

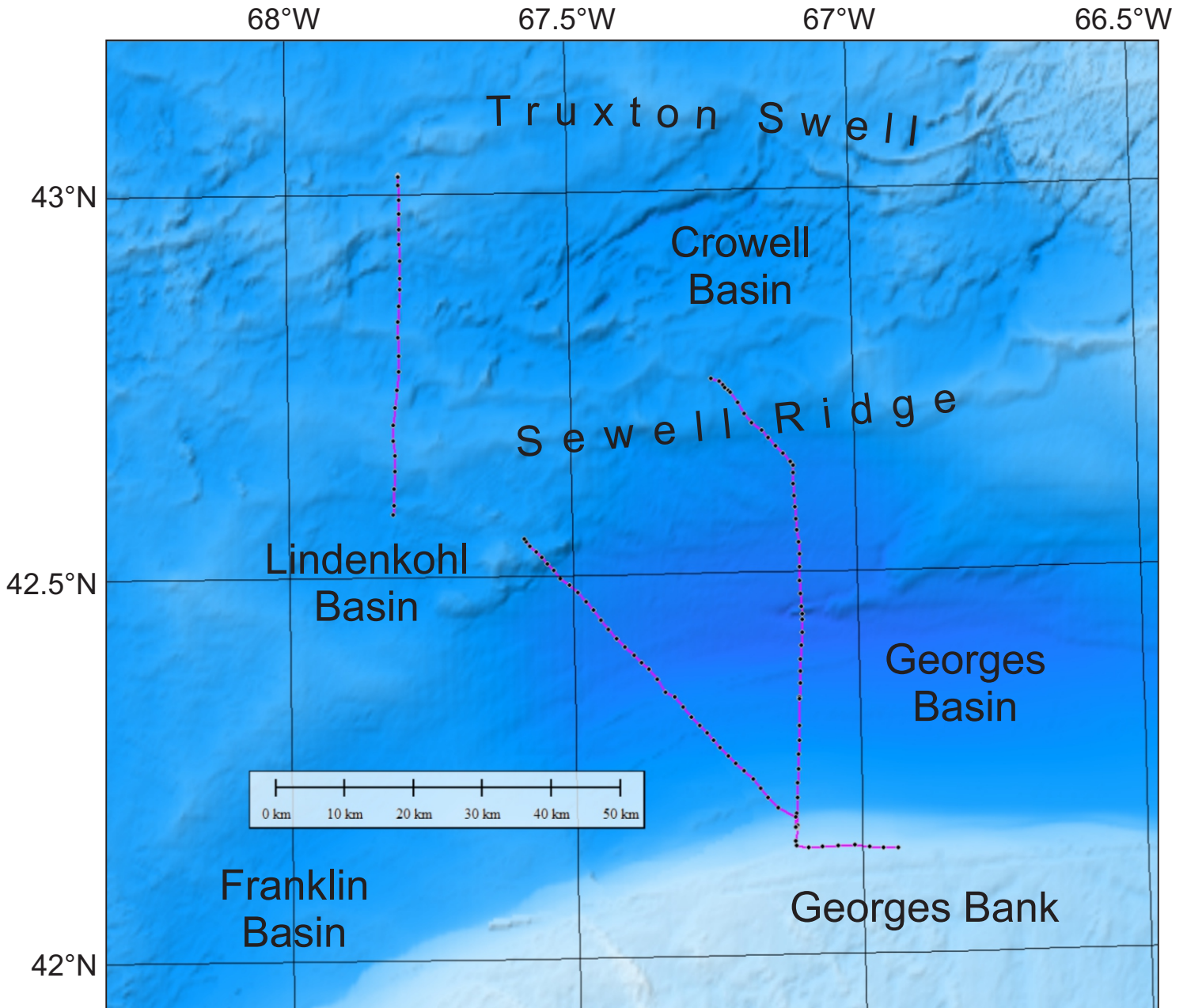
Appendix 5: 94EDWIN_LINK

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94EDWIN_LINK

Seismic profiles in the Gulf of Maine



EL-94 - University of Maine Gulf of Maine Cruise 1994

Daniel F. Belknap and Detmar Schnitker , PIs – NURP Grant
National Undersea Research Program, Avery Point, CT

In Situ Sampling of Iceberg Scours and
Outcropping Glaciomarine Sediments in the Gulf of Maine

(compiled and corrected by DFB Oct. 2021 from logs and data rolls)

R/V EDWIN LINK – Harbor Branch ; submersible **Clelia**

Depart: Gloucester, MA, 7/23/94, return 07/28/94

Scientists:	Daniel Belknap	UM – PI
	Detmar Schnitker	UM – co-PI
	Tania Bacchus	UM – PhD candidate
	Barbara Lusardi	UM – MS Candidate
	John Malone	UM – MS Candidate
	J. B. Pelletier	UM student
	Gordon Fader	BIO Senior Scientist
	Ralph Stea	Nova Scotia Dept. Natural Resources

TIME: Eastern Daylight

GPS Latitude, Longitude

July 23, 1994 - Depart Gloucester, MA, USA

July 24, 1994 - Truxton Swell

1200	Start Sidescan EL-94-01	43° 04.06'N	67° 47.43'W
1310	End Sidescan	43° 00.06'N	67° 45.08'W

Iceberg Furrows 186 m water depth

1404	Start <i>Clelia</i> dive #254	43° 01.62'N	67° 46.18'W
1549	End dive	43° 01.49'N	67° 45.92'W

Iceberg Furrows 200 m water depth

1712	Start <i>Clelia</i> dive #255	43° 02.64'N	67° 46.89'W
1851	End dive	43° 02.42'N	67° 47.28'W

Truxton Swell to Sewell Ridge

2012	Start Geopulse EL-94-02	43° 01.74'N	67° 47.83'W
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July 25, 1994

0138	End line 02	42° 34.94'N	67° 48.90'W
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0630	Start Sidescan EL-94-03	42° 53.59'N	67° 31.68'W
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0715	End line	42° 54.68'N	67° 28.11'W
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Glaciomarine outcrop on steep slope 250-300 m water depth

0741	Start <i>Clelia</i> dive #256	42° 54.28'N	67° 29.60'W
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0920	End dive	42° 54.54'N	67° 29.74'W
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Eastern Truxton Swell

