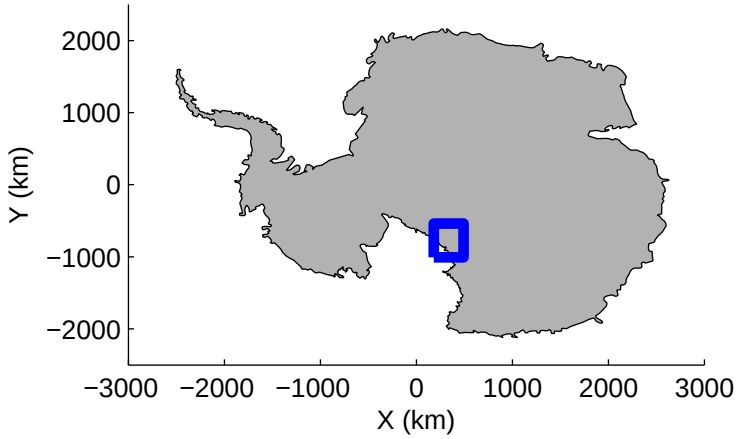
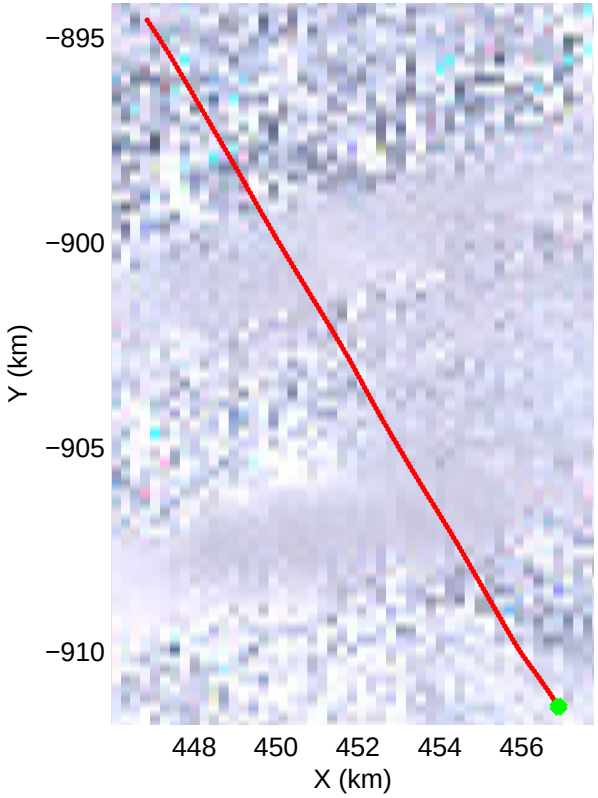
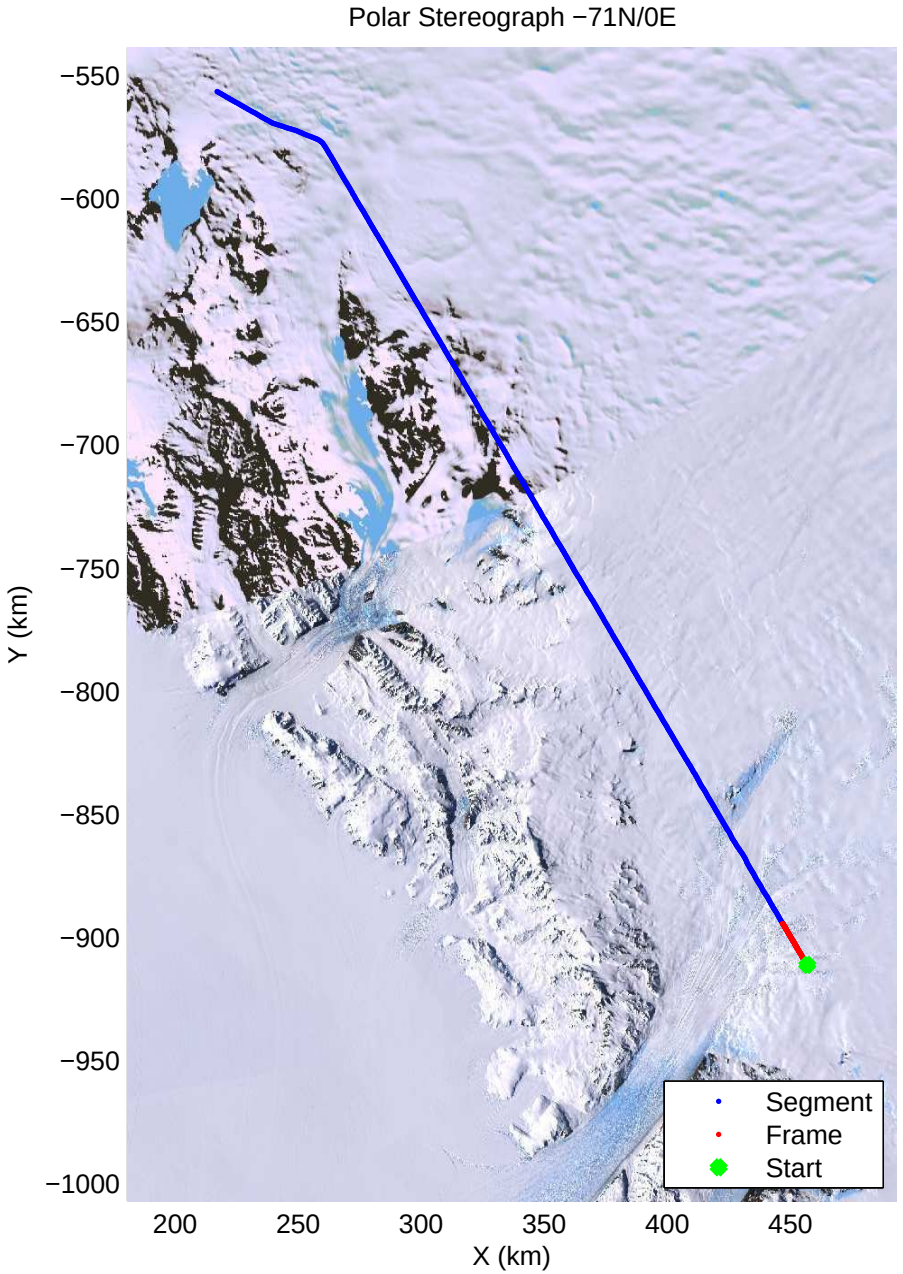
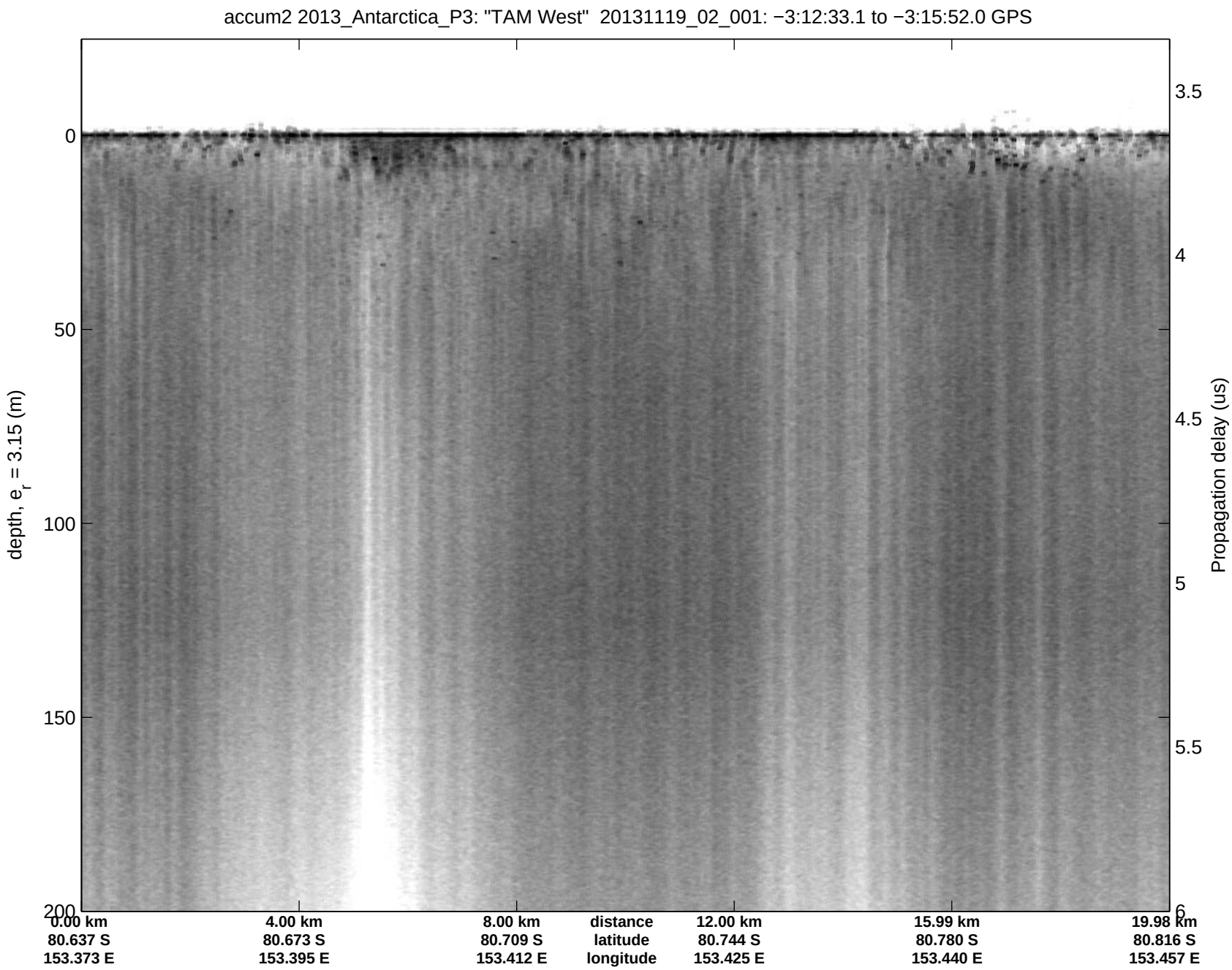
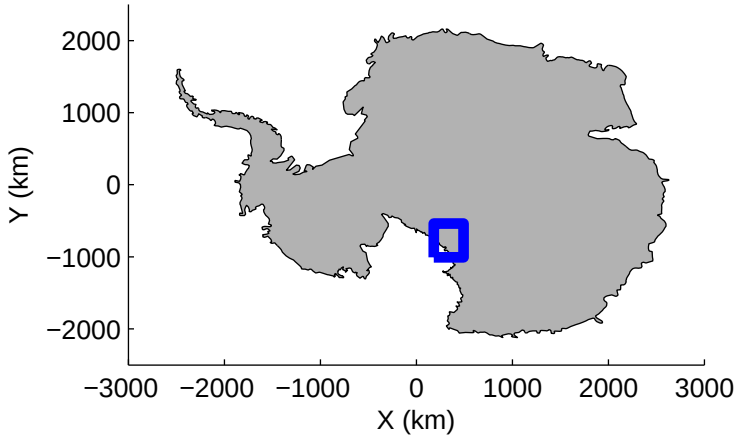
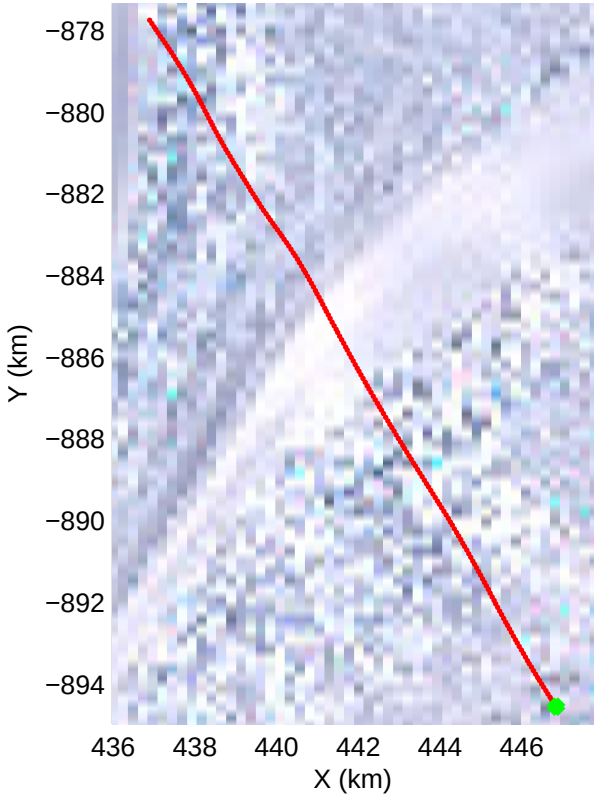

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

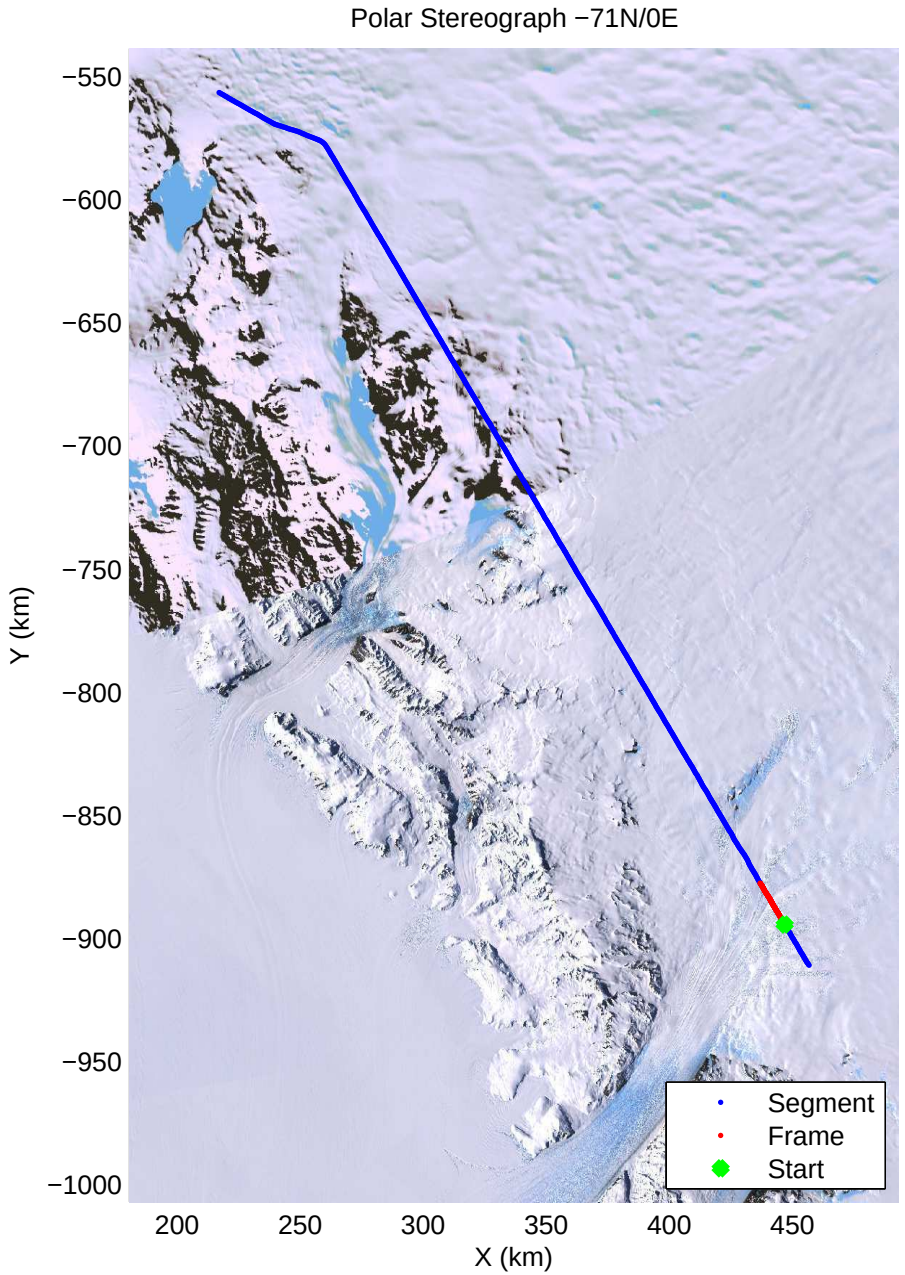

−895
−900
−905
−910
Y (km)
448
450
452
454
456
X (km)

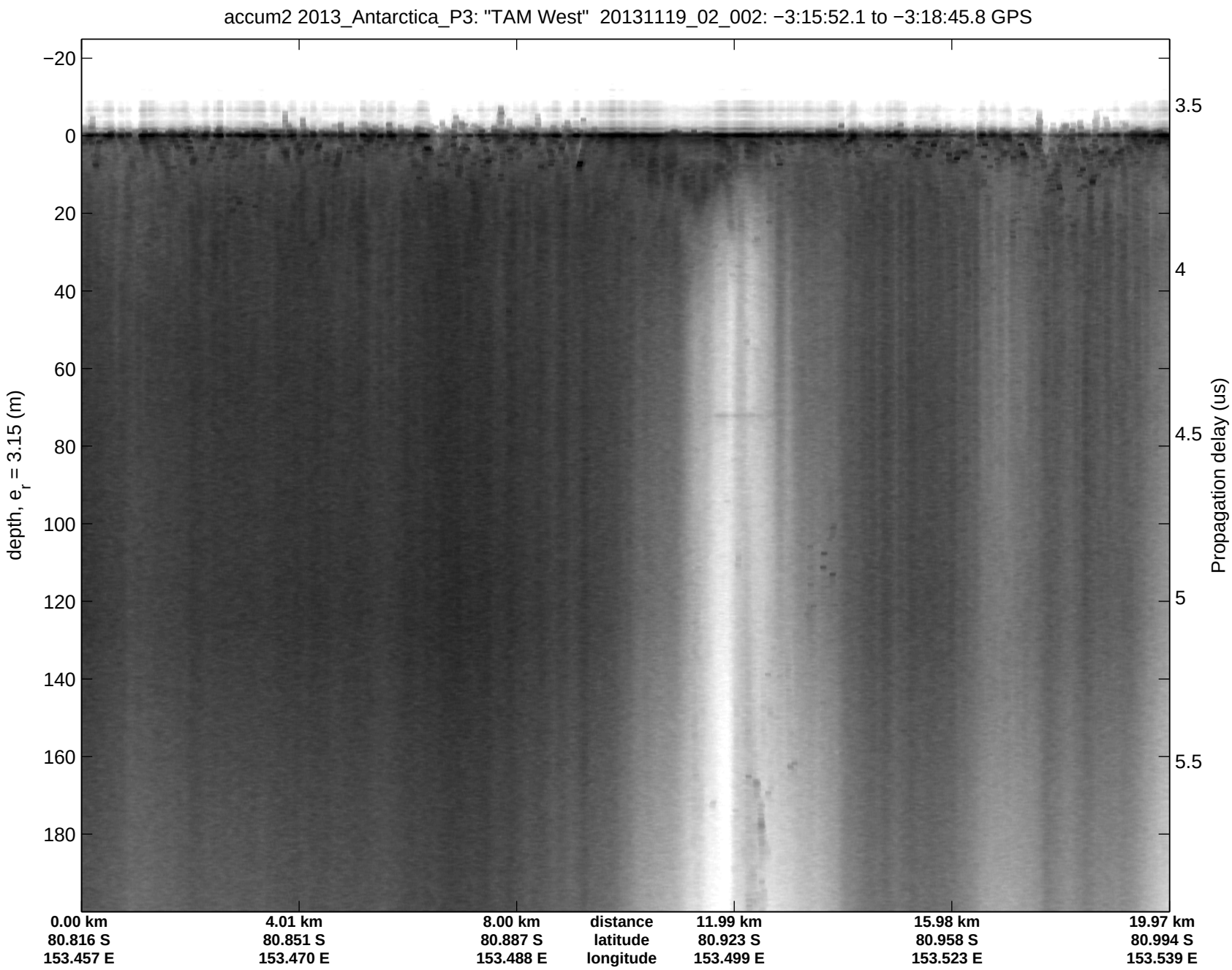

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

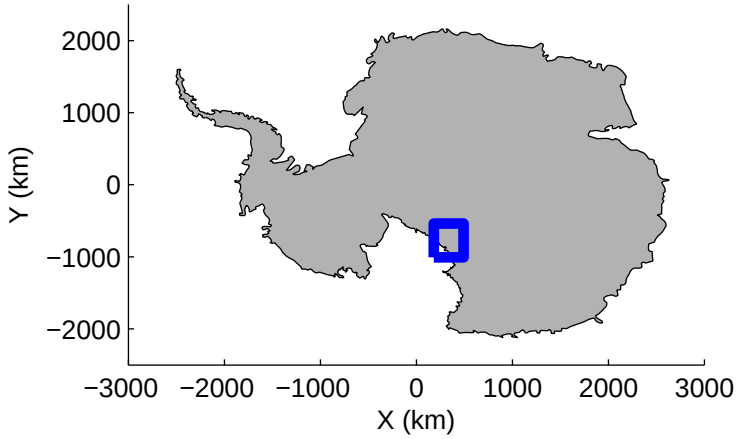

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_001: −3:12:33.1 to −3:15:52.0 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
3.5
4
4.5
5
5.5
6
Propagation delay (us)
0.00 km
80.637 S
153.373 E
4.00 km
80.673 S
153.395 E
8.00 km
80.709 S
153.412 E
distance
latitude
longitude
12.00 km
80.744 S
153.425 E
15.99 km
80.780 S
153.440 E
19.98 km
80.816 S
153.457 E

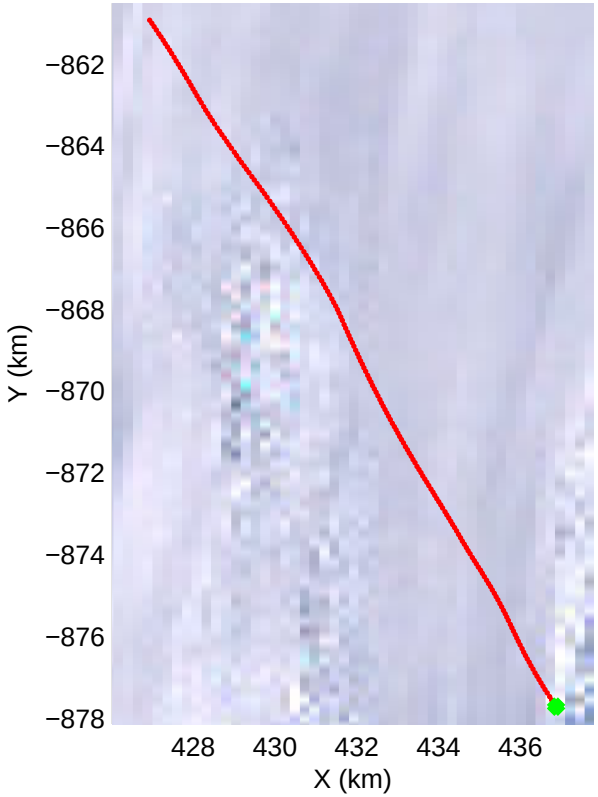

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

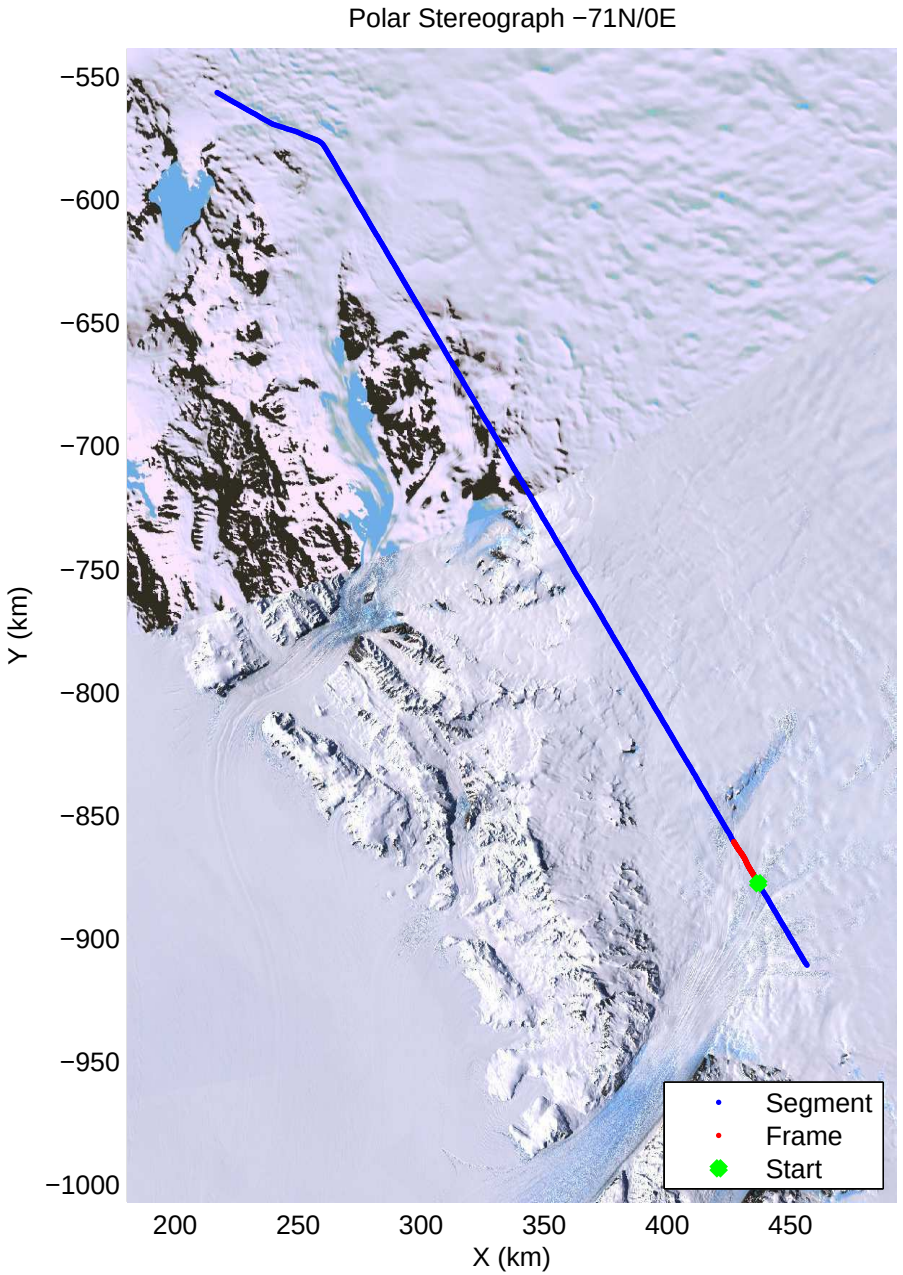

−878
−880
−882
−884
−886
−888
−890
−892
−894
Y (km)
436
438
440
442
444
446
X (km)

