

MAR 19990021: FIGARO

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19990021
JUN 10 1999

ASSESSMENT REPORT

FIGARO PROSPECT

**NEW CLAYMORE RESOURCES LTD.
METALLIC AND INDUSTRIAL MINERAL PERMITS
9397020054 to 9397020058
NORTHERN ALBERTA**

Geographic Co-ordinates
56° 51' 30" to 57° 13' 00" N
116° 15' 00" to 116° 35' 00" W

NTS Map Areas
84 C/15, C/16
84 F/1

New Claymore Resources Ltd.
11003 - 84 Avenue
Edmonton, Alberta T6G 0V6

April, 1999

T. Faragher
B. Rzyziuk

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**ASSESSMENT REPORT
NEW CLAYMORE RESOURCES LTD.
FIGARO PROSPECT
METALLIC AND INDUSTRIAL MINERAL PERMITS 9397020054 to 9397020058
NORTHERN ALBERTA**

SUMMARY

New Claymore Resources Ltd. Figaro prospect is located about 100 km northeast of the Town of Peace River in northern Alberta. The prospect is comprised of 5 Metallic and Industrial Mineral permits which encompass an area of 46,080 hectares (115,200 acres). The permits are registered in the name of New Claymore Resources Ltd.

The Precambrian basement underlying the Figaro Prospect is interpreted as belonging to the lower Proterozoic Buffalo Head Terrane. Bedrock geology on the prospect consists of upper Cretaceous Shaftesbury Formation marine shale conformably overlain by feldspathic sandstone of the Dunvegan Formation itself overlain by marine shale of the Smoky Group. Glacial till and muskeg cover most of the prospect and although drift thickness is relatively thin, bedrock exposure is sparse and generally restricted to banks of incised river valleys. Approximately 40 km east of the Figaro prospect, 31 kimberlite intrusives sourced from below the Buffalo Head Terrane intrude through the thick sequence of Phanerozoic sediments which exist on the Figaro prospect.

During May, 1998, Geoterrex-Dighem was contracted to fly an airborne magnetic and GEOTEM electromagnetic multicoil survey over 80 per cent of the Figaro prospect; in total 1,026 line kilometers of data were collected. Interpretation of the airborne data identified 12 positive and 2 negative magnetic anomalies with coincident electromagnetic resistive signatures which may be representative of kimberlitic diatremes. During July, 1998, a ground magnetometer geophysical survey was completed over 1 airborne anomaly selected because of its magnetic and electromagnetic signature and proximity to interpreted geologic structure; in total 12.0 line-km of grid surveying and 11.0 line-km of ground magnetometer geophysical surveying was completed. Limited glacial till diamond indicator mineral sampling on the prospect recovered 60 mineral grains including 3 definite pyrope garnets, 1 possible eclogite garnet, 1 possible chromite, and 55 possible picroilmenites.

Additional exploration on the Figaro prospect is warranted and should include:

- a) airborne magnetic survey over the remaining 20 per cent of the prospect;
- b) ground geophysical surveying over the remaining 13 airborne anomalies and any additional anomalies identified;
- c) systematic diamond indicator mineral till sampling along east-west oriented fences which traverse the prospect;

- d) electron microprobe quantitative analysis of diamond indicator mineral grains and comparison to kimberlite and diamond inclusion mineral chemistry;
- e) soil and/or loam sampling over and/or down-ice from individual anomalies accompanied by geochemical analysis for elements including nickel, chromium, niobium, cesium, titanium, strontium, and magnesium;
- f) acquisition of brokered seismic data over individual anomalies; and
- g) drill testing of select anomalies to a depth adequate to explain the geophysical target.

INTRODUCTION

Location, Prospect Description

The Figaro prospect consists of 5 contiguous Metallic and Industrial Mineral (MAIM) permits located in northern Alberta which cover an area of 46,080 hectares (115,200 acres). The prospect extends from about 56° 51' 30" to 57° 13' 00" north latitude and 116° 15' 00" to 116° 35' 00" west longitude, is located about 450 km northwest of the City of Edmonton and centered about 100 km northeast of the Town of Peace River (Figure 1). The permits, 9397020054 to 9397020058, are registered in the name of New Claymore Resources Ltd. (New Claymore) and their status and location are given in Table 1 and Figure 2.