1100	Start Sidescan EL-94-04	43° 02.30'N	67° 25.39'W
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1138	End line	43° 04.88'N	67° 26.77'W
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Iceberg Furrows 192 m water depth

1214	Start <i>Clelia</i> Dive #257	43° 03.04'N	67° 25.82'W
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1356	End dive	43° 03.28'N	67° 25.73'W
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Crowell Basin

1554	Start Sidescan EL-94-05	42° 46.93'N	67° 16.11'W
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1640	End line	42° 44.58'N	67° 14.78'W
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Iceberg Furrows 215 m water depth

1716	Dive scrubbed due to fog and swell conditions		
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Georges Basin to Georges Bank

1814	Start Geopulse EL-94-06	42° 45.23'N	67° 14.95'W
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* See Figure 1

July 26, 1994

0404	End line 06, Start EL-94-07	42° 08.47'N	67° 06.95'W
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0544	End line 07	42° 08.14'N	66° 56.31'W
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Georges Bank North Edge

0618	Start Sidescan EL-94-08	42° 08.16'N	66° 56.39'W
0730	End line	42° 11.47'N	6° 57.94'W

Sand Waves 174 m water depth

0755	Start <i>Clelia</i> dive #258	42° 11.06'N	66° 57.90'W
0946	End dive	42° 10.77'N	66° 58.07'W

1113	Start Sidescan EL-94-09	42° 09.21'N	67° 07.97'W
1142	End line	42° 11.20'N	67° 06.87'W

Sand Waves 140 m water depth

1230	Start <i>Clelia</i> dive #259	42° 10.64'N	67° 06.95'W
1414	End dive	42° 10.37'N	67° 07.30'W

Sand Waves 116 m water depth

1626	Start <i>Clelia</i> dive #260	42° 09.89'N	67° 07.09'W
1815	End dive	42° 10.15'N	67° 07.27'W

Georges Basin to Lindenkohl Knoll

1856	Start Geopulse EL-94-10	42° 09.90'N	67° 06.94'W
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July 27, 1994

0353	End line 10	42° 32.89'N	67° 35.10'W
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0550	Start Sidescan EL-94-11	42° 32.53'N	67° 34.92'W
0625	End line	42° 30.49'N	67° 34.69'W

