

Assessment Report

551 FR.

Grant N° YC94522

Mayo Mining Division, Yukon Territory

NTS Map sheet 105M 14

63° 587" North Latitude 135° 12' West Longitude

By

D. N. Moraal

Owner/Operator

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Introduction

The 551 FR claim is a re-staking of the historic Caravan mineral claim which was legally surveyed and given the official designation of lot 551. This claim is a long and narrow plot which stood ignored despite the recent upswing in interest in the Keno Hill area. Its proximity to the Onek vein system was one of the reasons for acquiring the claim.

Property location and access

The 551 FR claim is situated on the South West flank of Keno Hill, adjacent the old Keno Hill mine haul road at an elevation of about 1100 metres. Keno Hill is accessed via an all weather well maintained dirt road from Mayo, Y.T. to historical Keno City at the base of the mountain. Mayo is a bit more than 400 Km from Whitehorse, Yukon, via a paved road. From Keno City the summer only unused mine haul road leads to the mountain summit.

Table 1. 551 FR claim post GPS locations.

Post #1	0485922 mE	7087850 mN	NAD 83
Post #2	0486170 mE	7088060 mN	NAD 83

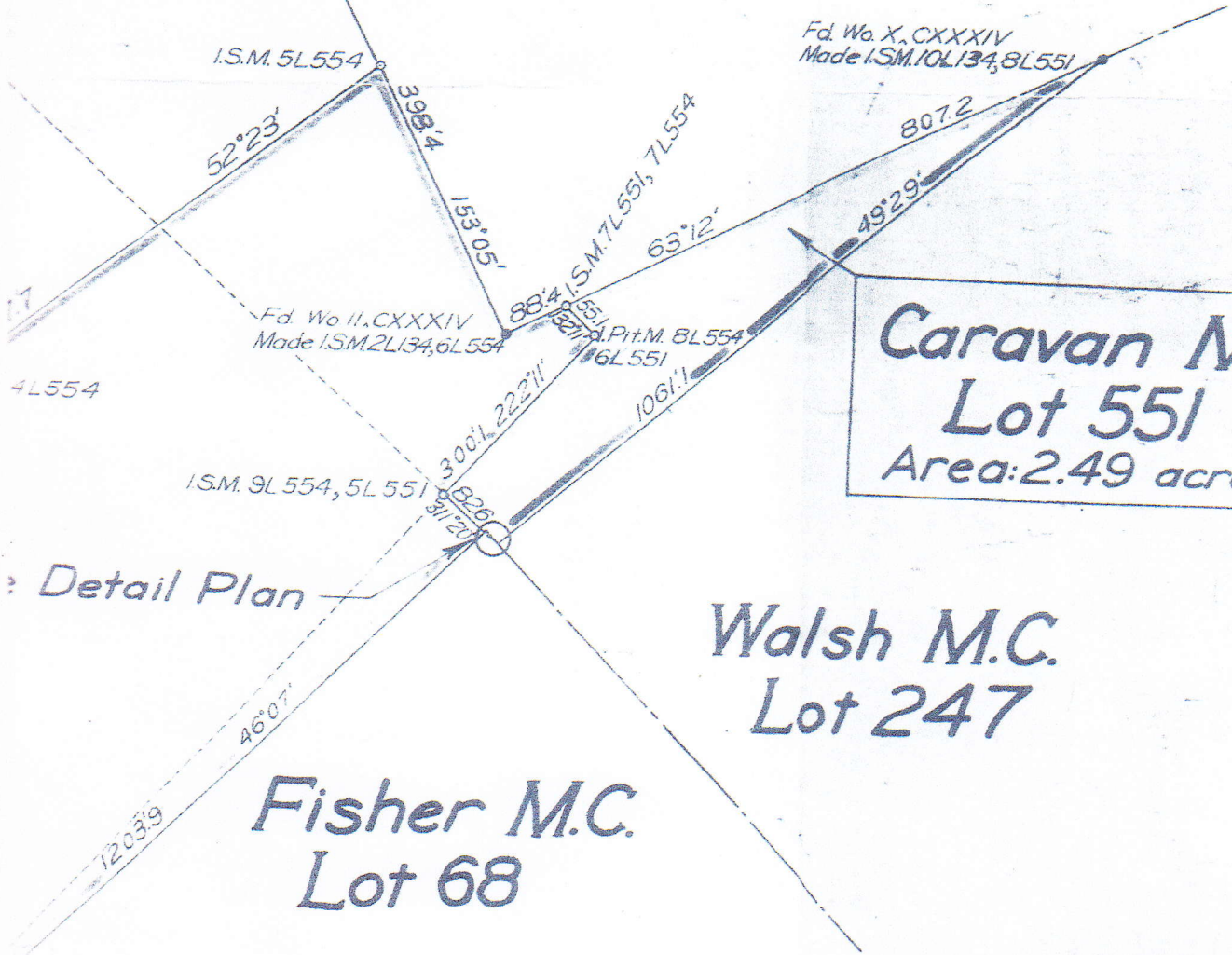
Ownership

The 551 FR mineral claim is in good standing and is wholly owned by D. N. Moraal of Tagish Yukon. Anniversary date is 05 June.

Lucky Baldwin M.C. Lot 134

DEED 266
33 Nov 2004

Fd. No. X, CXXXIV
Made I.S.M. 10L134, 8L551



**Caravan M.
Lot 551**
Area: 2.49 acre

**Walsh M.C.
Lot 247**

**Fisher M.C.
Lot 68**

Detail Plan

NOTE:
 Surveyed lines are shown thus
 Previous surveys are shown thus
 Other lines are shown thus
 Monuments found are indicated thus
 Monuments erected are indicated thus
 Distances are in feet and tenths thereof
 Bearings are astronomic, expressed in degrees and minutes,
 and were derived from bearing 60°04' of the northerly
 boundary of Lone Star M.C. Lot 244, Group 1054

bean & Cimarron
44, 1L554, 1L555

Geology

The claim has been mapped as underlain by Keno Hill quartzite of Mississippian age. There are no outcrops on the claim but the north east part is covered by slabby light coloured locally mottled quartzite boulders, intermingled with quartz fragments. A contact with Earn Group light green quartz sericite chlorite phyllite of Devono- Mississippian age has been mapped close adjacent to the west and north, but off the claim. No field specimens of this last unit were seen on the property.

The claim lies above the elevation of the Late Pleistocene McConnell glacial limit, (17 to 23 Ka) suggesting that the colluvium forming the conformable veneer of material over bedrock dates back to the mid Pleistocene Reid glacial period (about 200 Ka) in age. No significant glacial features were identified on the claim. The ground remains frozen until late in the year which hinders both soil sampling and possible trenching as well, which may explain the lack of much early exploratory work.

Work carried out for this report.

Due to the late thaw there was not much chance of ground contact exploration. The prospector was limited to non ground contact work, which consisted of establishing string and flag grid lines which were used for control of a VLF-EM and a gradiometer surveys. These had the double purpose of extending the previous work, and in the case of the gradiometer, refining the quality of the magnetic data, and secondly to clarify some doubts about the orientation of the earlier survey work.

To test this, lines were established orthogonal to the previous grid. The long angular shape of the claim made it difficult to make a tidy grid, and the lines were of various lengths. A total of 60 m of BL and 600 m of grid lines were established with a separation of 10 m and stations spaced 5 m apart. Some light brush work was done where needed, but no trees were cut down nor any ground disturbed.

The prospector used an analogue Sabre Model 27 VLF-EM receiver to collect data. The Sabre unit has the capability to take four parameters. Dip angle, Horizontal field strength, Residual field strength and the Vertical component of the electromagnetic field which has been used to define larger structure like faults. Of interest were only the dip angle of the electromagnetic field and the vertical component, which occurs ahead of the dip angle peaks and this can often aid in identification of the target. 150 stations were read on the grid, however some of the readings were thought to be off the grid, and these will not be shown in this report, however they were mathematically used to fill in the flanks of the VLF sections, up to the claim boundary.

The previous magnetometer survey was carried out with a Sharpe (Scintrex) Fluxgate Vertical field magnetometer. This instrument works best in more magnetic geological settings, and it was thought that a more modern fluxgate gradiometer might resolve some of the smaller features better. A secondary reason was the more frequent electrical storms in the mountains; the gradiometer has the virtue of being able to ignore electrical activity of distant storms short of a nearby lightning strike

thereby necessitating fewer corrections to the data. The gradiometer generated some 600 readings on the grid

Results

VLF-EM. Several linear features were identified on the new grid, and where the new grid lines coincided with the previous grid, there was a satisfying amount of correlation with pH (hydrogen mole), and magnetometer data from old work. Fraser sectional views show several strong EM conductors continuous from surface to N=4, and two or three stations wide (10 or 15 m). These would make ideal targets for geochemical work, especially where coincidental with magnetic anomalies. A couple of the linear features extend across several lines. These may extend further, as there is yet room for one or two more survey lines, which were not possible during the present visit.