TABLE 1
MAIM PERMIT DESCRIPTION

<u>PERMIT NUMBER</u>	<u>COMMENCEMENT OF PERMIT TERM</u>	<u>LEGAL DESCRIPTION OF LANDS</u>	<u>AREA OF OPTION (hectares)</u>
9397020054	Feb 28, 1997	<u>5-15-091</u> : 1-36	9,216
9397020055	Feb 28, 1997	<u>5-16-091</u> : 1-36	9,216
9397020056	Feb 28, 1997	<u>5-15-092</u> : 1-36	9,216
9397020057	Feb 28, 1997	<u>5-15-093</u> : 1-36	9,216
9397020058	Feb 28, 1997	<u>5-15-094</u> : 1-36	9,216
TOTAL			46,080

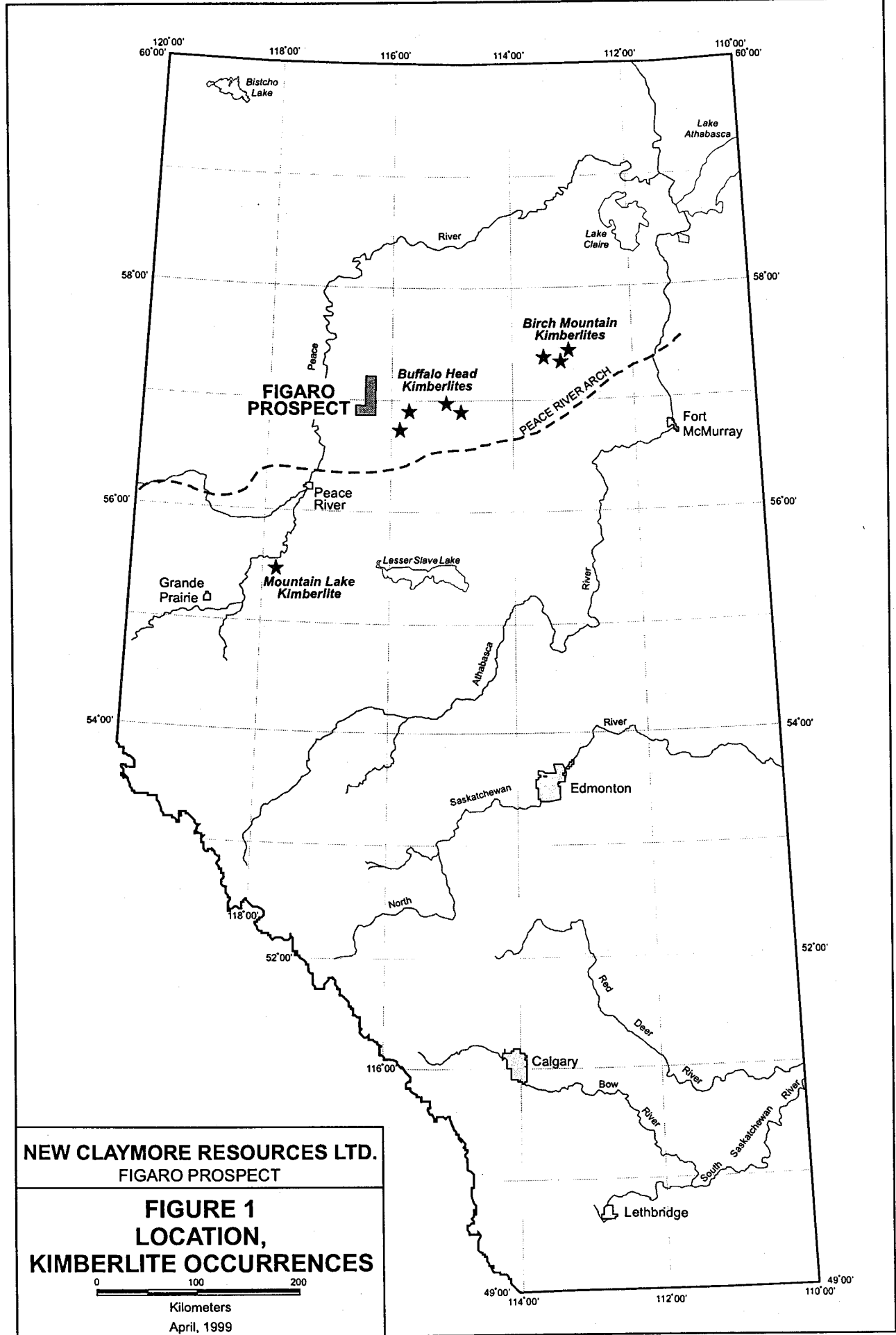
Access, Infrastructure, Physiography

Road access to the Figaro prospect is via secondary highway 986 then north along the Haig Lake / Bison Lake and Jackpine Lake oil and gas service roads. Access to remote parts of the prospect is via all terrain vehicle and/or snowmachine along winter logging roads and seismic lines. Helicopter access was utilized from the Town of Peace River for the ground geophysical field work. Infrastructure in the area is centered around the Town of Peace River which provides accommodation, food, supplies, vehicles, fuel, and aircraft.

The regional physiography of the area is characterized by flat lying topography with elevations ranging between 550 m above sea level (a.s.l.) along the western prospect boundary to 730 m a.s.l. within the Buffalo Head Hills along the eastern prospect boundary. Vegetation consists of stands of spruce and poplar trees with interspersed peat bogs and muskeg.

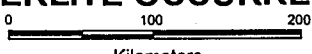
Previous Exploration

Reconnaissance diamond indicator mineral sampling has been conducted in the region of the Figaro prospect by the Alberta Geological Survey (AGS) and several private companies. Information made public by the AGS describe the discovery of several diamond indicator mineral grains including