Iceberg Pits and Furrows 195 m water depth

0729	Start <i>Clelia</i> dive #261	42° 31.56'N	67° 35.11'W
0913	End dive	42° 31.81'N	67° 34.76'W

Wright Swell

1057	Start Sidescan EL-94-12	42° 32.94'N	67° 52.89'W
1127	End line	42° 31.66'N	67° 52.31'W

Till and Glaciomarine outcrop 211 m water depth

1208	Start <i>Clelia</i> dive #262	42° 31.86'N	67° 52.92'W
1352	End dive	42° 32.12'N	67° 52.91'W

Stout Swell

1525	Start Sidescan EL-94-13	42° 21.50'N	67° 59.34'W
1607	End line	42° 19.26'N	68° 00.15'W

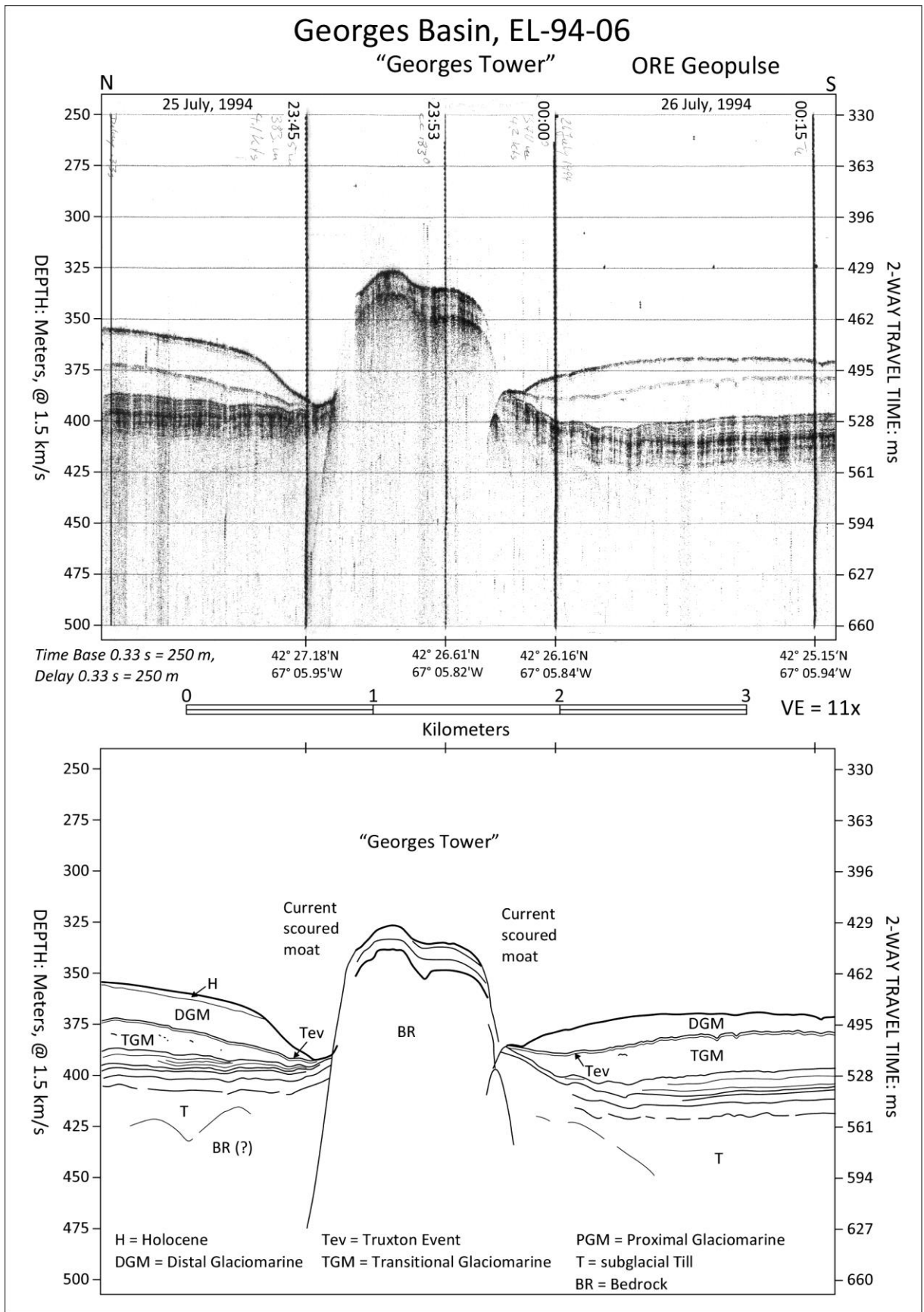
Iceberg Furrows 171 m water depth

1634	Start <i>Clelia</i> dive #263	42° 20.07'N	68° 00.05'W
1816	End dive	42° 20.20'N	68° 00.08'W

Steam overnight to Gloucester, MA

July 28, 1994

Unload in Gloucester, MA



NAVIGATION LOG - 1994									
Daniel F. Belknap and Detmar Schnitker					NURP - National Undersea Research Program				
University of Maine					UConn, Avery Point, CT			NURP-UCAP	
R/V Edwin Link and submersible Johnson Sea Link I									
Harbor Branch Foundation					Central and Southern Gulf of Maine				
ORE Geopulse lines (Sidescan sonar and submersible dives listed elsewhere)									
<i>compiled and corrected, D.F. Belknap, 2021</i>									
C = Ship's Course over ground									
SOL = Start of Line; EOL = End of Line; C/C = Course Change									
DATE	TIME:	LATITUDE			LONGITUDE			DEPTH	NOTES
	EDT	GPS			GPS		M		
07/24/94	2012	43°	1.50	'N	67°	47.89	'W	183	SOL EL-94-02 1.4 knts Truxton Swell
	2015	43°	1.45	'N	67°	47.90	'W	182	0.9 knts
	2020	43°	1.38	'N	67°	47.90	'W	184	0.8 knts
	2030	43°	0.71	'N	67°	47.93	'W	177	5.1 knts
	2045	42°	59.57	'N	67°	47.91	'W	178	3.7 knts
	2100	42°	58.48	'N	67°	47.88	'W	163	5.0 knts
	2115	42°	57.24	'N	67°	47.94	'W	174	4.5 knts
	2130	42°	56.10	'N	67°	47.93	'W	196	4.7 knts
	2145	42°	54.84	'N	67°	47.91	'W	189	4.9 knts
	2203	42°	53.41	'N	67°	47.91	'W	207	4.7 knts
	2215	42°	52.53	'N	67°	47.94	'W	211	4.6 knts Crowell Basin
	2230	42°	51.30	'N	67°	48.07	'W	206	5.2 knts
	2245	42°	50.07	'N	67°	48.13	'W	183	5.3 knts
	2300	42°	48.83	'N	67°	48.15	'W	182	5.3 knts
	2315	42°	47.38	'N	67°	48.06	'W	196	5.4 knts; C 182°
	2330	42°	46.15	'N	67°	48.14	'W	197	6.1 knts; C 180°
	2345	42°	44.71	'N	67°	48.33	'W	192	5.2 knts; C 191°

07/25/94	0000	42°	43.33	'N	67°	48.54	'W	175	5.5 knts; C 189°	Sewell Ridge	
	0015	42°	41.94	'N	67°	48.79	'W	176	5.5 knts; C 188°		
	0030	42°	40.72	'N	67°	48.79	'W	177	4.6 knts; C 168°		
	0045	42°	39.56	'N	67°	48.65	'W	175	5.3knts; C 181°		
	0100	42°	38.31	'N	67°	48.72	'W	187	5.6 knts; C 183°		
	0115	42°	36.99	'N	67°	48.78	'W	202	5.1 knts; C 182°		
	0130	42°	35.68	'N	67°	48.78	'W	225	5.9 knts; C 179°		
	0138	42°	34.94	'N	67°	48.90	'W	218	5.6 knts; C/C 034°;	Geopulse offline	
	0145	42°	35.04	'N	67°	48.30	'W	213	6.3 knts; C 042°	Lindenkohl Basin	
	0200	42°	36.29	'N	67°	47.21	'W	216	5.6 knts; C 028°		
	0215	42°	37.54	'N	67°	46.25	'W	193	5.9 knts; C 031°		
	0230	42°	38.76	'N	67°	45.35	'W	173	5.4 knts; C 034°		
	0245	42°	39.96	'N	67°	44.33	'W	167	6.0 knts; C 034°		
	0300	42°	41.20	'N	67°	43.20	'W	181	5.9 knts; C 032°		
	0313	42°	42.00	'N	67°	42.39	'W		EOL EL-94-02 - Geopulse no output after 01:38		
	1825	42°	44.94	'N	67°	14.14	'W	223	SOL EL-94-06 Crowell Basin to Georges Basin and Bank; 5.8 knts ; C 133°		
	1830	42°	44.64	'N	67°	13.74	'W	222	4.1 knts		
	1835	42°	44.46	'N	67°	13.50	'W	220	3.0 knts		
	1840	42°	44.26	'N	67°	13.19	'W	223	3.5 knts		
	1845	42°	44.08	'N	67°	12.94	'W	224	2.9 knts		
	1900	42°	43.27	'N	67°	12.20	'W	223	3.5 knts		
	1915	42°	42.40	'N	67°	11.56	'W	220	4.4 knts		
	1930	42°	41.69	'N	67°	10.75	'W	225	3.3 knts		
	1946	42°	41.05	'N	67°	9.76	'W	247	3.1 knts		
	2000	42°	40.47	'N	67°	9.01	'W	259	3.4 knts		
	2015	42°	39.81	'N	67°	8.26	'W	267	3.4 knts		

