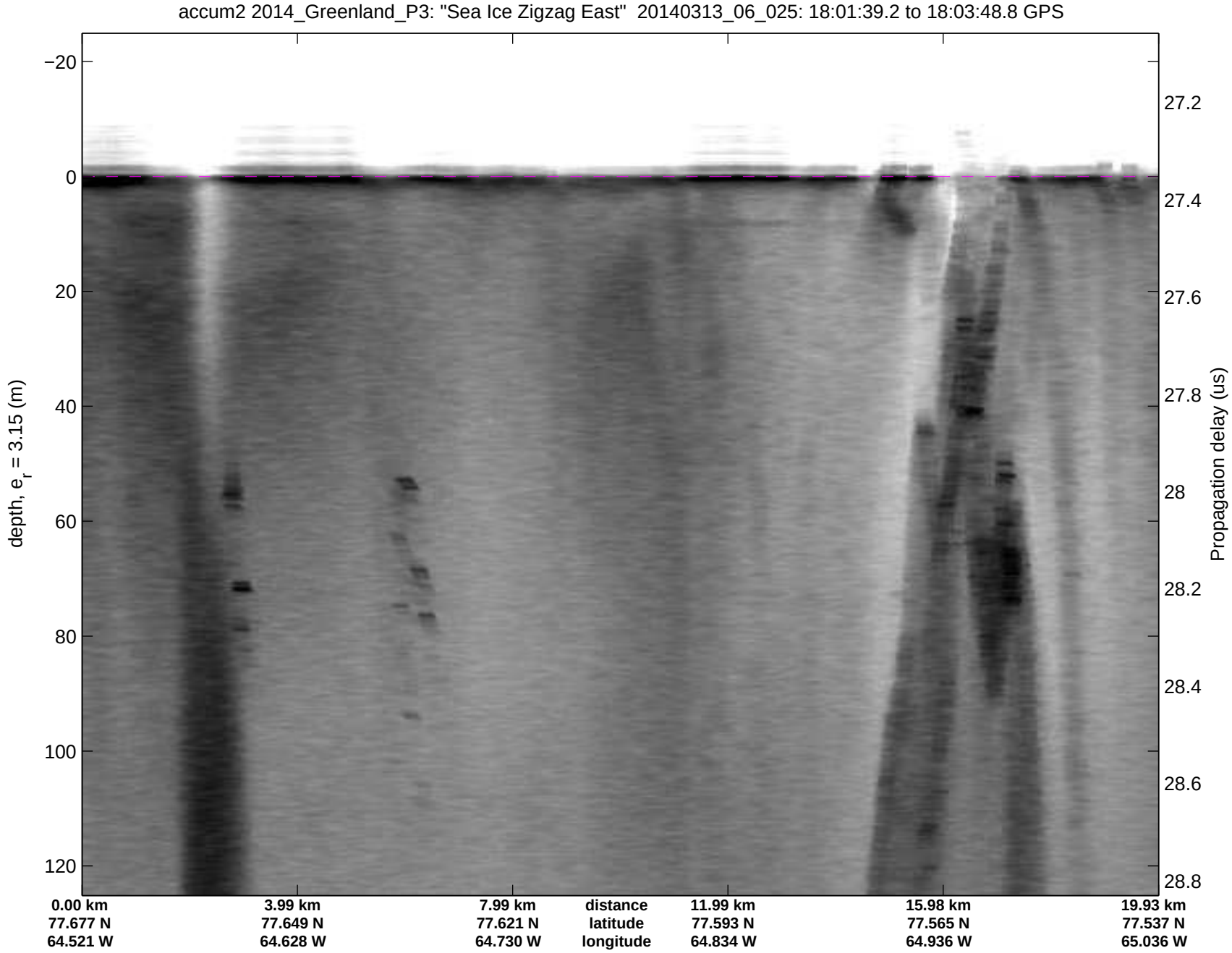

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_024: 17:59:35.1 to 18:01:38.9 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
26.8
27
27.2
27.4
27.6
27.8
28
28.2
28.4
0.00 km
77.809 N
63.955 W
4.00 km
77.783 N
64.069 W
8.00 km
77.756 N
64.183 W
distance
latitude
longitude
12.00 km
77.730 N
64.296 W
16.00 km
77.703 N
64.409 W
19.95 km
77.677 N
64.520 W

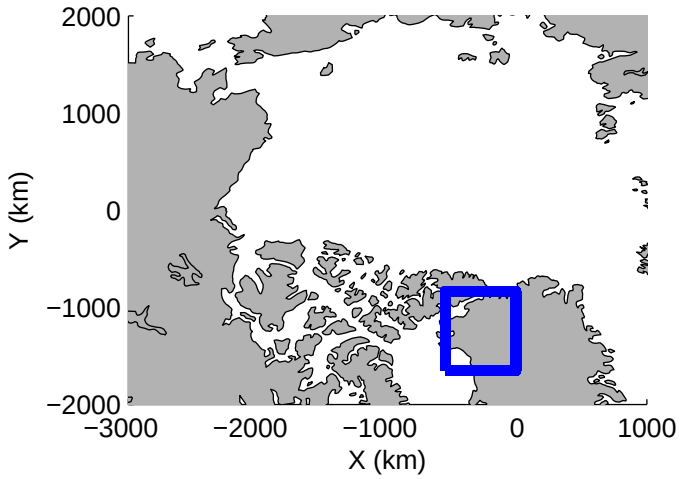

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_024: 17:59:35.1 to 18:01:38.9 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
26.8
27
27.2
27.4
27.6
27.8
28
28.2
28.4
0.00 km
77.809 N
63.955 W
4.00 km
77.783 N
64.069 W
8.00 km
77.756 N
64.183 W
distance
latitude
longitude
12.00 km
77.730 N
64.296 W
16.00 km
77.703 N
64.409 W
19.95 km
77.677 N
64.520 W