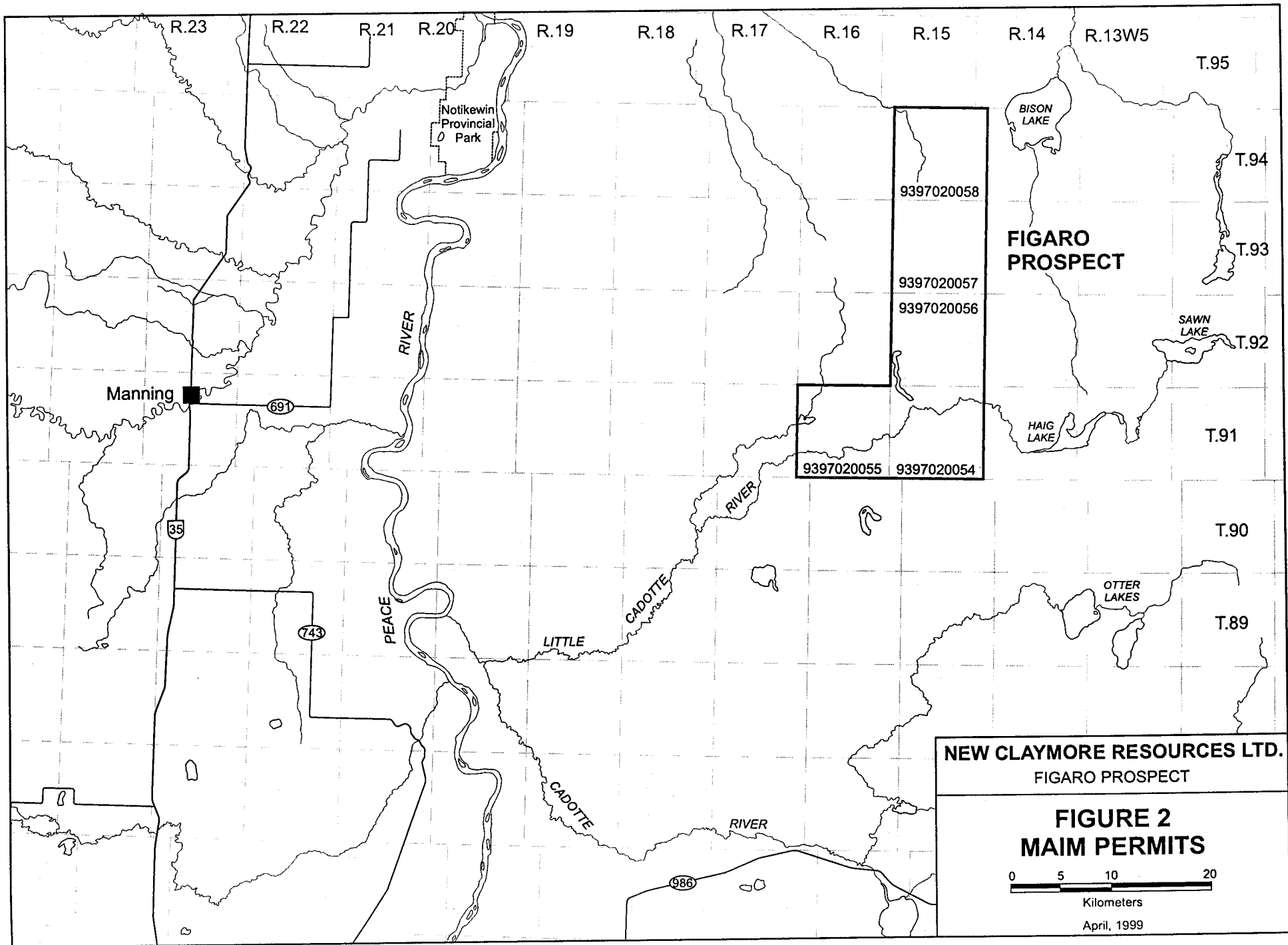


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FIGARO PROSPECT

FIGURE 1
LOCATION,
KIMBERLITE OCCURRENCES

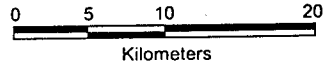


Kilometers
 April, 1999



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FIGARO PROSPECT

FIGURE 2
MAIN PERMITS



April, 1999

peridotitic garnets, eglogitic garnets, and chromites in glacial till samples. The till samples were collected in the vicinity and in a down-ice direction from the prospect and the indicator grains could be indicative of diamondiferous kimberlites existing within an area identified as the Peace River Trend (Dufresne et al., 1996). The Figaro prospect exists along the northern boundary of the Peace River Trend.

Ashton Mining of Canada Inc. in partnership with Alberta Energy Company Ltd. and Pure Gold Minerals Inc. have identified 31 kimberlite intrusives within the Buffalo Head Hills of northern Alberta (Figure 1). The diamond bearing kimberlites are located about 40 km east of the Figaro prospect, intrude through the Buffalo Head basement terrane, and occur within the upper Cretaceous aged Shaftesbury Formation, Dunvegan Formation, and Smoky Group sedimentary package. The kimberlites were discovered utilizing high resolution aeromagnetics (HRAM) and subsequently confirmed by diamond indicator mineral sampling, ground geophysics, and drilling.