	2030	42°	39.23	'N	67°	7.54	'W	273	3.3 knts	
	2045	42°	38.56	'N	67°	6.80	'W	282	3.5 knts	
	2051	42°	38.24	'N	67°	6.49	'W	286	3.0 knts; SIGNIFICANT C/C to 178°, same line #	
	2100	42°	37.70	'N	67°	6.53	'W	288	4.1 knts	
	2115	42°	36.80	'N	67°	6.47	'W	291	3.4 knts	
	2130	42°	35.86	'N	67°	6.40	'W	298	3.6 knts	
	2145	42°	34.99	'N	67°	6.36	'W	300	2.9 knts	
	2200	42°	34.08	'N	67°	6.29	'W	306	3.3 knts	
	2215	42°	33.21	'N	67°	6.22	'W	316	3.5 knts, C 173°	
	2230	42°	32.28	'N	67°	6.07	'W	322	4.1 knts	
	2245	42°	31.33	'N	67°	6.03	'W	330	4.1 knts	
	2300	42°	30.32	'N	67°	6.00	'W	335	4.1 knts	
	2315	42°	29.24	'N	67°	6.03	'W	340	3.7 knts, C 180°	
	2330	42°	28.22	'N	67°	5.98	'W	346	4.2 knts	
	2345	42°	27.18	'N	67°	5.95	'W	384	4.1 knts, C 181° Near greatest depth Gulf of Maine	
	2353	42°	26.61	'N	67°	5.82	'W	332	4.3 knts, C/C 183° "Georges Tower"	
07/26/94	0000	42°	26.16	'N	67°	5.84	'W	370	4.2 knts	
	0015	42°	25.15	'N	67°	5.94	'W	365	3.8 knts, C 183°	
	0030	42°	24.15	'N	67°	6.01	'W	367	4.0 knts, C 186°	
	0045	42°	23.11	'N	67°	6.12	'W	343	3.4 knts, C 183°	
	0100	42°	22.14	'N	67°	6.14	'W	327	3.6 knts, C 176°	
	0115	42°	21.21	'N	67°	6.22	'W	324	3.9 knts, C 183°	
	0130	42°	20.13	'N	67°	6.29	'W	305	4.4 knts, C 189°	
	0145	42°	19.99	'N	67°	6.30	'W	298	4.6 knts, C 184°	
	0200	42°	17.85	'N	67°	6.37	'W	287	4.6 knts	
	0215	42°	16.75	'N	67°	6.40	'W	269	4.4 knts, C 187°	
	0230	42°	15.62	'N	67°	6.53	'W	245	4.5 knts, C 187°	
	0245	42°	14.48	'N	67°	6.58	'W	220	4.3 knts, C 178°	

	0300	42°	13.37	'N	67°	6.70	'W	209	4.9 knts, C 183°	
	0315	42°	12.22	'N	67°	6.75	'W	191	4.7 knts, C 187°	
	0330	42°	11.02	'N	67°	6.86	'W	116		
	0342	42°	10.06	'N	67°	6.85	'W	108		
	0345	42°	9.86	'N	67°	6.86	'W	113		
	0400	42°	8.83	'N	67°	7.03	'W	84	4.5 knts, C 185° Georges Bank	
	0404.7	42°	8.47	'N	67°	6.95	'W	75	EOL EL-94-06, SOL EL-94-07 C/C 090°	
	0415	42°	8.34	'N	67°	5.73	'W	66		
	0430	42°	8.39	'N	67°	4.21	'W	72		
	0445	42°	8.44	'N	67°	2.58	'W	74		
	0500	42°	8.44	'N	67°	0.90	'W	74		
	0515	42°	8.30	'N	66°	59.28	'W	72		
	0530	42°	8.18	'N	66°	57.81	'W	70		
	0544	42°	8.14	'N	66°	56.31	'W	71	EOL EL-94-07 Georges Bank	
	0549								Geopulse on deck	
	1856	42°	9.90	'N	67°	6.94	'W	114	SOL EL-94-10 Georges Bank to W. Georges Basin	
	1858	42°	9.93	'N	67°	6.97	'W	116	gear deployed at starting point	
	1900	42°	9.97	'N	67°	7.07	'W	117	2.6 knts, C 318°	
	1915	42°	10.73	'N	67°	7.03	'W	149	4.4 knts	
	1930	42°	11.50	'N	67°	8.84	'W	182	3.6 knts	
	1945	42°	12.29	'N	67°	9.85	'W	187	4.0 knts	
	2000	42°	13.04	'N	67°	10.64	'W	203	3.7 knts	
	2015	42°	13.75	'N	67°	11.43	'W	215	3.6 knts	
	2030	42°	14.40	'N	67°	12.32	'W	218	3.6 knts	
	2045	42°	15.00	'N	67°	13.16	'W	236	3.7 knts	
	2100	42°	15.65	'N	67°	13.97	'W	256	3.6 knts	
	2115	42°	16.28	'N	67°	14.79	'W	264	2.9 knts	

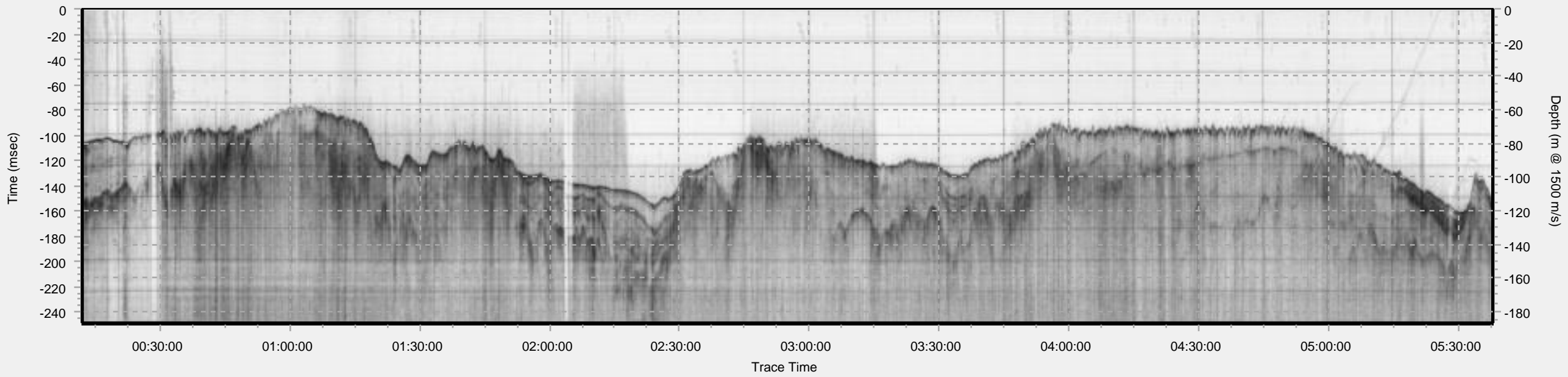
	2130	42°	16.85	'N	67°	15.52	'W	271	3.5 knts	
	2145	42°	17.43	'N	67°	16.17	'W	279	3.1 knts	
	2200	42°	18.02	'N	67°	16.93	'W	285	4.2 knts	
	2215	42°	18.70	'N	67°	17.78	'W	289	3.9 knts	
	2230	42°	19.49	'N	67°	18.65	'W	294	3.8 knts	
	2245	42°	20.32	'N	67°	19.53	'W	300	3.8 knts	
	2300	42°	20.70	'N	67°	20.46	'W	316	3.5 knts	
	2315	42°	21.74	'N	67°	21.34	'W	328	3.7 knts	
	2330	42°	22.50	'N	67°	22.19	'W	333	3.4 knts	
	2345	42°	23.06	'N	67°	22.96	'W	334	3.4 knts	axis of W. Georges Basin
07/27/94	0000	42°	23.66	'N	67°	23.73	'W	330	3.4 knts	
	0015	42°	24.29	'N	67°	24.61	'W	330	3.7 knts	
	0030	42°	24.96	'N	67°	25.54	'W	325	4.1 knts	
	0045	42°	25.72	'N	67°	26.40	'W	320	3.7 knts	
	0100	42°	26.44	'N	67°	27.16	'W	315	3.8 knts, C 326°	
	0115	42°	27.27	'N	67°	27.86	'W	307	4.0 knts	
	0130	42°	27.93	'N	67°	28.69	'W	300	3.6 knts, C 318°	
	0145	42°	28.64	'N	67°	29.53	'W	289	3.6 knts	
	0200	42°	29.22	'N	67°	30.41	'W	287	3.7 knts, C 313°	
	0215	42°	29.77	'N	67°	31.39	'W	278	3.5 knts	
	0230	42°	30.37	'N	67°	32.01	'W	267	3.1 knts, C 318°	
	0245	42°	30.94	'N	67°	32.67	'W	247	2.8 knts, C 322°	
	0300	42°	31.43	'N	67°	33.27	'W	220	2.7 knts	
	0315	42°	31.87	'N	67°	33.87	'W	196	2.7 knts	
	0330	42°	32.31	'N	67°	34.48	'W	204	2.5 knts, C 331°	
	0345	42°	32.70	'N	67°	34.86	'W	218	2.0 knts	Lindenkohl Knoll
	0353	42°	32.89	'N	67°	35.10	'W	216	1.5 knts	EOL EL-94-10