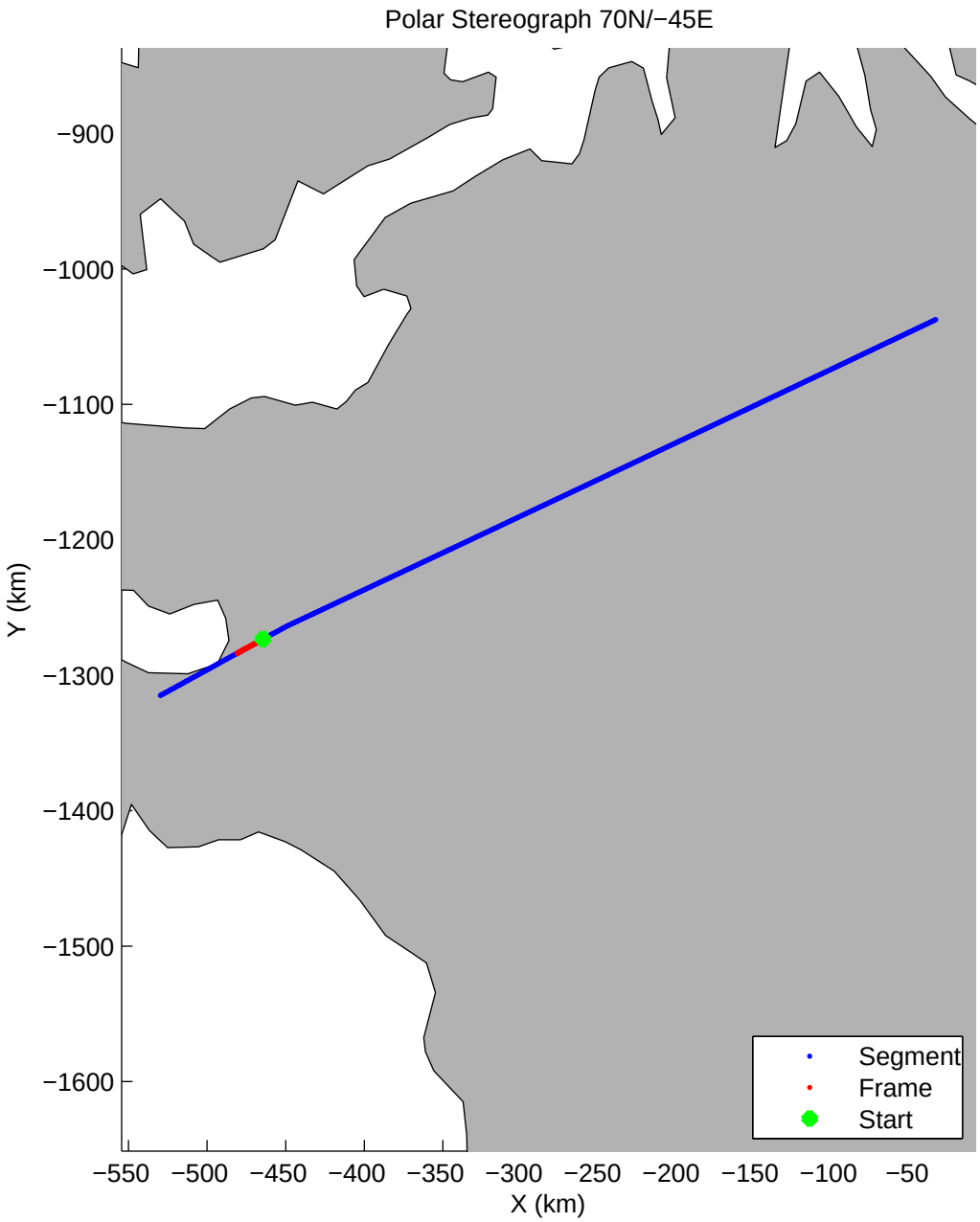

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

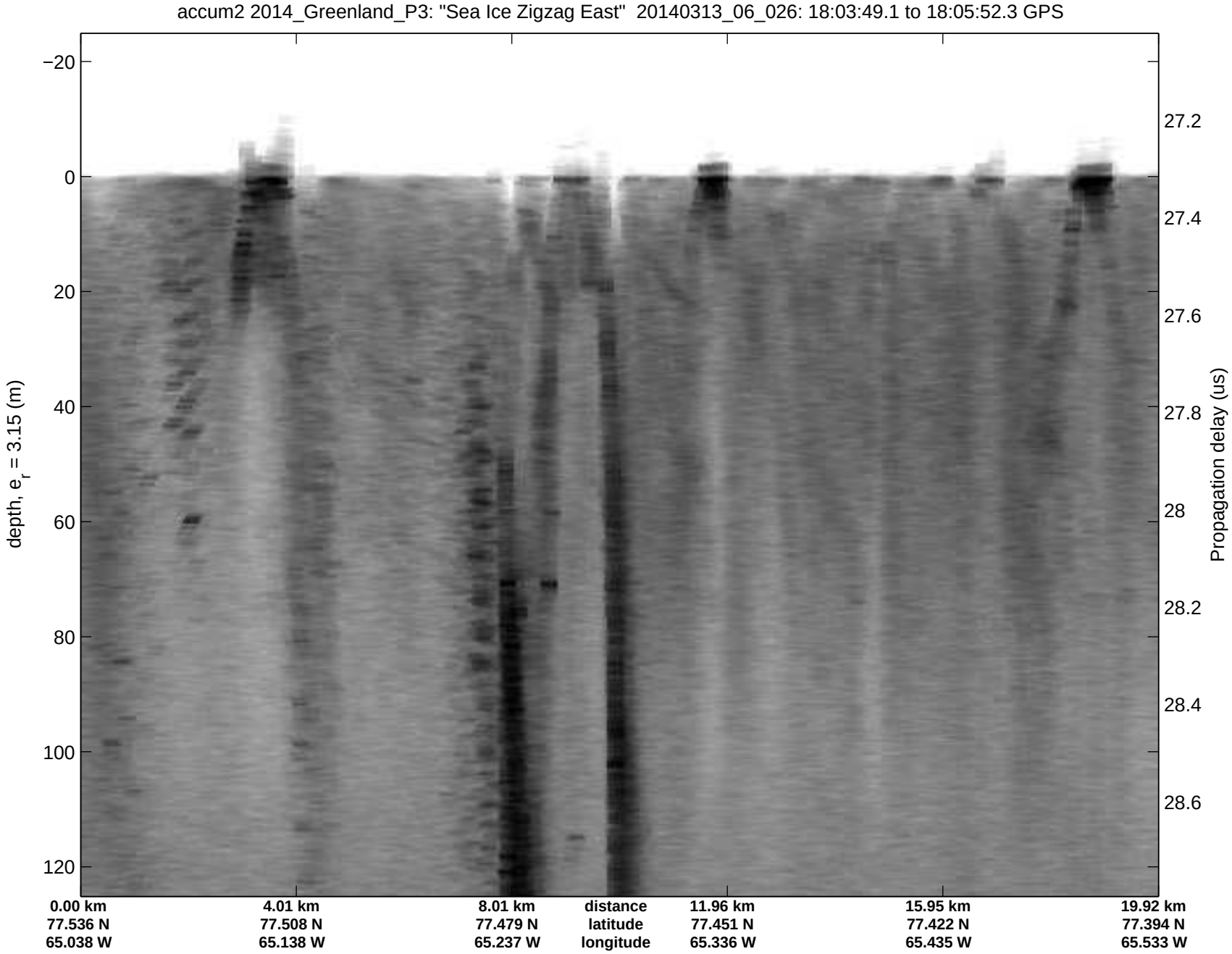

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

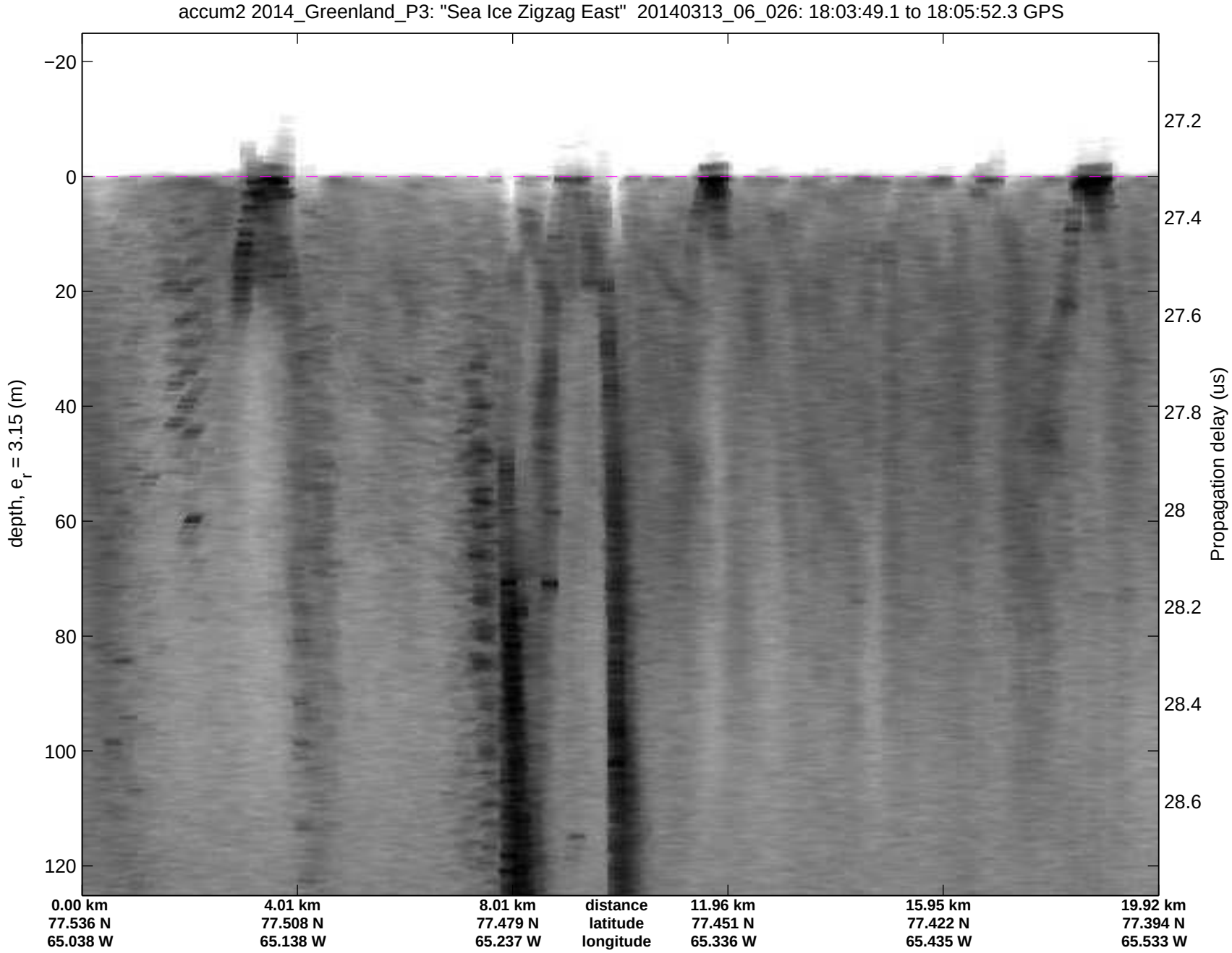

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_025: 18:01:39.2 to 18:03:48.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
27.2
27.4
27.6
27.8
28
28.2
28.4
28.6
28.8
0.00 km
77.677 N
64.521 W
3.99 km
77.649 N
64.628 W
7.99 km
77.621 N
64.730 W
distance
latitude