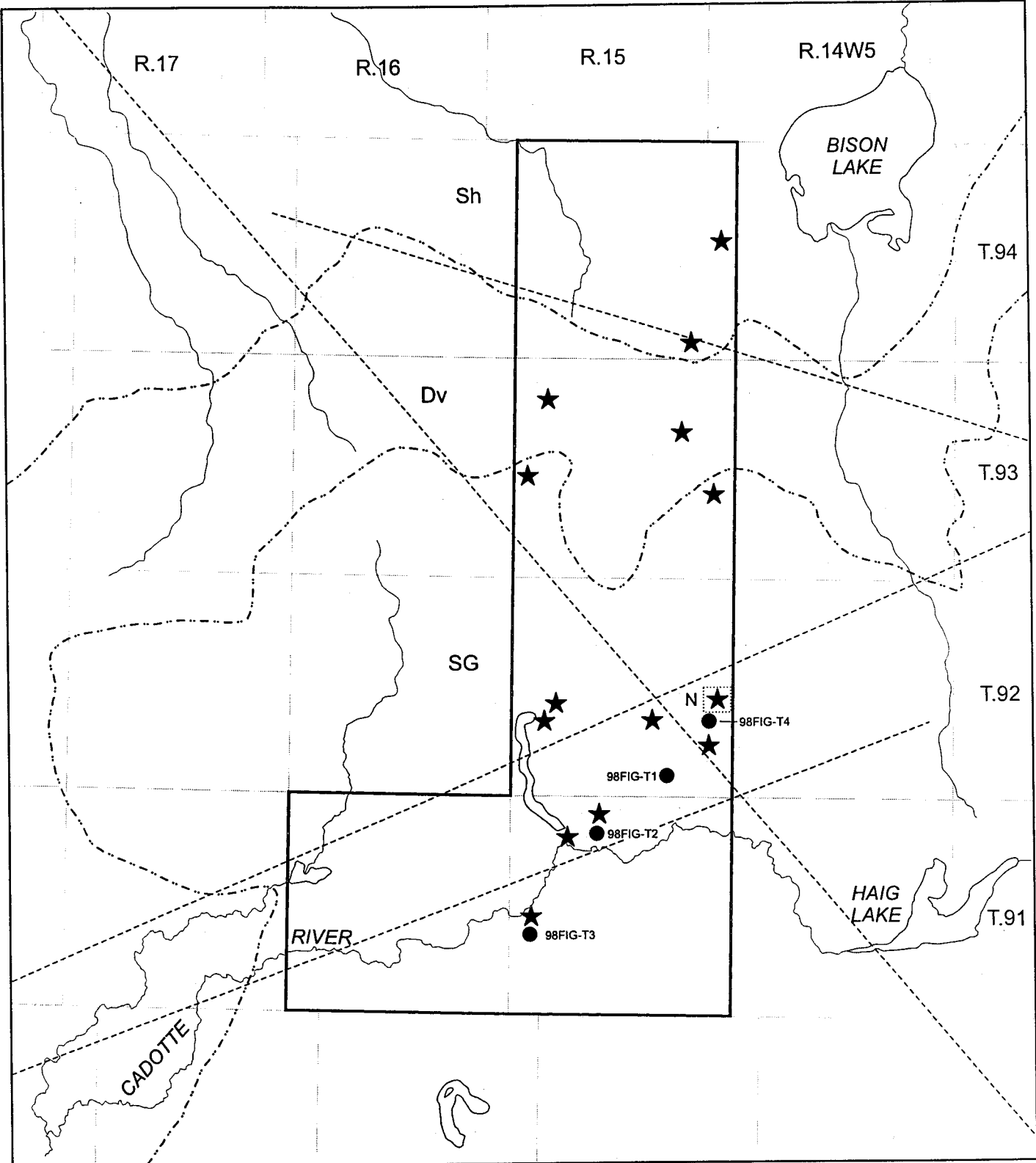
About 180 km to the east of the Figaro prospect, Kennecott Canada Exploration Inc. in joint venture with Montello Resources Ltd. and Redwood Resources Ltd. have identified 7 kimberlite intrusives within the Birch Mountains of northeastern Alberta (Figure 1). The intrusives appear to be sourced from beneath the Taltson Arc and emplaced within upper Cretaceous Smoky Group marine shales; the Taltson is a magmatic belt of strained plutonic and metasedimentary rocks of Proterozoic (2.0-1.8 Ga) age (Ross et al., 1991).

REGIONAL GEOLOGY

Basement and Prospect Geology

The Figaro prospect lies near the western edge of the Western Canada Sedimentary basin and is situated near the axis of the northeast trending Peace River Arch (Figure 1). The crystalline basement underlying the Figaro prospect belongs to the lower Proterozoic (2.0 to 2.4 Ga) Buffalo Head Terrane. The Buffalo Head Terrane is a magmatic belt composed predominately of felsic to intermediate metaplutonic rocks with subordinate metavolcanic rocks which were accreted approximately 2.0 billion years ago. Due to its age, thickness, and relatively stable history since accretion, the Buffalo Head Terrane is currently the focus of extensive diamond exploration in northern Alberta.