Gradiometer survey. A anomalous 20 plus metre long magnetic linear occurs on the west side of the grid between lines 230 and 250 and is open to the northwest, plus five weaker linear features elsewhere on the grid. Removal of these highly anomalous readings clarified the positions of the other magnetic features. Of these there was a good correlation between the new VLF-EM data as shown in the sectional views, and the gradiometer data in the plan view at most locations, and also with H+ mole data collected previously.

Conclusions and recommendations

The geophysical surveys carried out for this report appear to show a series of narrow linear features trending around 350 degrees true in two sets, one at the west end of the claim, and the second more loosely clustered some 80 m further east. As mentioned above, the new geophysical data suggests that there are a number of targets on the claim that should be further investigated with geochemical methods. It is a characteristic of the silver veins in this mining camp that veins of reduced physical dimensions can carry high grade silver ore. The data at present investigates only down to n=4, or about 20 metres, while there are hints that some anomalies may extend beyond that depth.

Due to its small size, it would help to survey in and brush out the perimeter of the claim. This would allow full confidence in future work being done on the claim and not on adjacent ground, should any physical ground work such as trenching be required.

Table of expenses

Personnel	\$ 350.00 per day	
Prospector, 2 days mobilization and demob.		
3 field days		
2 days data reduction and report writing.		\$2450.00
Transportation:		
Fuel		\$ 220.00
Meal allowance 4 days @ 35.00 per day		\$ 140.00
Field expendables		\$ 20.00
Equipment		
Proton gradiometer, 5 days at 100.00 per day		\$500.00
VLF-EM 5 days at 25.00 per day		\$125.00
Total		\$3455.00

Statement of qualifications

I, Dirk Moraal, of Tagish Yukon do hereby state:

I am a professional prospector and have been involved in mining exploration since 1969.

I am the sole owner of the 551FR. Mineral claim, Mayo Mining District, Yukon.

This report is based on data gathered by myself in May, 9th to 12th, 2014.

I am the author of this report which reflects the work performed and my understanding of the area and technical methods used during data collection.

DIRK MORAAL

Appendices

Raw Data gradiometer

Maps and graphs

Raw Data VLF-EM

Maps and graphs

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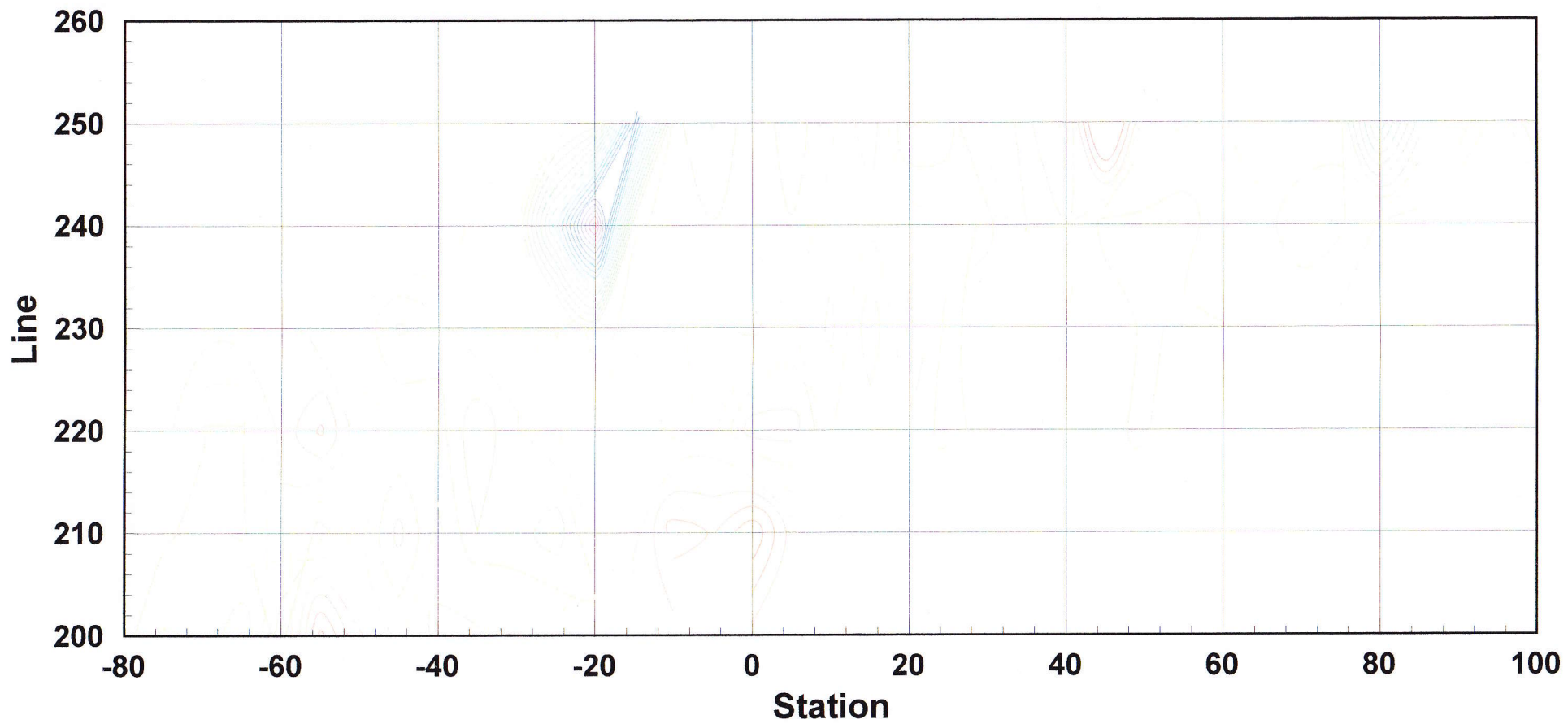
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0	57453.800	57455.800	11:23:03.00	05/10/14	0		
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0	57451.700	57455.700	11:22:44.00	05/10/14	0		

3	121.000	45.000	11:22:44.00	05/10/14	1	230	318
0	57452.300	57455.500	11:22:16.00	05/10/14	0		
3	121.000	40.000	11:22:16.00	05/10/14	1	230	316
0	57452.500	57454.400	11:21:54.00	05/10/14	0		
3	121.000	35.000	11:21:54.00	05/10/14	1	230	314
0	57452.000	57454.600	11:21:33.00	05/10/14	0		
3	121.000	30.000	11:21:33.00	05/10/14	1	230	312
0	57455.400	57455.900	11:21:13.00	05/10/14	0		
3	121.000	25.000	11:21:13.00	05/10/14	1	230	310
0	57449.900	57453.600	11:20:52.00	05/10/14	0		
3	121.000	20.000	11:20:52.00	05/10/14	1	220	308
0	57453.000	57455.000	11:20:32.00	05/10/14	0		
3	121.000	15.000	11:20:32.00	05/10/14	1	230	306
0	57452.600	57454.600	11:20:16.00	05/10/14	0		
3	121.000	10.000	11:20:16.00	05/10/14	1	230	304
0	57452.500	57453.600	11:19:57.00	05/10/14	0		
3	121.000	5.000	11:19:57.00	05/10/14	1	230	302
0	57452.000	57454.000	11:19:38.00	05/10/14	0		
3	121.000	0.000	11:19:38.00	05/10/14	1	230	300
0	57454.000	57455.700	11:18:23.00	05/10/14	0		
3	111.000	0.000	11:18:23.00	05/10/14	1	220	298
0	57453.900	57455.300	11:18:00.00	05/10/14	0		
3	111.000	5.000	11:18:00.00	05/10/14	1	220	296
0	57453.300	57455.300	11:17:37.00	05/10/14	0		
3	111.000	10.000	11:17:37.00	05/10/14	1	220	294
0	57454.300	57455.100	11:17:19.00	05/10/14	0		
3	111.000	15.000	11:17:19.00	05/10/14	1	220	292
0	57455.500	57456.300	11:16:58.00	05/10/14	0		
3	111.000	20.000	11:16:58.00	05/10/14	1	220	290
0	57454.500	57456.300	11:16:35.00	05/10/14	0		
3	111.000	25.000	11:16:35.00	05/10/14	1	220	288
0	57452.300	57454.800	11:16:17.00	05/10/14	0		
3	111.000	30.000	11:16:17.00	05/10/14	1	220	286
0	57447.600	57452.300	11:15:59.00	05/10/14	0		
3	111.000	35.000	11:15:59.00	05/10/14	1	220	284
0	57451.000	57453.300	11:15:35.00	05/10/14	0		
3	111.000	40.000	11:15:35.00	05/10/14	1	220	282
0	57454.200	57455.900	11:15:11.00	05/10/14	0		
3	111.000	45.000	11:15:11.00	05/10/14	1	220	280
0	57457.700	57459.200	11:14:51.00	05/10/14	0		
3	111.000	50.000	11:14:51.00	05/10/14	1	220	278
0	57462.300	57460.600	11:14:28.00	05/10/14	0		
3	111.000	55.000	11:14:28.00	05/10/14	1	220	276
0	57458.100	57458.400	11:14:07.00	05/10/14	0		
3	111.000	60.000	11:14:07.00	05/10/14	1	220	274
0	57454.400	57457.300	11:13:49.00	05/10/14	0		
3	111.000	65.000	11:13:49.00	05/10/14	1	220	272