longitude
11.99 km
77.593 N
64.834 W
15.98 km
77.565 N
64.936 W
19.93 km
77.537 N
65.036 W

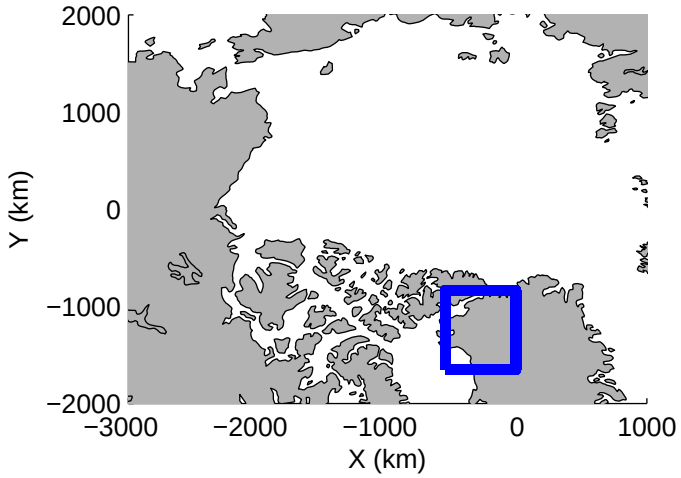

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_025: 18:01:39.2 to 18:03:48.8 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
27.2
27.4
27.6
27.8
28
28.2
28.4
28.6
28.8
0.00 km
77.677 N
64.521 W
3.99 km
77.649 N
64.628 W
7.99 km
77.621 N
64.730 W
distance
latitude
longitude
11.99 km
77.593 N
64.834 W
15.98 km
77.565 N
64.936 W
19.93 km
77.537 N
65.036 W