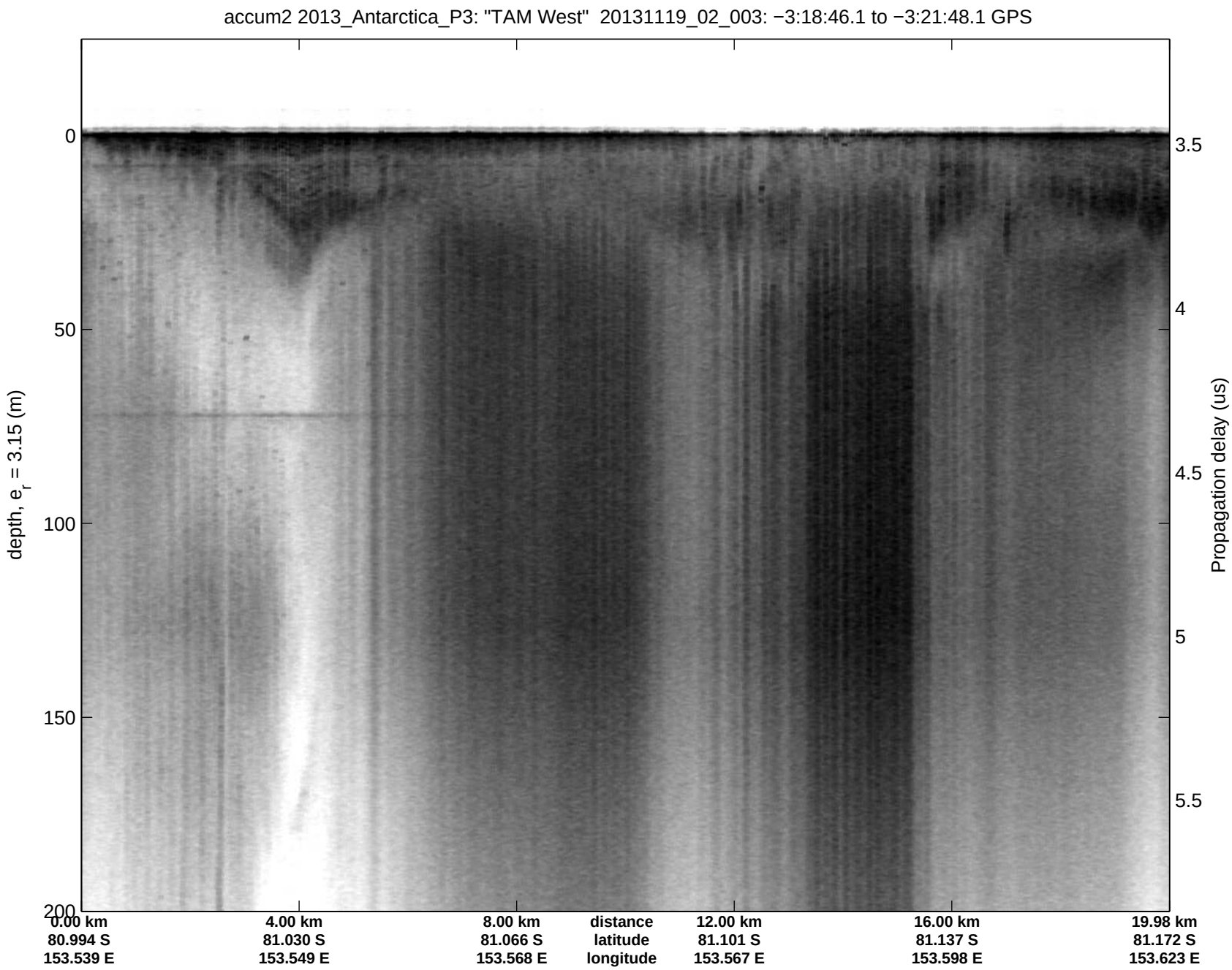

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

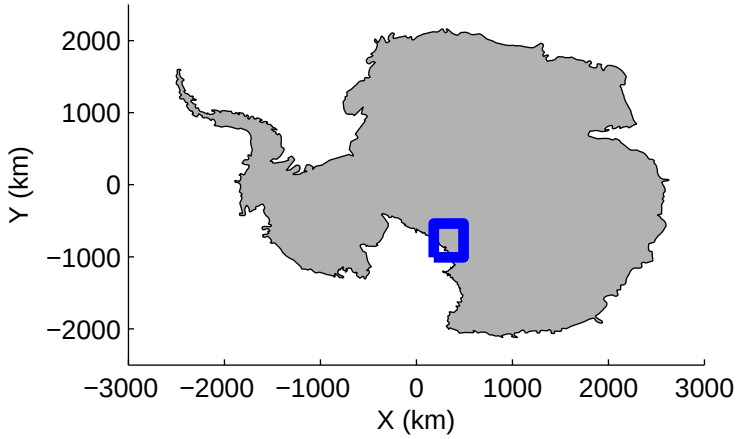

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_002: −3:15:52.1 to −3:18:45.8 GPS
−20
0
20
40
60
80
100
120
140
160
180
depth, e_r = 3.15 (m)
3.5
4
4.5
5
5.5
Propagation delay (us)
0.00 km
80.816 S
153.457 E
4.01 km
80.851 S
153.470 E
8.00 km
80.887 S
153.488 E
distance
latitude
longitude
11.99 km
80.923 S
153.499 E
15.98 km
80.958 S
153.523 E
19.97 km
80.994 S
153.539 E

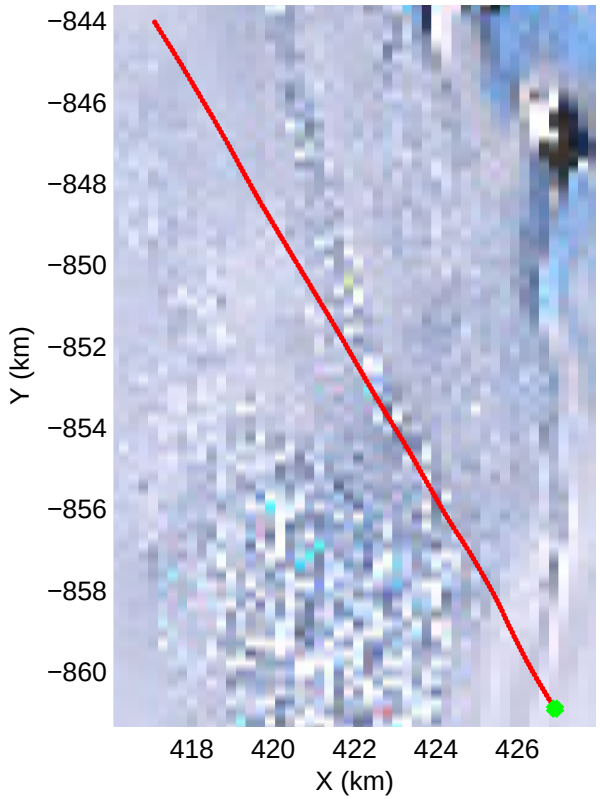

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

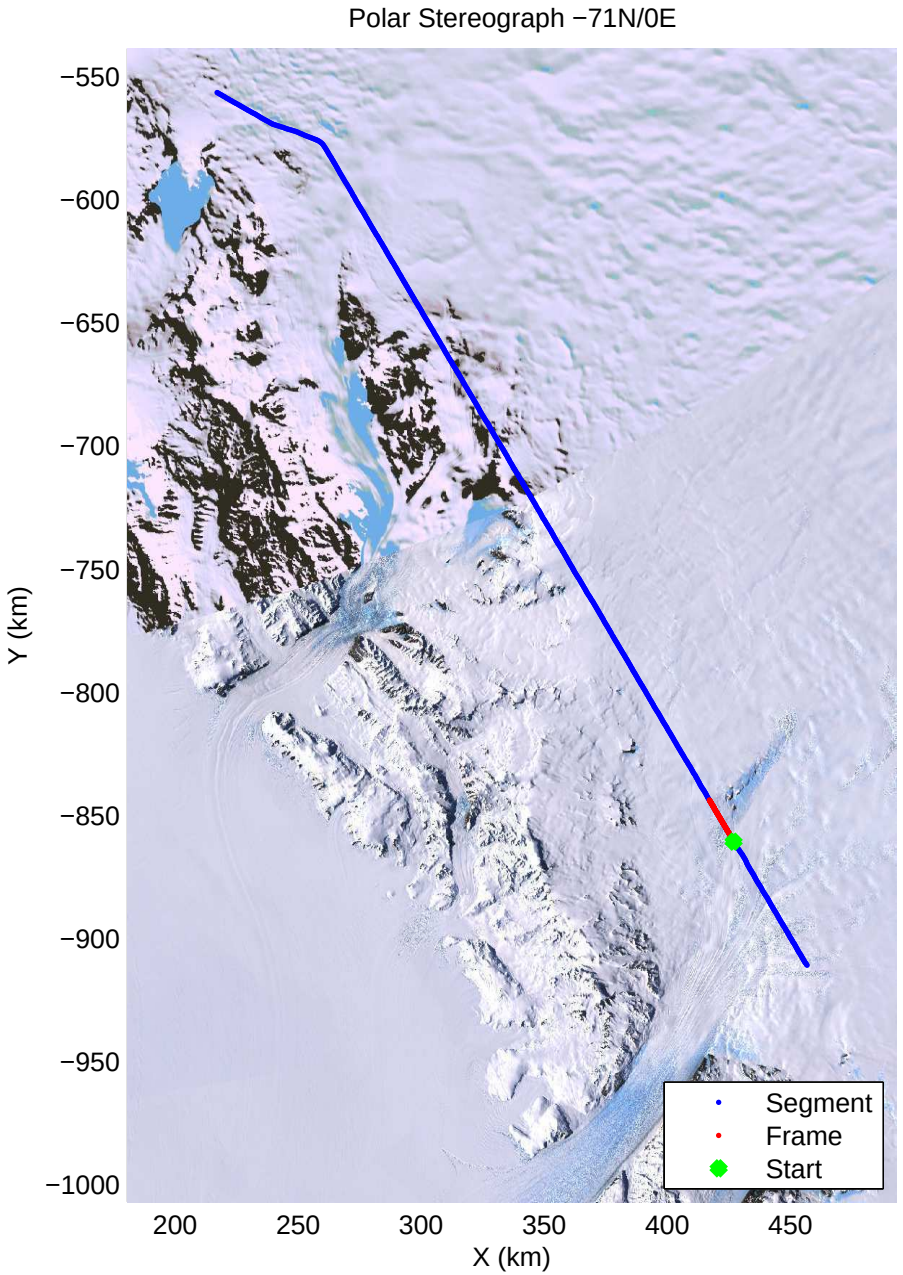

−862
−864
−866
−868
−870
−872
−874
−876
−878
Y (km)
428
430
432
434
436
X (km)

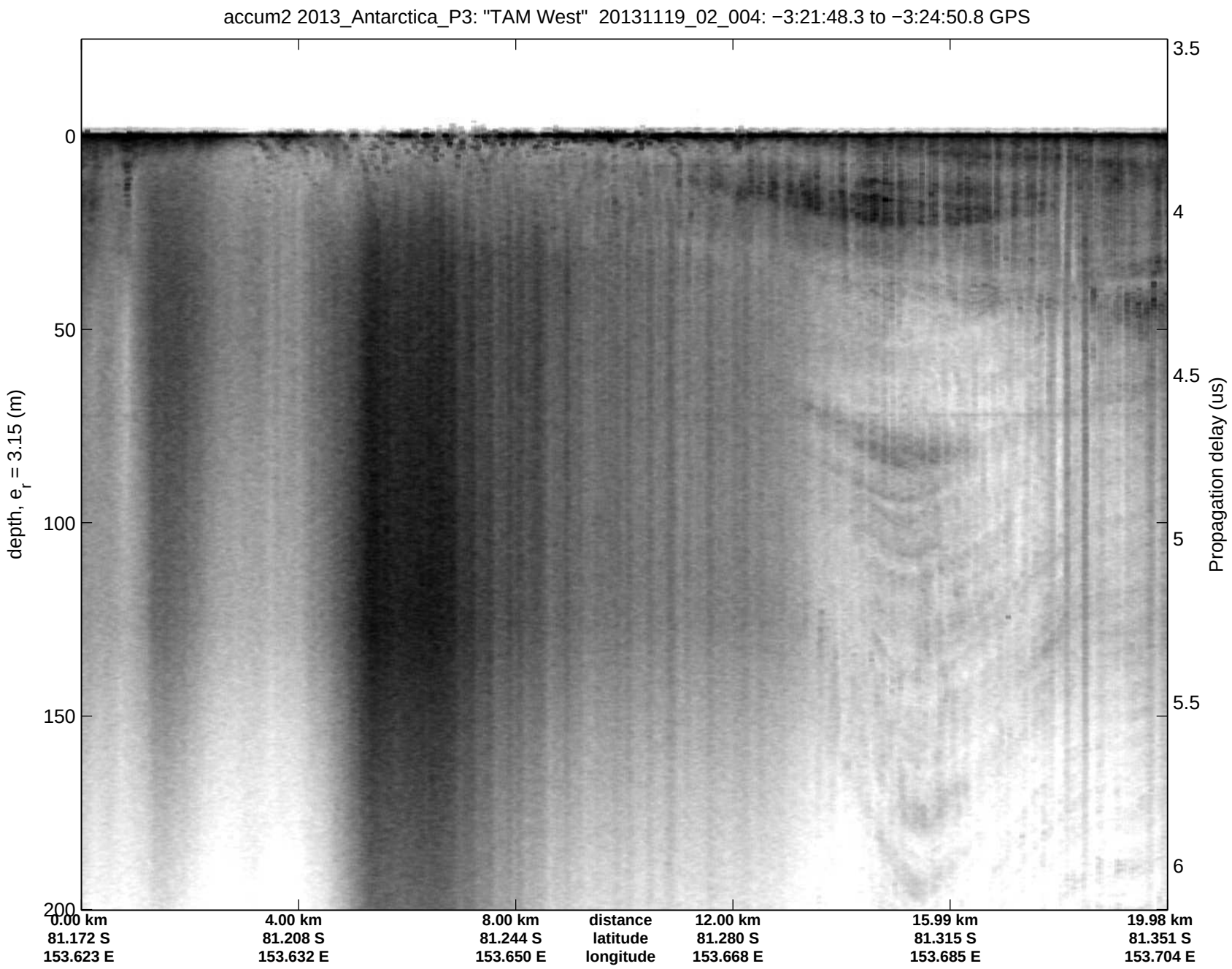

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

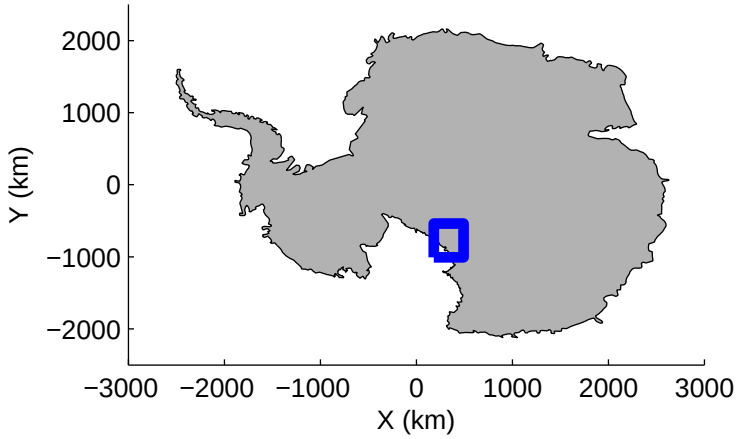

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_003: −3:18:46.1 to −3:21:48.1 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
Propagation delay (us)
3.5
4
4.5
5
5.5
0.00 km
80.994 S
153.539 E
4.00 km
81.030 S
153.549 E
8.00 km
81.066 S
153.568 E
distance
latitude
longitude
12.00 km
81.101 S
153.567 E
16.00 km
81.137 S
153.598 E
19.98 km
81.172 S
153.623 E

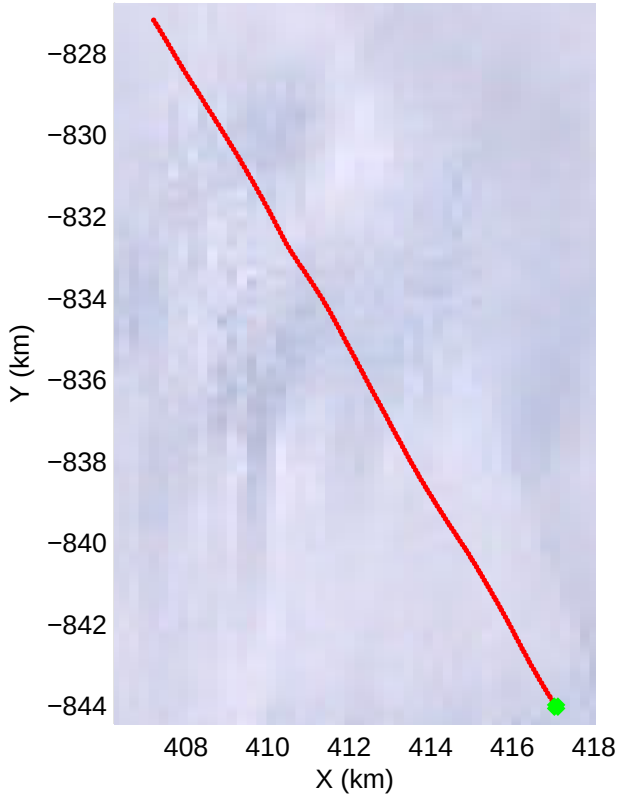

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

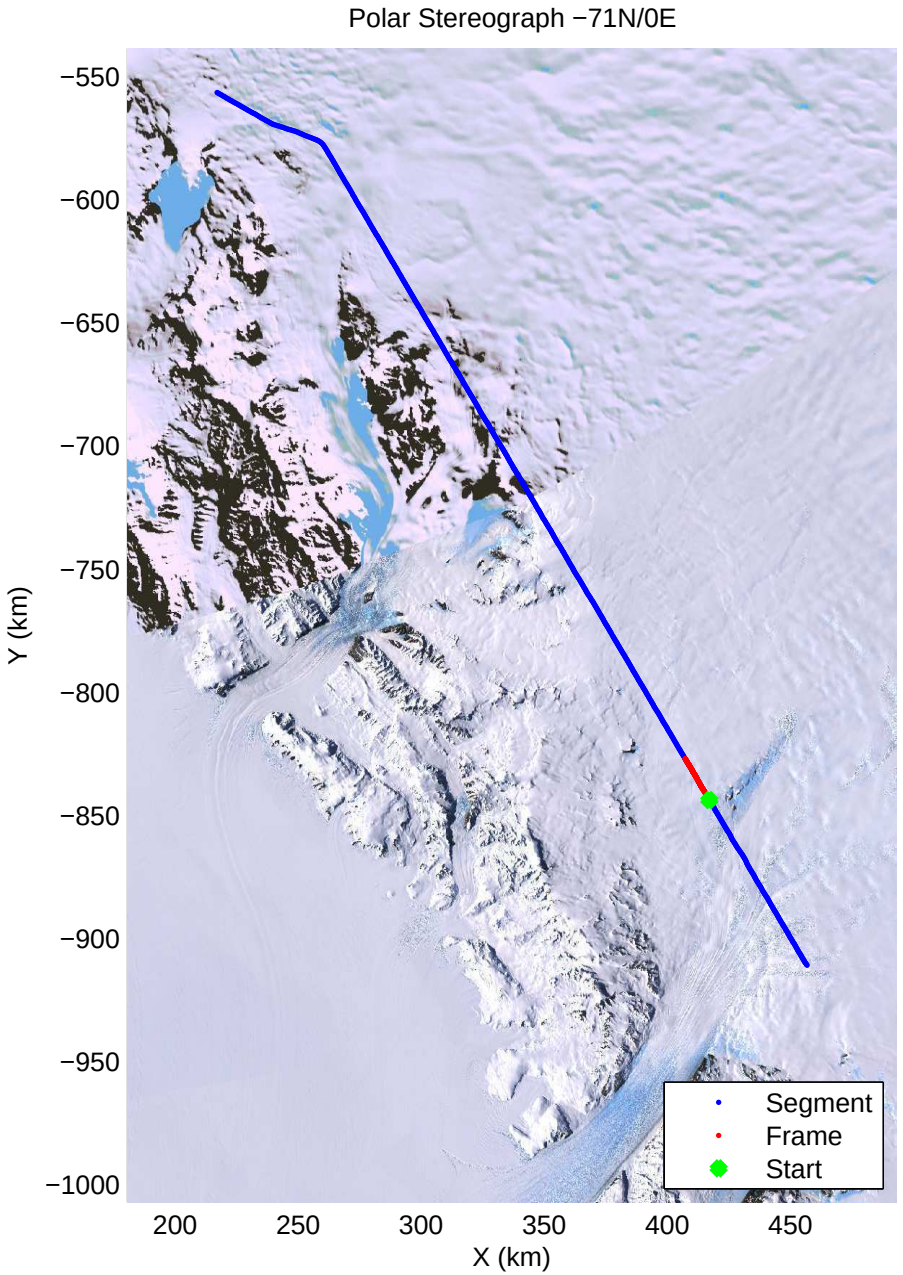

−844
−846
−848
−850
−852
−854
−856
−858
−860
Y (km)
418
420
422
424
426
X (km)

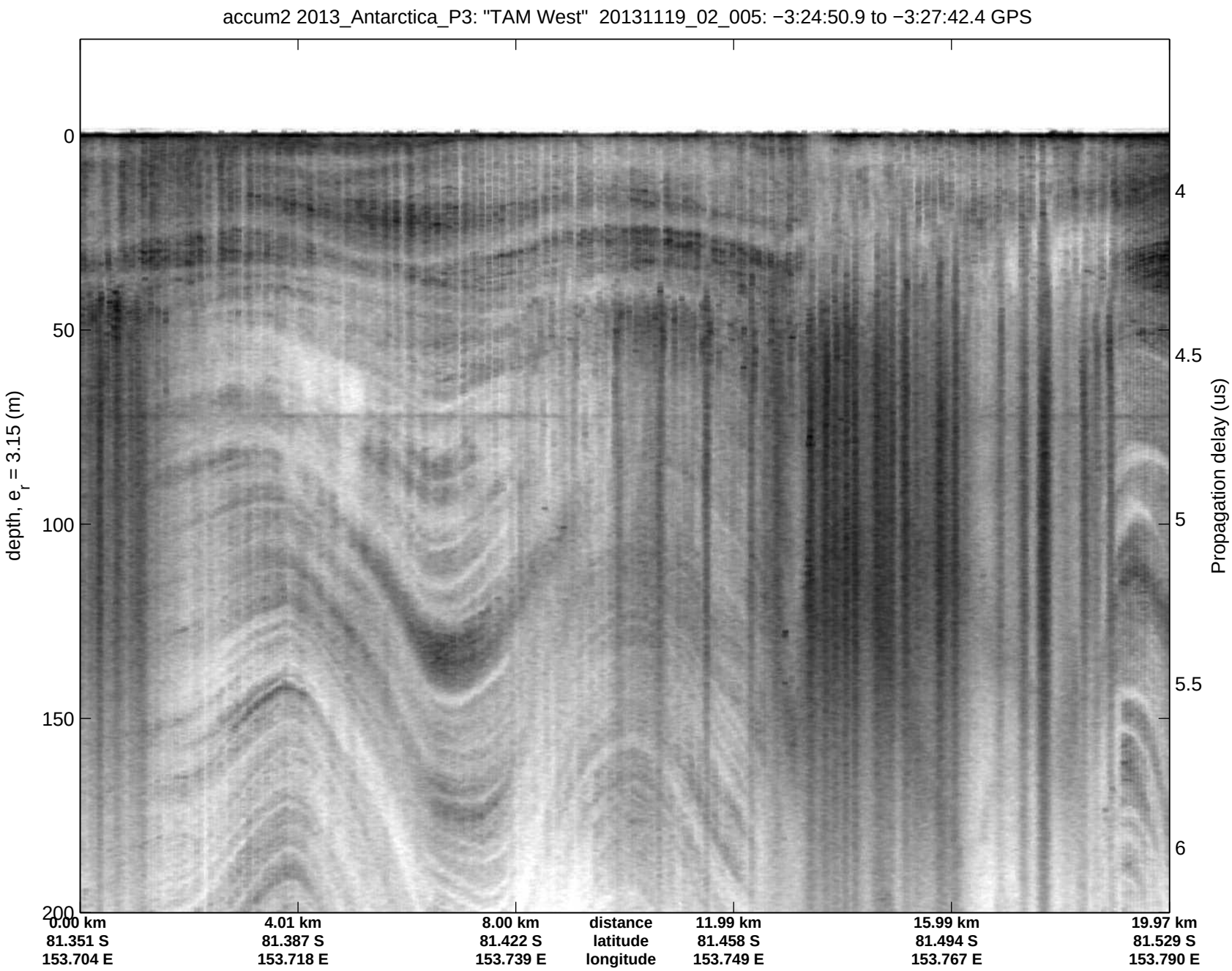

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

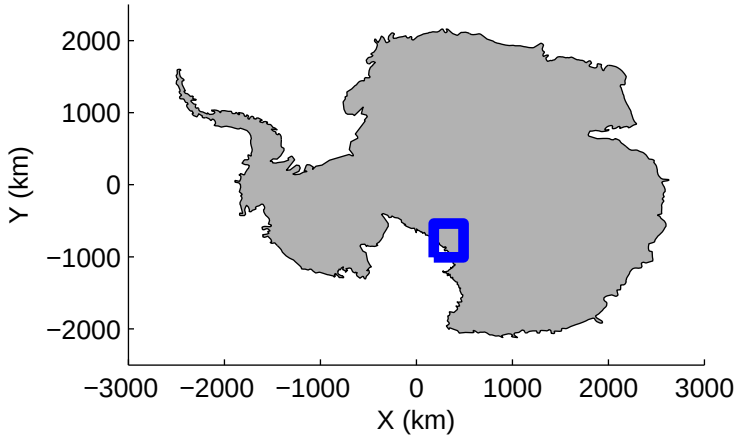

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_004: −3:21:48.3 to −3:24:50.8 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
3.5
4
4.5
5
5.5
6
Propagation delay (us)
0.00 km
81.172 S
153.623 E
4.00 km
81.208 S
153.632 E
8.00 km
81.244 S
153.650 E
distance
latitude
longitude
12.00 km
81.280 S
153.668 E
15.99 km
81.315 S
153.685 E
19.98 km
81.351 S
153.704 E

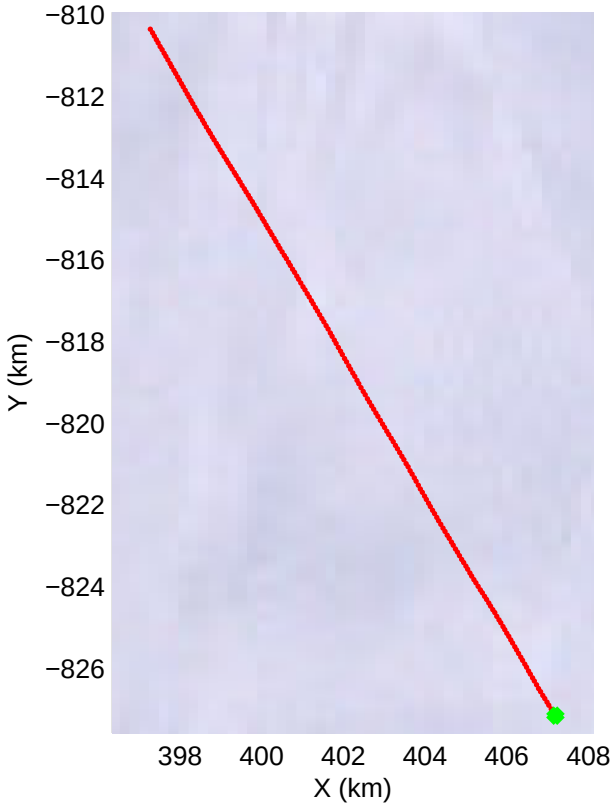

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

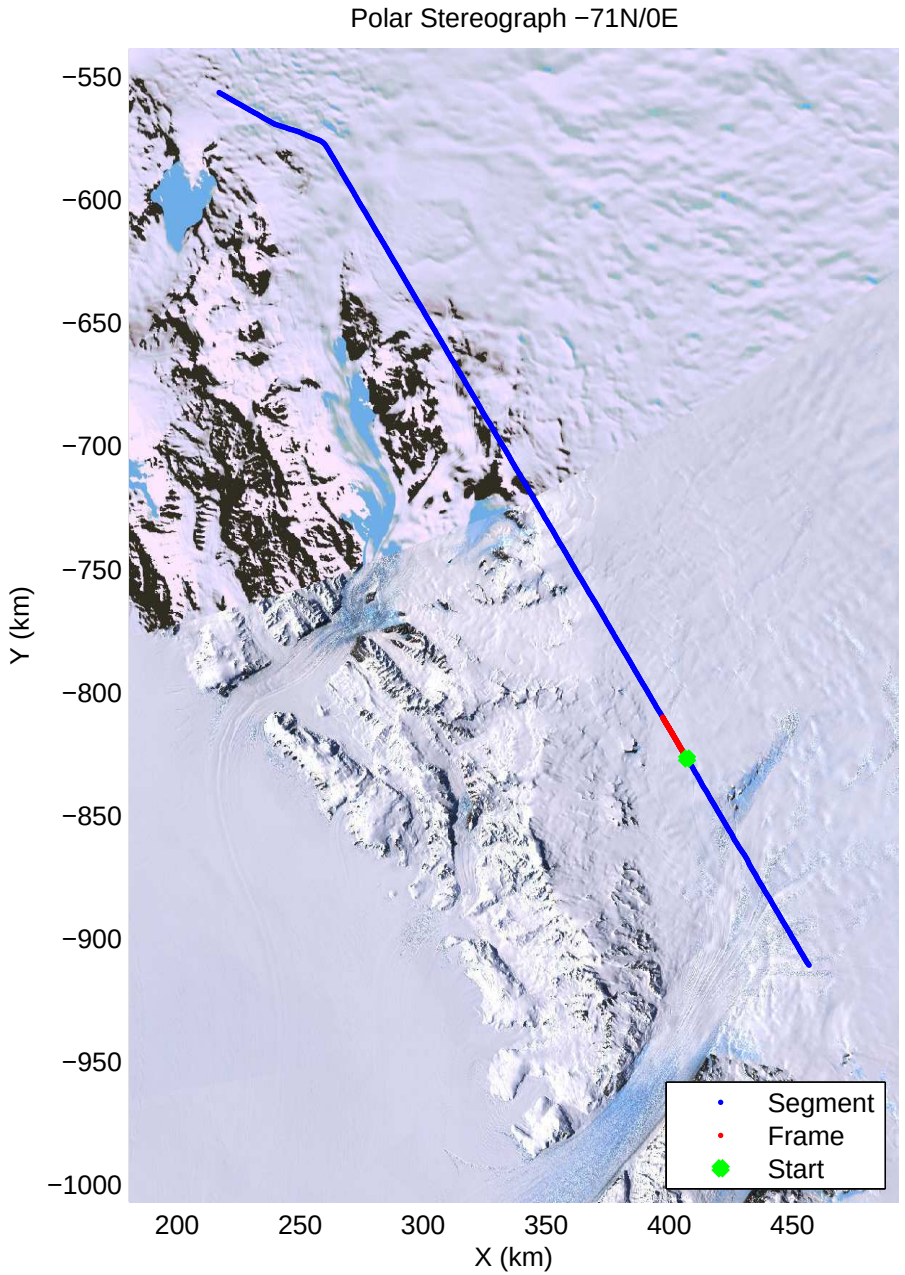

−828
−830
−832
−834
−836
−838
−840
−842
−844
Y (km)
408
410
412
414
416
418
X (km)