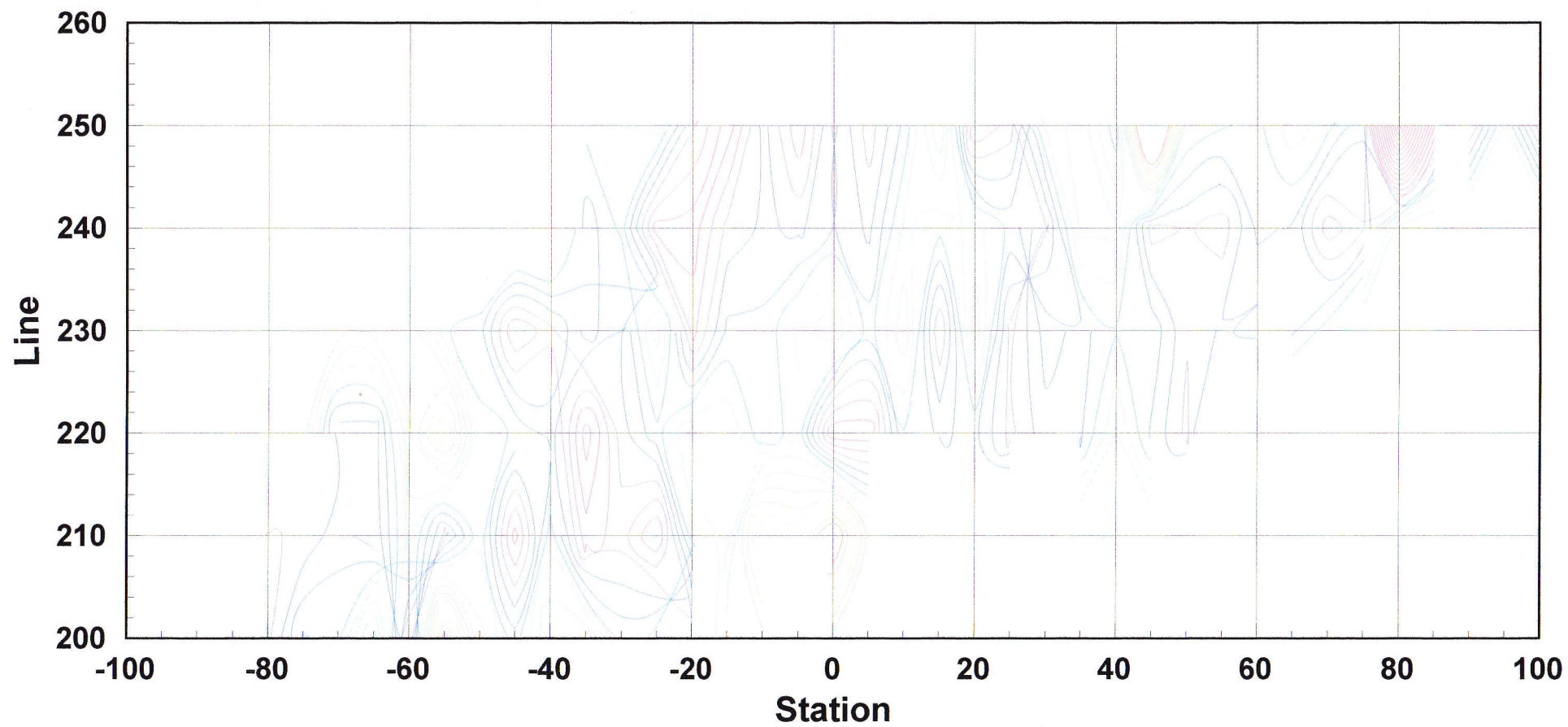
0	57454.900	57457.800	11:13:28.00	05/10/14	0		
3	111.000	70.000	11:13:28.00	05/10/14	1	220	270
0	57452.700	57456.600	11:13:06.00	05/10/14	0		
3	111.000	75.000	11:13:06.00	05/10/14	1	220	268
0	57454.000	57453.400	11:12:45.00	05/10/14	0		
3	111.000	80.000	11:12:45.00	05/10/14	1	220	266
0	57455.500	57458.600	11:11:58.00	05/10/14	0		
3	101.000	80.000	11:11:58.00	05/10/14	1	210	264
0	57455.900	57458.900	11:11:31.00	05/10/14	0		
3	101.000	75.000	11:11:31.00	05/10/14	1	210	262
0	57455.900	57458.200	11:11:00.00	05/10/14	0		
3	101.000	70.000	11:11:00.00	05/10/14	1	210	260
0	57456.800	57459.800	11:10:34.00	05/10/14	0		
3	101.000	65.000	11:10:34.00	05/10/14	1	210	258
0	57461.200	57462.200	11:10:14.00	05/10/14	0		
3	101.000	60.000	11:10:14.00	05/10/14	1	210	256
0	57457.300	57460.500	11:09:50.00	05/10/14	0		
3	101.000	55.000	11:09:50.00	05/10/14	1	210	254
0	57459.100	57460.400	11:09:28.00	05/10/14	0		
3	101.000	50.000	11:09:28.00	05/10/14	1	210	252
0	57455.200	57459.000	11:09:07.00	05/10/14	0		
3	101.000	45.000	11:09:07.00	05/10/14	1	210	250
0	57455.400	57456.800	11:08:39.00	05/10/14	0		
3	101.000	40.000	11:08:39.00	05/10/14	1	210	248
0	57451.600	57455.400	11:08:20.00	05/10/14	0		
3	101.000	35.000	11:08:20.00	05/10/14	1	210	246
0	57452.600	57455.900	11:07:52.00	05/10/14	0		
3	101.000	30.000	11:07:52.00	05/10/14	1	210	244
0	57451.600	57456.100	11:07:27.00	05/10/14	0		
3	101.000	25.000	11:07:27.00	05/10/14	1	310	242
0	57453.600	57455.000	11:07:03.00	05/10/14	0		
3	101.000	20.000	11:07:03.00	05/10/14	1	210	240
0	57454.700	57455.800	11:06:43.00	05/10/14	0		
3	101.000	15.000	11:06:43.00	05/10/14	1	210	238
0	57454.300	57456.300	11:06:22.00	05/10/14	0		
3	101.000	10.000	11:06:22.00	05/10/14	1	210	236
0	57454.800	57456.200	11:06:03.00	05/10/14	0		
3	101.000	5.000	11:06:03.00	05/10/14	1	210	234
0	57452.900	57456.400	11:05:40.00	05/10/14	0		
3	101.000	0.000	11:05:40.00	05/10/14	1	210	232
0	57455.000	57456.400	11:04:29.00	05/10/14	0		
3	91.000	0.000	11:04:29.00	05/10/14	1	200	230
0	57456.200	57456.200	11:04:07.00	05/10/14	0		
3	91.000	5.000	11:04:07.00	05/10/14	1	200	228
0	57453.800	57455.900	11:03:43.00	05/10/14	0		
3	91.000	10.000	11:03:43.00	05/10/14	1	200	224
0	57454.800	57455.700	11:03:24.00	05/10/14	0		

3	91.000	15.000	11:03:24.00	05/10/14	1	200	222
0	57451.400	57454.900	11:03:01.00	05/10/14	0		
3	91.000	20.000	11:03:01.00	05/10/14	1	200	222
0	57455.100	57456.400	11:02:38.00	05/10/14	0		
3	91.000	25.000	11:02:38.00	05/10/14	1	200	220
0	57456.100	57457.900	11:02:09.00	05/10/14	0		
3	91.000	30.000	11:02:09.00	05/10/14	1	200	218
0	57459.500	57459.800	11:01:51.00	05/10/14	0		
3	91.000	35.000	11:01:51.00	05/10/14	1	200	216
0	57461.100	57461.400	11:01:31.00	05/10/14	0		
3	91.000	40.000	11:01:31.00	05/10/14	1	200	214
0	57461.000	57462.900	11:01:13.00	05/10/14	0		
3	91.000	45.000	11:01:13.00	05/10/14	1	200	212
0	57463.400	57464.000	11:00:49.00	05/10/14	0		
3	91.000	50.000	11:00:49.00	05/10/14	1	200	210
0	57466.700	57463.800	11:00:28.00	05/10/14	0		
3	91.000	55.000	11:00:28.00	05/10/14	1	200	208
0	57460.200	57461.700	11:00:00.00	05/10/14	0		
3	91.000	60.000	11:00:00.00	05/10/14	1	200	206
0	57462.400	57461.900	10:58:27.00	05/10/14	0		
3	91.000	65.000	10:58:27.00	05/10/14	1	200	204
0	57459.200	57461.000	10:58:06.00	05/10/14	0		
3	91.000	70.000	10:58:06.00	05/10/14	1	200	202
0	57460.100	57461.700	10:57:40.00	05/10/14	0		
3	91.000	75.000	10:57:40.00	05/10/14	1	200	200
0	57460.900	57461.100	10:57:14.00	05/10/14	0		
3	91.000	80.000	10:57:14.00	05/10/14	1	200	198