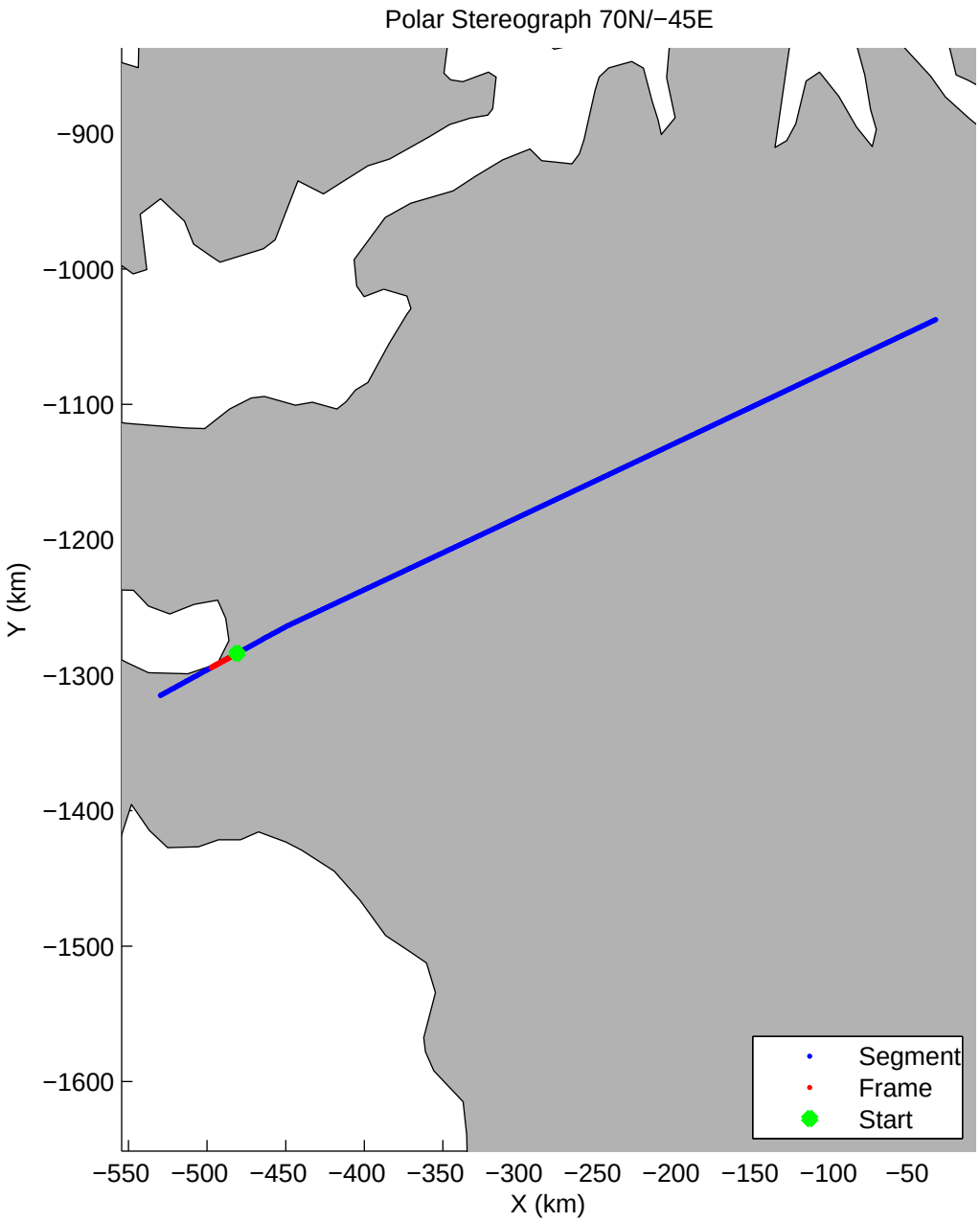

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

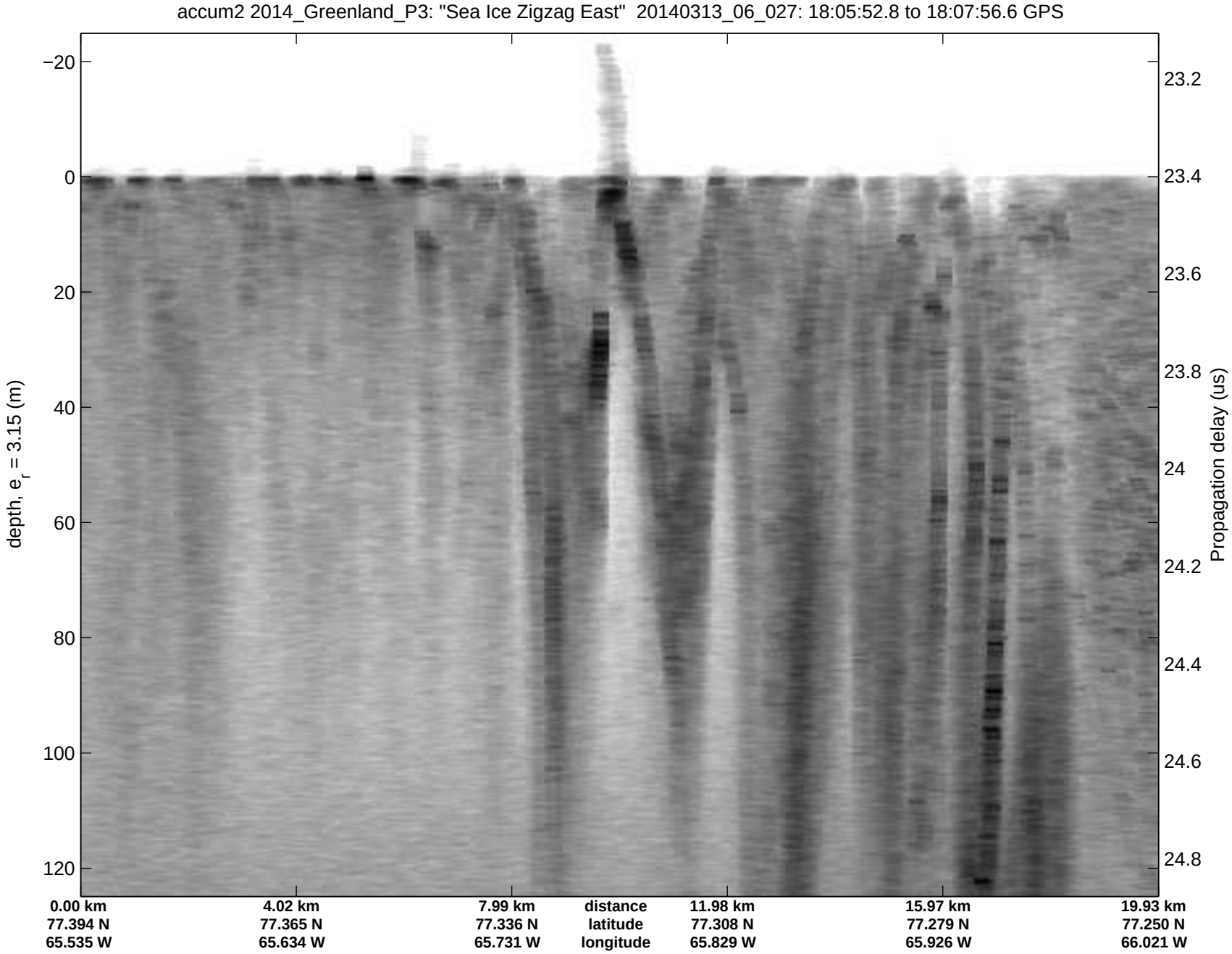

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

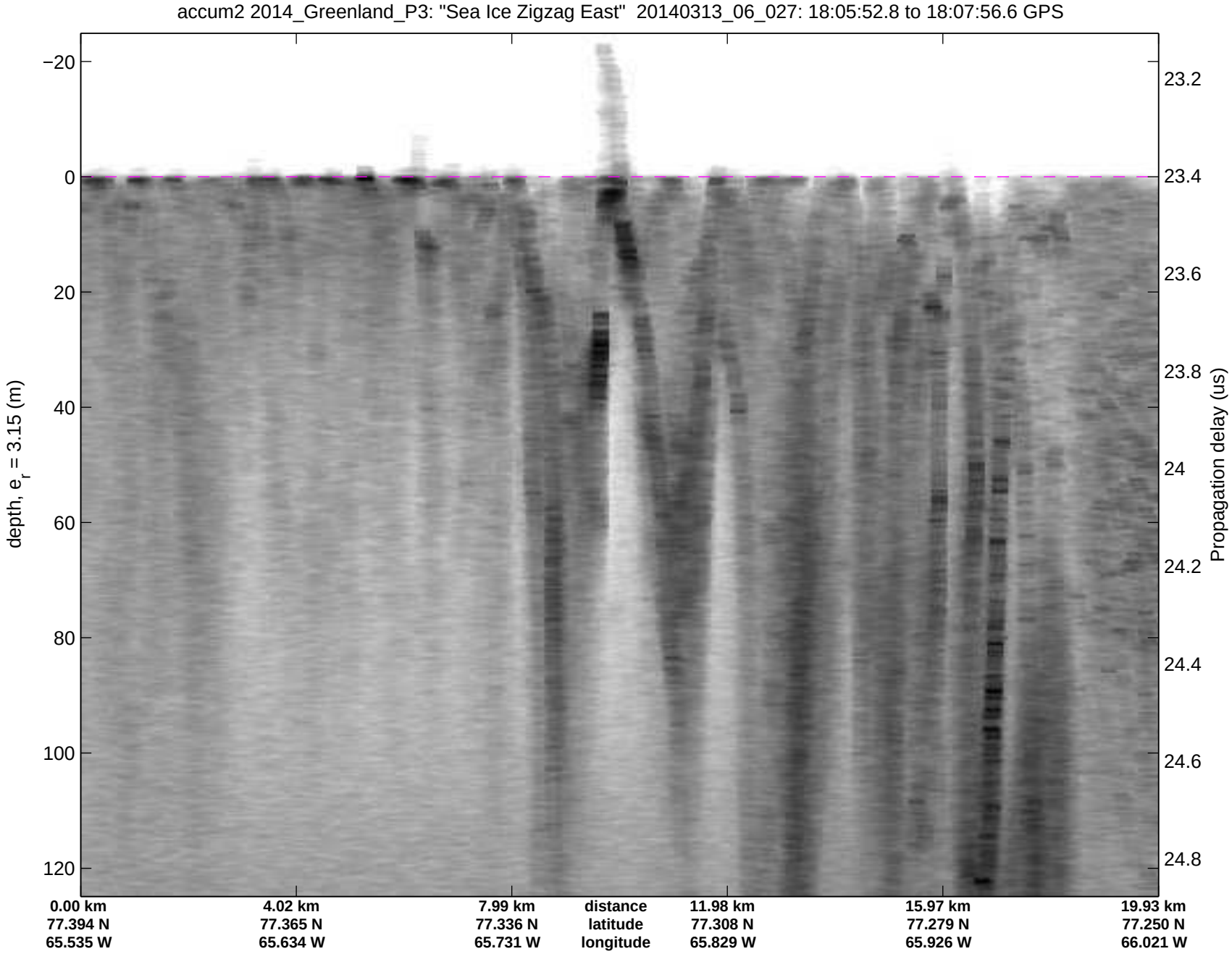

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_026: 18:03:49.1 to 18:05:52.3 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
27.2
27.4
27.6
27.8
28
28.2
28.4
28.6
0.00 km
77.536 N
65.038 W
4.01 km
77.508 N
65.138 W
8.01 km
77.479 N
65.237 W
distance