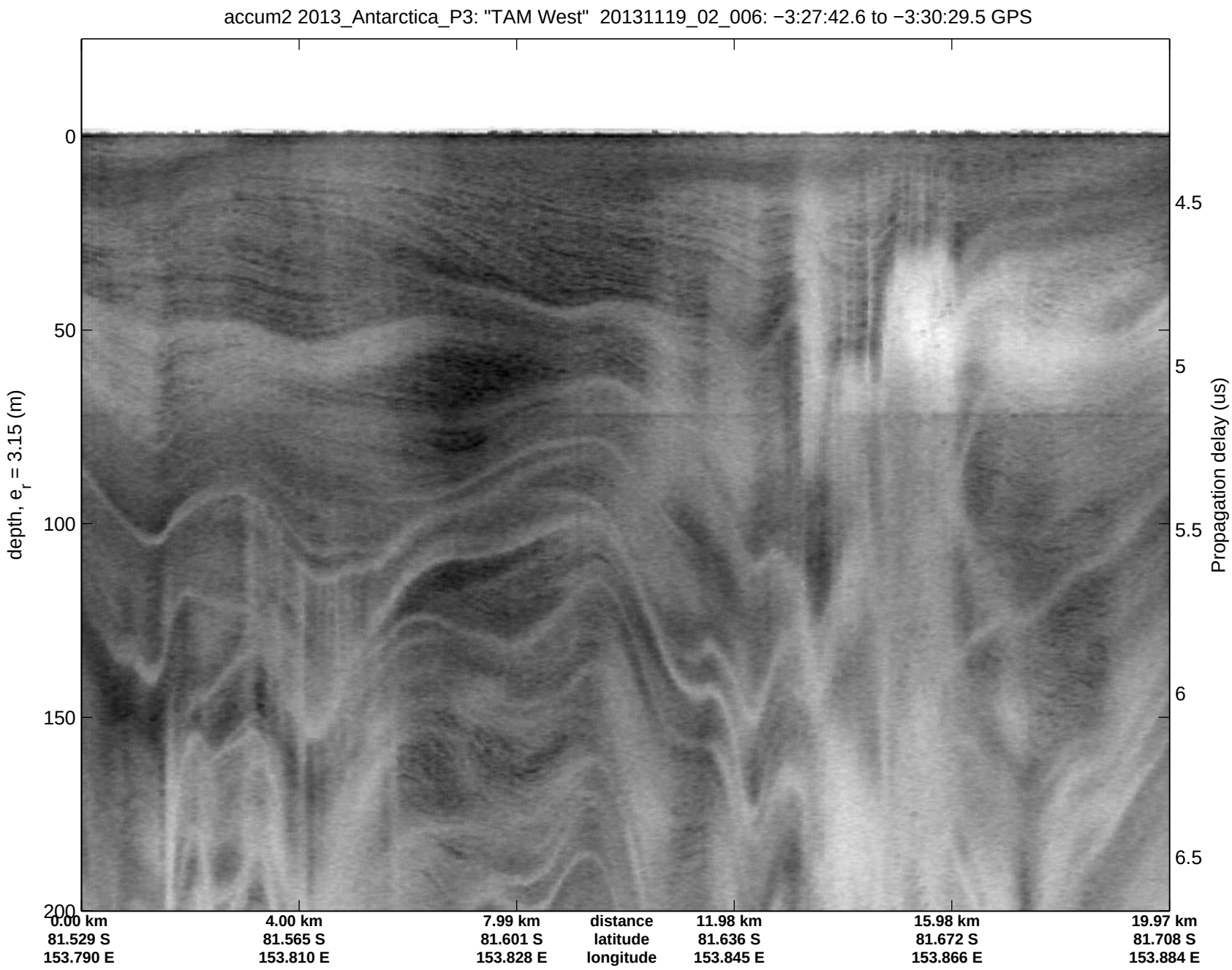

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

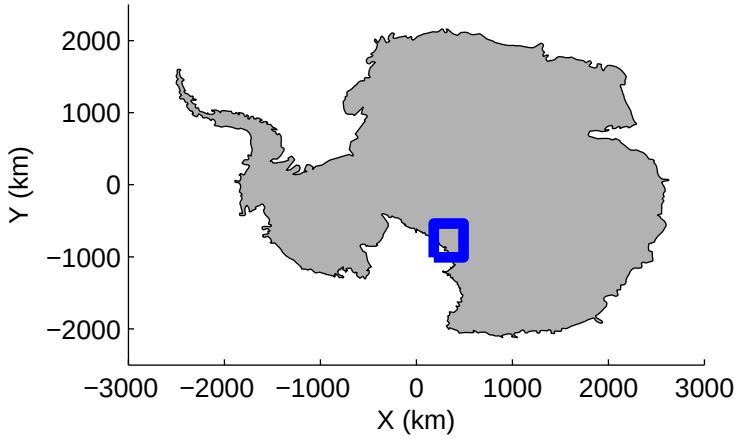

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_005: −3:24:50.9 to −3:27:42.4 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
Propagation delay (us)
4
4.5
5
5.5
6
0.00 km
81.351 S
153.704 E
4.01 km
81.387 S
153.718 E
8.00 km
81.422 S
153.739 E
distance
latitude
longitude
11.99 km
81.458 S
153.749 E
15.99 km
81.494 S
153.767 E
19.97 km
81.529 S
153.790 E

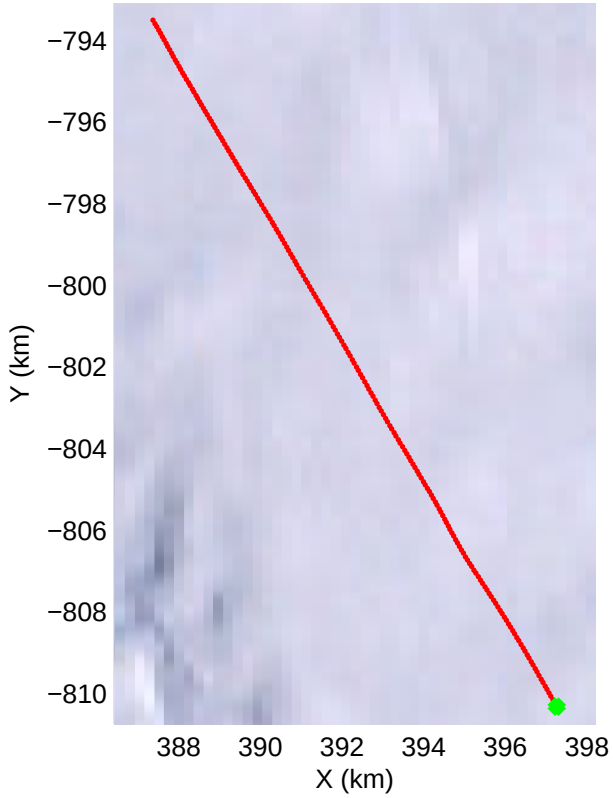

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

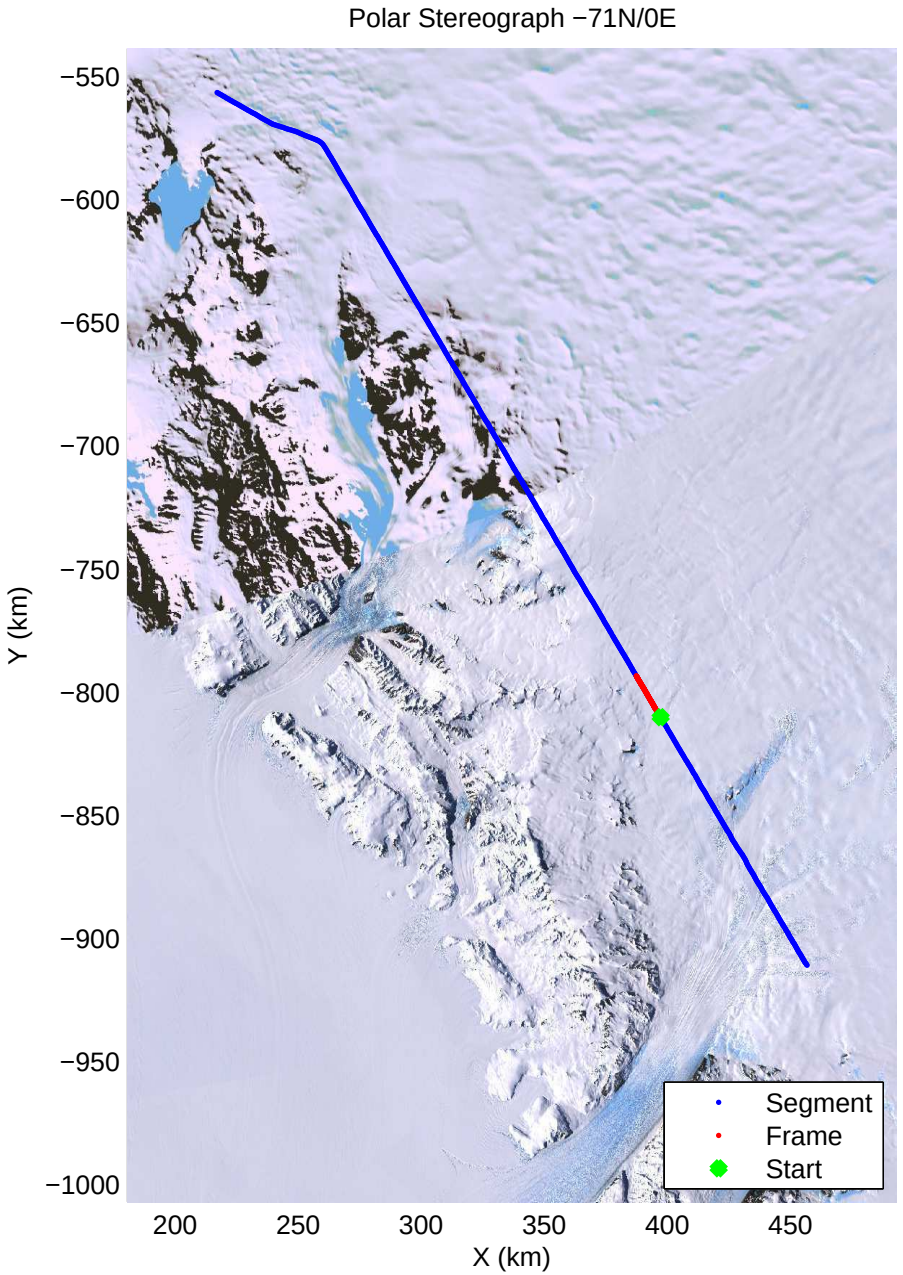

−810
−812
−814
−816
−818
−820
−822
−824
−826
Y (km)
398
400
402
404
406
408
X (km)

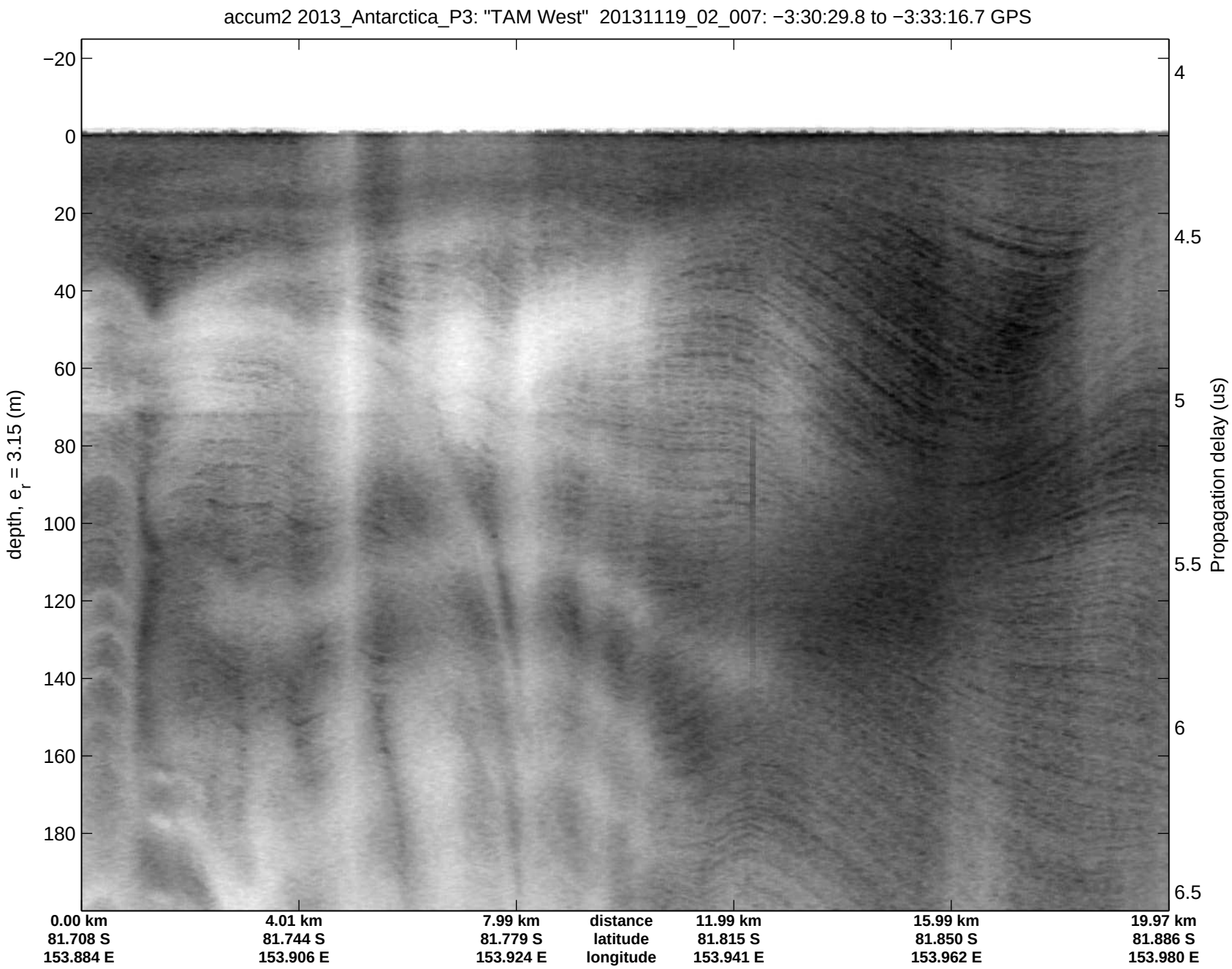

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

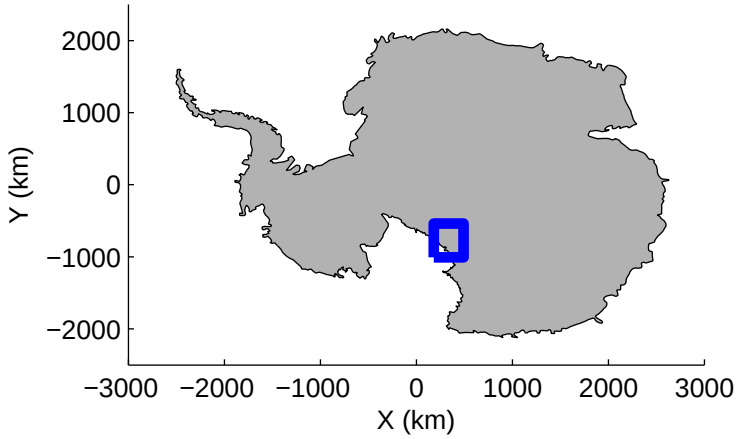

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_006: −3:27:42.6 to −3:30:29.5 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
Propagation delay (us)
4.5
5
5.5
6
6.5
0.00 km
81.529 S
153.790 E
4.00 km
81.565 S
153.810 E
7.99 km
81.601 S
153.828 E
distance
latitude
longitude
11.98 km
81.636 S
153.845 E
15.98 km
81.672 S
153.866 E
19.97 km
81.708 S
153.884 E

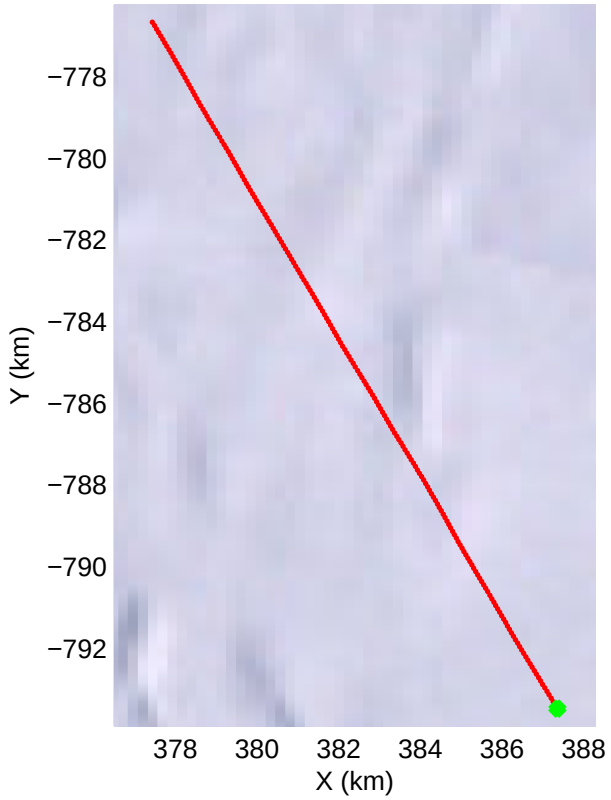

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

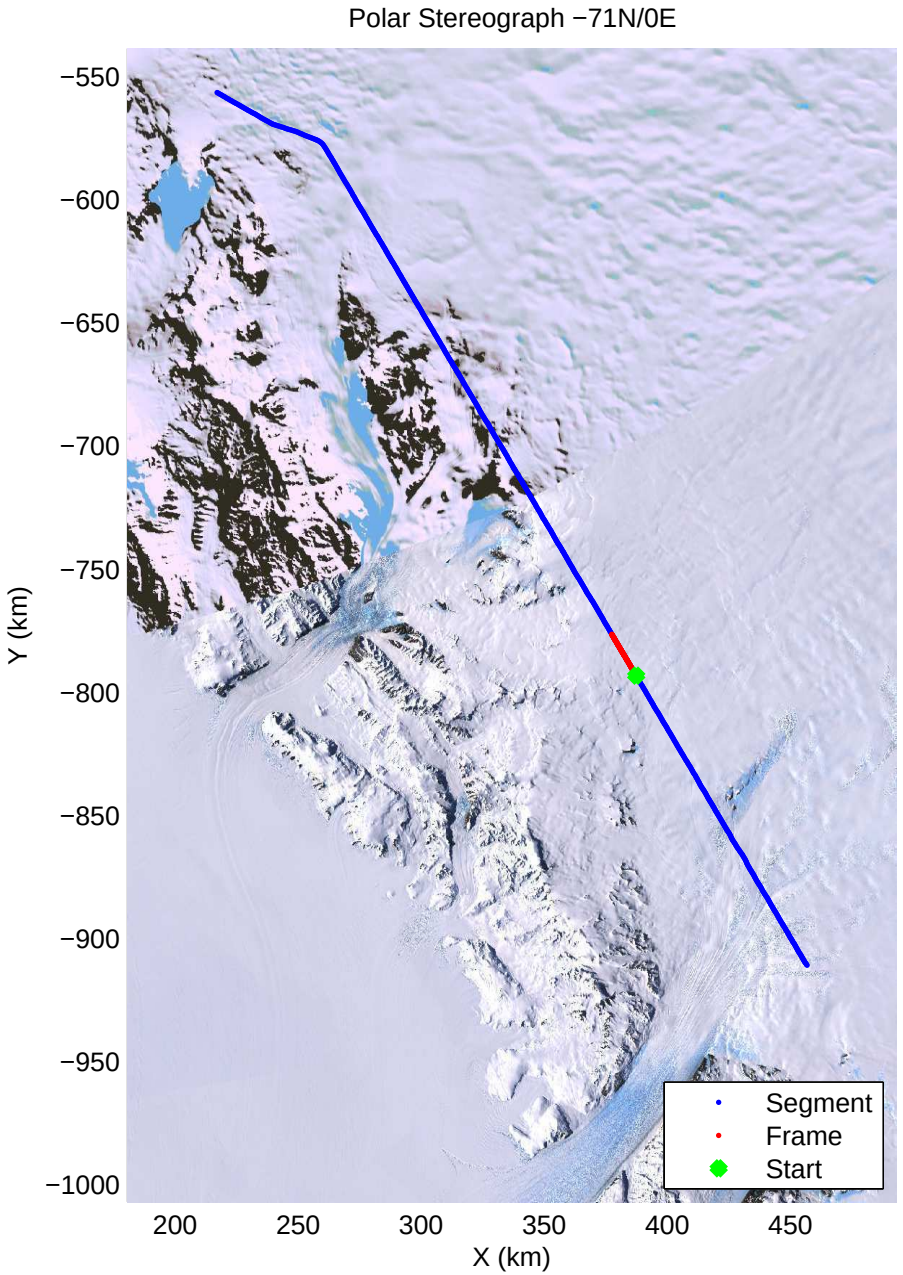

−794
−796
−798
−800
−802
−804
−806
−808
−810
Y (km)
388
390
392
394
396
398
X (km)

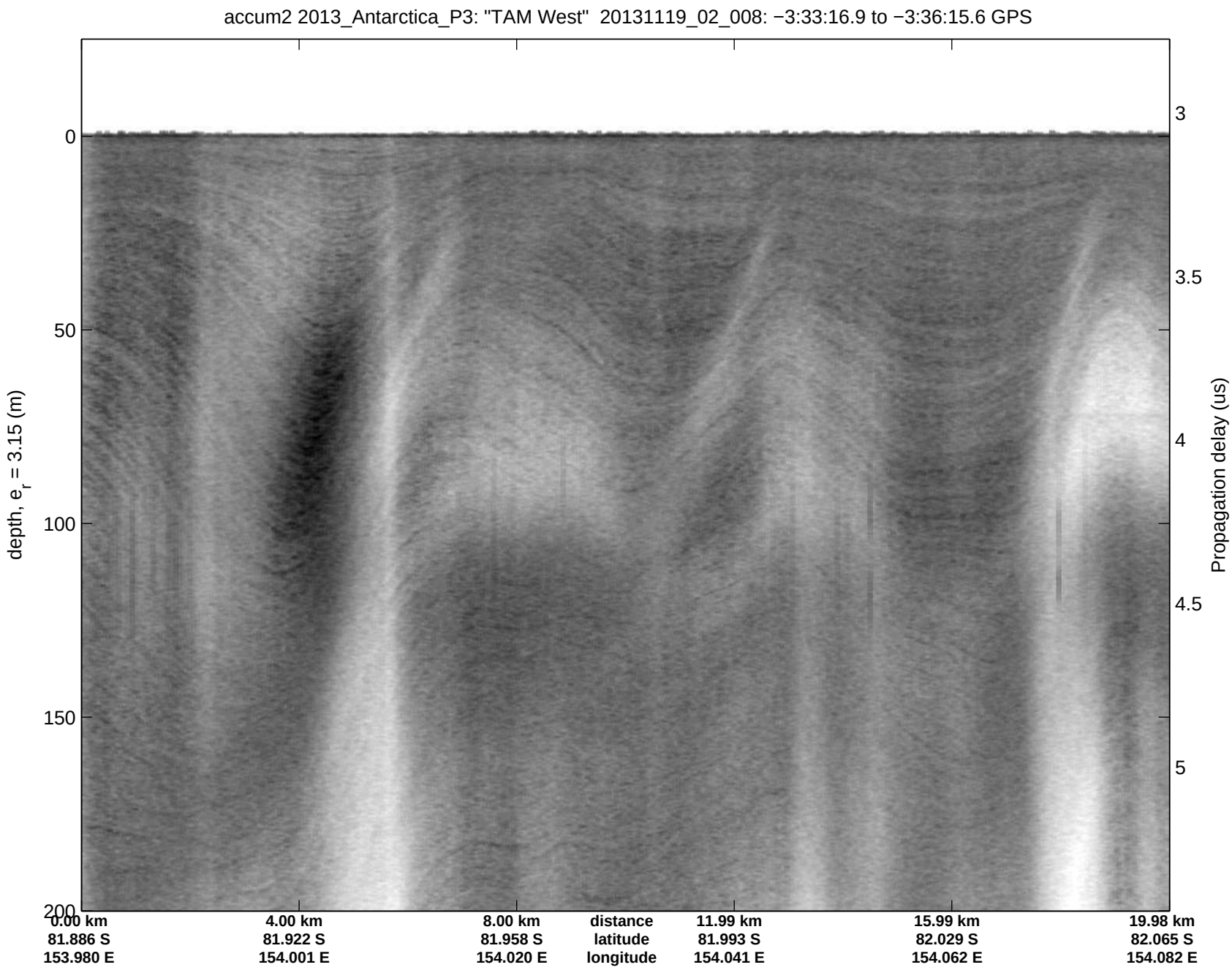

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

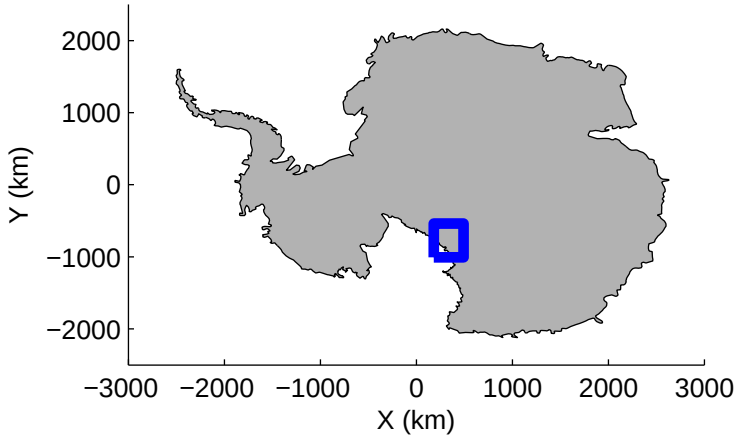

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_007: −3:30:29.8 to −3:33:16.7 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
140
160
180
Propagation delay (us)
4
4.5
5
5.5
6
6.5
0.00 km
81.708 S
153.884 E
4.01 km
81.744 S
153.906 E
7.99 km
81.779 S
153.924 E
distance
latitude
longitude
11.99 km
81.815 S
153.941 E
15.99 km
81.850 S
153.962 E
19.97 km
81.886 S
153.980 E