Overlying the basement rocks, a thick sequence of Phanerozoic strata exists (Table 2). Regional mapping by Green et al. (1970) shows the bedrock geology on the Figaro prospect to consist of upper Cretaceous sediments including marine fish-scale bearing units and bentonites of the Shaftesbury Formation, deltaic to marine sandstones of the Dunvegan Formation, and marine shales of the Smoky Group (Figure 3).



SYMBOLS

- ★ Airborne magnetic / electromagnetic geophysical anomaly
- N □ Ground magnetometer geophysical grid; identifier
- 98FIG-T3 Diamond indicator mineral till sample site; identifier
- - - Interpreted geologic structure
- · - · - Geologic contact:
 SG - Smoky Group marine shale
 Dv - Dunvegan Formation deltaic to marine sandstone
 Sh - Shaftesbury Formation marine shale

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 FIGARO PROSPECT

FIGURE 3
GEOPHYSICAL ANOMALIES,
TILL SAMPLES, GEOLOGY,
STRUCTURE

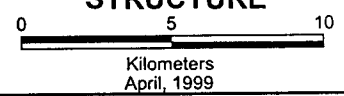


TABLE 2
REGIONAL STRATIGRAPHY

Age	Name	Description
Quaternary		unconsolidated glacial drift
Cretaceous	Smoky Group	marine shale
	Dunvegan Formation	deltaic to marine sandstone
	Shaftesbury Formation	marine shale
	Peace River Formation	shoreline sandstone, marine shale
	Spirit River Formation	marine shale
Mississippian	Banff Formation	marine limestone
	Exshaw Formation	marine limestone
Devonian	Wabamun Group	marine limestone, evaporites
	Winterburn Group	marine carbonates, siliclastics
	Ireton Formation	marine shale
	Beaverhill Lake Group	marine limestone
	Watt Mountain Formation	marginal marine shale, limestone
	Muskeg Formation	supratidal evaporites
	Keg River Formation	shallow marine limestone
Precambrian	Granite Wash	crystalline basement

Glacial deposits on the Figaro prospect are widespread and bedrock exposure sparse. Surficial material is predominately till in the form of ground moraine and sand. Glacial morphology in the vicinity of the prospect indicate ice movement was dominantly from the north to south. Drift thickness appears relatively shallow attaining a thickness of about 80 m along the southeastern prospect boundary.

Structural Geology

The Figaro prospect is located near the axis of the northeast trending Peace River Arch, a tectonic zone where the crystalline basement is up to 800 m to 1,000 m above the regional basement elevation (Ross et al., 1991). The Peace River Arch has undergone periodic uplift and subsidence from the late Proterozoic until at least the late Cretaceous which has generated a zone of structural disturbance up to 140 km wide. This pattern of uplift and subsidence has imposed a structural control on the deposition of the Phanerozoic strata and caused a reticular pattern of basement faults which may not only be responsible for structurally controlled oil and gas pools, but may have provided potential pathways for deep-seated intrusive magmas.

During the mid Cretaceous to early Tertiary, compressive forces associated with the orogenic event which led to the formation of the Rocky Mountains caused the Peace River Arch to be emergent and caused the reactivation of many prominent basement faults; the Buffalo Head kimberlites are believed to have been emplaced during the mid- to upper Cretaceous time period. As with the Buffalo Head kimberlites, the Figaro prospect is situated near the axis of the Peace River Arch and the prospect is underlain by several northwest and northeast trending basement faults noticeable on

satellite imagery (Figure 3). Several prospective shallow source aeromagnetic anomalies exist on the Figaro prospect in close proximity to linear topographic features which may be the surface expression of deep seated tectonic structures affecting the overlying sedimentary strata.