latitude
longitude
11.96 km
77.451 N
65.336 W
15.95 km
77.422 N
65.435 W
19.92 km
77.394 N
65.533 W

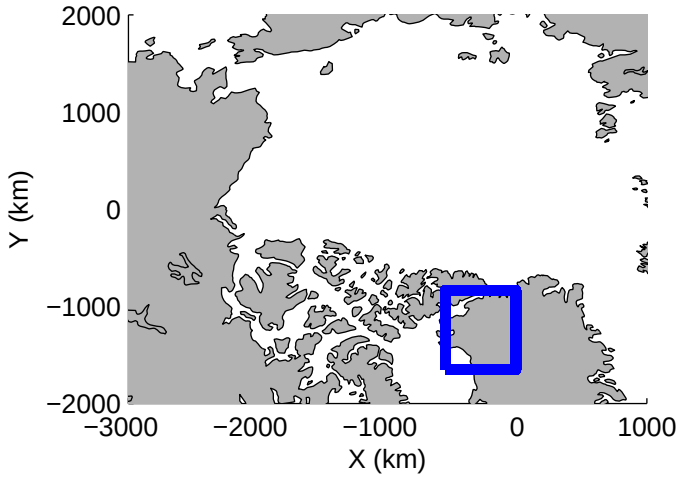

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_026: 18:03:49.1 to 18:05:52.3 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
27.2
27.4
27.6
27.8
28
28.2
28.4
28.6
0.00 km
77.536 N
65.038 W
4.01 km
77.508 N
65.138 W
8.01 km
77.479 N
65.237 W
distance
latitude
longitude
11.96 km
77.451 N
65.336 W
15.95 km
77.422 N
65.435 W
19.92 km
77.394 N
65.533 W