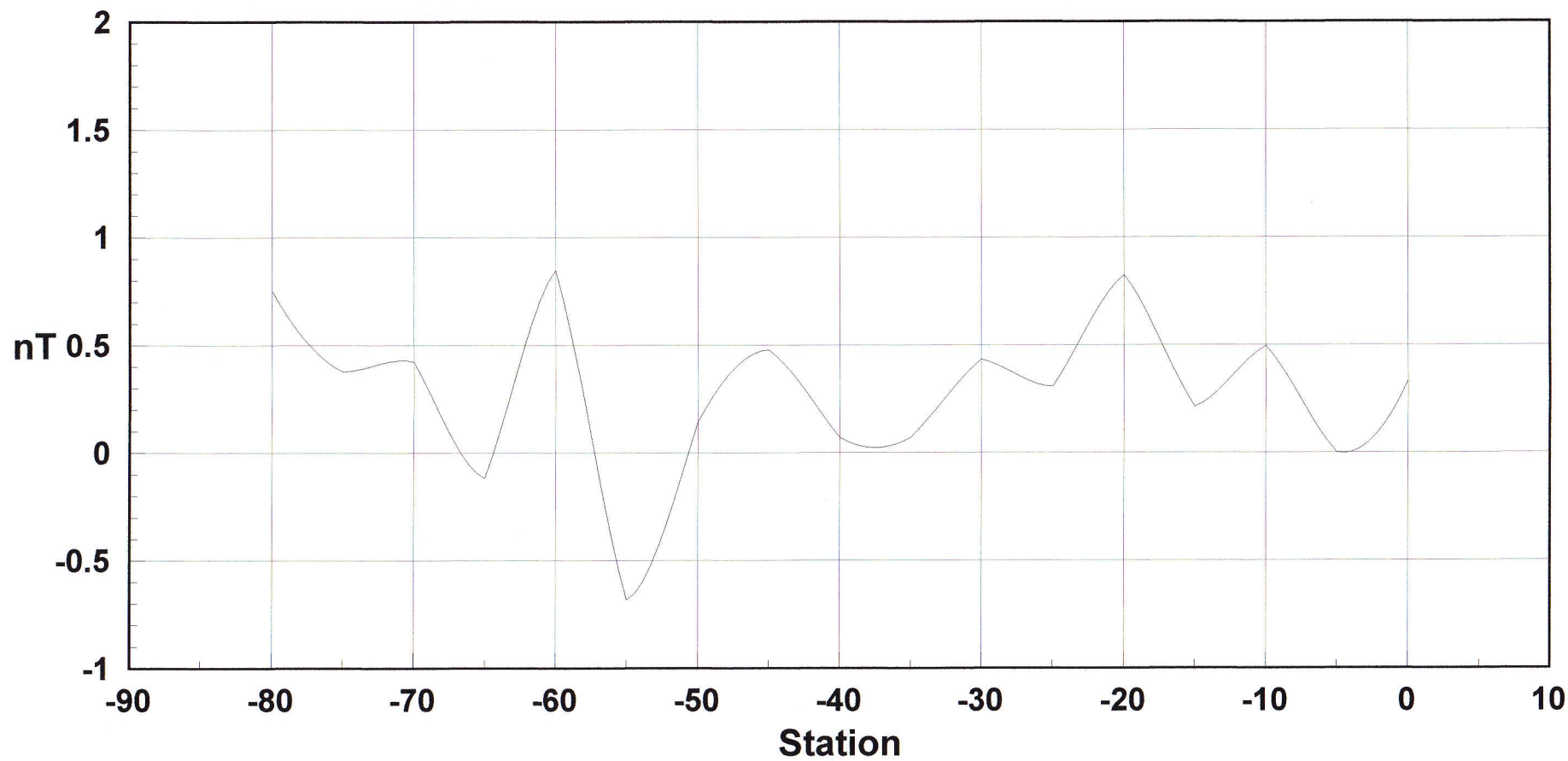
Magnetic Gradient



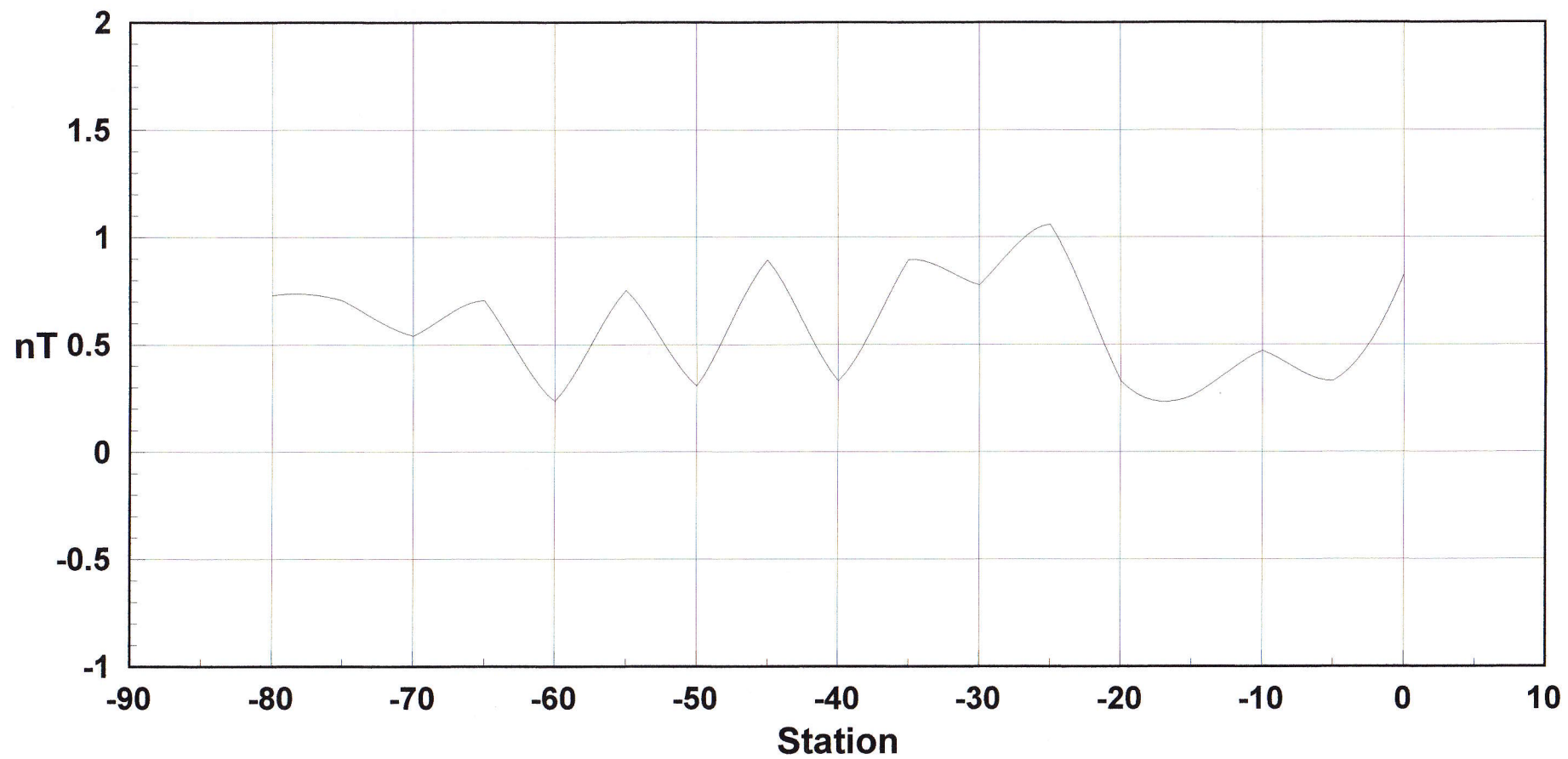
Magnetic Gradient with anomalous readings removed