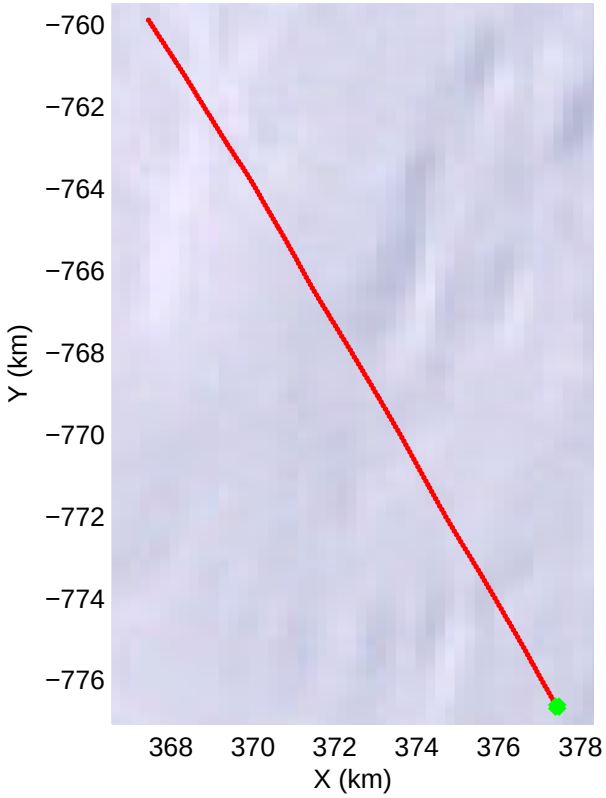

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

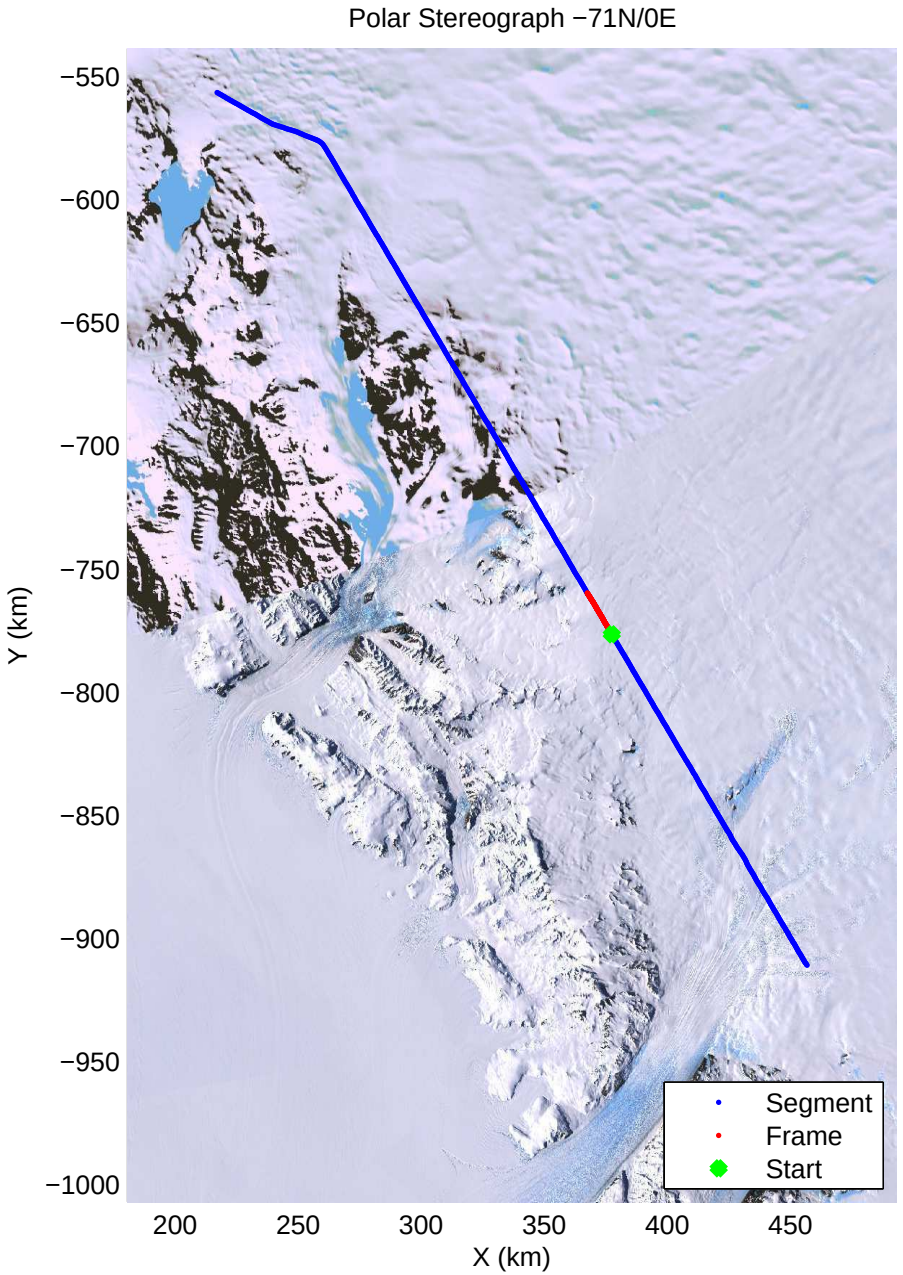

−778
−780
−782
−784
−786
−788
−790
−792
Y (km)
378
380
382
384
386
388
X (km)

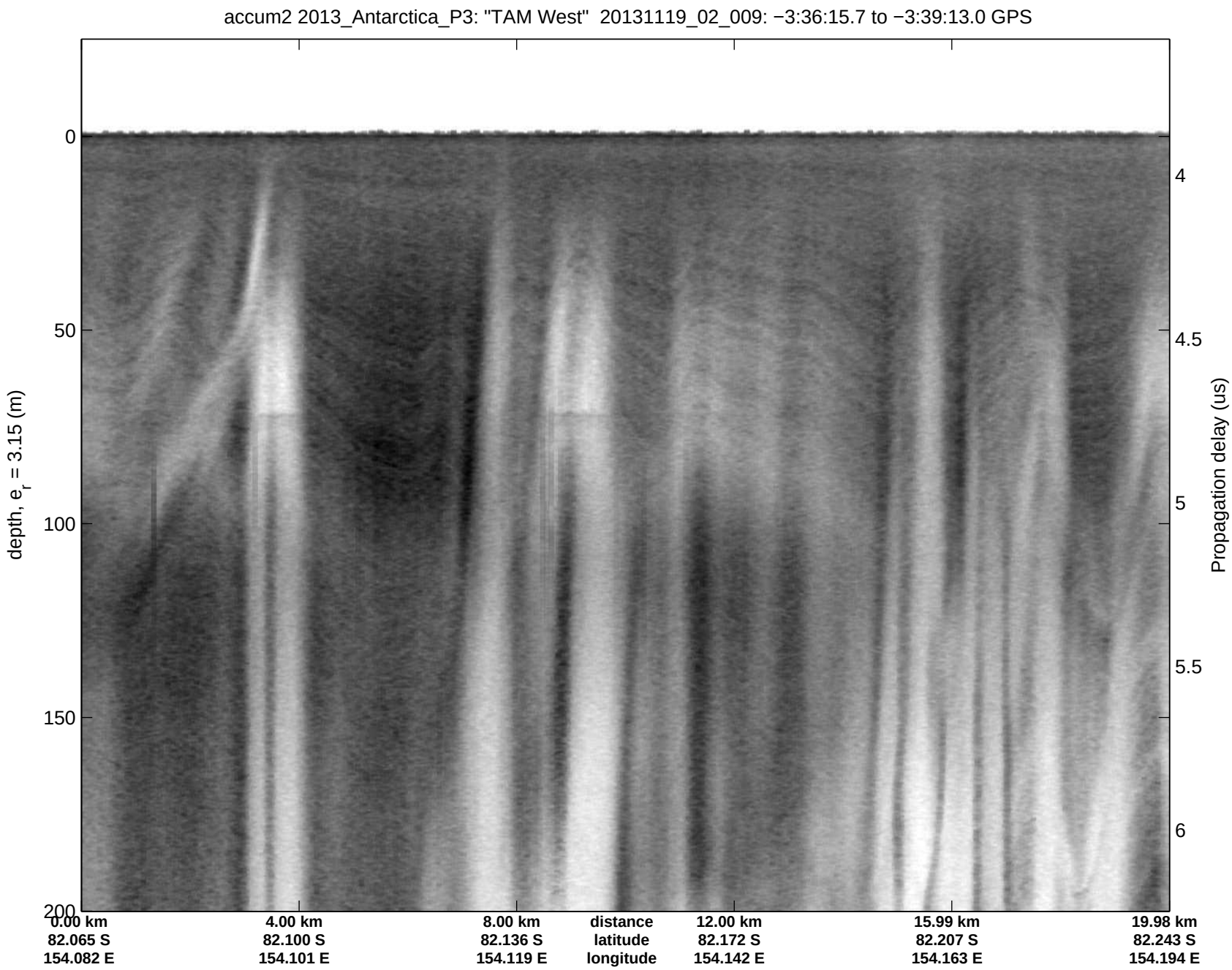

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

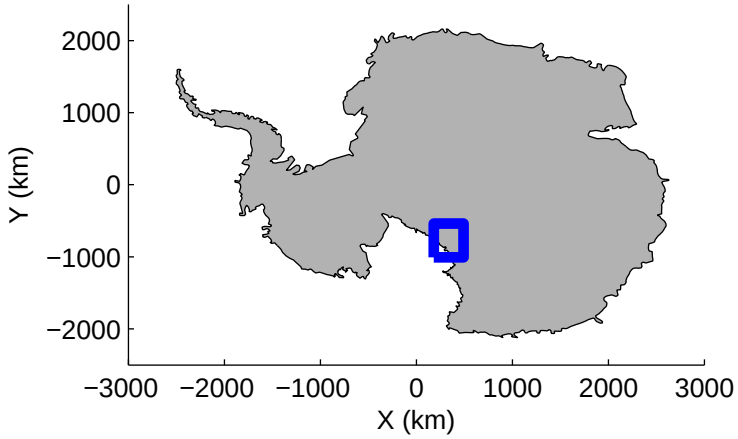

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_008: −3:33:16.9 to −3:36:15.6 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
Propagation delay (us)
3
3.5
4
4.5
5
0.00 km
81.886 S
153.980 E
4.00 km
81.922 S
154.001 E
8.00 km
81.958 S
154.020 E
distance
latitude
longitude
11.99 km
81.993 S
154.041 E
15.99 km
82.029 S
154.062 E
19.98 km
82.065 S
154.082 E

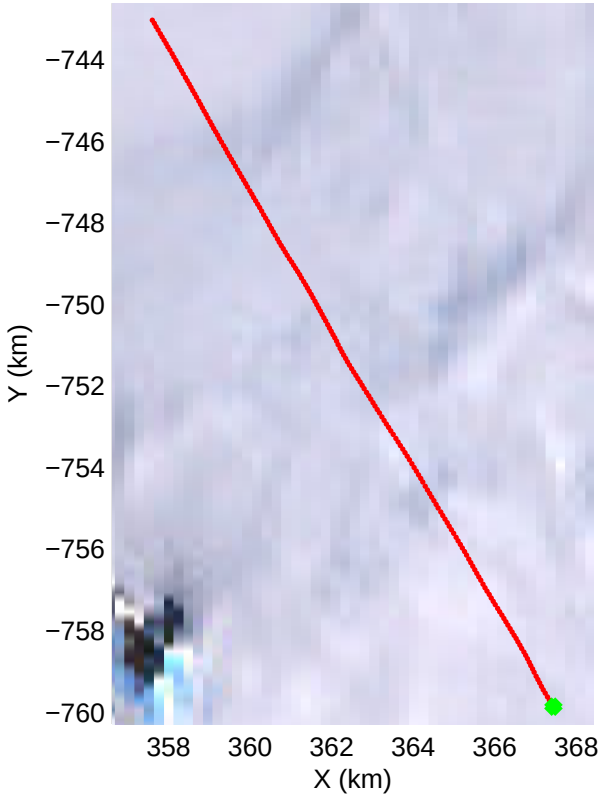

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

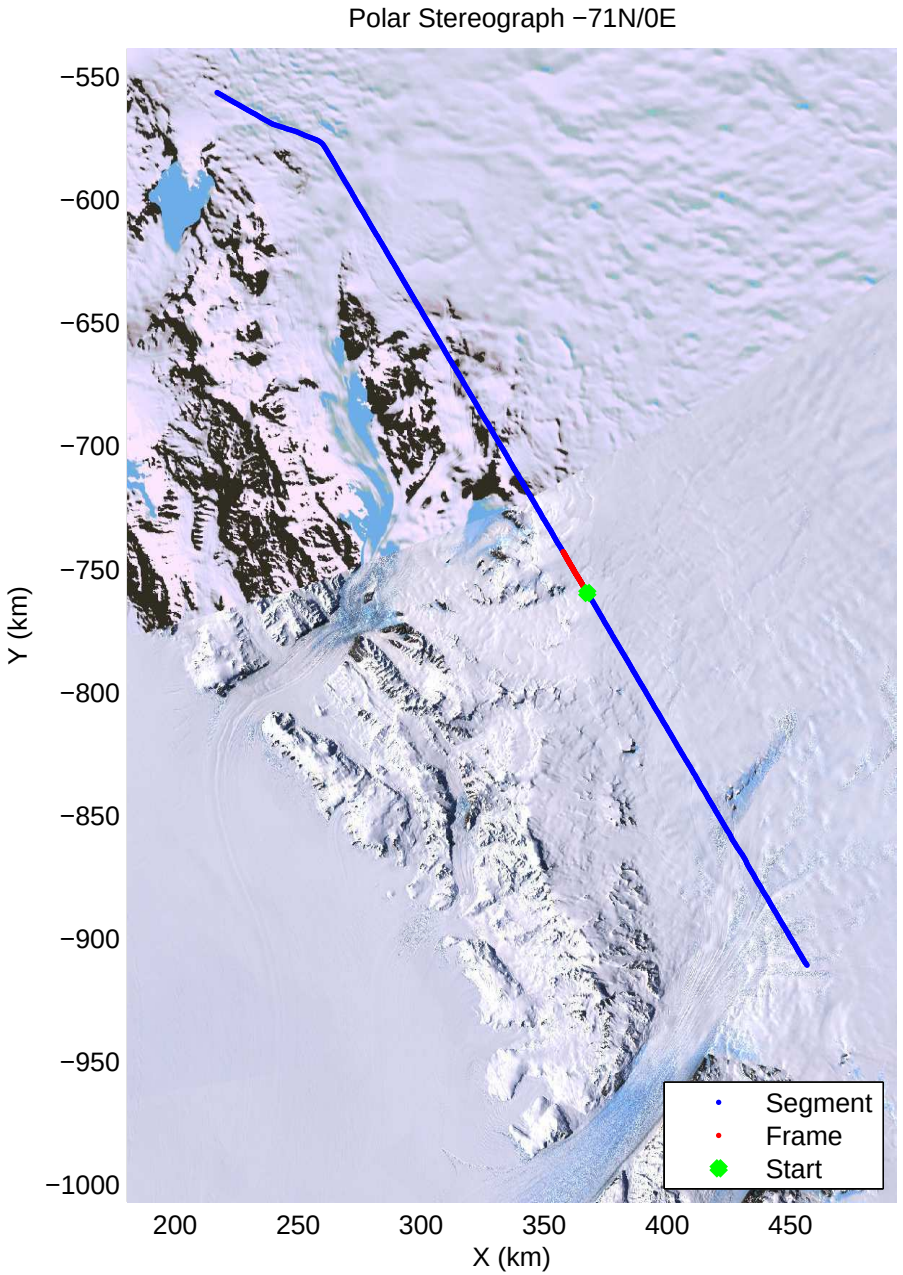

−760
−762
−764
−766
−768
−770
−772
−774
−776
Y (km)
368
370
372
374
376
378
X (km)

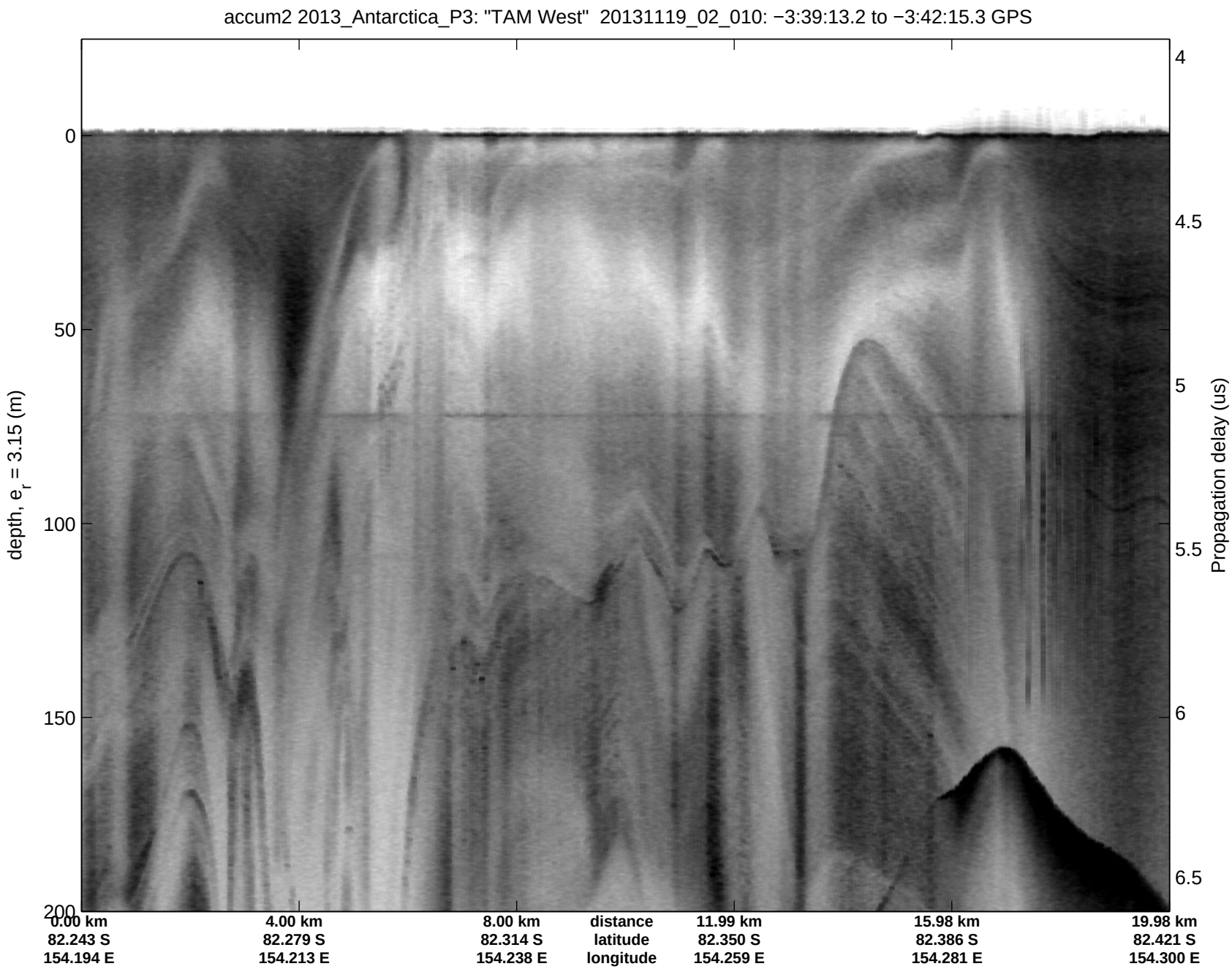

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

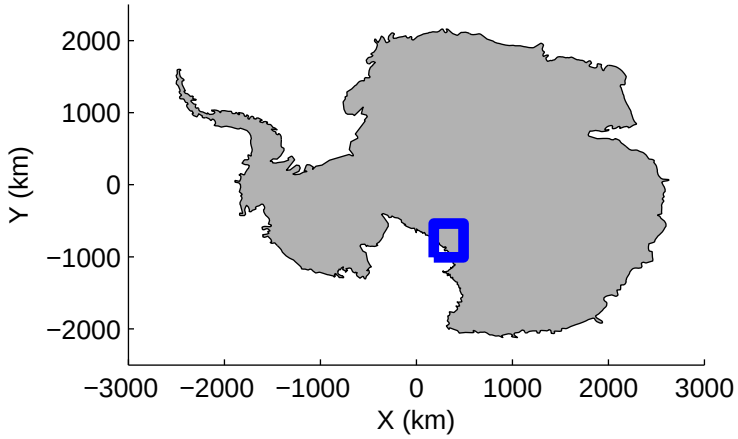

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_009: −3:36:15.7 to −3:39:13.0 GPS
0
50
100
150
200
depth, e_r = 3.15 (m)
4
4.5
5
5.5
6
Propagation delay (us)
0.00 km
82.065 S
154.082 E
4.00 km
82.100 S
154.101 E
8.00 km
82.136 S
154.119 E
distance
latitude
longitude
12.00 km
82.172 S
154.142 E
15.99 km
82.207 S
154.163 E
19.98 km
82.243 S
154.194 E

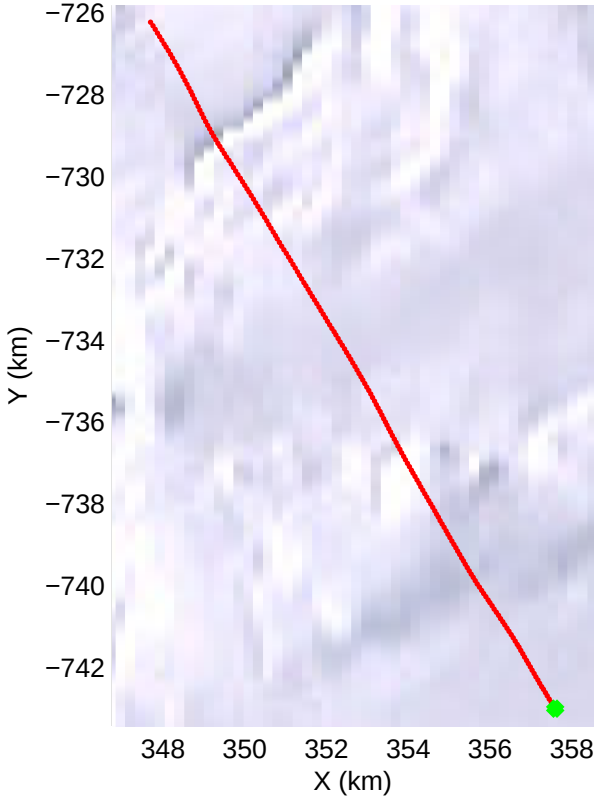

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

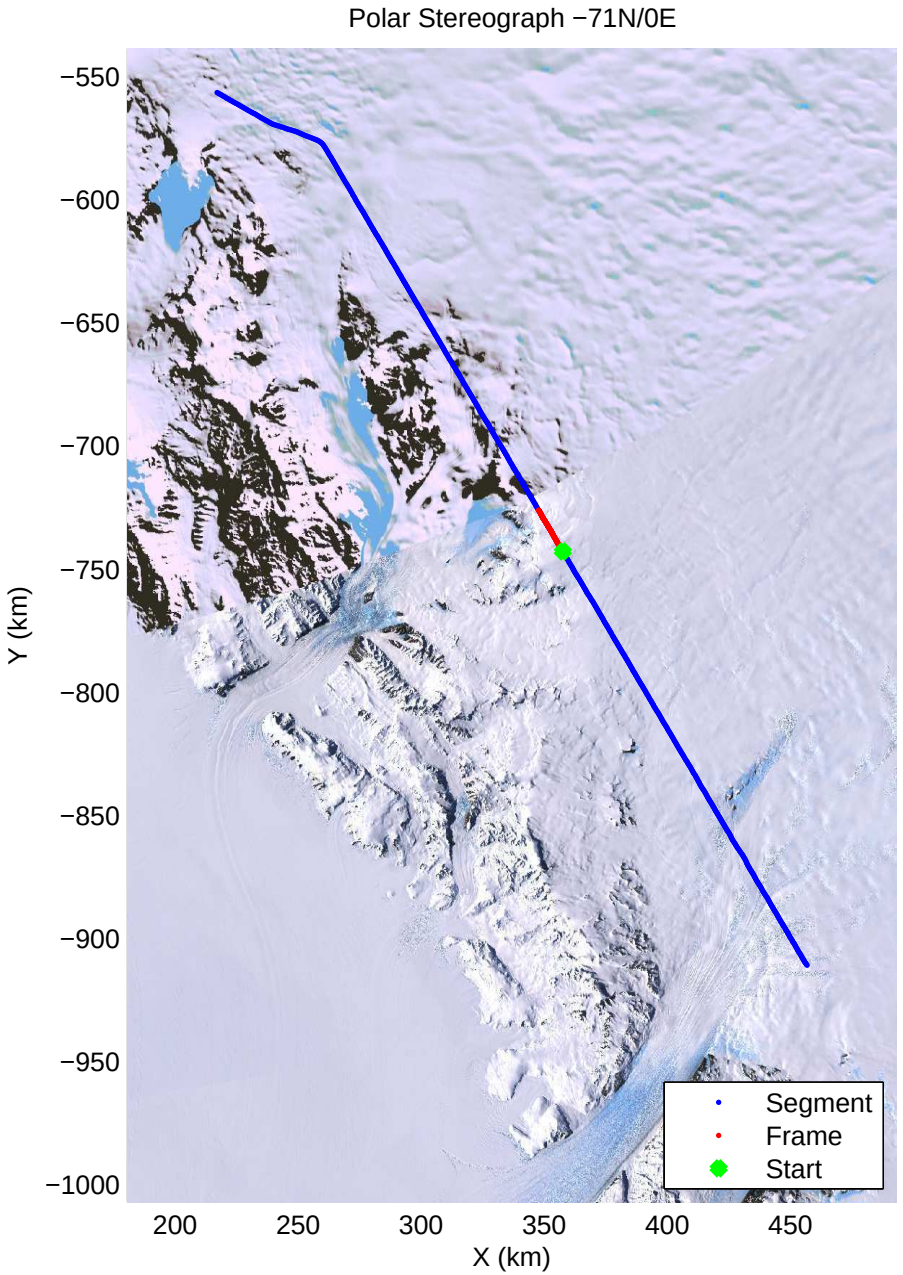

−744
−746
−748
−750
−752
−754
−756
−758
−760
Y (km)
358
360
362
364
366
368
X (km)

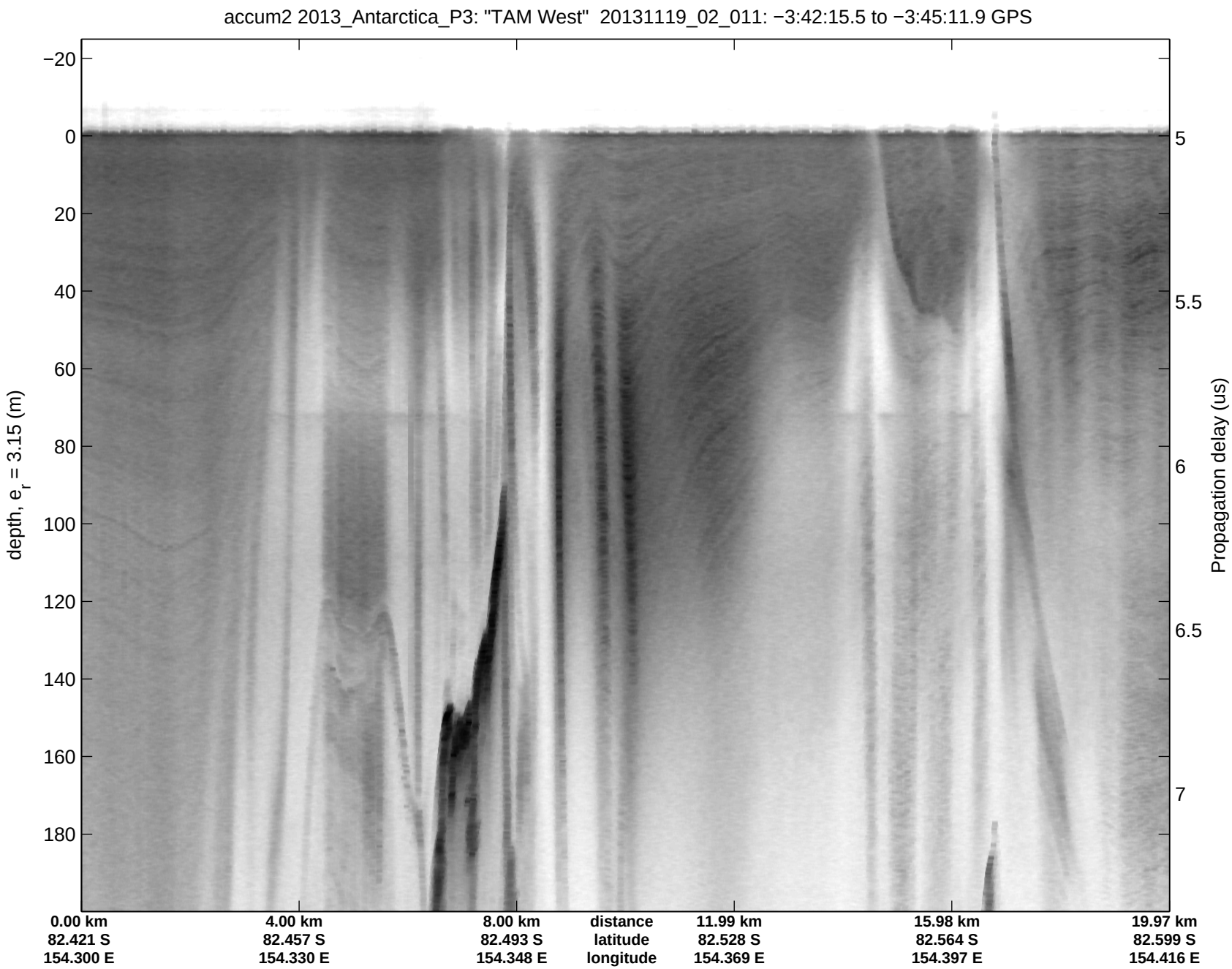

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

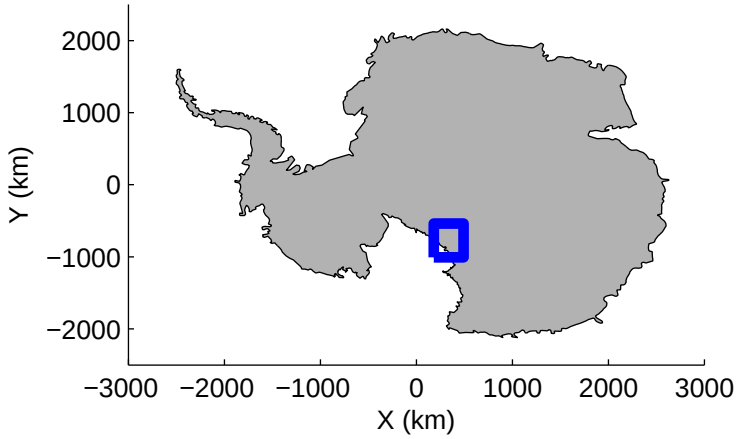

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_010: −3:39:13.2 to −3:42:15.3 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
4
4.5
5
5.5
6
6.5
Propagation delay (us)
0.00 km
82.243 S
154.194 E
4.00 km
82.279 S
154.213 E
8.00 km
82.314 S
154.238 E
distance
latitude
longitude
11.99 km
82.350 S
154.259 E
15.98 km
82.386 S
154.281 E
19.98 km
82.421 S
154.300 E