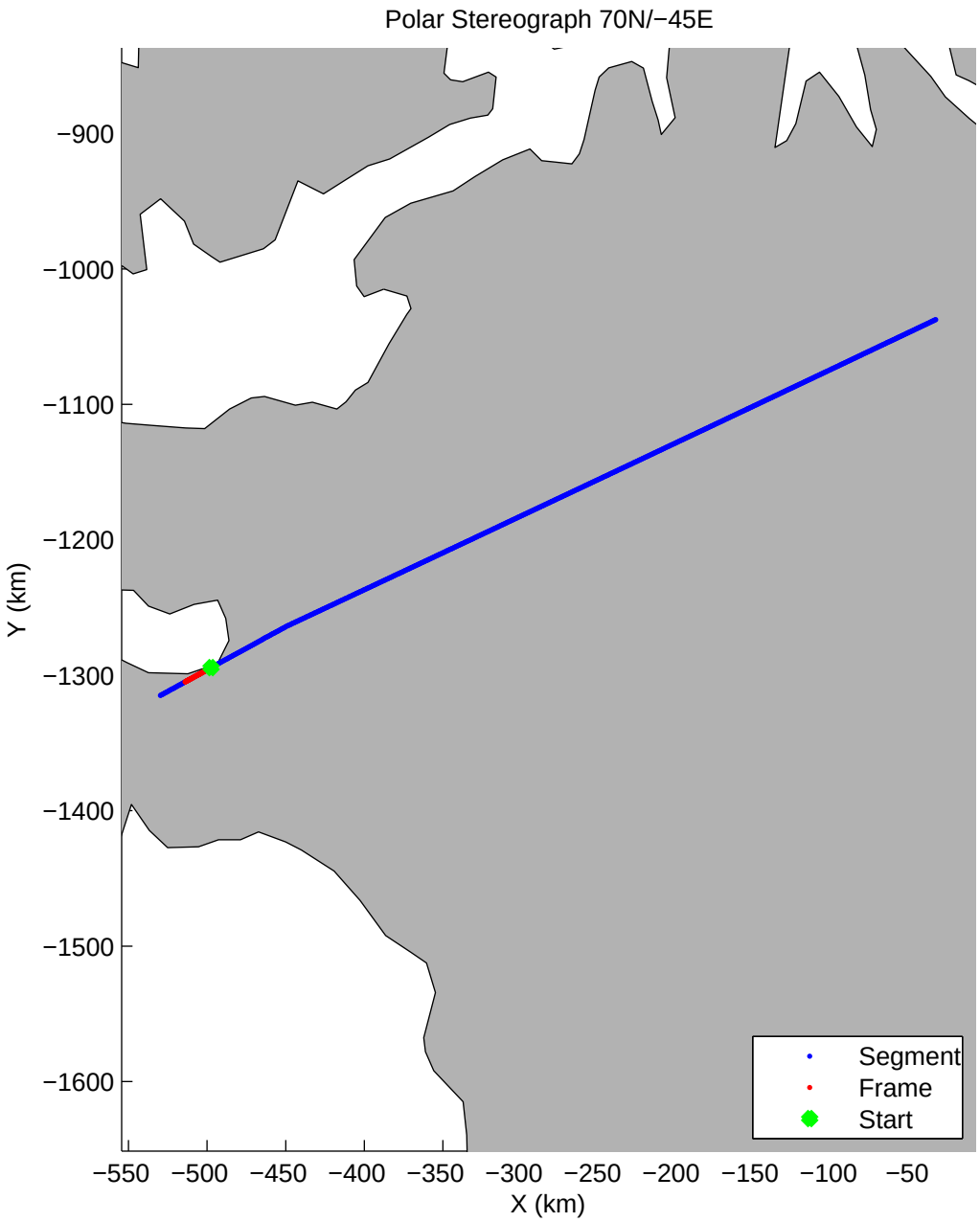

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

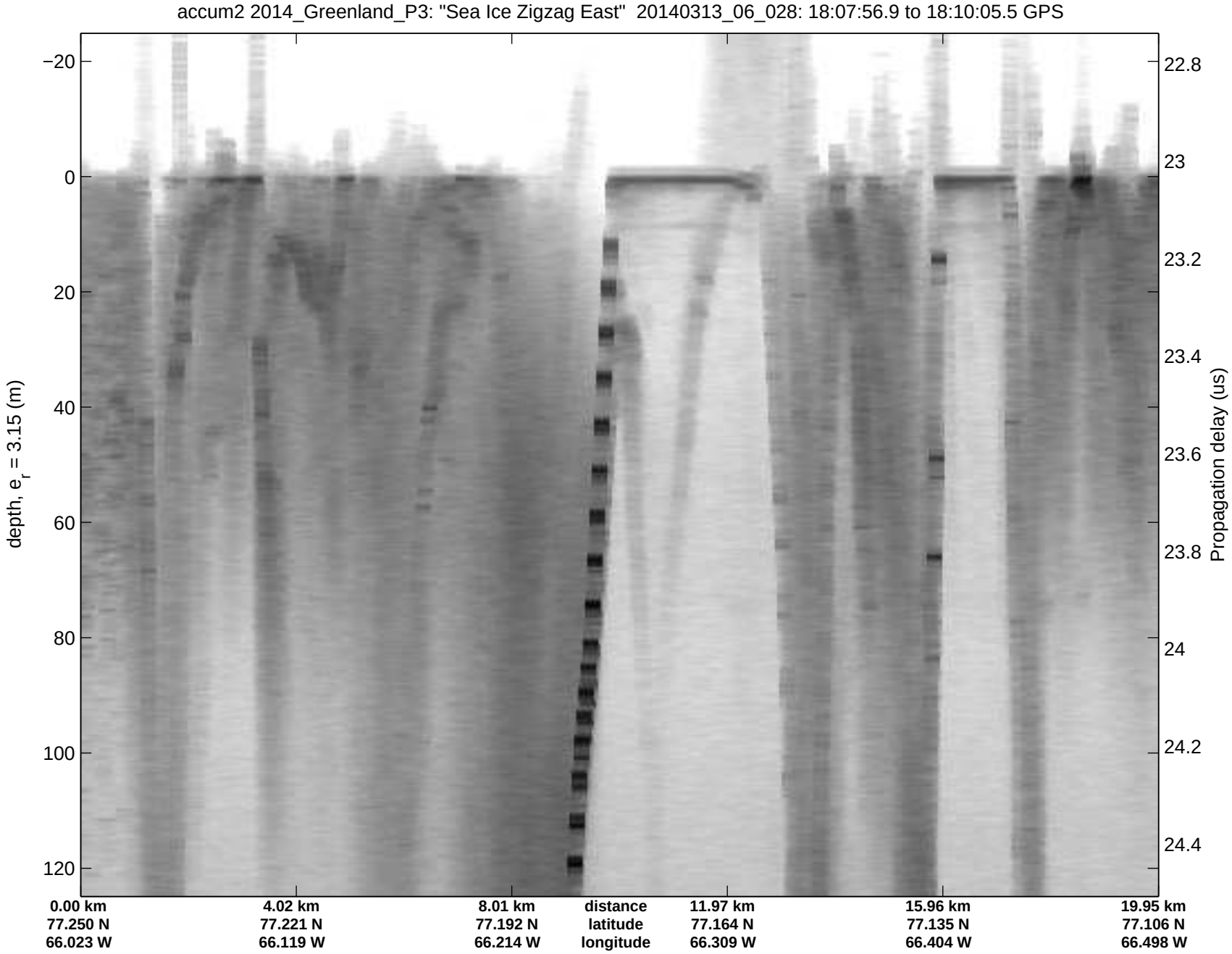

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

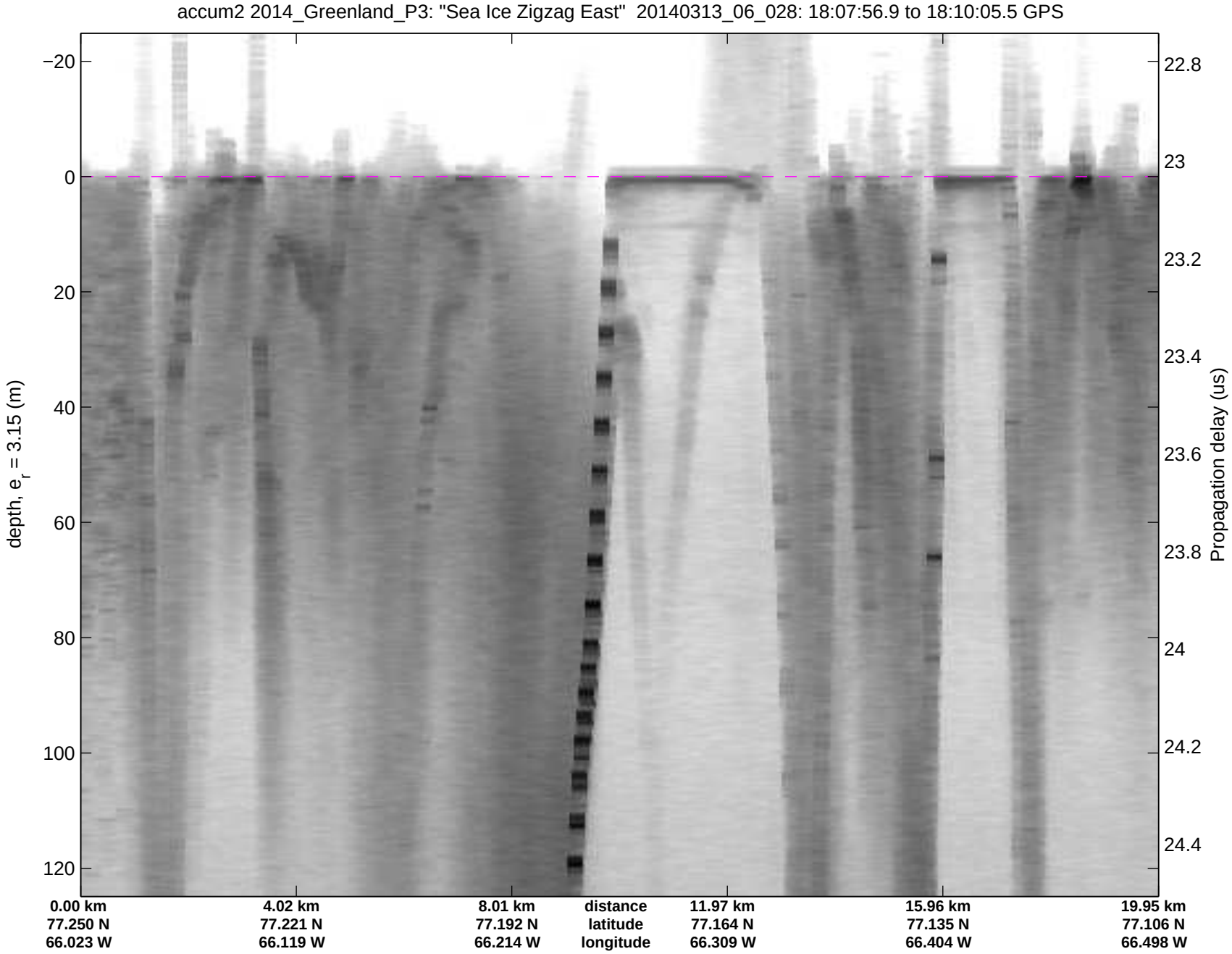

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_027: 18:05:52.8 to 18:07:56.6 GPS
depth, e_r = 3.15 (m)
Propagation delay (us)
−20
0
20
40
60
80
100
120
23.2
23.4
23.6
23.8
24
24.2
24.4
24.6
24.8
0.00 km
77.394 N
65.535 W
4.02 km
77.365 N
65.634 W
7.99 km
77.336 N
65.731 W
distance
latitude
longitude
11.98 km
77.308 N
65.829 W
15.97 km
77.279 N
65.926 W
19.93 km
77.250 N
66.021 W