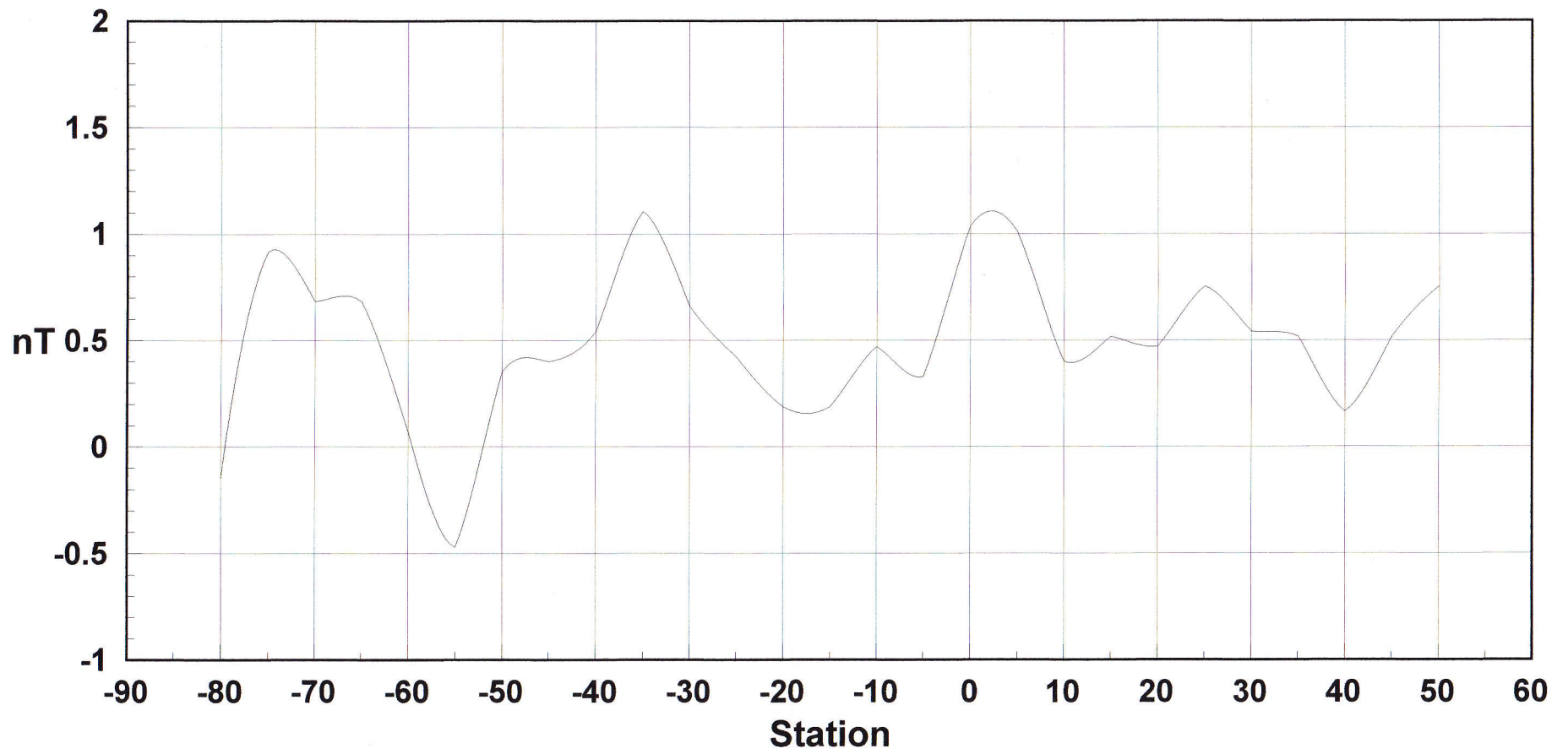
Mag Grad Line 200



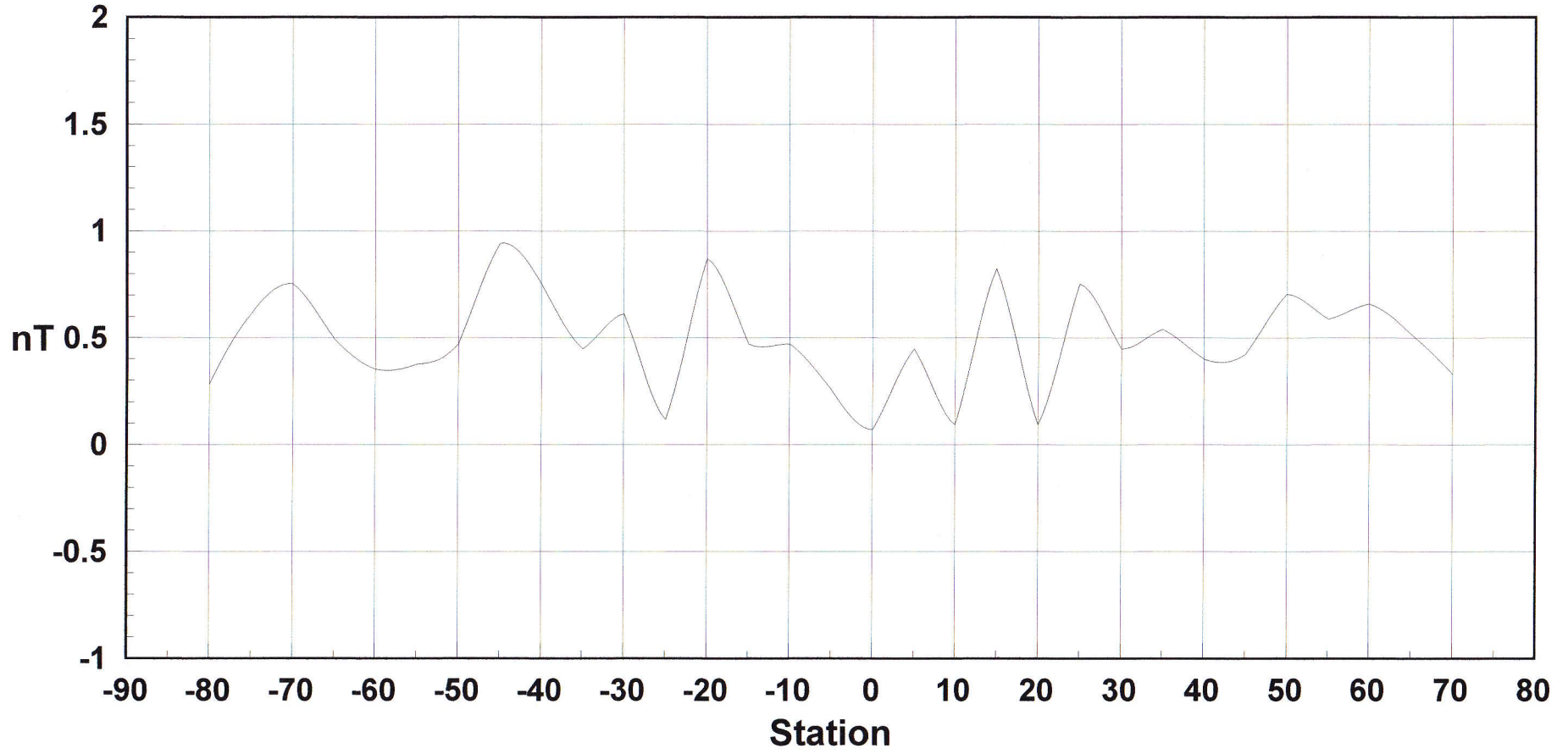
Mag Grad Line 210



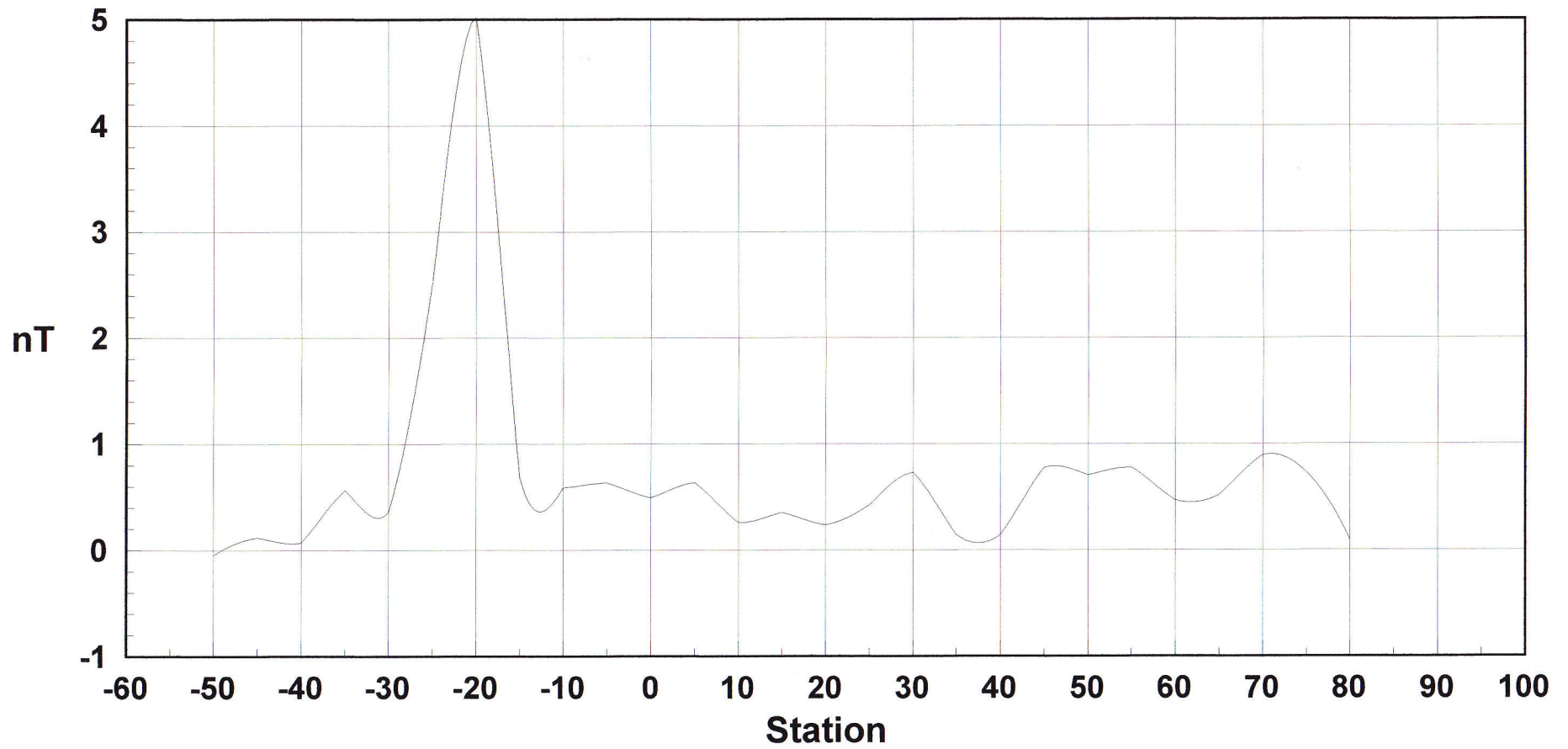
Mag Grad Line 220



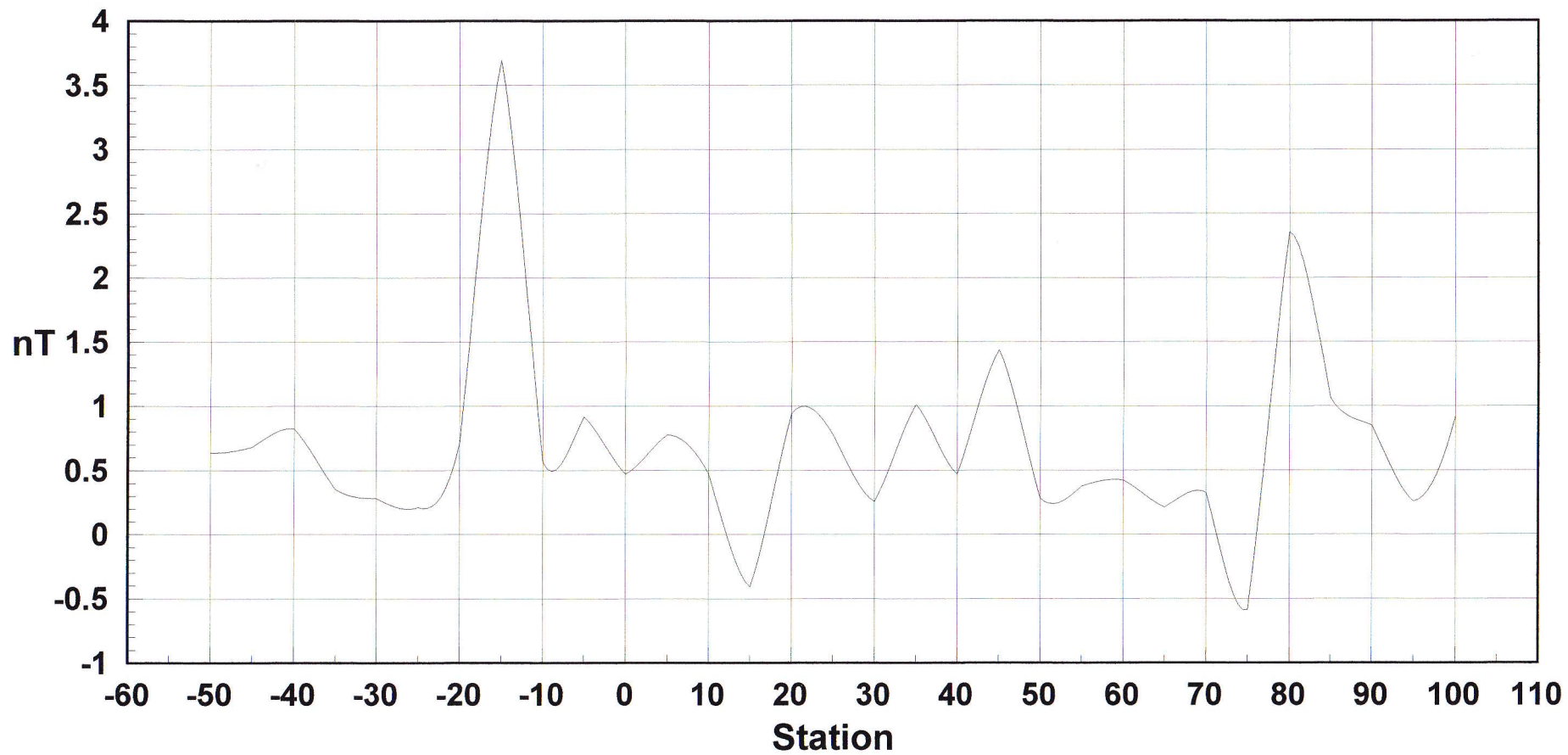
Mag Grad Line 230



Mag Grad Line 240



Mag Grad line 250



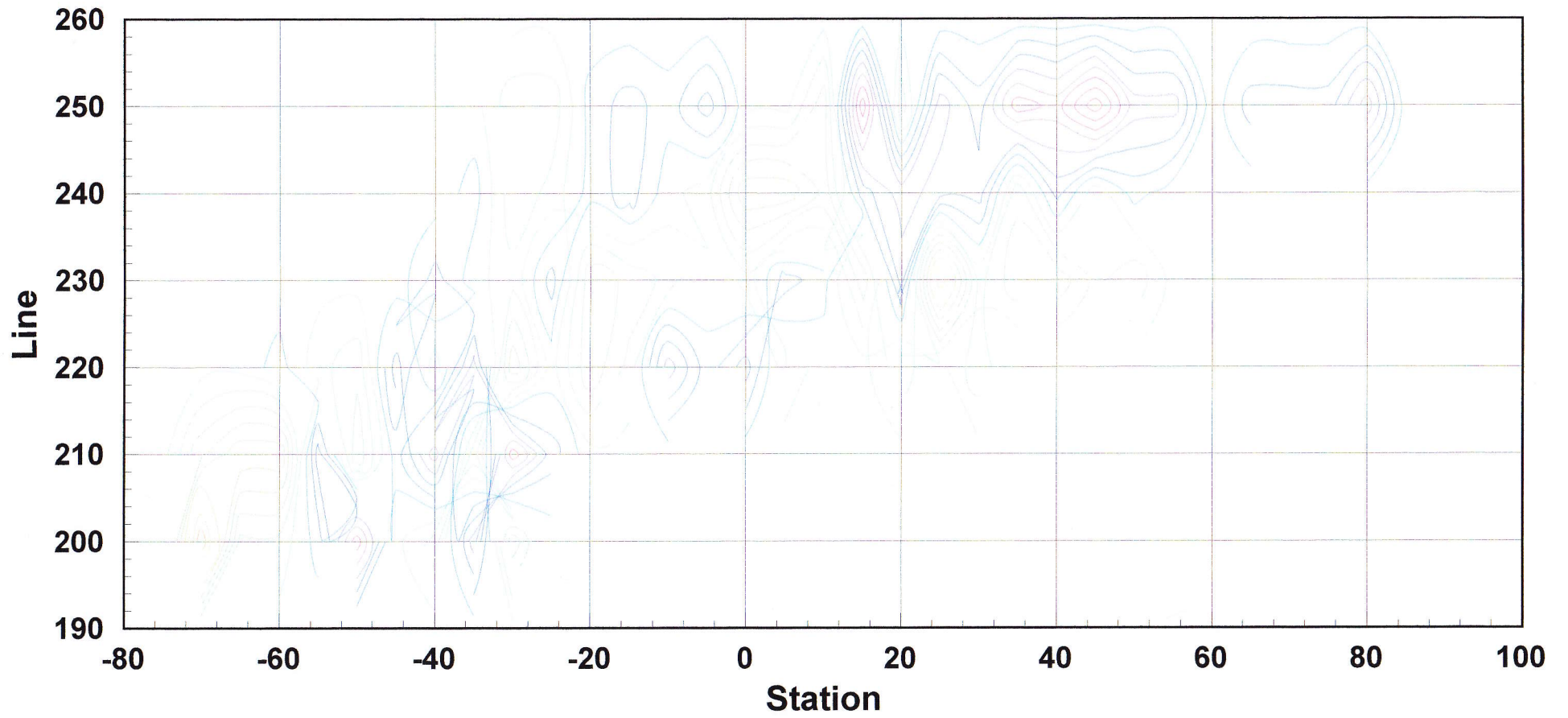
	200	210	220	230	240	250	260
-80	-7	-8	-11				
-75	-9	-6	-12				
-70	-6	-8	-9				
-65	-10	-8	-7	-13			
-60	-11	-9	-8	-12			
-55	-11	-11	-11	-11			
-50	-11	-10	-7	-9			
-45	-9	-9	-9	-9			
-40	-7	-12	-9	-10			
-35	-11	-8	-9	-11	-10	-9	
-30	-9	-10	-8	-8	-9	-13	
-25	-9	-11	-7	-10	-8	-12	
-20	-11	-7	-9	-9	-11	-10	
-15	-7	-8	-8	-9	-10	-12	
-10	-9	-9	-12	-10	-9	-12	
-5	-8	-9	-9	-10	-9	-11	
0	-10	-8	-8	-10	-10	-10	
5			-7	-11	-8	-11	
10			-9	-10	-10	-1	
15			-9	-8	-12	-9	
20			-8	-11	-14	-11	
25			-8	-11	-10	-13	
30			-9	-8	-9	-13	
35			-8	-11	-8	-14	
40				-10	-11	-11	
45				-11	-11	-12	
50				-10	-9	-11	
55				-14	-9	-9	
60				-11	-9	-8	
65				-6	-11	-9	
70					-10	-10	
75					-9	-8	
80						-9	
85						-8	
90						-7	
95						-7	
100						-7	