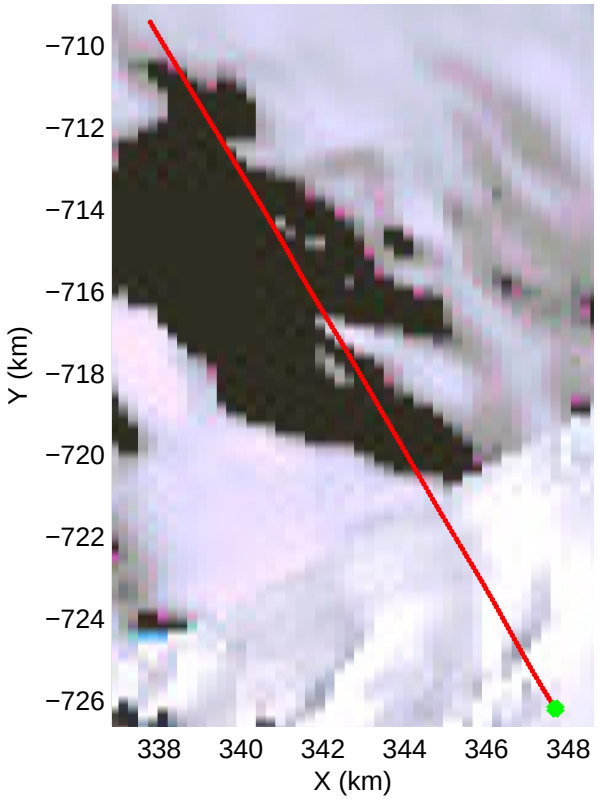

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

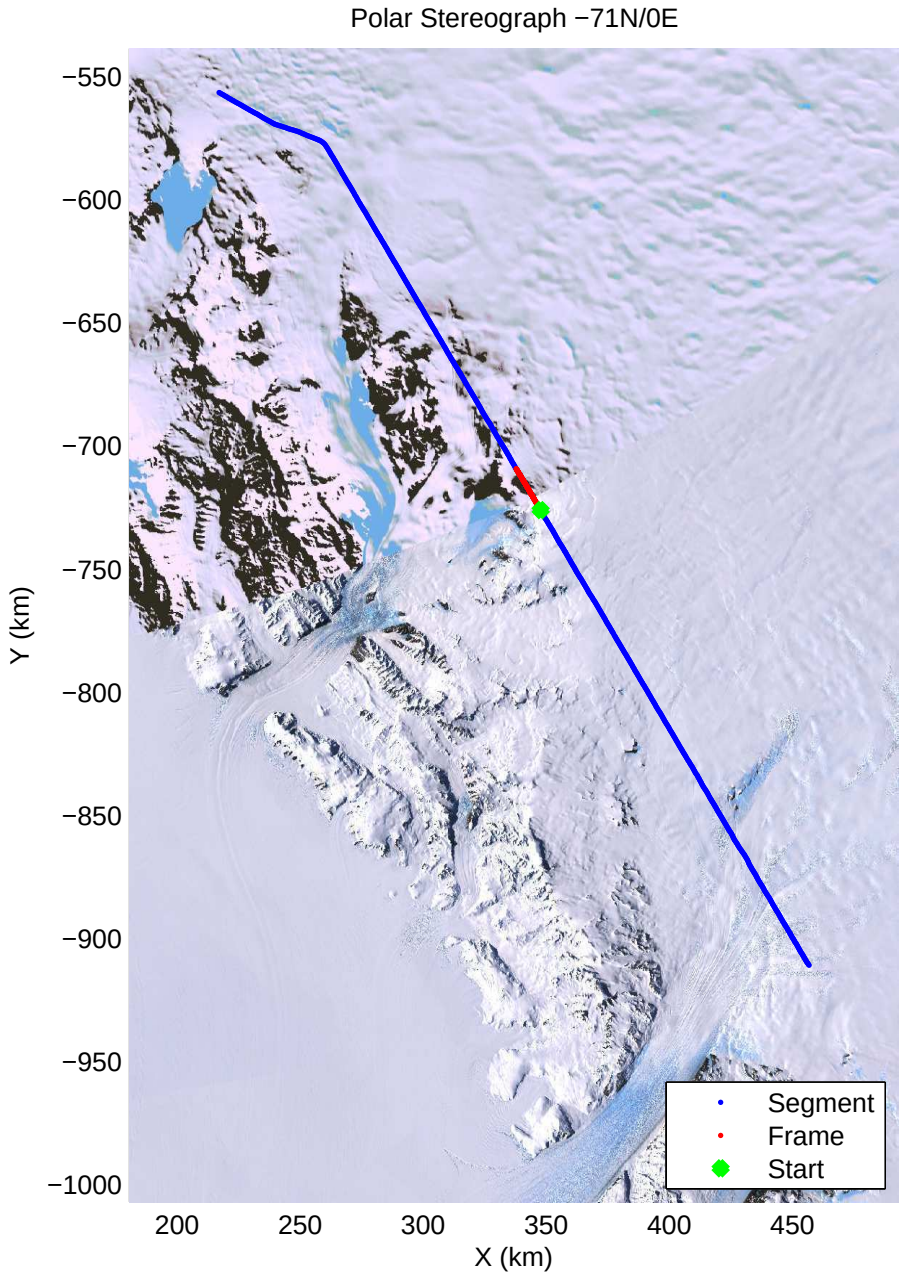

−726
−728
−730
−732
−734
−736
−738
−740
−742
Y (km)
348
350
352
354
356
358
X (km)

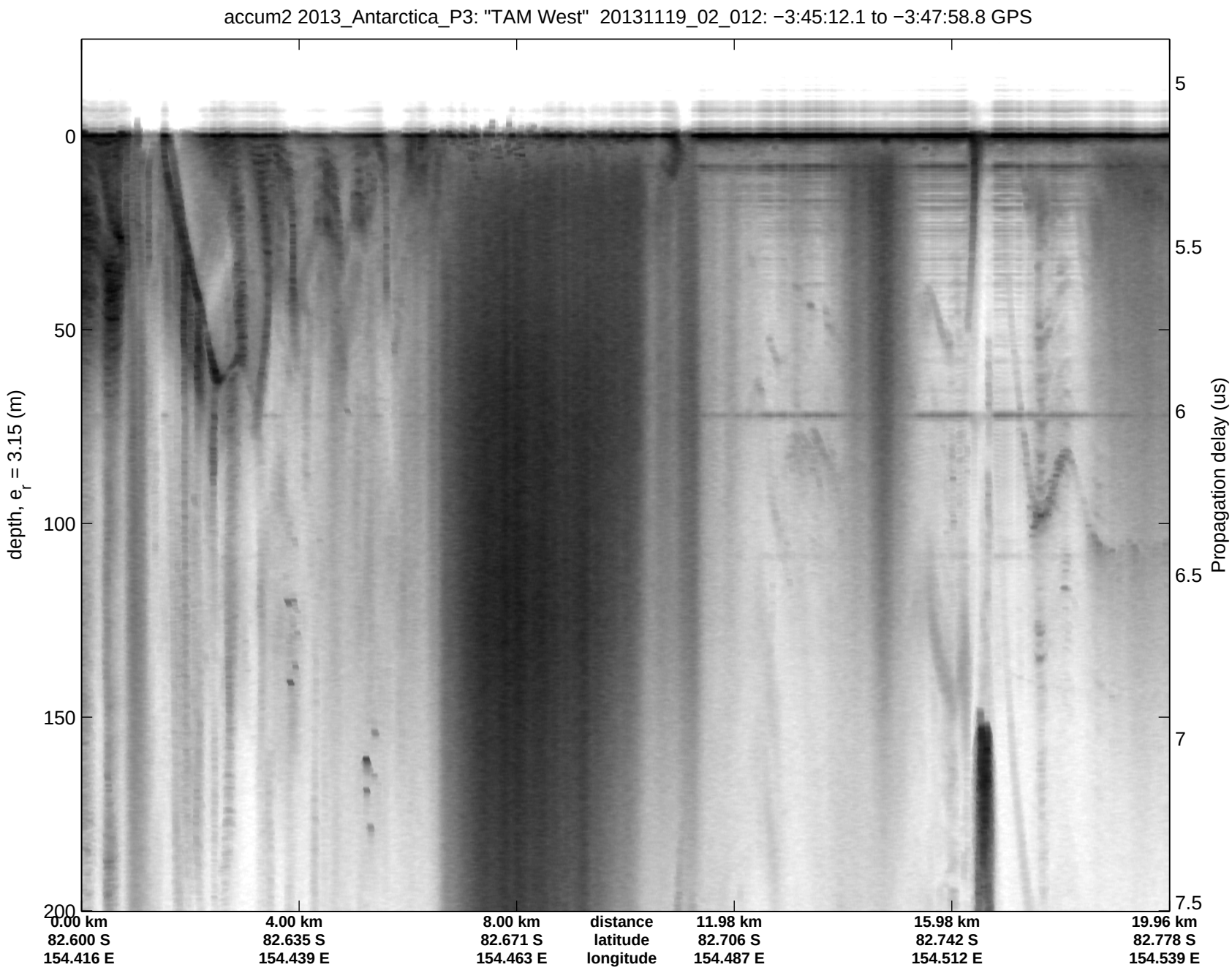

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

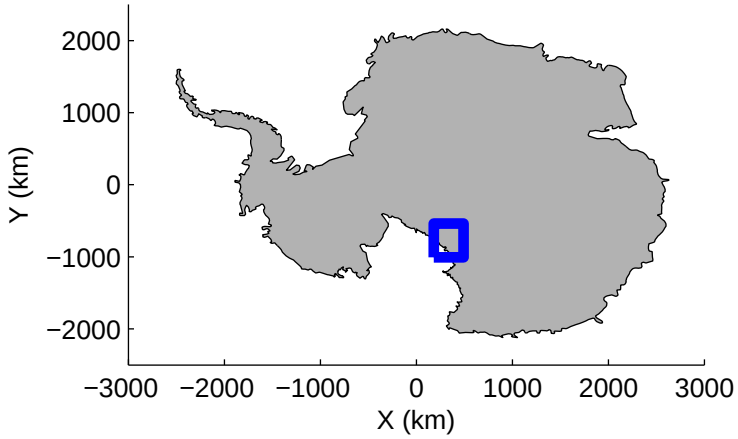

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_011: −3:42:15.5 to −3:45:11.9 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
140
160
180
Propagation delay (us)
5
5.5
6
6.5
7
0.00 km
82.421 S
154.300 E
4.00 km
82.457 S
154.330 E
8.00 km
82.493 S
154.348 E
distance
latitude
longitude
11.99 km
82.528 S
154.369 E
15.98 km
82.564 S
154.397 E
19.97 km
82.599 S
154.416 E

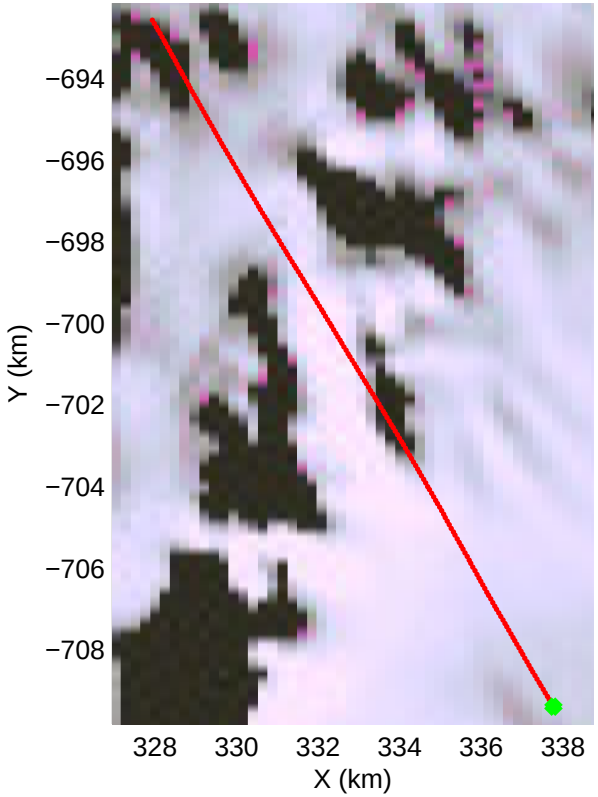

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

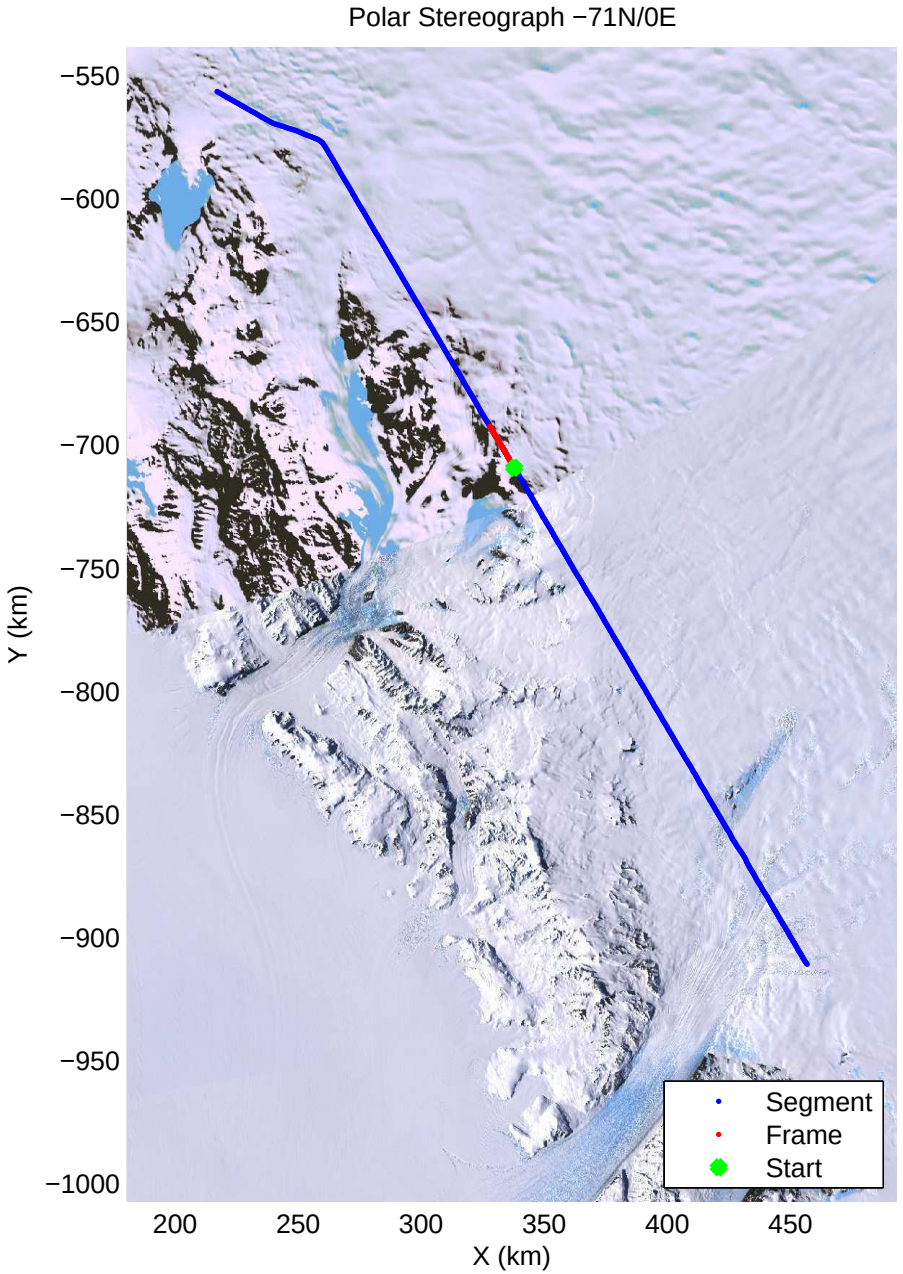

−710
−712
−714
−716
−718
−720
−722
−724
−726
Y (km)
338
340
342
344
346
348
X (km)

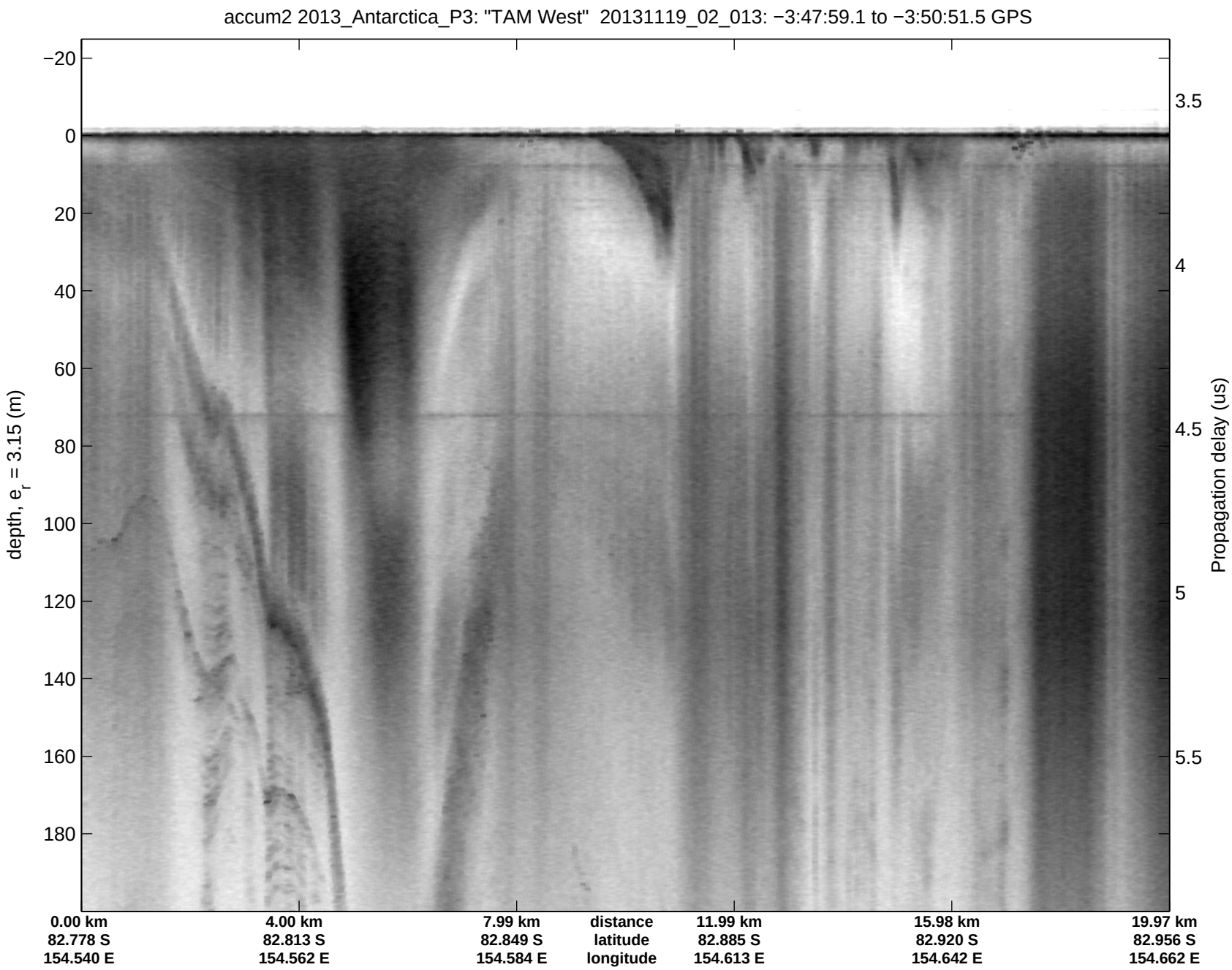

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

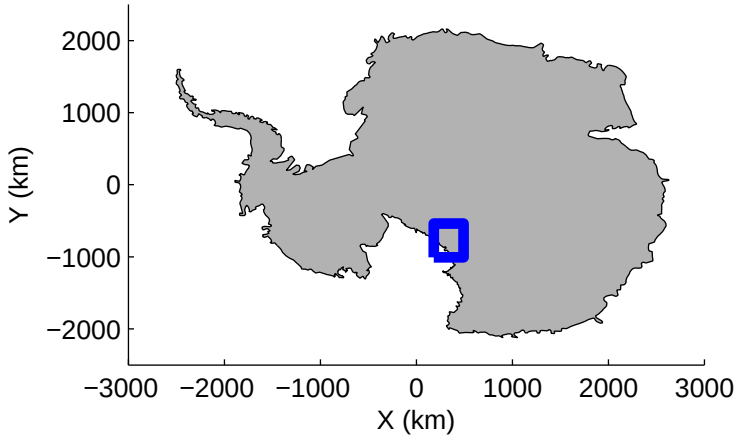

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_012: −3:45:12.1 to −3:47:58.8 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
5
5.5
6
6.5
7
7.5
Propagation delay (us)
0.00 km
82.600 S
154.416 E
4.00 km
82.635 S
154.439 E
8.00 km
82.671 S
154.463 E
distance
latitude
longitude
11.98 km
82.706 S
154.487 E
15.98 km
82.742 S
154.512 E
19.96 km
82.778 S
154.539 E

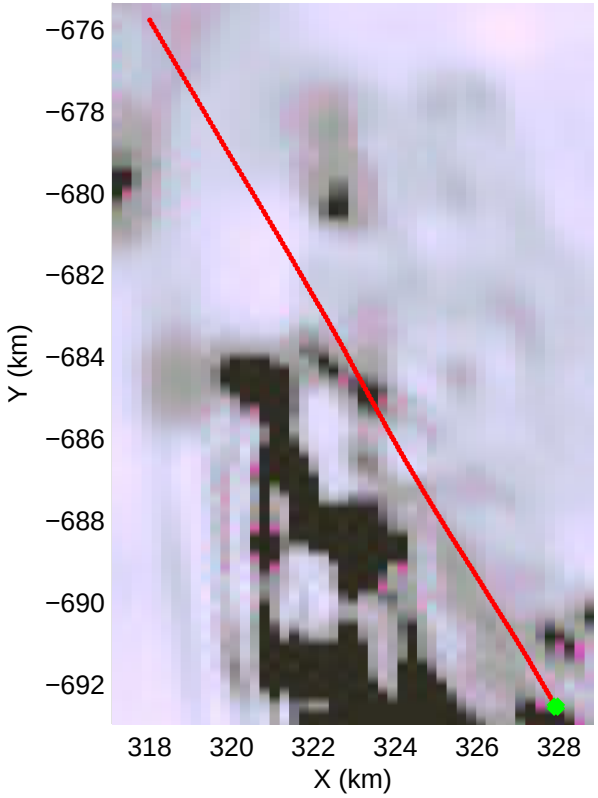

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

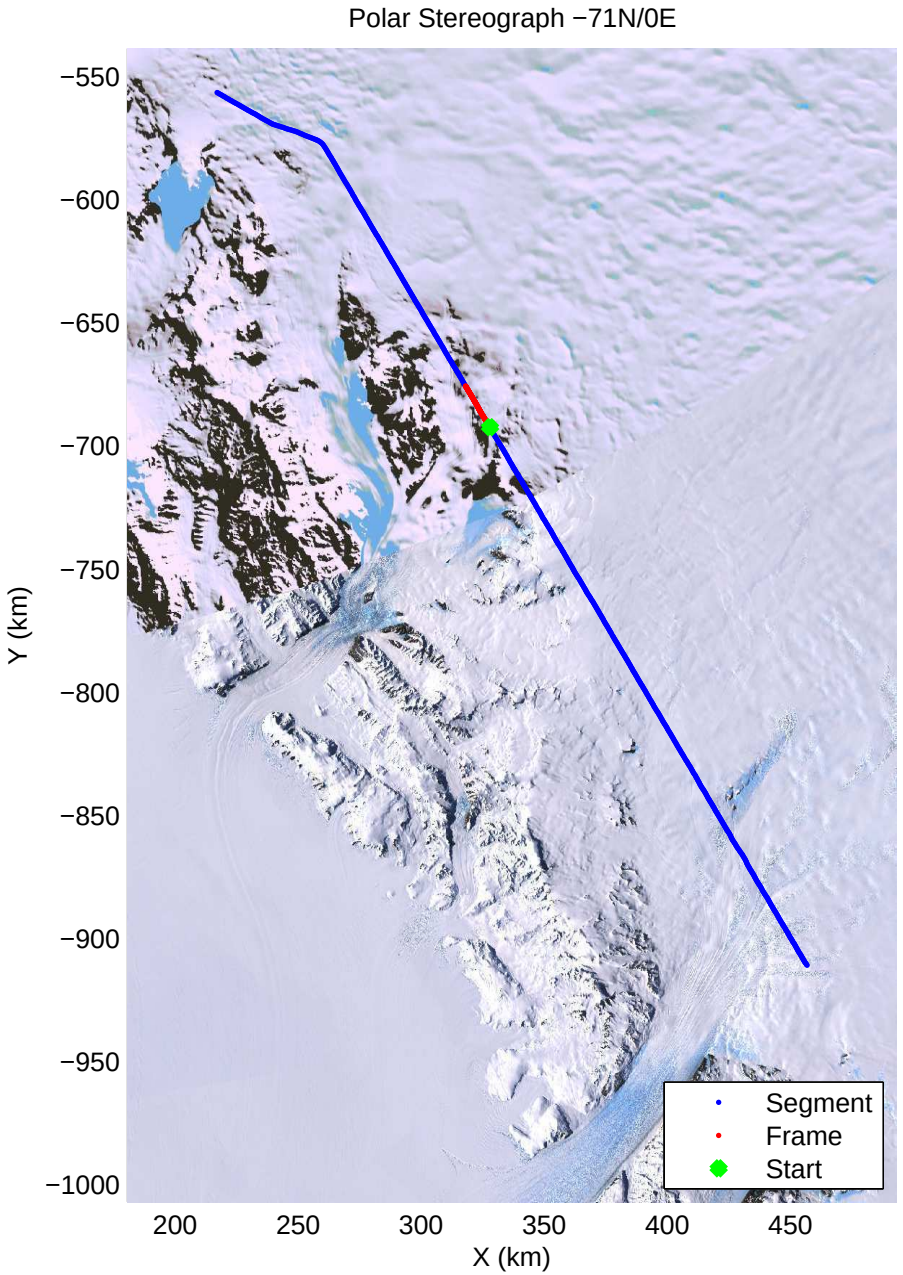

−694
−696
−698
−700
−702
−704
−706
−708
Y (km)
328
330
332
334
336
338
X (km)

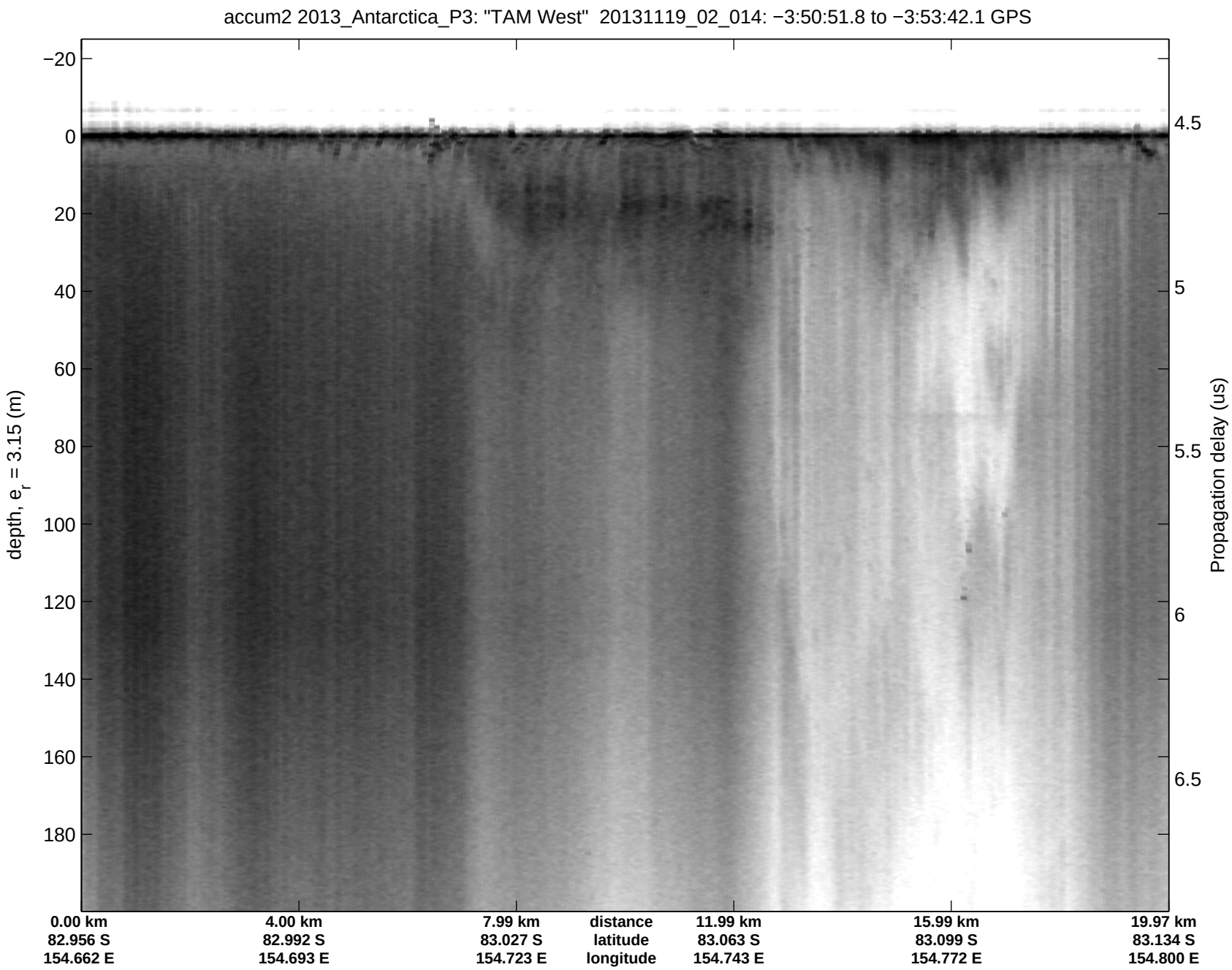

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

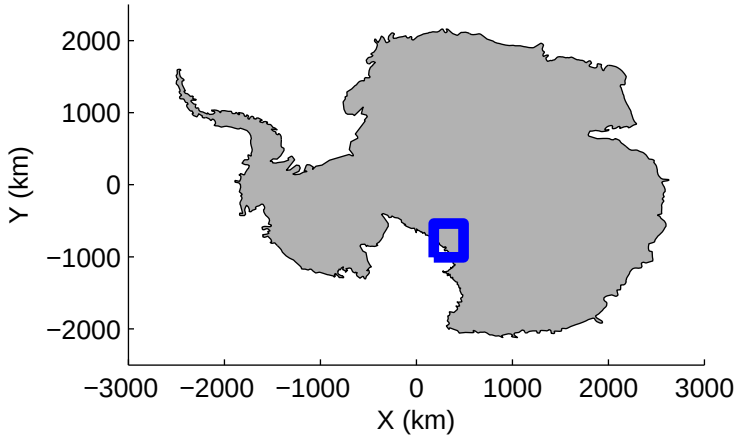

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_013: −3:47:59.1 to −3:50:51.5 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
140
160
180
Propagation delay (us)
3.5
4
4.5
5
5.5
0.00 km
82.778 S
154.540 E
4.00 km
82.813 S
154.562 E
7.99 km
82.849 S
154.584 E
distance
latitude
longitude
11.99 km
82.885 S
154.613 E
15.98 km
82.920 S
154.642 E
19.97 km
82.956 S
154.662 E