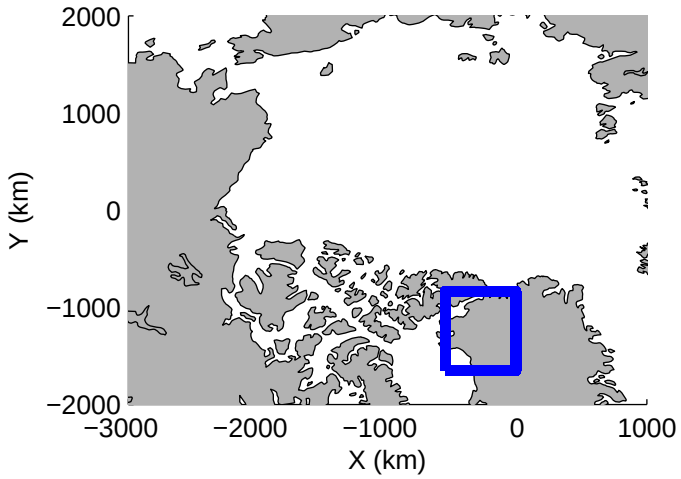

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_027: 18:05:52.8 to 18:07:56.6 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
23.2
23.4
23.6
23.8
24
24.2
24.4
24.6
24.8
0.00 km
77.394 N
65.535 W
4.02 km
77.365 N
65.634 W
7.99 km
77.336 N
65.731 W
distance
latitude
longitude
11.98 km
77.308 N
65.829 W
15.97 km
77.279 N
65.926 W
19.93 km
77.250 N
66.021 W

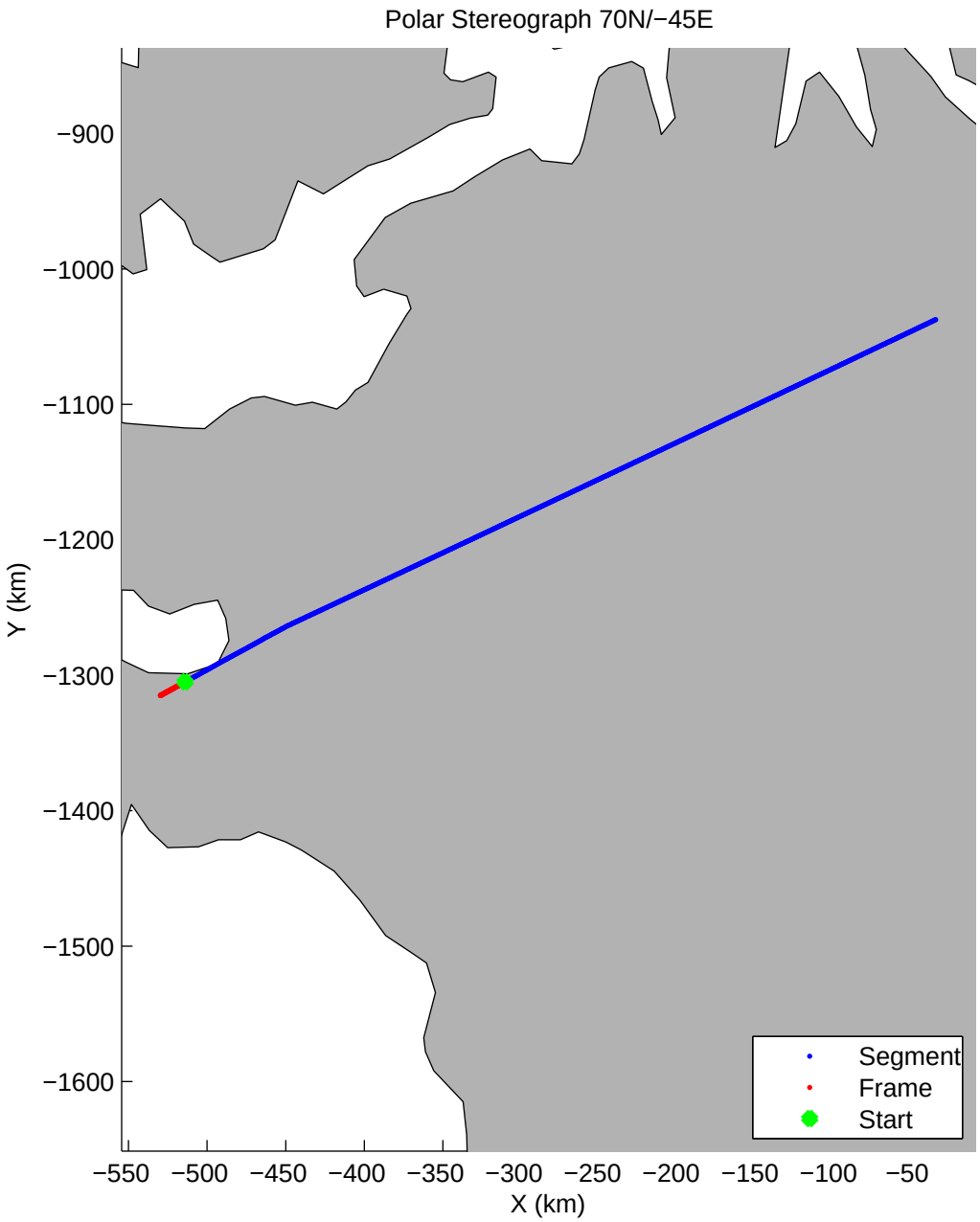

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)