551 FR Claim
VLF raw data
Dip angles

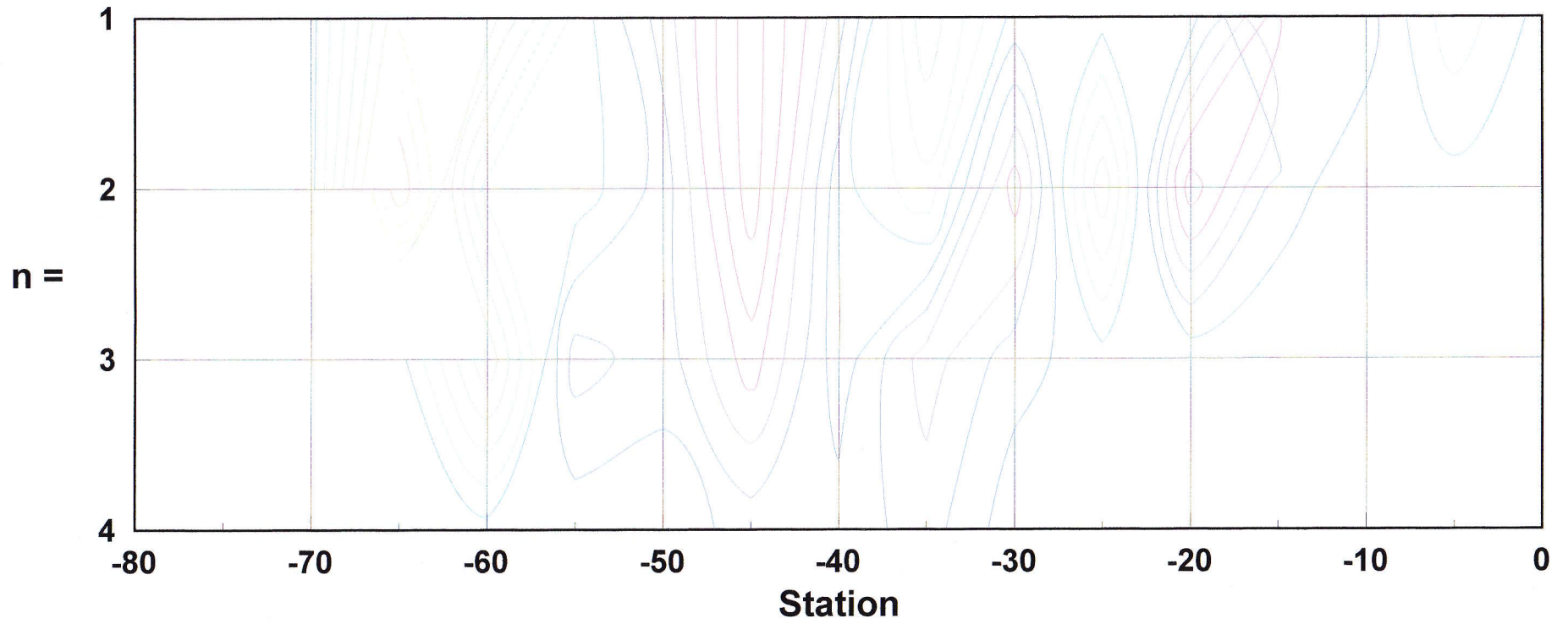
	200	210	220	230	240	250	260
-80	2	5	4				
-75	3	4	4				
-70	3	5	3	7			
-65	4	4	5	6			
-60	7	4	3	7			
-55	6	4	5	8			
-50	6	5	5	5			
-45	3	7	5	5			
-40	2	6	5	5			
-35	4	6	5	6	6	3	
-30	3	5	3	6	5	6	
-25	5	6	5	5	6	4	
-20	4	6	5	5	6	6	
-15	2	4	5	3	5	2	
-10	1	7	6	4	6	4	
-5	2	4	4	4	6	4	
0	3	6	4	4	5	5	
2			3	6	4	5	
10			5	4	4	6	
15			4	5	6	5	
20			4	5	6	6	
25			5	5	5	7	
30			4	5	3	7	
35			3	5	4	6	
40				4	5	5	
45				6	6	7	
50				4	5	7	
55				5	5	5	
60				6	4	5	
65				4	4	5	
70				6	6	7	
75				7	5	4	
80				7	4	5	
85						3	
90						3	
95			4			2	
100						2	