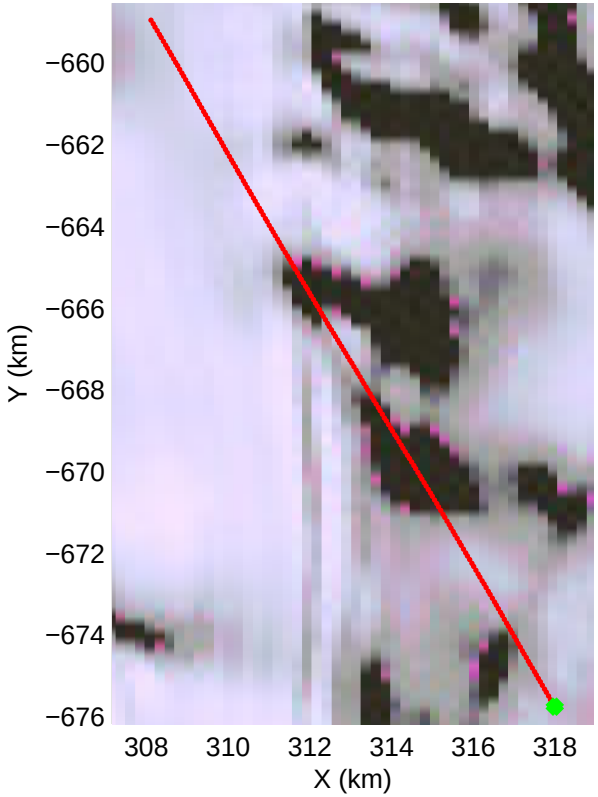

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

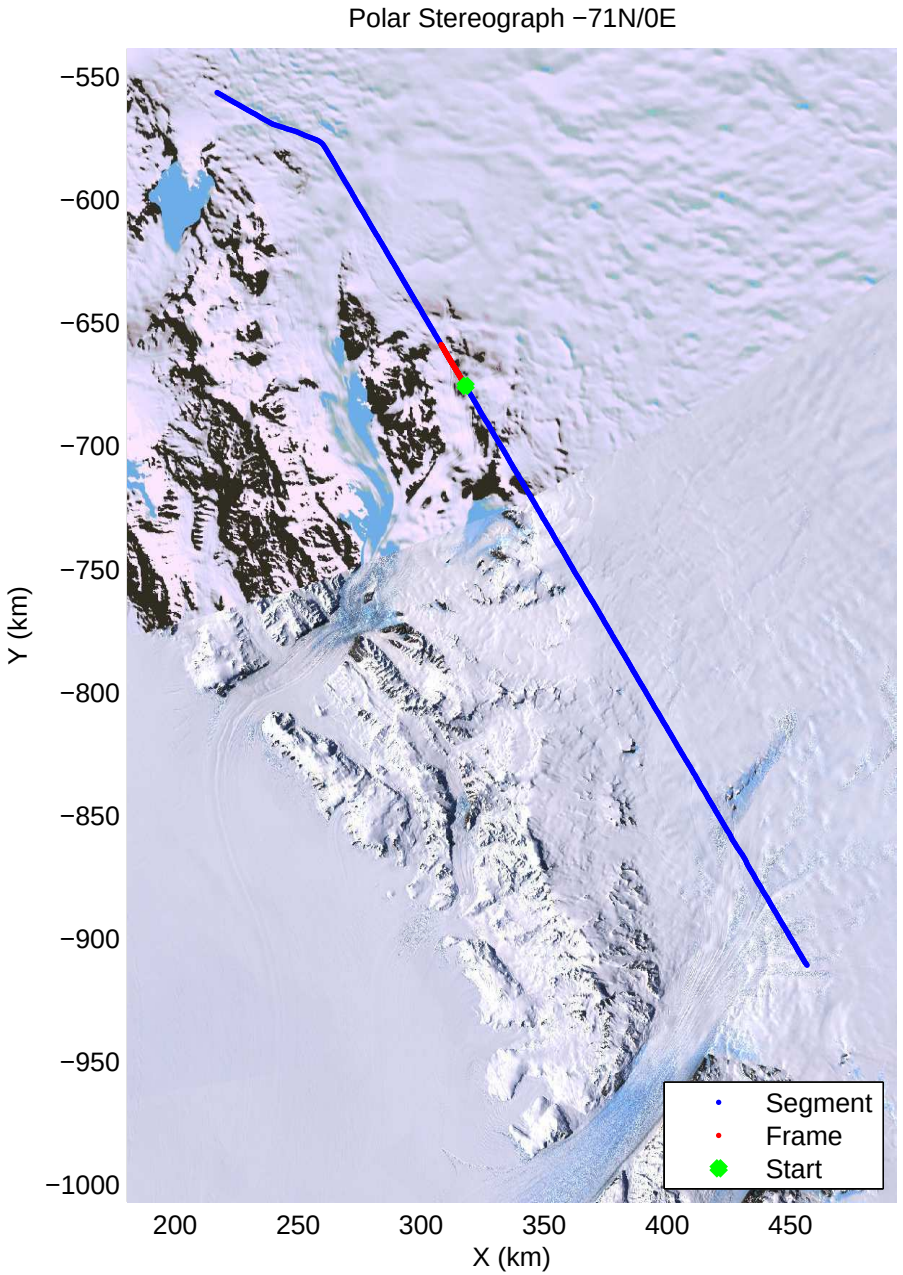

−676
−678
−680
−682
−684
−686
−688
−690
−692
Y (km)
318
320
322
324
326
328
X (km)

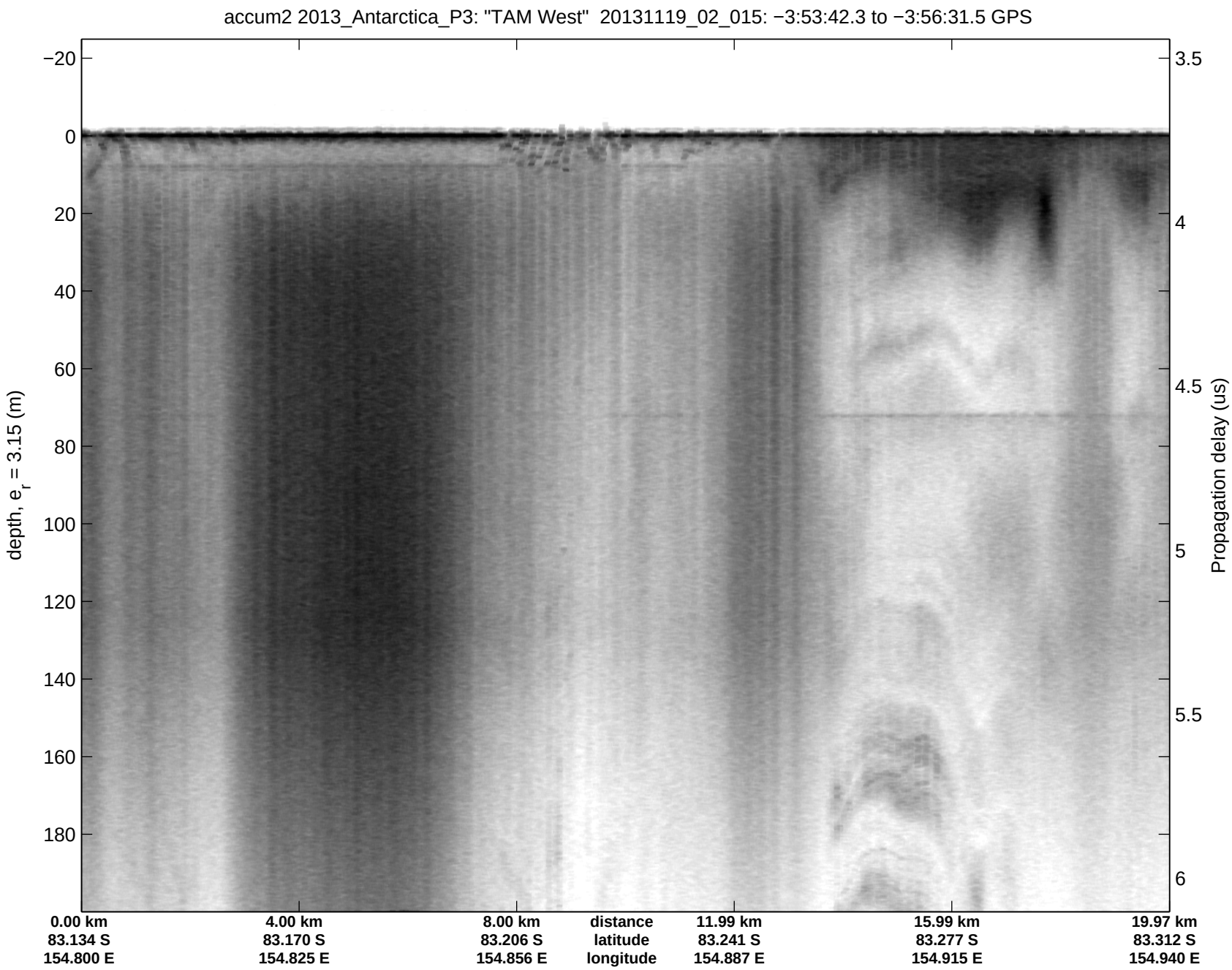

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

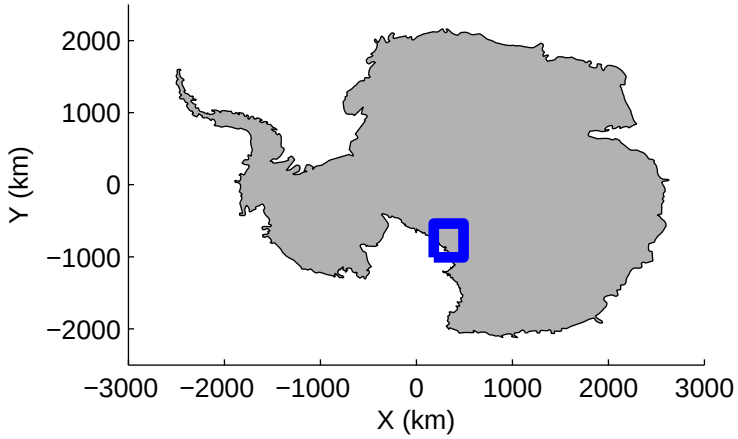

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_014: −3:50:51.8 to −3:53:42.1 GPS
depth, e_r = 3.15 (m)
−20
0
20
40
60
80
100
120
140
160
180
Propagation delay (us)
4.5
5
5.5
6
6.5
0.00 km
82.956 S
154.662 E
4.00 km
82.992 S
154.693 E
7.99 km
83.027 S
154.723 E
distance
latitude
longitude
11.99 km
83.063 S
154.743 E
15.99 km
83.099 S
154.772 E
19.97 km
83.134 S
154.800 E

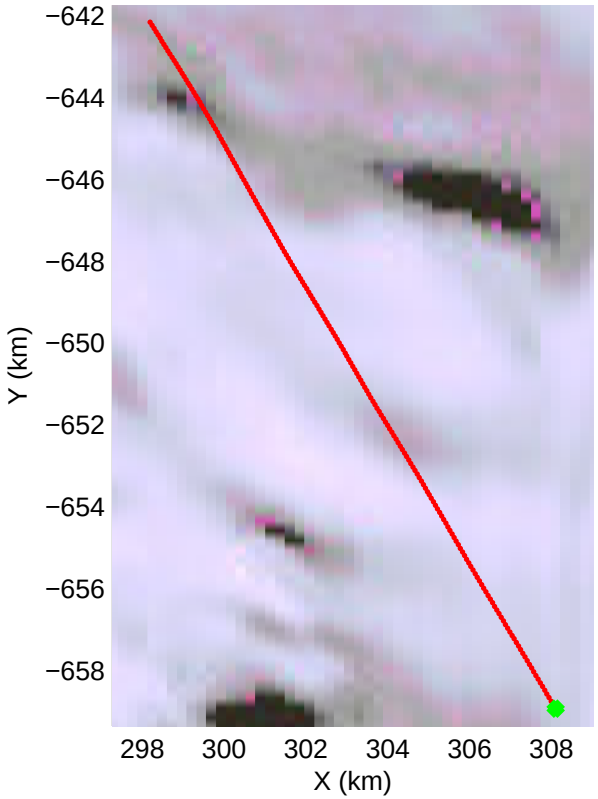

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

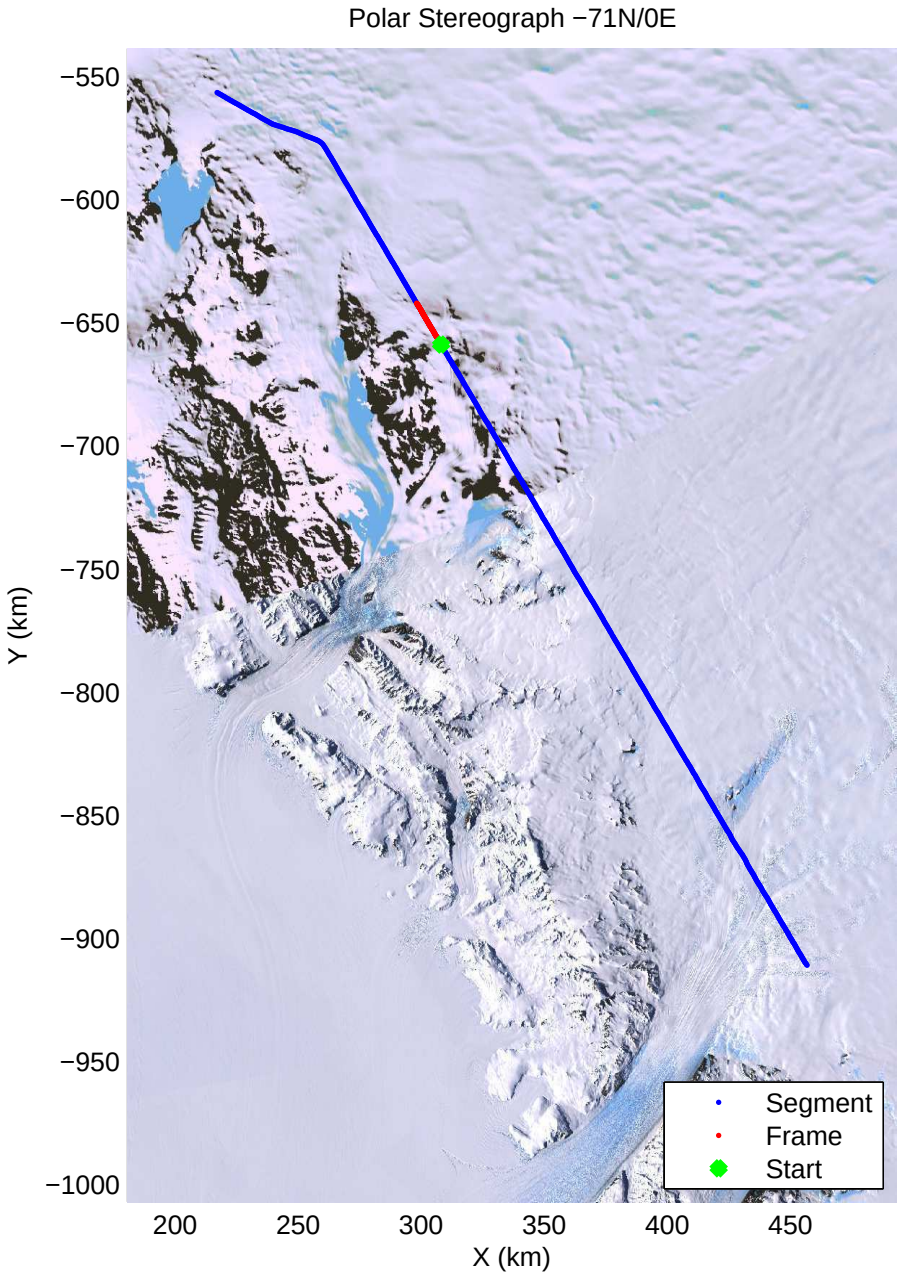

−660
−662
−664
−666
−668
−670
−672
−674
−676
Y (km)
308
310
312
314
316
318
X (km)

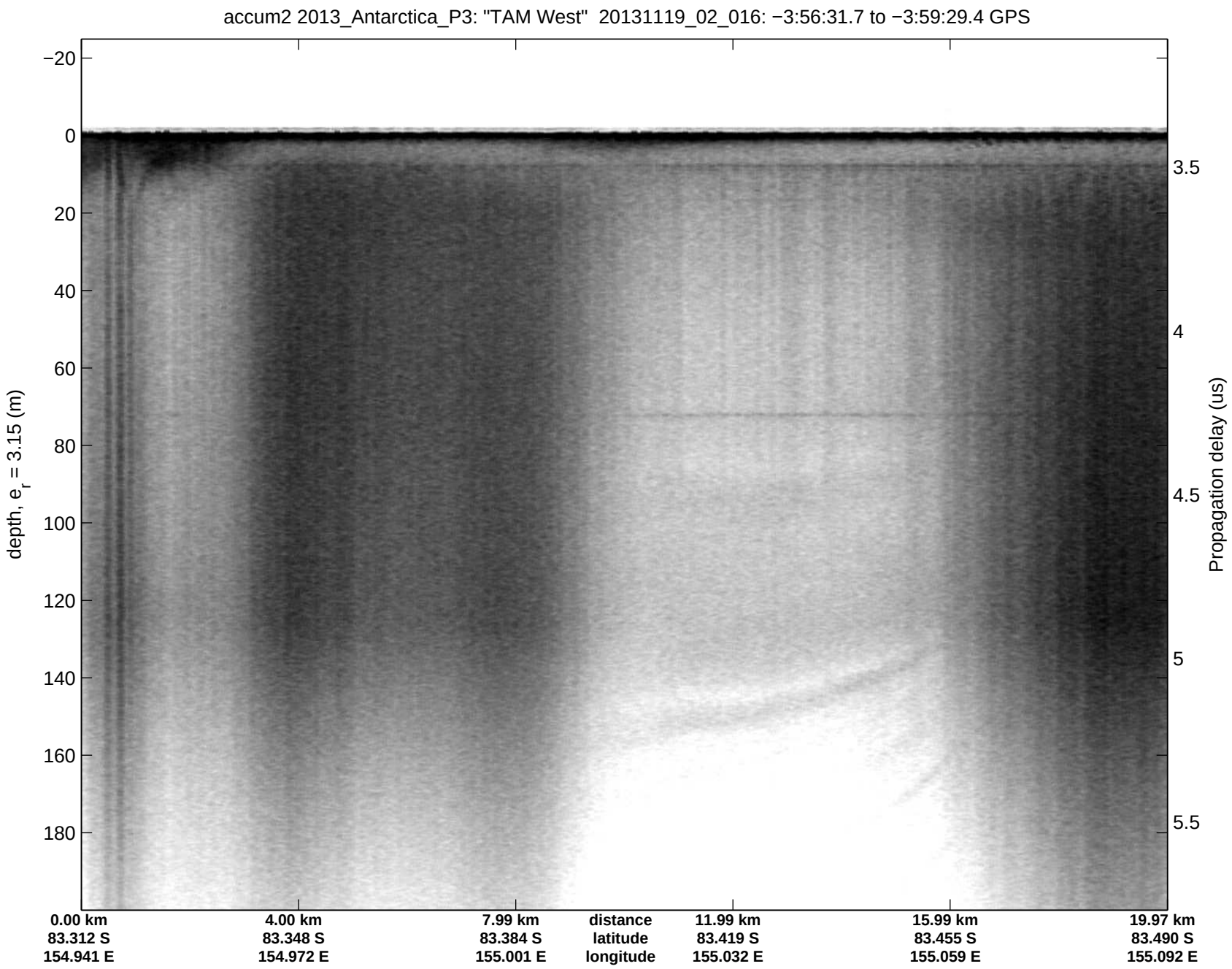

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

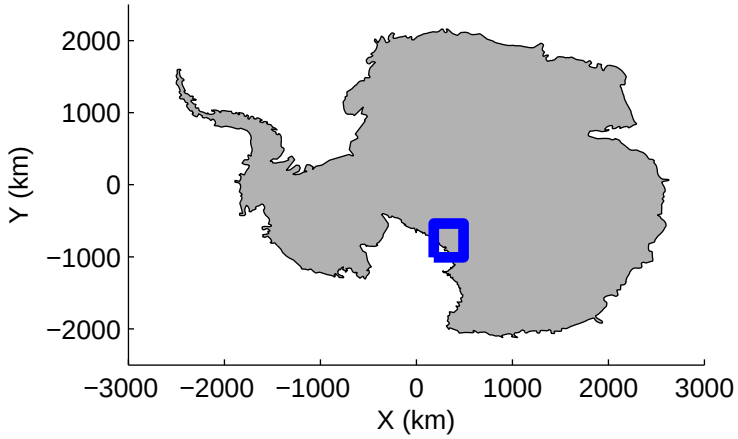

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_015: −3:53:42.3 to −3:56:31.5 GPS
depth, e_r = 3.15 (m)
Propagation delay (us)
−20
0
20
40
60
80
100
120
140
160
180
3.5
4
4.5
5
5.5
6
0.00 km
83.134 S
154.800 E
4.00 km
83.170 S
154.825 E
8.00 km
83.206 S
154.856 E
distance
latitude
longitude
11.99 km
83.241 S
154.887 E
15.99 km
83.277 S
154.915 E
19.97 km
83.312 S
154.940 E

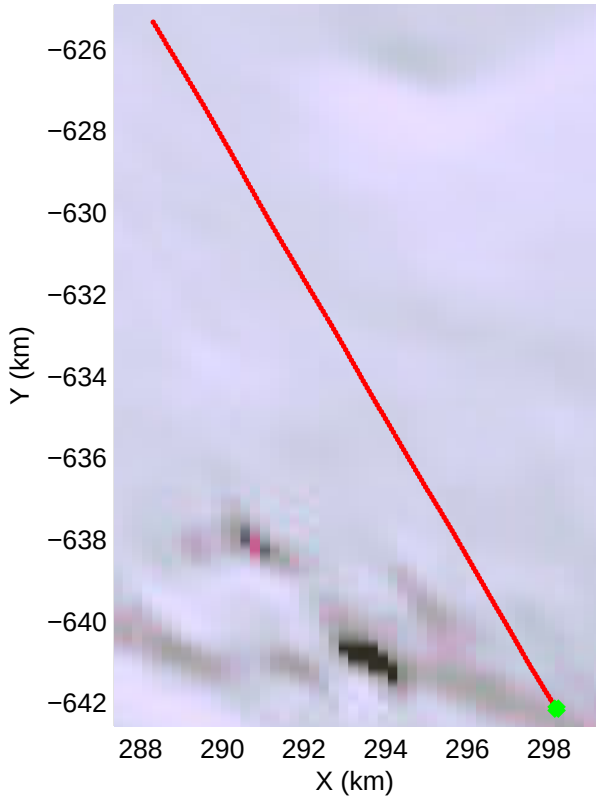

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

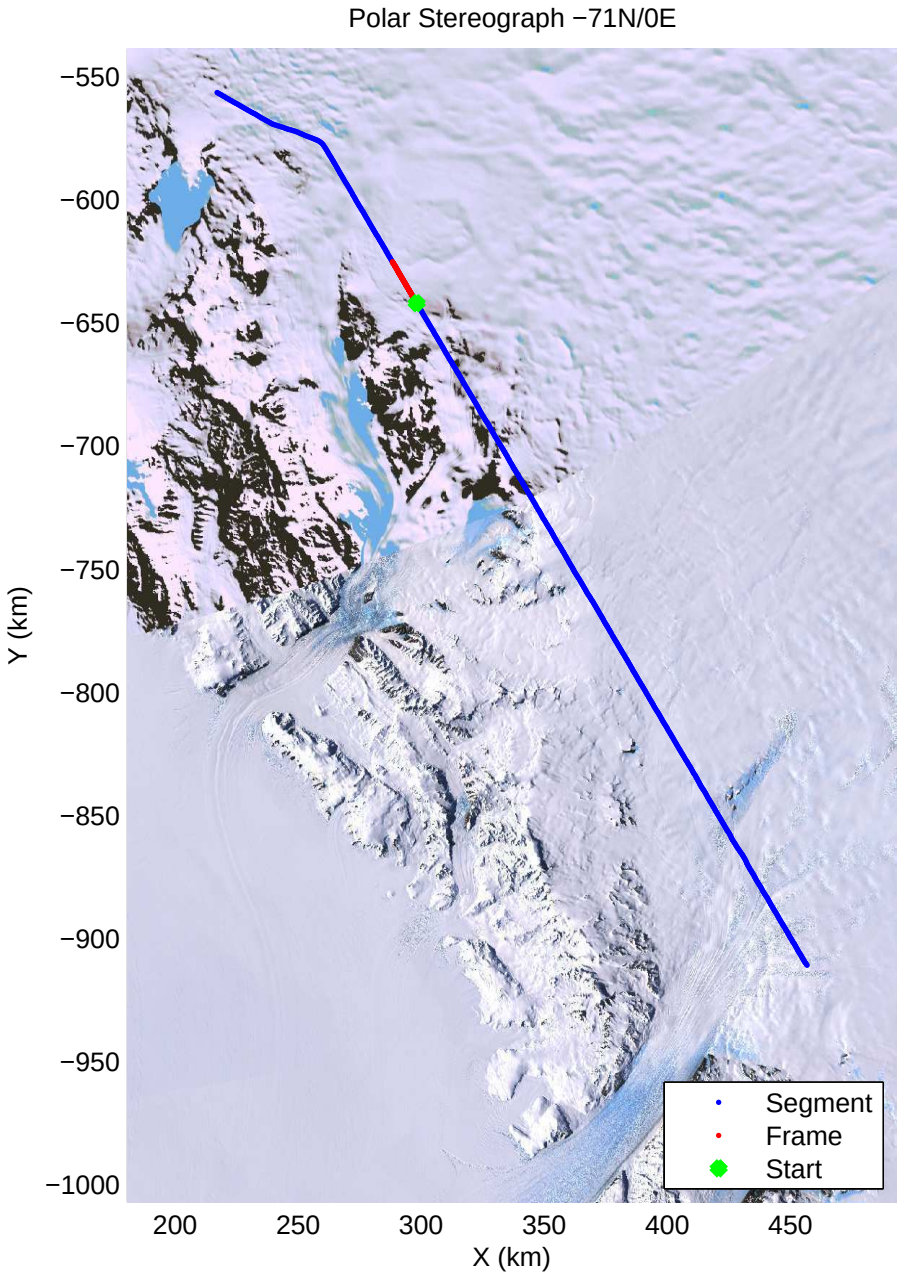

−642
−644
−646
−648
−650
−652
−654
−656
−658
Y (km)
298
300
302
304
306
308
X (km)