Year	Day of Year	Hour	Minute	Second	Latitude	Longitude	Pen 1 down 0 up	Comment
1994	206	0	12	0	43.0250000	-67.7981667	1	Start Line Geopulse EL-94-02
1994	206	0	15	0	43.0241667	-67.7983333		
1994	206	0	20	0	43.0230000	-67.7983333		
1994	206	0	30	0	43.0118333	-67.7988333		
1994	206	0	45	0	42.9928333	-67.7985000		
1994	206	1	0	0	42.9746667	-67.7980000		
1994	206	1	15	0	42.9540000	-67.7990000		
1994	206	1	30	0	42.9350000	-67.7988333		
1994	206	1	45	0	42.9140000	-67.7985000		
1994	206	2	3	0	42.8901667	-67.7985000		
1994	206	2	15	0	42.8755000	-67.7990000		
1994	206	2	30	0	42.8550000	-67.8011667		
1994	206	2	45	0	42.8345000	-67.8021667		
1994	206	3	0	0	42.8138333	-67.8025000		
1994	206	3	15	0	42.7896667	-67.8010000		
1994	206	3	30	0	42.7691667	-67.8023333		
1994	206	4	45	0	42.7451667	-67.8055000		
1994	206	4	0	0	42.7221667	-67.8090000		
1994	206	4	15	0	42.6990000	-67.8131667		
1994	206	4	30	0	42.6786667	-67.8131667		
1994	206	4	45	0	42.6593333	-67.8108333		
1994	206	5	0	0	42.6385000	-67.8120000		
1994	206	5	15	0	42.6165000	-67.8130000		
1994	206	5	30	0	42.5946667	-67.8130000		
1994	206	5	38	0	42.5823333	-67.8150000	0	End Line Geopulse EL-94-02
1994	206	22	14	0	42.7538333	-67.2491666	1	Start Line Geopulse EL-94-06
1994	206	22	25	0	42.7490000	-67.2356667		
1994	206	22	30	0	42.7440000	-67.2290000		
1994	206	22	35	0	42.7410000	-67.2250000		
1994	206	22	40	0	42.7376667	-67.2198333		
1994	206	22	45	0	42.7346667	-67.2156667		
1994	206	23	0	0	42.7211667	-67.2033333		
1994	206	23	15	0	42.7066667	-67.1926667		
1994	206	23	30	0	42.6948333	-67.1791667		
1994	206	23	46	0	42.6841667	-67.1626667		
1994	207	0	0	0	42.6745000	-67.1501667		
1994	207	0	15	0	42.6635000	-67.1376667		
1994	207	0	30	0	42.6538333	-67.1256667		
1994	207	0	45	0	42.6426667	-67.1133333		
1994	207	0	51	0	42.6373333	-67.1081667		
1994	207	1	0	0	42.6283333	-67.1088333		
1994	207	1	15	0	42.6133333	-67.1078333		
1994	207	1	30	0	42.5976667	-67.1066667		
1994	207	1	45	0	42.5831667	-67.1060000		
1994	207	2	0	0	42.5680000	-67.1048333		
1994	207	2	15	0	42.5535000	-67.1036667		
1994	207	2	30	0	42.5380000	-67.1011667		
1994	207	2	45	0	42.5221667	-67.1005000		
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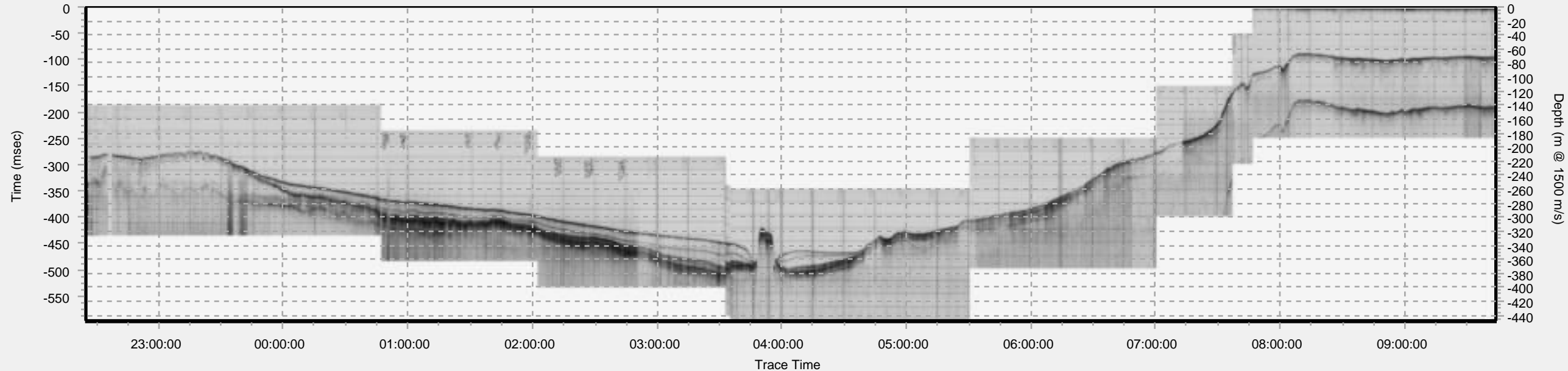
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1994	207	7	45	0	42.1643333	-67.1143333		
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1994	207	8	4	0	42.1411667	-67.1158333		End Line Geopulse EL-94-06 Start Line Geopulse EL-94-07
1994	207	8	15	0	42.1390000	-67.0955000		
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1994	207	9	0	0	42.1406667	-67.0150000		
1994	207	9	15	0	42.1383333	-66.9880000		
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1994	207	9	44	0	42.1356667	-66.9385000	0	End Line Geopulse EL-94-07
1994	207	22	56	0	42.1650000	-67.1156667	1	Start Line Geopulse EL-94-010
1994	207	22	58	0	42.1655000	-67.1161667		
1994	207	23	0	0	42.1661667	-67.1178333		
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1994	208	0	0	0	42.2173333	-67.1773333		
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1994	208	6	45	0	42.5156667	-67.5445000		
1994	208	7	0	0	42.5238333	-67.5545000		
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1994	208	7	45	0	42.5450000	-67.5810000		
1994	208	7	53	0	42.5481667	-67.5850000	0	End Line Geopulse EL-94-010