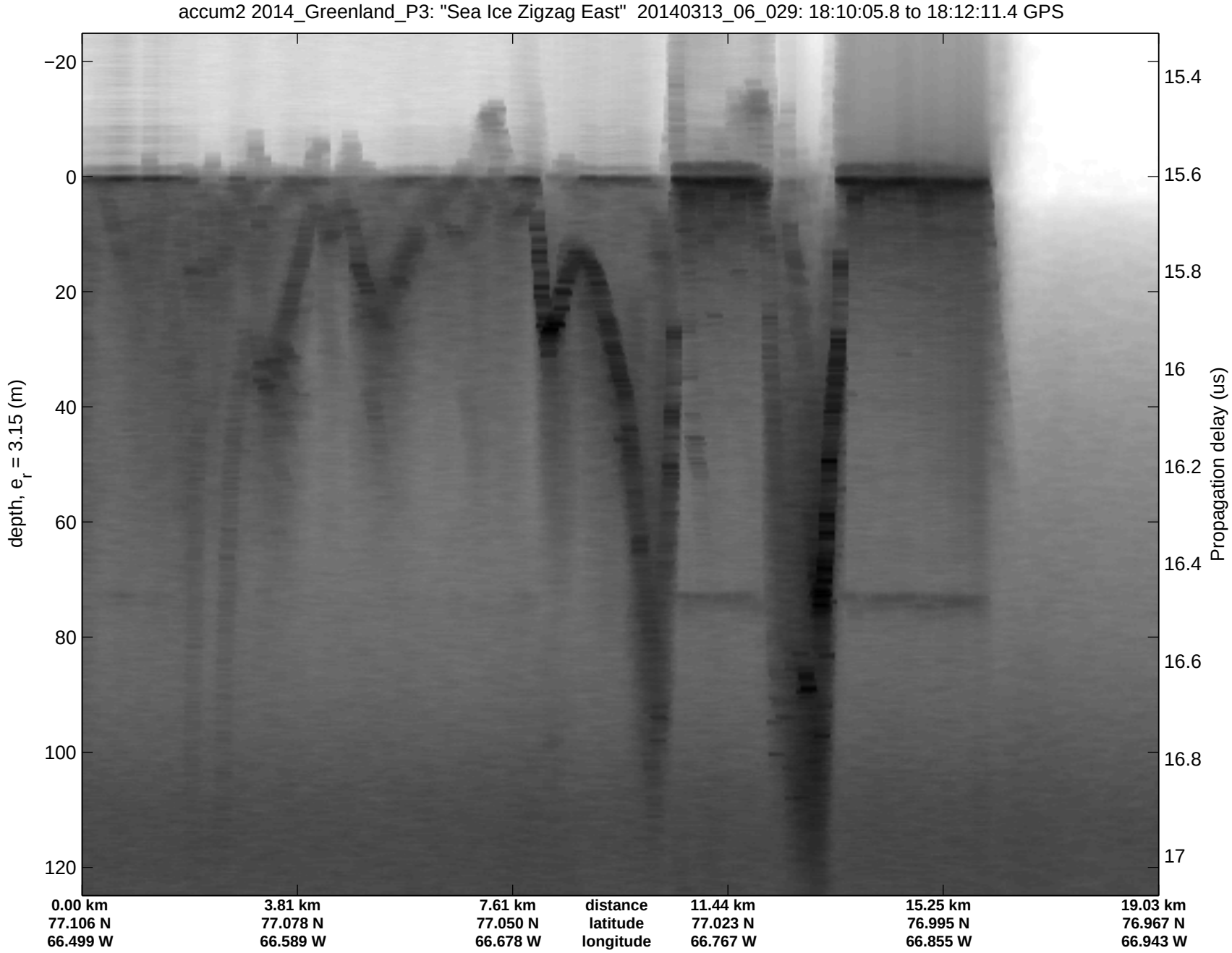

Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start

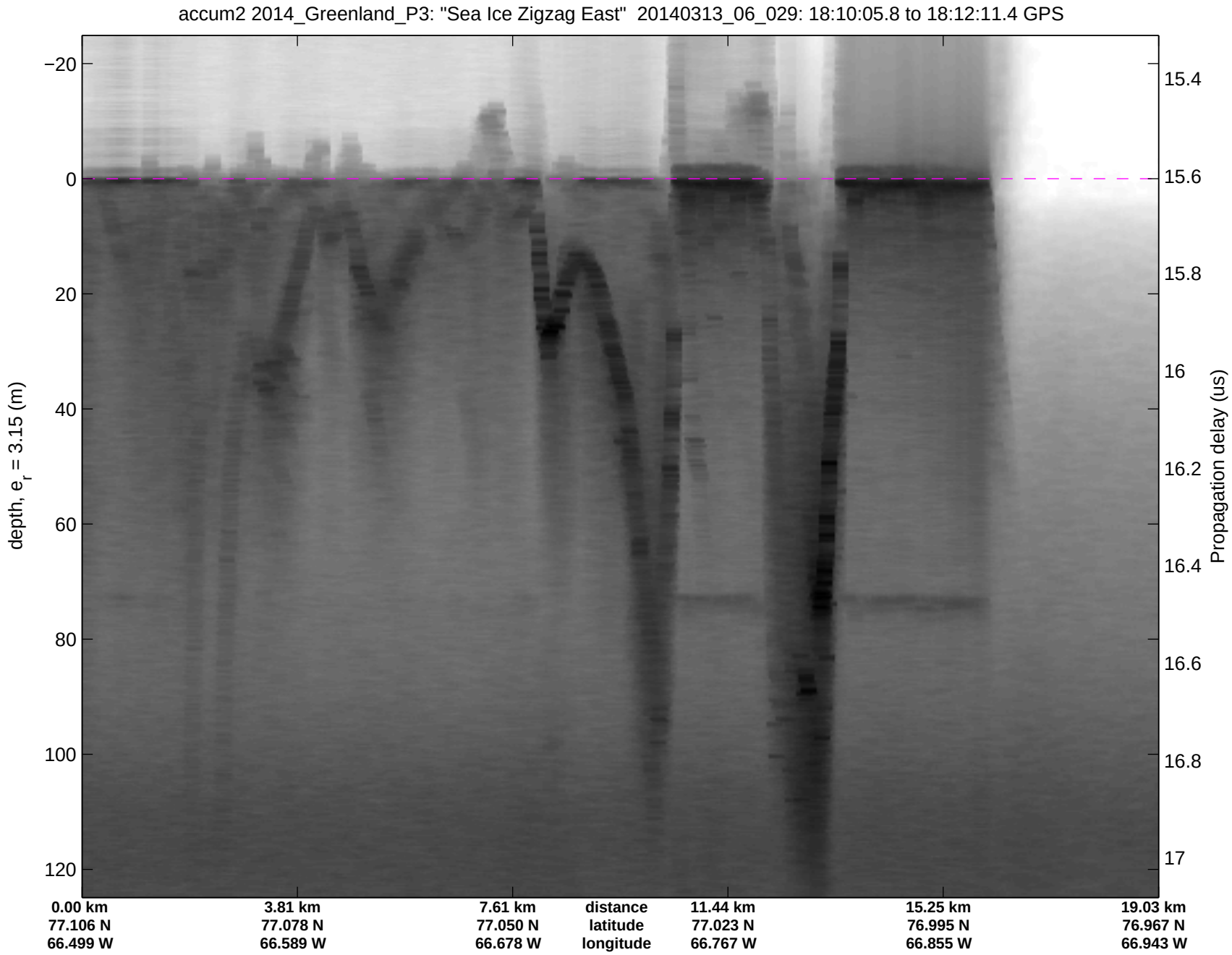

accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_028: 18:07:56.9 to 18:10:05.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.8
23
23.2
23.4
23.6
23.8
24
24.2
24.4
0.00 km
77.250 N
66.023 W
4.02 km
77.221 N
66.119 W
8.01 km
77.192 N
66.214 W
distance
latitude
longitude
11.97 km
77.164 N
66.309 W
15.96 km
77.135 N
66.404 W
19.95 km
77.106 N
66.498 W


accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_028: 18:07:56.9 to 18:10:05.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
22.8
23
23.2
23.4
23.6
23.8
24
24.2
24.4
0.00 km
77.250 N
66.023 W
4.02 km
77.221 N
66.119 W
8.01 km
77.192 N
66.214 W
distance
latitude
longitude
11.97 km
77.164 N
66.309 W
15.96 km
77.135 N
66.404 W
19.95 km
77.106 N
66.498 W


2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
X (km)


Polar Stereograph 70N/−45E
−900
−1000
−1100
−1200
−1300
−1400
−1500
−1600
Y (km)
−550
−500
−450
−400
−350
−300
−250
−200
−150
−100
−50
X (km)
Segment
Frame
Start


accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_029: 18:10:05.8 to 18:12:11.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
15.4
15.6
15.8
16
16.2
16.4
16.6
16.8
17
0.00 km
77.106 N
66.499 W
3.81 km
77.078 N
66.589 W
7.61 km
77.050 N
66.678 W
distance
latitude
longitude
11.44 km
77.023 N
66.767 W
15.25 km
76.995 N
66.855 W
19.03 km
76.967 N
66.943 W


accum2 2014_Greenland_P3: "Sea Ice Zigzag East" 20140313_06_029: 18:10:05.8 to 18:12:11.4 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
Propagation delay (us)
15.4
15.6
15.8
16
16.2
16.4
16.6
16.8
17
0.00 km
77.106 N
66.499 W
3.81 km
77.078 N
66.589 W
7.61 km
77.050 N
66.678 W
distance
latitude
longitude
11.44 km
77.023 N
66.767 W
15.25 km
76.995 N
66.855 W
19.03 km
76.967 N
66.943 W