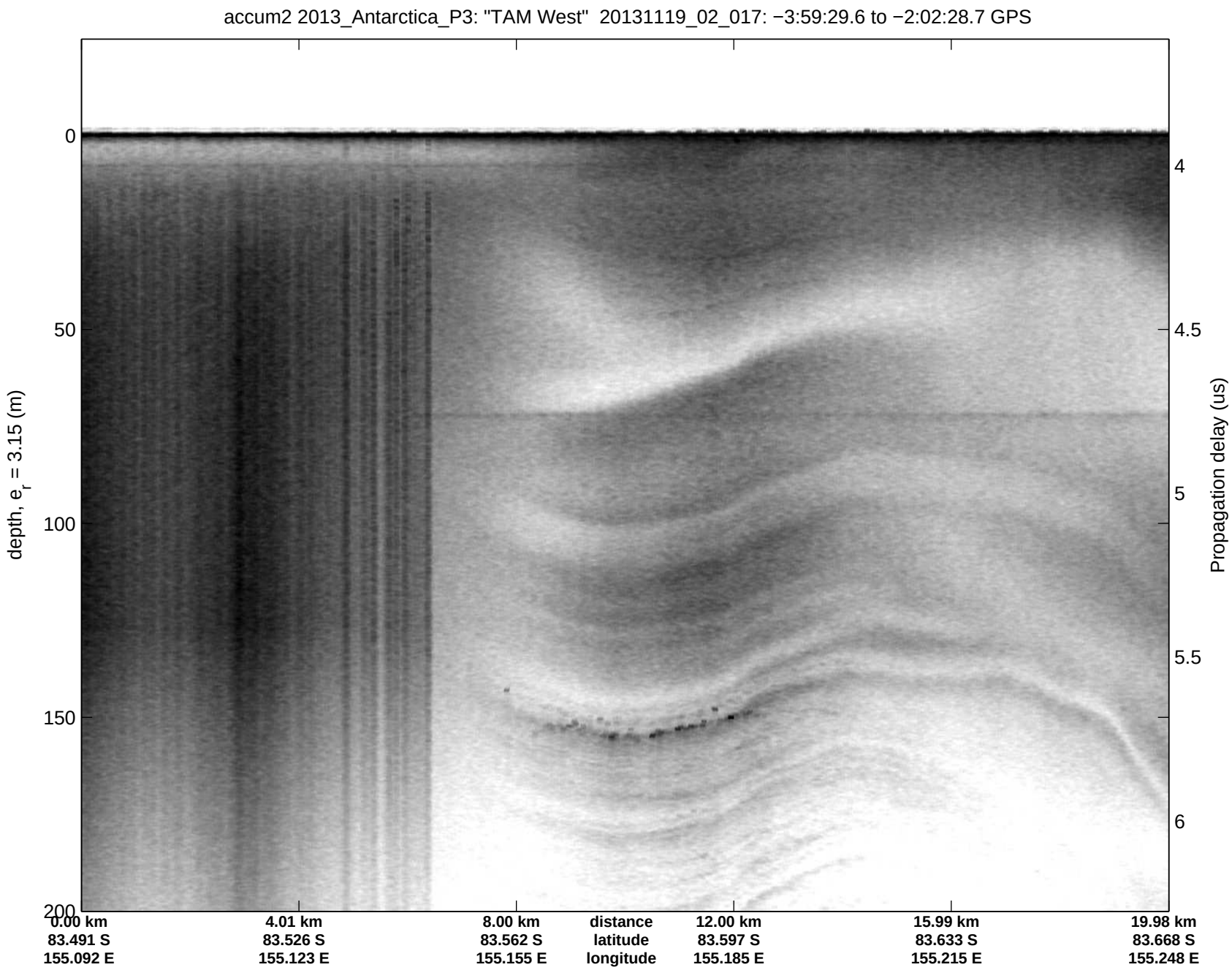

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

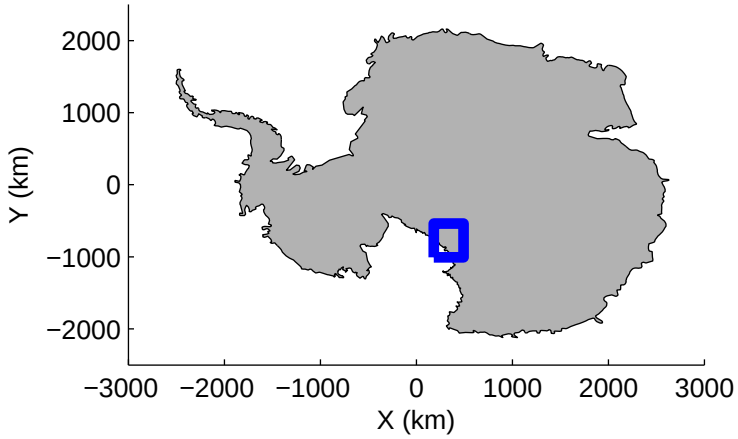

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_016: −3:56:31.7 to −3:59:29.4 GPS
−20
0
20
40
60
80
100
120
140
160
180
depth, e_r = 3.15 (m)
3.5
4
4.5
5
5.5
Propagation delay (us)
0.00 km
83.312 S
154.941 E
4.00 km
83.348 S
154.972 E
7.99 km
83.384 S
155.001 E
distance
latitude
longitude
11.99 km
83.419 S
155.032 E
15.99 km
83.455 S
155.059 E
19.97 km
83.490 S
155.092 E

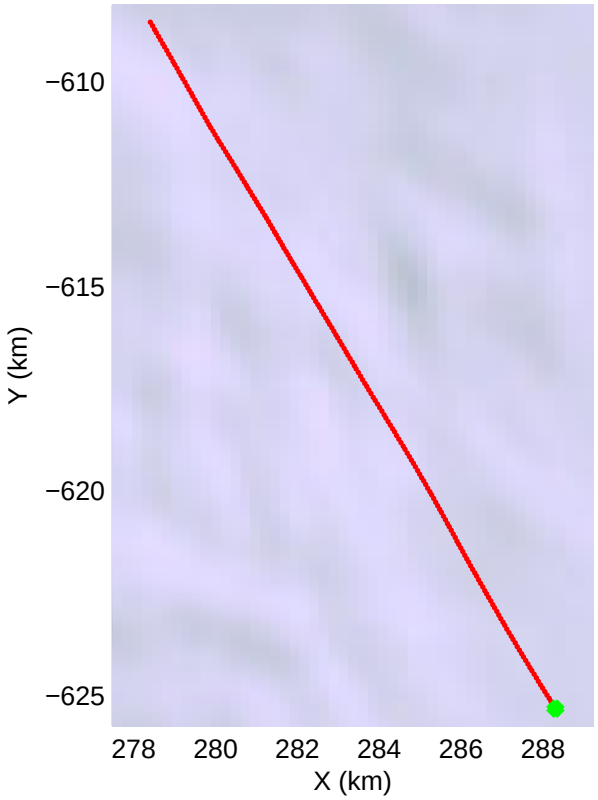

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

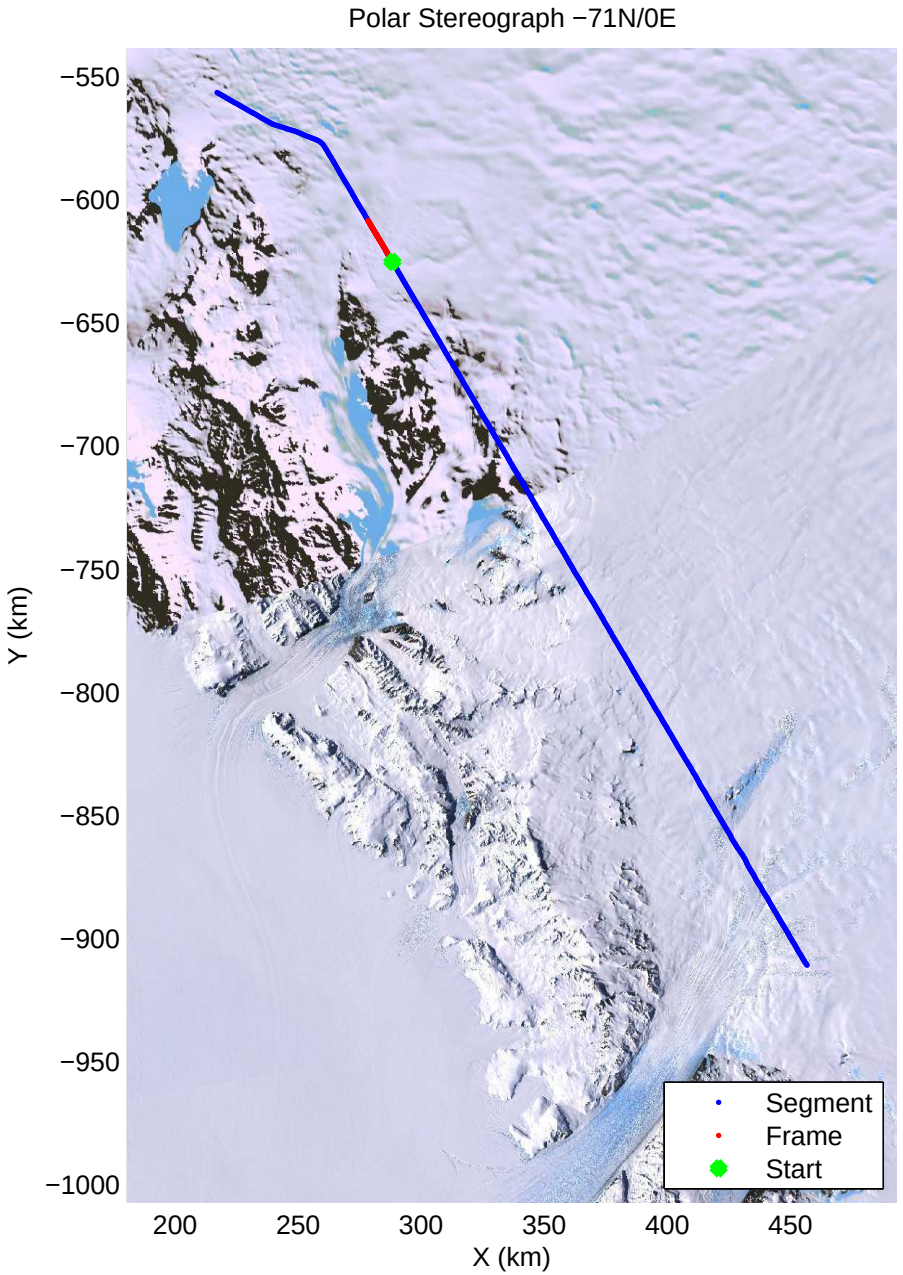

−626
−628
−630
−632
−634
−636
−638
−640
−642
Y (km)
288
290
292
294
296
298
X (km)

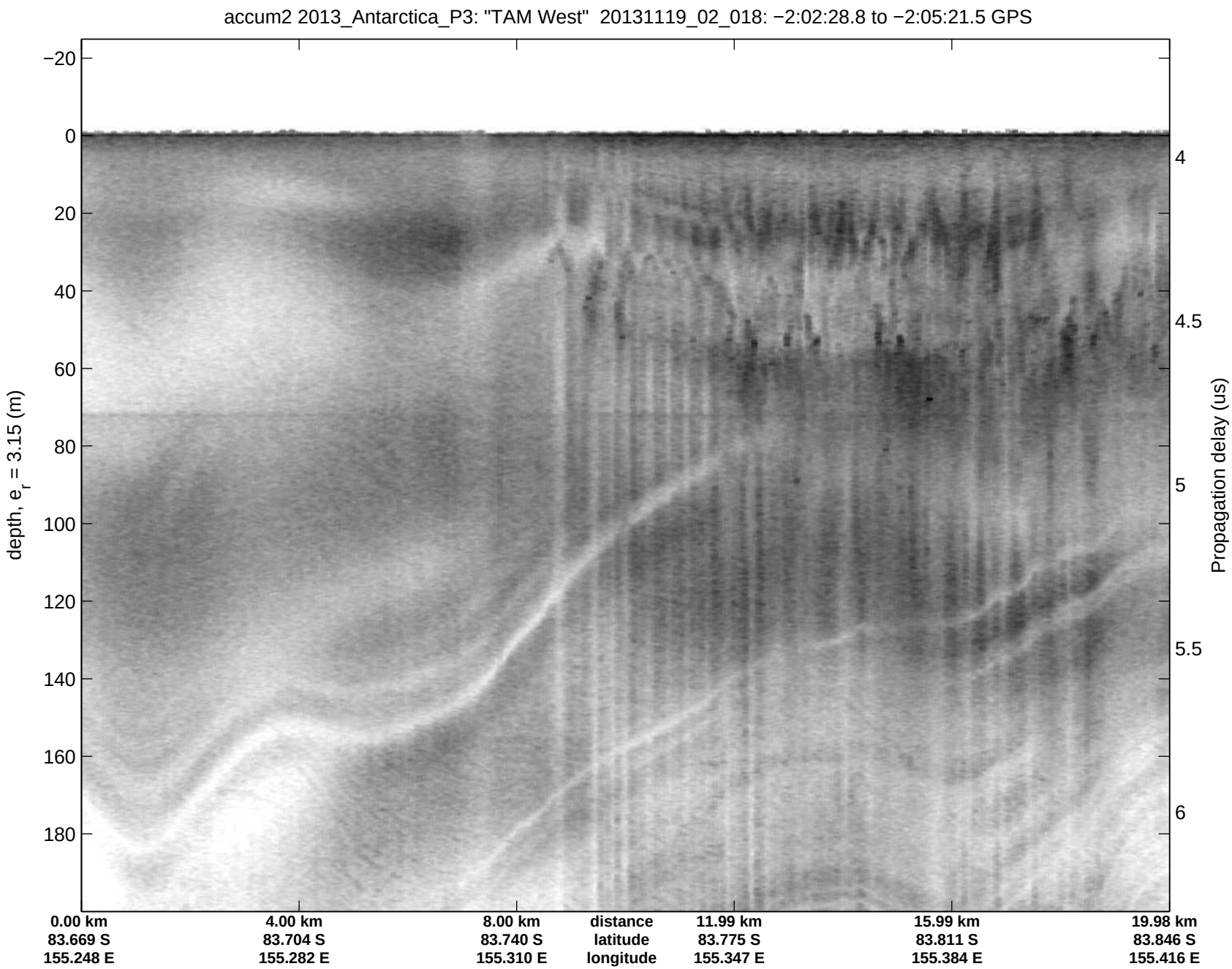

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

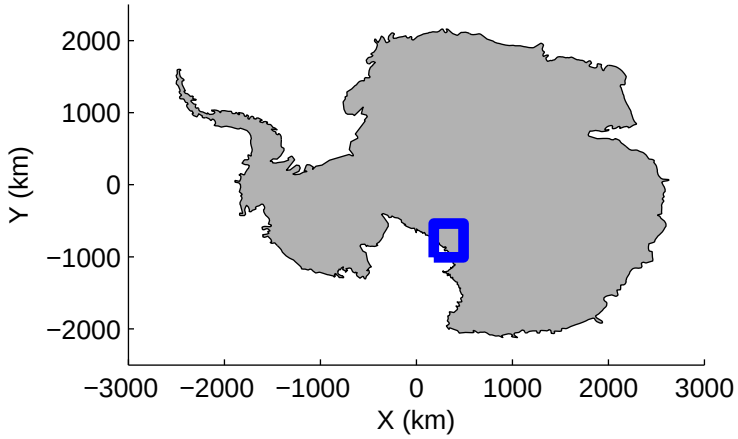

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_017: −3:59:29.6 to −2:02:28.7 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
Propagation delay (us)
4
4.5
5
5.5
6
0.00 km
83.491 S
155.092 E
4.01 km
83.526 S
155.123 E
8.00 km
83.562 S
155.155 E
distance
latitude
longitude
12.00 km
83.597 S
155.185 E
15.99 km
83.633 S
155.215 E
19.98 km
83.668 S
155.248 E

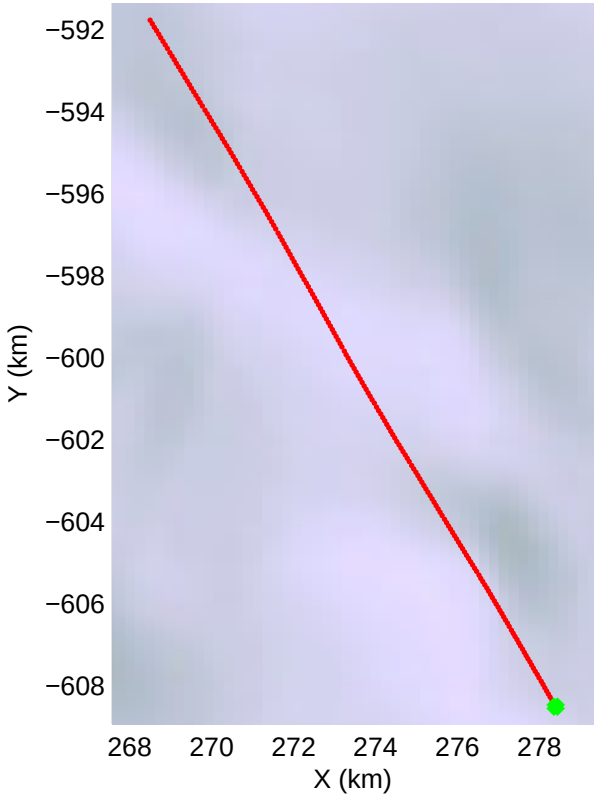

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

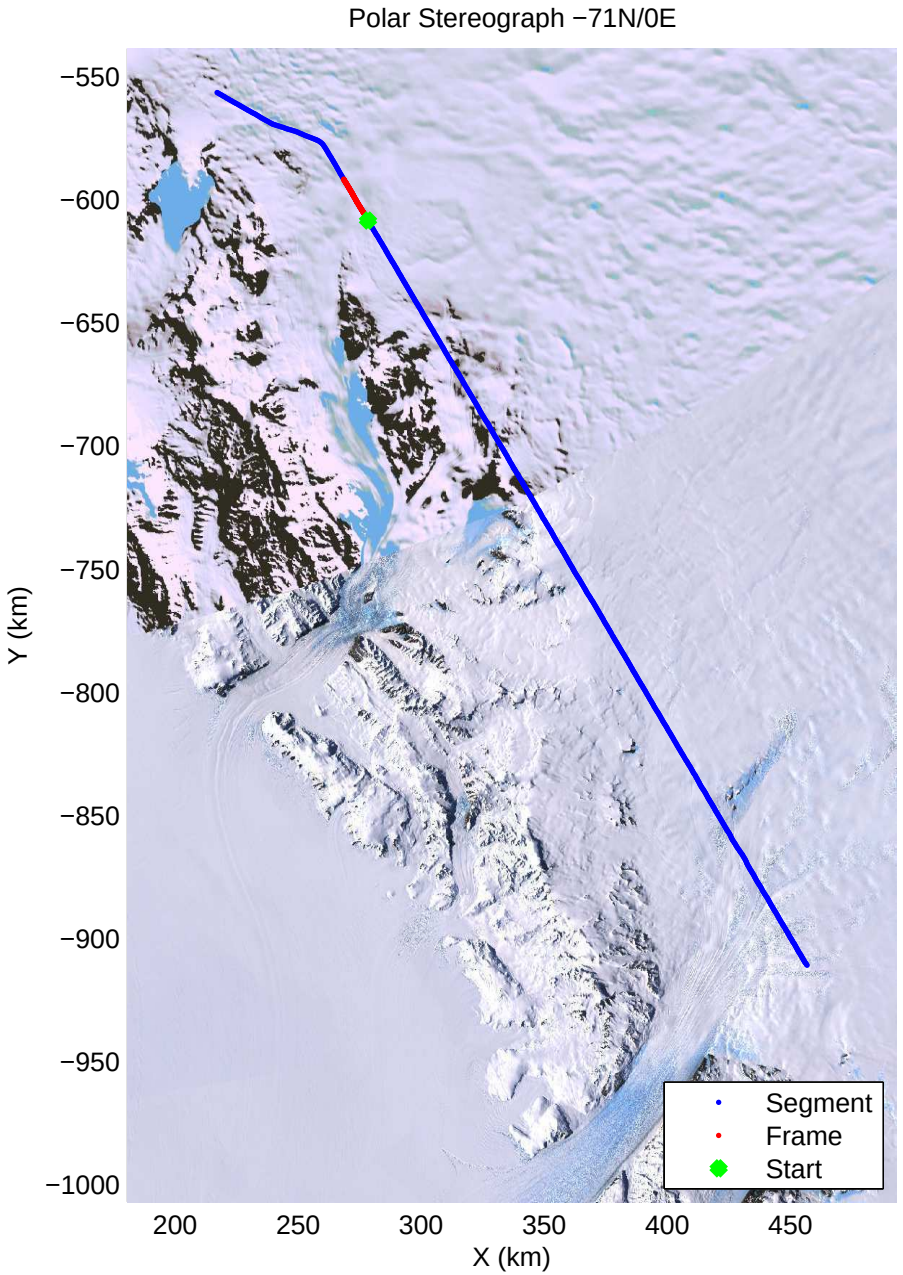

−610
−615
−620
−625
Y (km)
278
280
282
284
286
288
X (km)

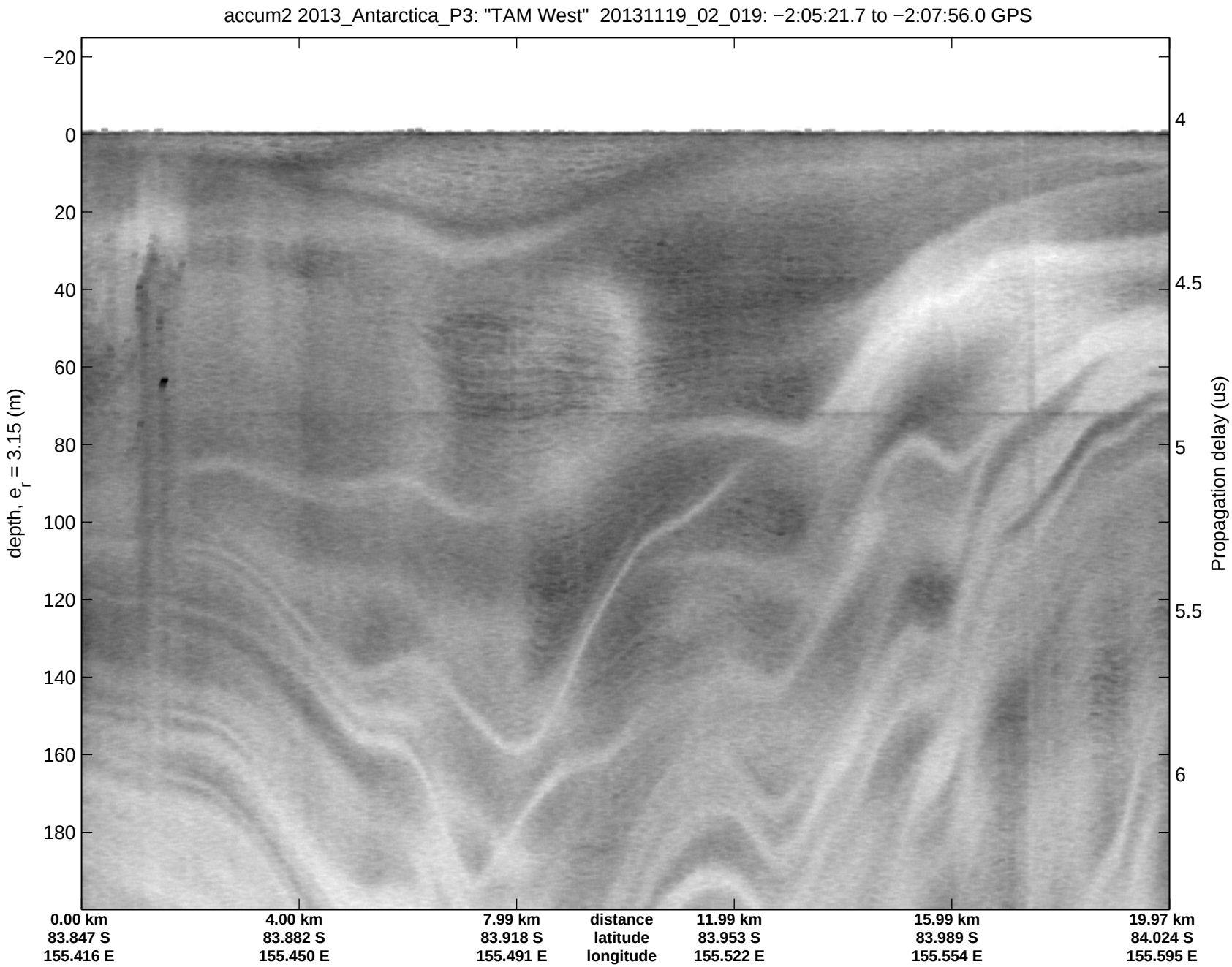

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

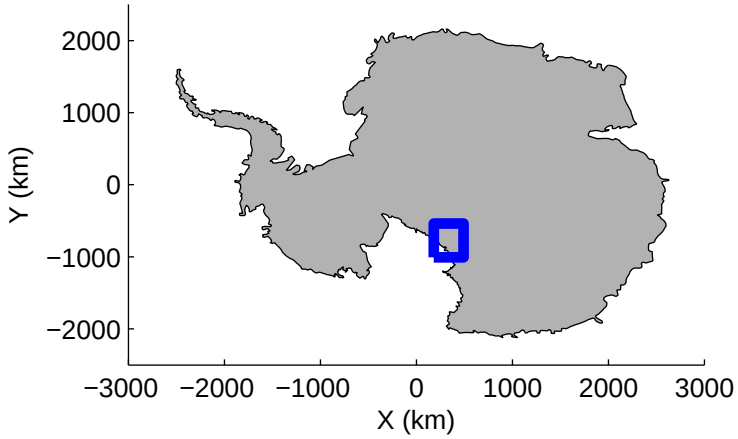

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_018: −2:02:28.8 to −2:05:21.5 GPS
−20
0
20
40
60
80
100
120
140
160
180
depth, e_r = 3.15 (m)
4
4.5
5
5.5
6
Propagation delay (us)
0.00 km
83.669 S
155.248 E
4.00 km
83.704 S
155.282 E
8.00 km
83.740 S
155.310 E
distance
latitude
longitude
11.99 km
83.775 S
155.347 E
15.99 km
83.811 S
155.384 E
19.98 km
83.846 S
155.416 E

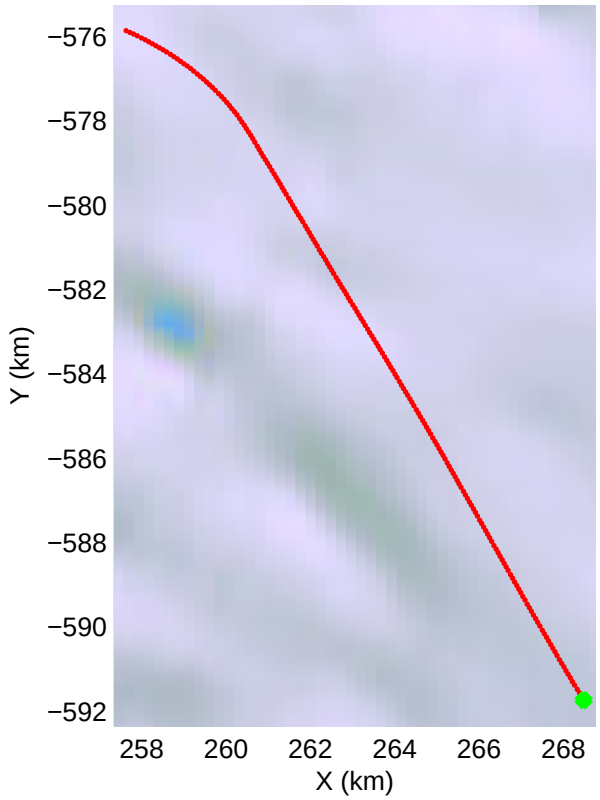

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

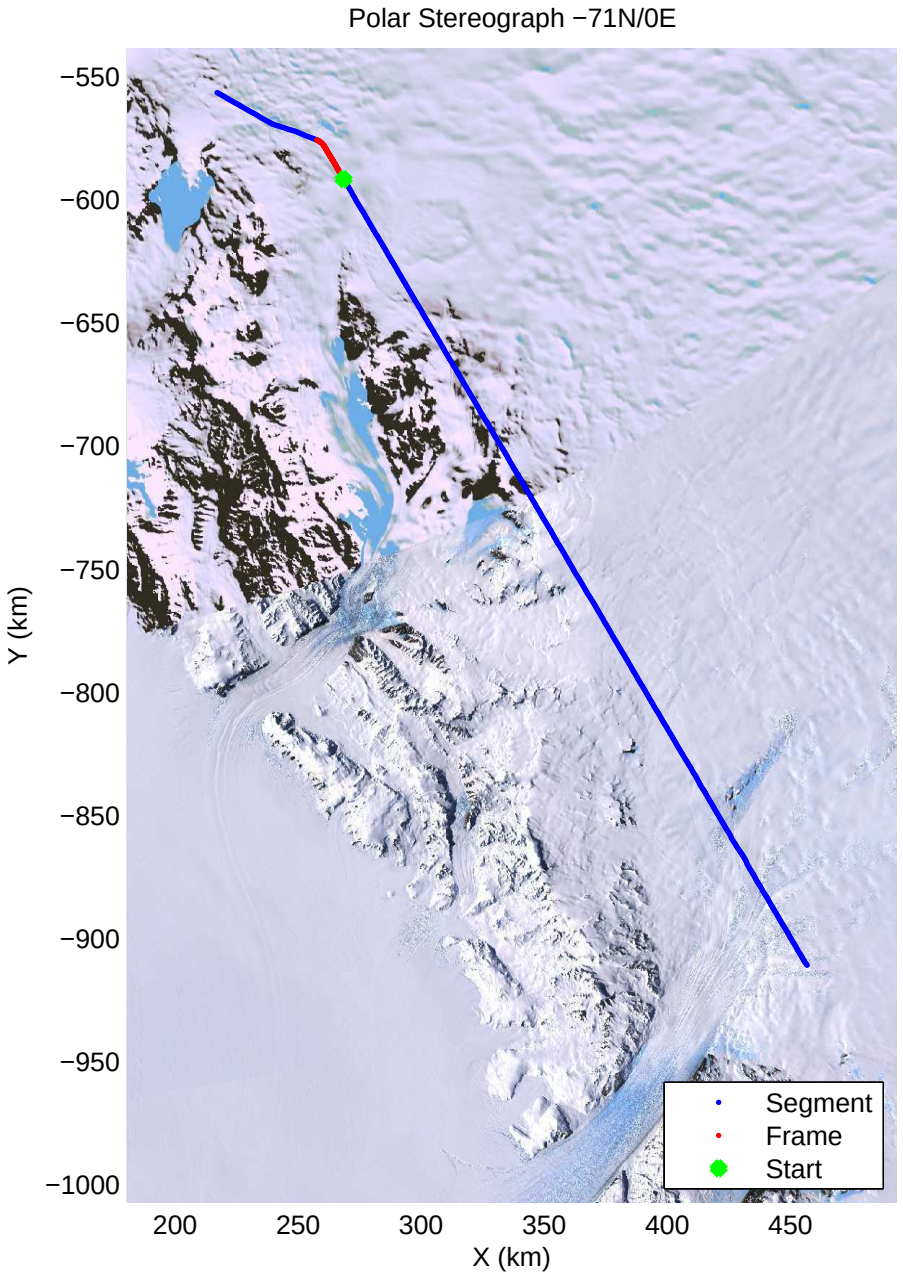

−592
−594
−596
−598
−600
−602
−604
−606
−608
Y (km)
268
270
272
274
276
278
X (km)