SEISMIC DATA INVENTORY					
GULF OF MAINE		<i>R/V Edwin Link</i>		CRUISE EL-1994	
University of Maine		<i>Compiled by Daniel F. Belknap, 2021</i>			
ROLL number	Subroll	Tracklines	Date	Time (EDT)	Location
ORE Geopulse - 9" Rolls			1994		
Roll - 01	1994	EL-94-02	07/24/94	20:12 to	Truxton Swell - Crowell Basin -
			07/25/94	01:38	Sewell Ridge - Lindenkohl Basin N-S
Roll - 02	1994	EL-94-06	07/25/94	18:25 to	Georges Basin NNW - SSE C/C at 20:51
			07/26/94	04:05	Georges Basin - Georges Bank N - S
					NOTE: "Georges Tower" at 23:53
		EL-94-07	07/26/94	04:05 - 05:44	Georges Bank W - E
Roll - 03	1994	EL-94-10	07/26/94	18:58 to	Georges Bank - Georges Basin -
			07/27/94	03:53	Lindenkohl Knoll SE - NW

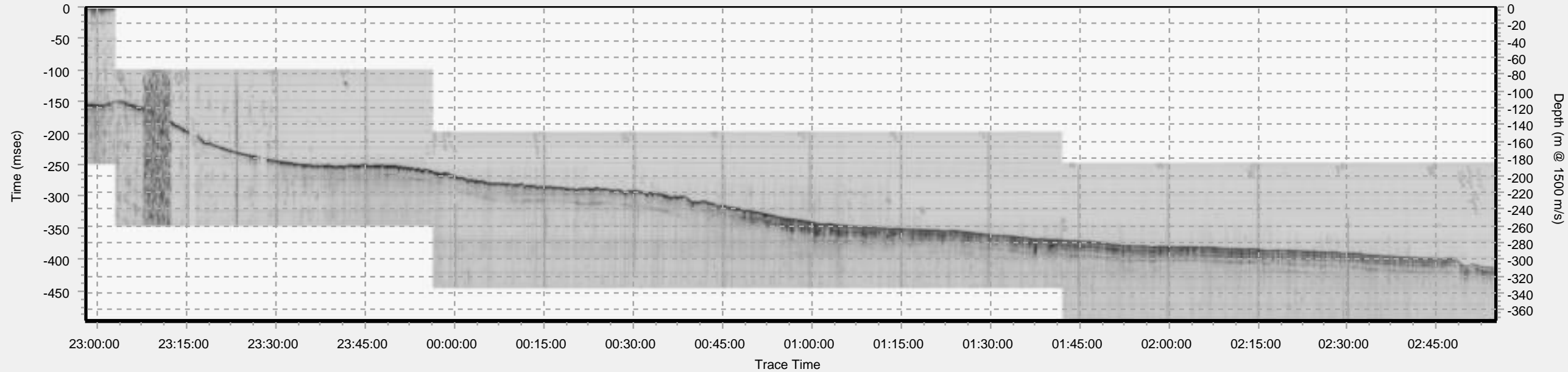
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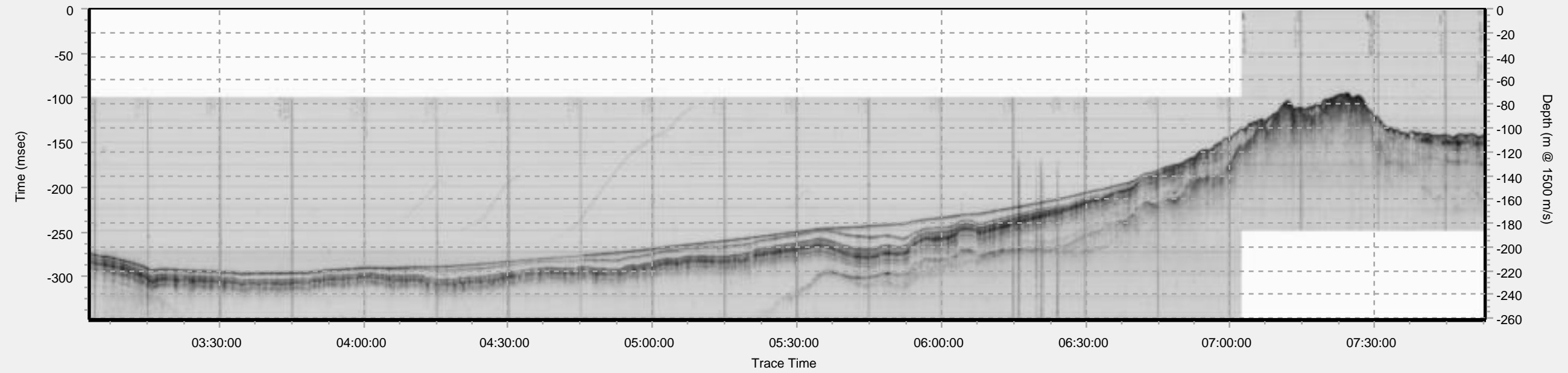
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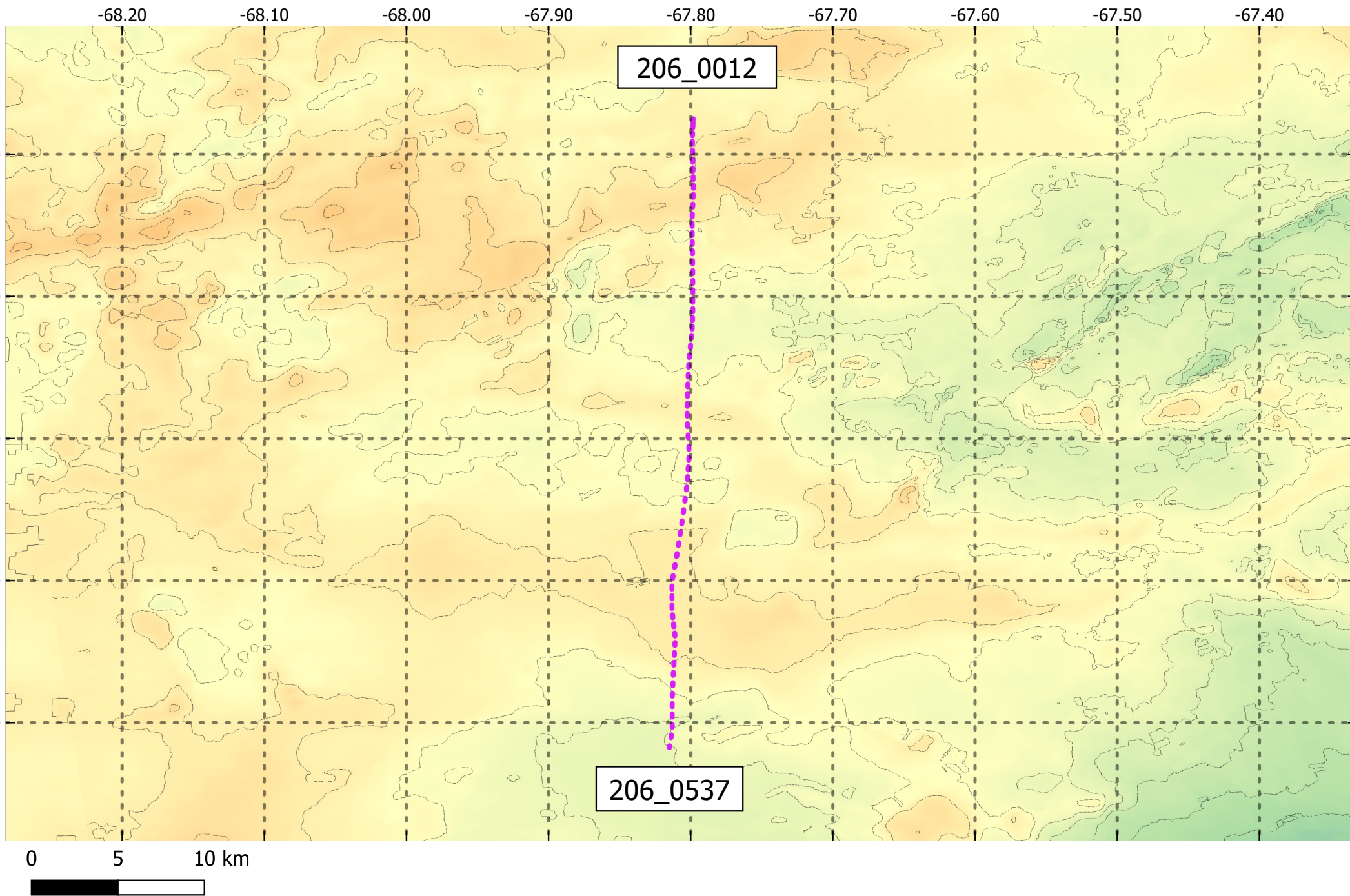
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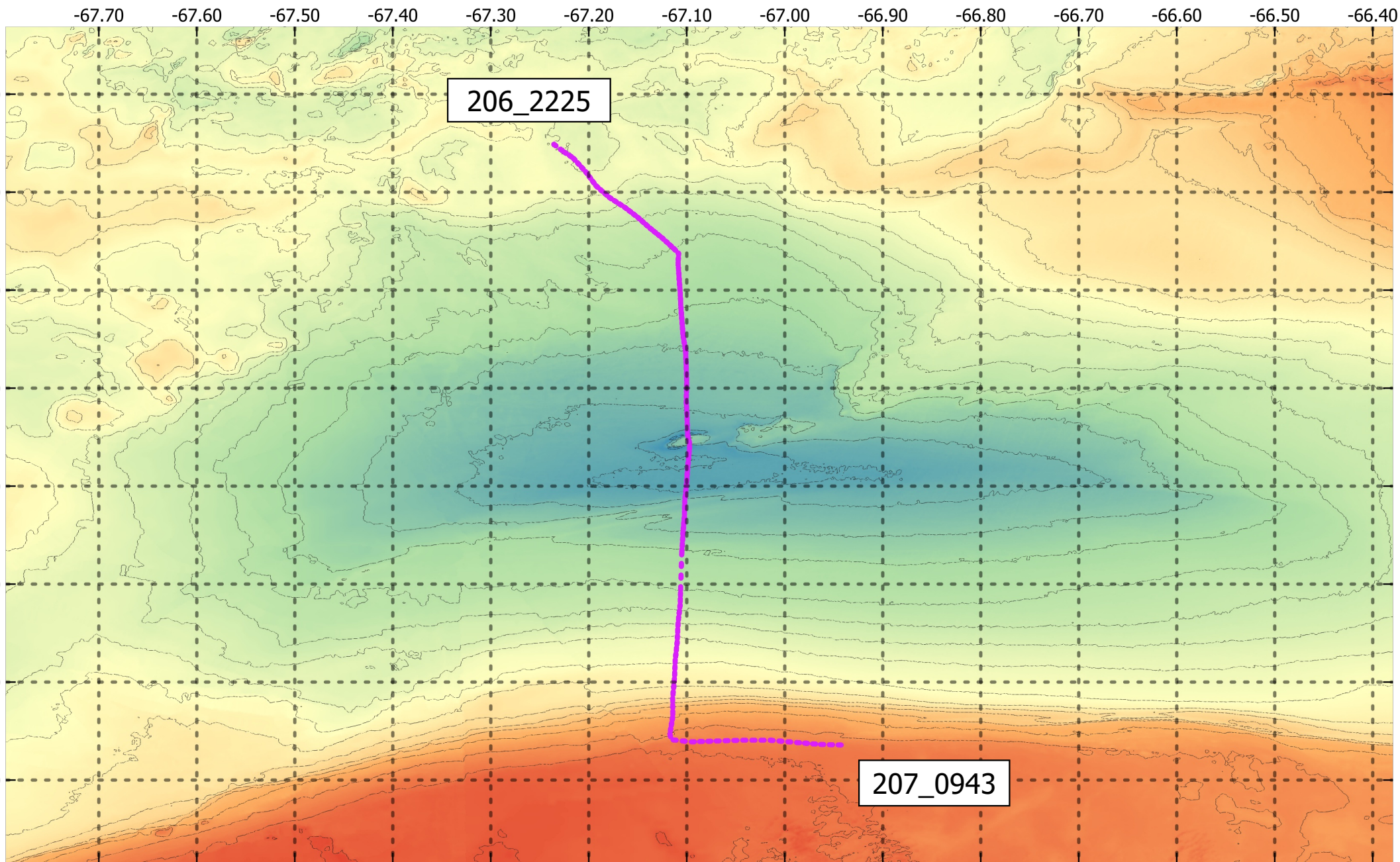
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94EDWIN_LINK_ORE_SEISMIC_GEOPULSE_206_2225_to_207_0943