551 FR Claim
VLF raw data
Vertical field

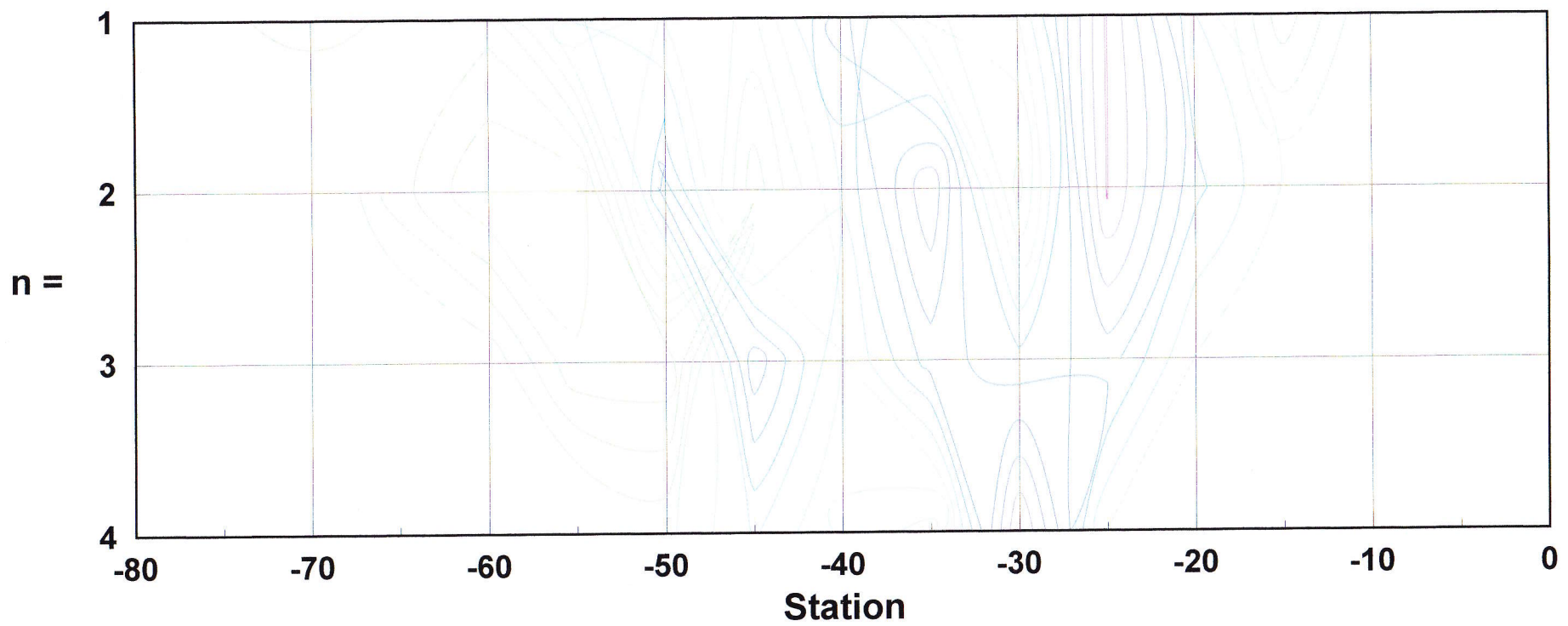
VFL Fraser filter plan at n=2



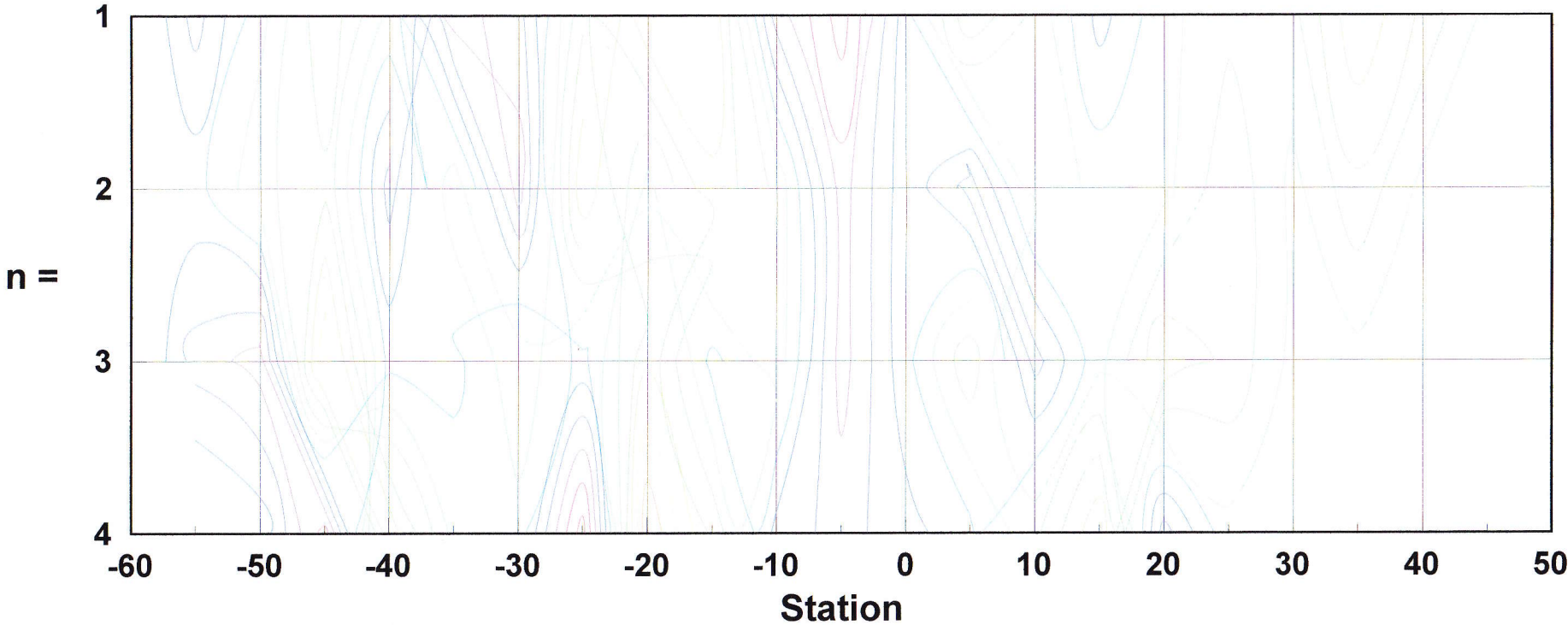
VLF Fraser Section Line 200



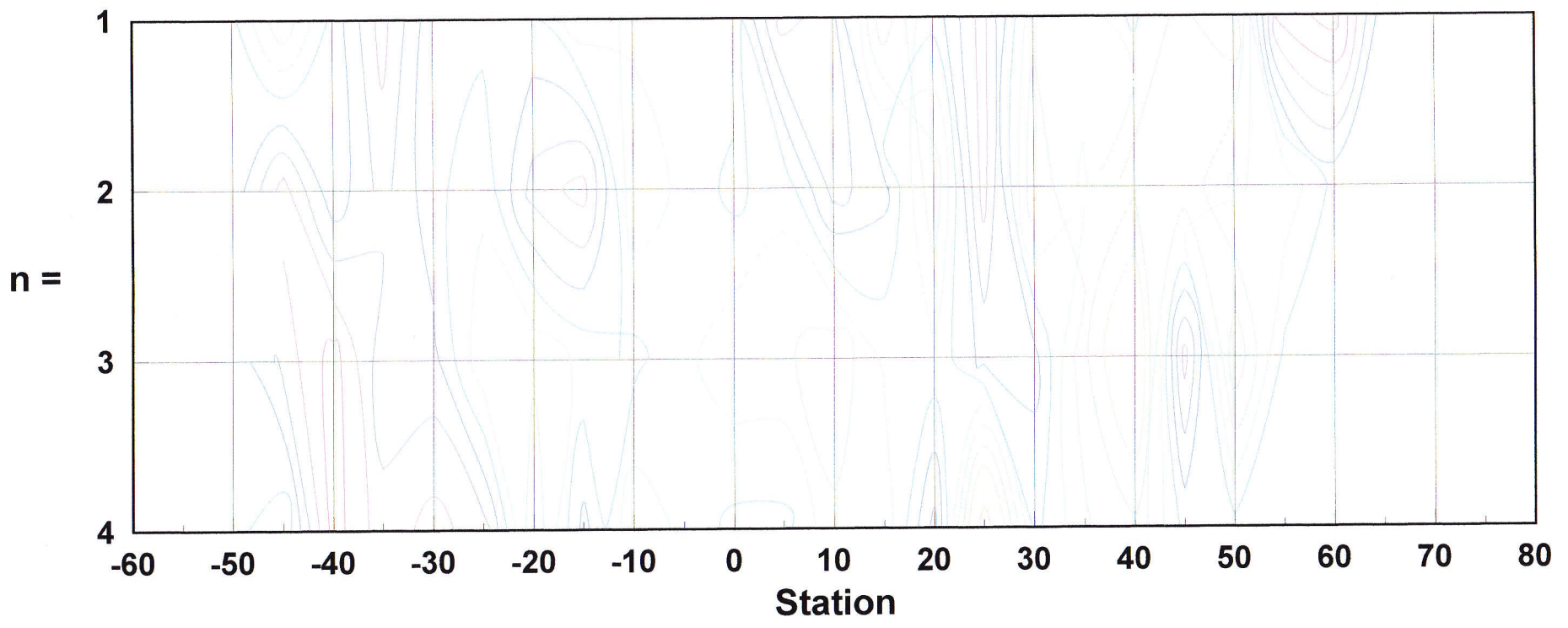
VLF Fraser Section Line 210



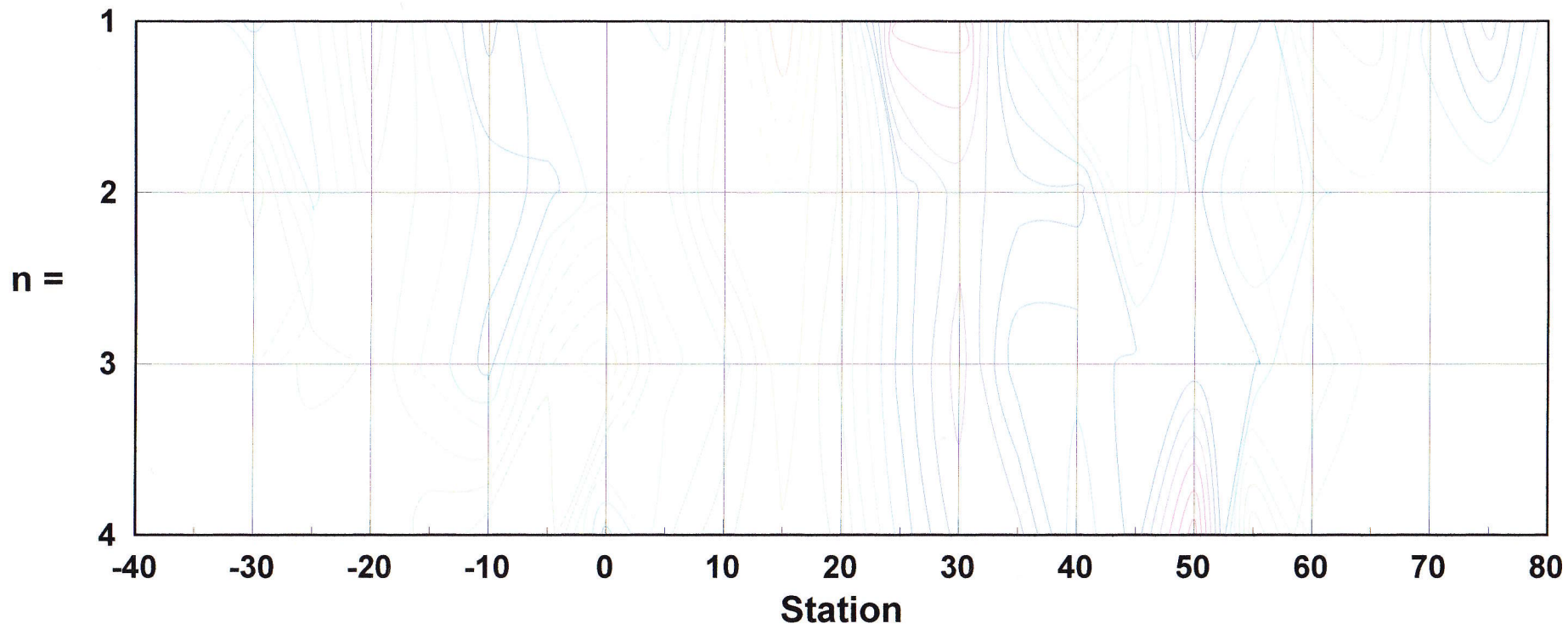
VLF Fraser Section Line 220



VLF Fraser Section Line 230



VLF Fraser Section Line 240



VLF Fraser Section Line 250