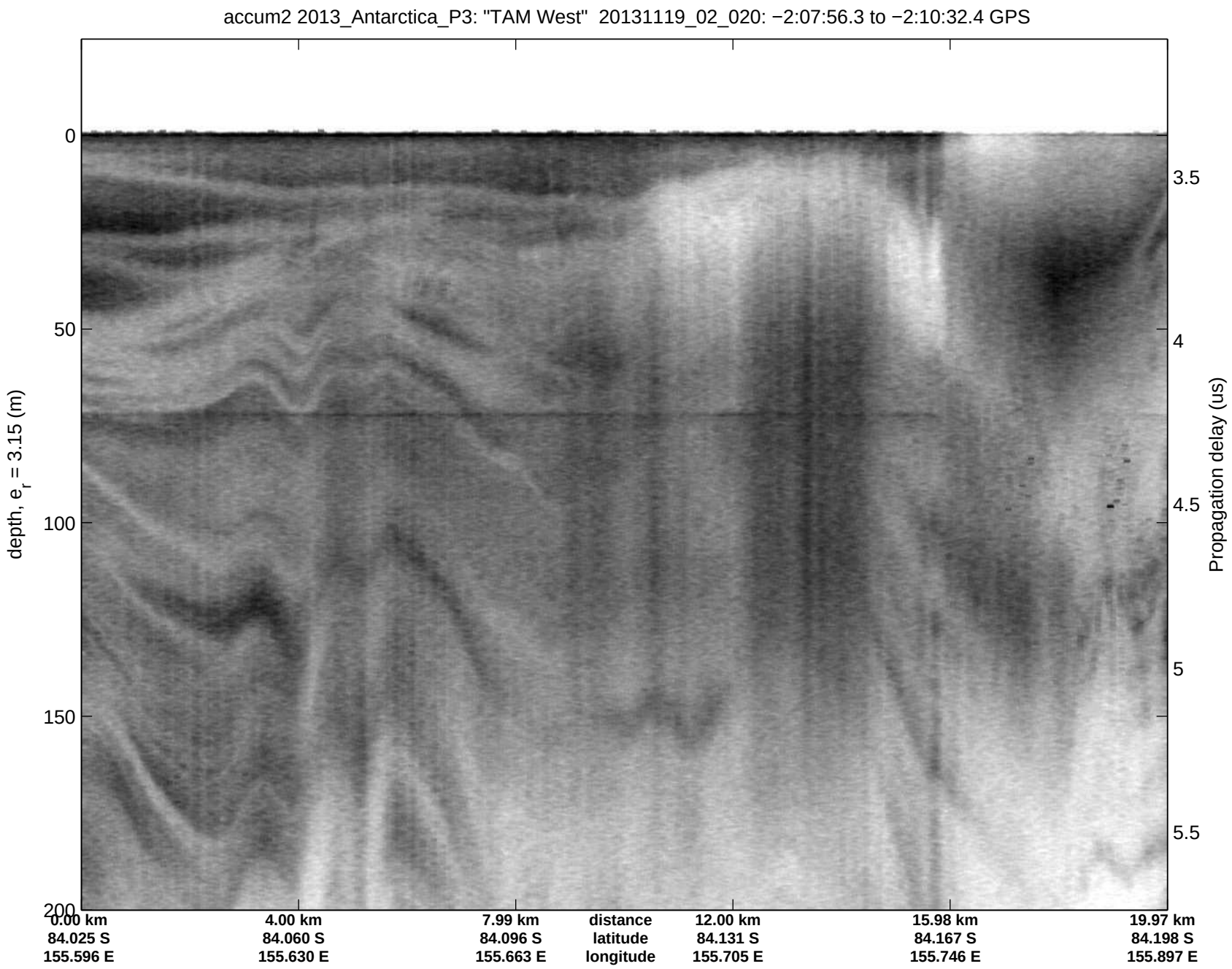

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

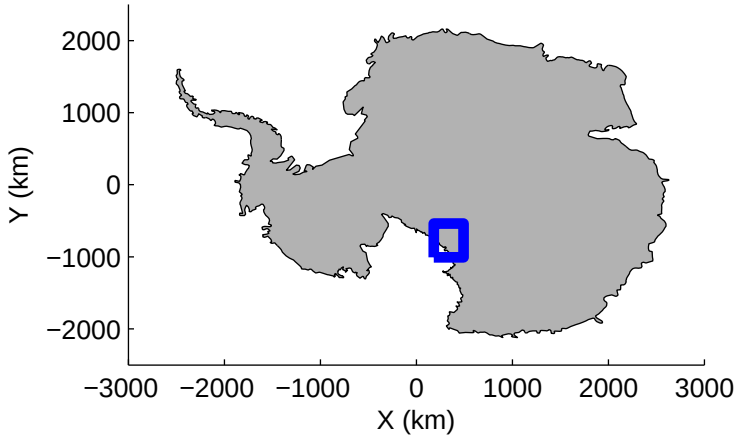

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_019: −2:05:21.7 to −2:07:56.0 GPS
−20
0
20
40
60
80
100
120
140
160
180
depth, e_r = 3.15 (m)
4
4.5
5
5.5
6
Propagation delay (us)
0.00 km
83.847 S
155.416 E
4.00 km
83.882 S
155.450 E
7.99 km
83.918 S
155.491 E
distance
latitude
longitude
11.99 km
83.953 S
155.522 E
15.99 km
83.989 S
155.554 E
19.97 km
84.024 S
155.595 E

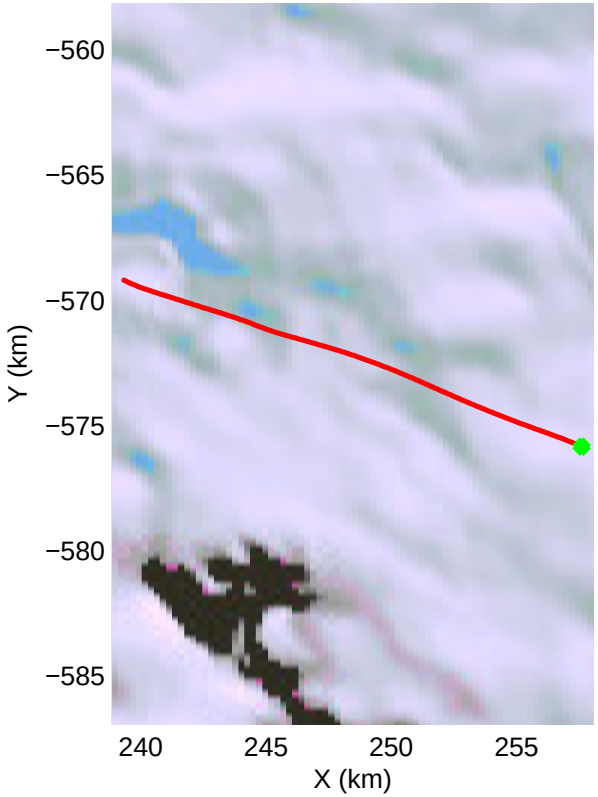

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

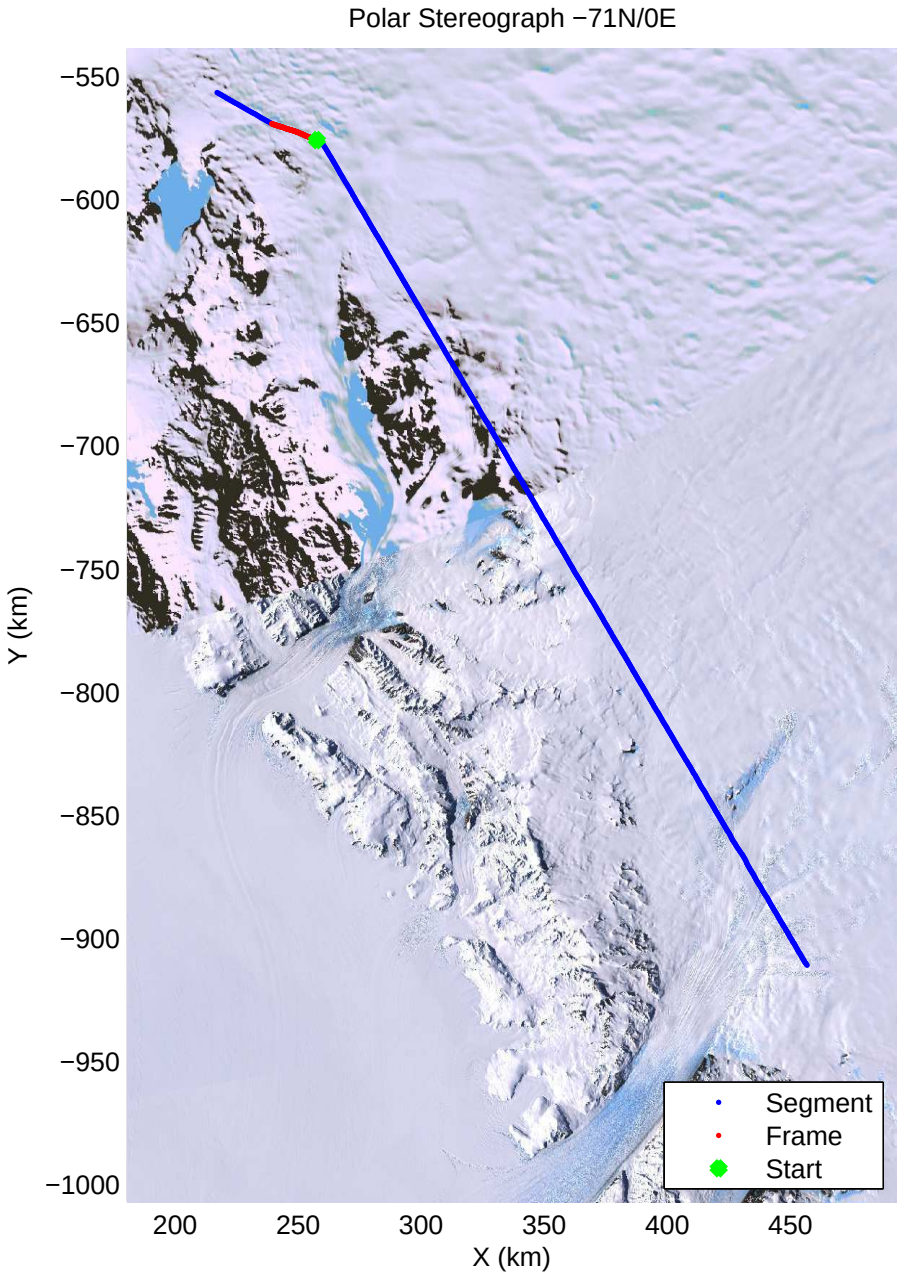

−576
−578
−580
−582
−584
−586
−588
−590
−592
Y (km)
258
260
262
264
266
268
X (km)

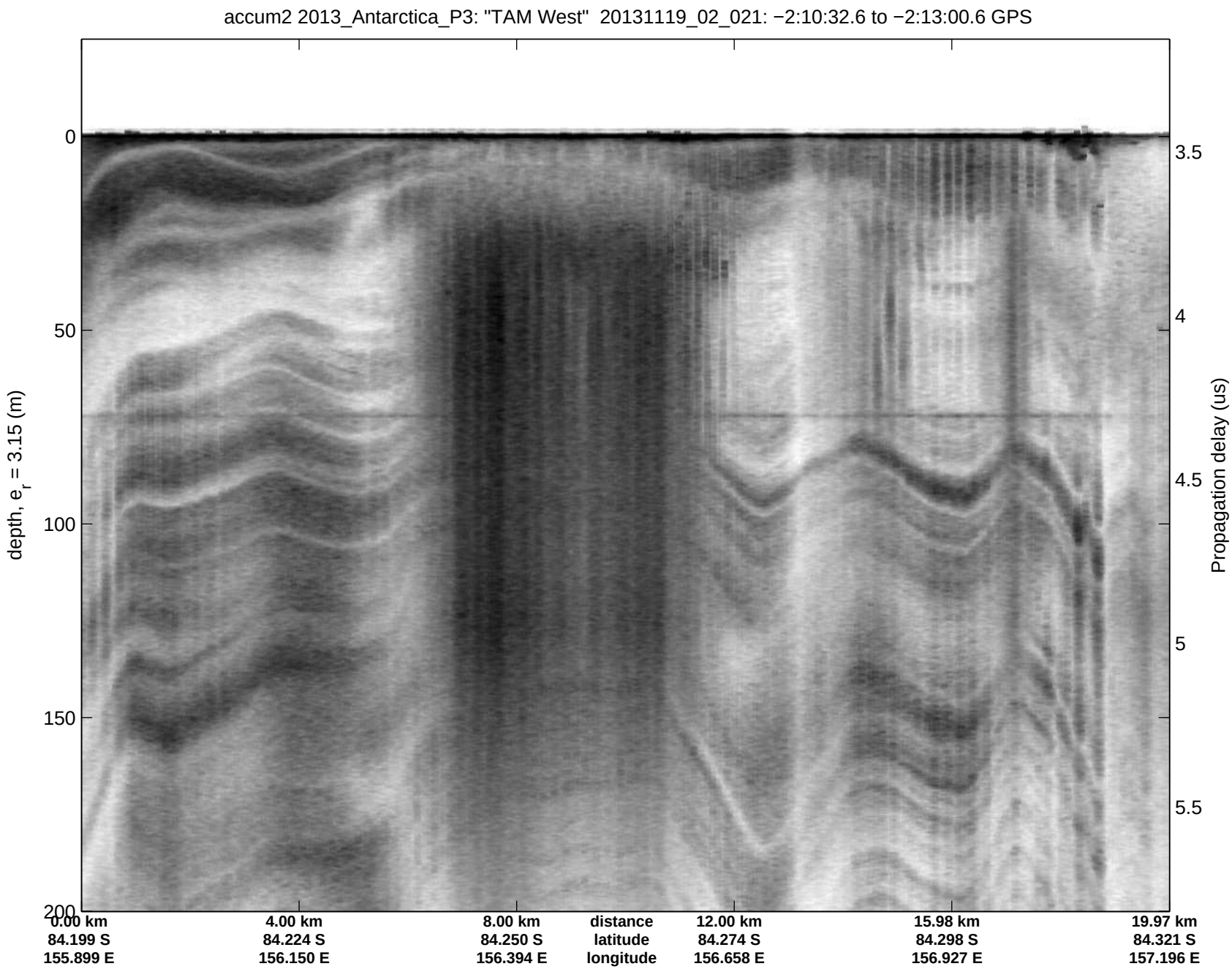

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start

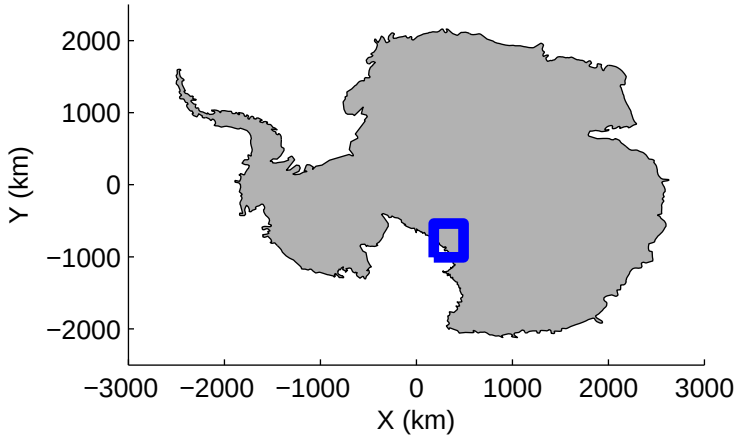

accum2 2013_Antarctica_P3: "TAM West" 20131119_02_020: −2:07:56.3 to −2:10:32.4 GPS
depth, e_r = 3.15 (m)
0
50
100
150
200
Propagation delay (us)
3.5
4
4.5
5
5.5
0.00 km
84.025 S
155.596 E
4.00 km
84.060 S
155.630 E
7.99 km
84.096 S
155.663 E
distance
latitude
longitude
12.00 km
84.131 S
155.705 E
15.98 km
84.167 S
155.746 E
19.97 km
84.198 S
155.897 E

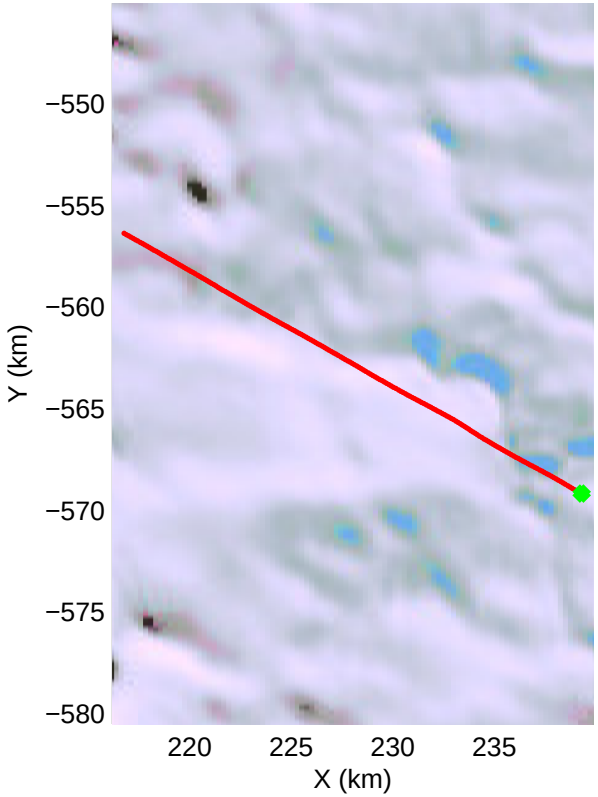

2000
1000
0
−1000
−2000
Y (km)
−3000
−2000
−1000
0
1000
2000
3000
X (km)

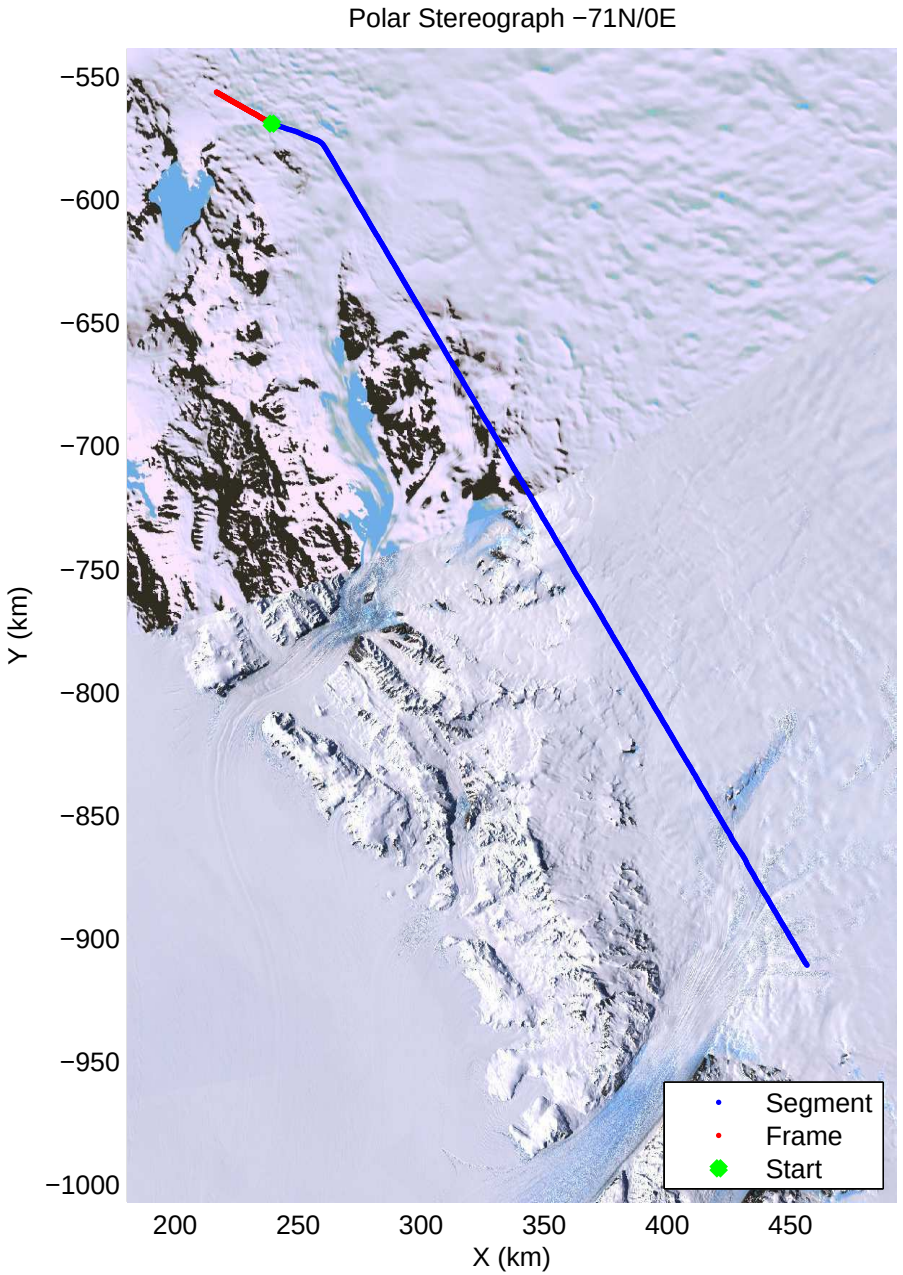

−560
−565
−570
−575
−580
−585
Y (km)
240
245
250
255
X (km)

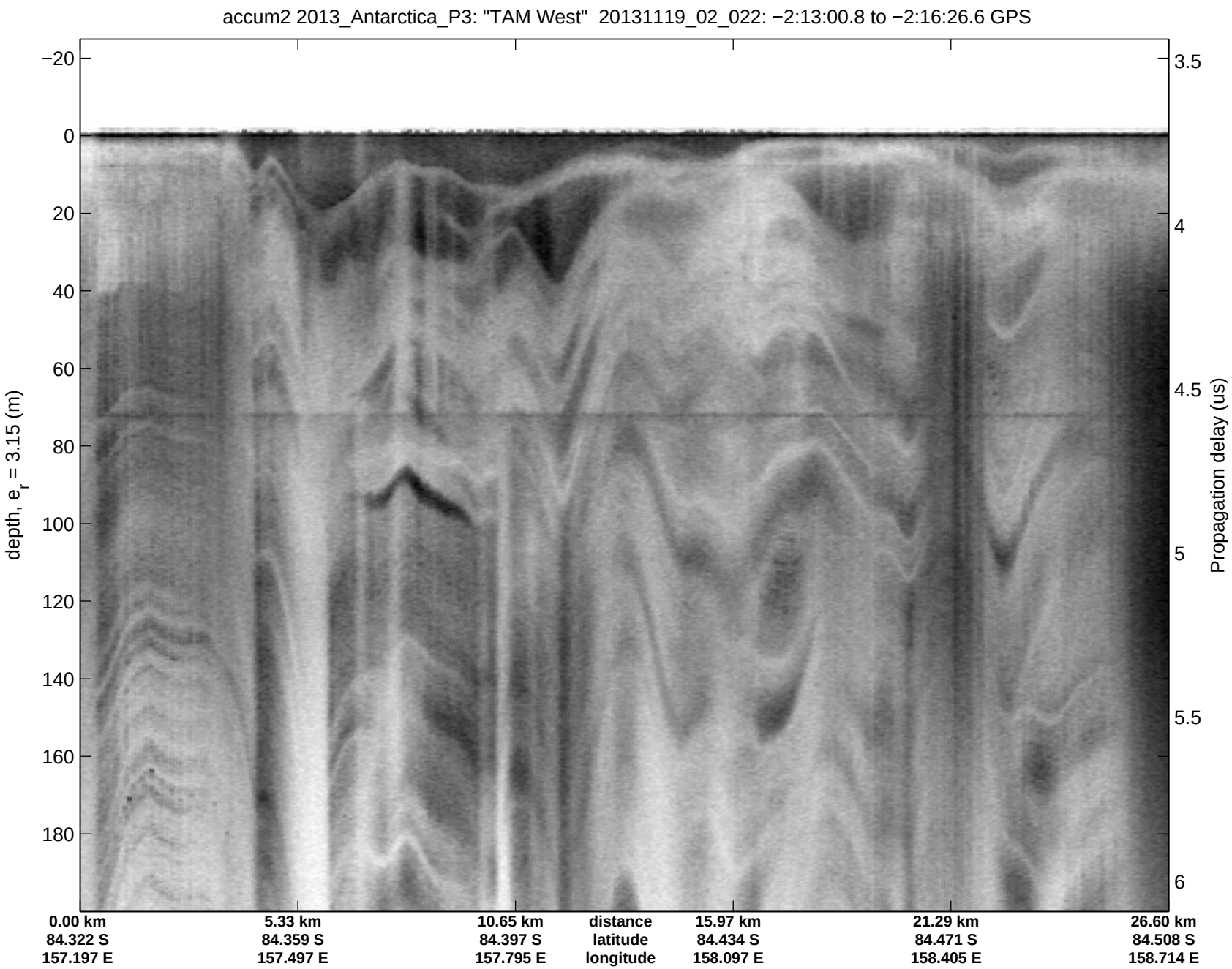

Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start


accum2 2013_Antarctica_P3: "TAM West" 20131119_02_021: −2:10:32.6 to −2:13:00.6 GPS
0
50
100
150
200
depth, e_r = 3.15 (m)
3.5
4
4.5
5
5.5
Propagation delay (us)
0.00 km
84.199 S
155.899 E
4.00 km
84.224 S
156.150 E
8.00 km
84.250 S
156.394 E
distance
latitude
longitude
12.00 km
84.274 S
156.658 E
15.98 km
84.298 S
156.927 E
19.97 km
84.321 S
157.196 E


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


−550
−555
−560
−565
−570
−575
−580
Y (km)
220
225
230
235
X (km)


Polar Stereograph −71N/0E
−550
−600
−650
−700
−750
−800
−850
−900
−950
−1000
Y (km)
200
250
300
350
400
450
X (km)
Segment
Frame
Start


accum2 2013_Antarctica_P3: "TAM West" 20131119_02_022: −2:13:00.8 to −2:16:26.6 GPS
depth, e_r = 3.15 (m)
Propagation delay (us)
−20
0
20
40
60
80
100
120
140
160
180
3.5
4
4.5
5
5.5
6
0.00 km
84.322 S
157.197 E
5.33 km
84.359 S
157.497 E
10.65 km
84.397 S
157.795 E
distance
latitude
longitude
15.97 km
84.434 S
158.097 E
21.29 km
84.471 S
158.405 E
26.60 km
84.508 S
158.714 E