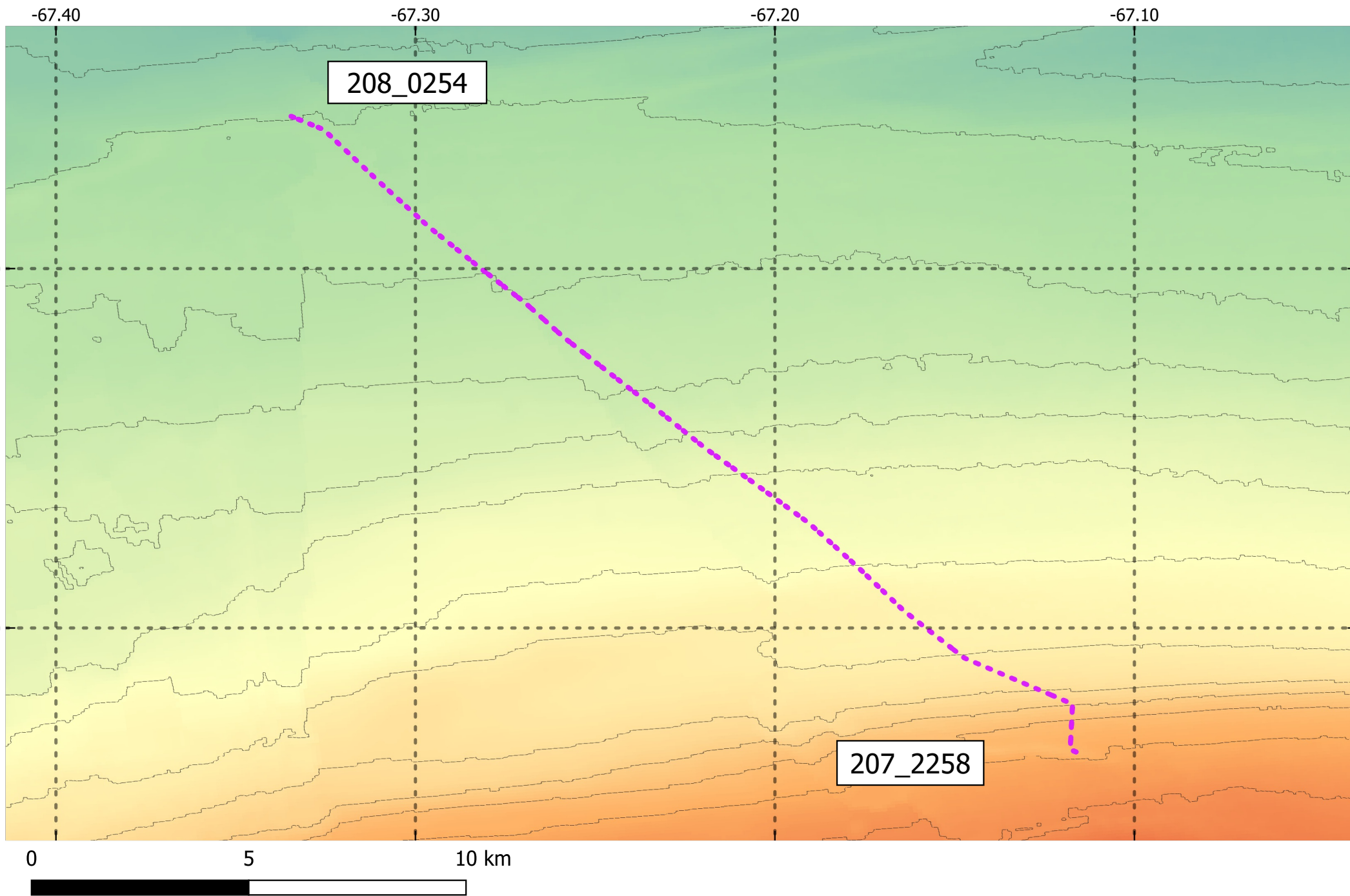
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207_0943

0 5 10 km



94EDWIN_LINK_ORE_SEISMIC_GEOPULSE_207_2258_to_208_0254



94EDWIN_LINK_ORE_SEISMIC_GEOPULSE_208_0303_to_208_0752