EXPLORATION

Airborne Geophysical Survey

During May, 1998, Geoterrex-Dighem (Geoterrex) was contracted by New Claymore to fly a low level airborne magnetic and deep penetrating electromagnetic multicoil survey (GEOTEM) over the Figaro prospect. The survey totaled 2,060 line-km's, covered 80 per cent of the prospect, and provided high resolution magnetic and deep penetrating electromagnetic data. The fixed-wing survey was drape flown at 120 m terrain clearance along north-south traverse lines spaced at 200 m intervals; the towed magnetometer sensor height was 73 m above ground and the electromagnetic system receiver 70 m above ground. The data was compiled and processed by Geoterrex in their Ottawa office.

Prior to the Figaro prospect survey, an orientation GEOTEM survey totaling 1,026 line-km's was flown over an area known to contain several of the Buffalo Head kimberlites. The orientation survey detected 13 highly magnetic and strong localized resistive features known to be kimberlites and provided valuable information toward the interpretation of the Figaro prospect data. Geophysical consultant Mr. William Pelton was contracted to process and interpret the orientation and Figaro GEOTEM survey data and prioritize any geophysical anomalies identified. After data leveling and processing, total magnetic field contour and flight line magnetic and electromagnetic profiles were examined for discrete geophysical anomalies of limited areal extent and on the basis of magnetic intensity, size, shape, electromagnetic signature, relation to present day or paleodrainage and interpreted regional geologic structures, 14 geophysical targets were identified which possess characteristics of possible intrusive origin. The contoured total field magnetic intensity map is contained in a map pocket at the end of the report; radar altimeter elevation, total magnetic field intensity, and X and Z channel resistivity profiles for the Figaro prospect are given in Appendix 4 and for the Buffalo Head kimberlites in Appendix 5.

Ground Geophysical Survey

During July, 1998, 1 ground magnetometer geophysical survey was completed over a select airborne geophysical target on the Figaro prospect. The airborne target identified for ground follow-up has a sharp magnetic amplitude of 18 nT coincident with a weak resistive electromagnetic signature (Appendix 4, Line 203, Anomaly N) and is proximal to the intersection of two interpreted geologic structures (Figure 3). In total, 12.0 line-km of grid lines were surveyed and 11.0 line-km of ground

magnetometer surveying completed over the target. After a baseline was surveyed, grid cross-lines were established at 100 m intervals and on each cross line, stations were chained by topofil and marked at 25 m intervals. At 12.5 m stations along each cross-line, a magnetometer reading was collected using a GEM System GSM-19 integrated Overhauser effect proton precession magnetometer. The magnetic readings were corrected for terrestrial field magnetic variation using a GSM-19 basestation. The corrected magnetometer data was gridded, contoured, and used to generate Figure 4 (Appendix 2). The ground expression of anomaly N is a double peak, elliptical, 20 nT magnetic high about 200 m long x 80 m wide which exists along a positive magnetic linear.

Glacial Till Diamond Indicator Mineral Sampling

During July, 1998, glacial till samples were collected on the Figaro prospect from sample sites located in a down-ice direction from 4 airborne geophysical anomalies. At each sample site, enough material was collected from a depth between 1.0 to 1.5 m to fill a 20 litre pail. Processing of the samples and preliminary mineral identification was performed by the Saskatchewan Research Council (SRC) in Saskatoon, Saskatchewan.

Processing and diamond indicator mineral picking by the SRC focused on the recovery of pyrope and eclogite garnet, olivine, chrome diopside, chromite, and picroilmenite mineral grains. In total, 60 mineral grains including 4 silicates and 56 oxides were recovered from the 4 samples and identified as possible diamond indicator mineral grains; indicator mineral grain results are given in Appendix 3. Silicate indicator minerals including 1 definite pyrope garnet and 1 possible eclogite garnet were recovered from sample 98FIG-T3 and 2 definite pyrope garnets from sample 98FIG-T4 (Figure 3). Oxide mineral grains totaling 55 possible picroilmenites were evenly distributed between the 4 samples; 1 possible chromite was recovered from sample 98FIG-T3. Electron microprobing is required to determine the quantitative major and trace element chemistry of the selected grains for mineral identification and comparison to mineral compositions indicative of kimberlite and diamond inclusion chemistry.

CONCLUSIONS AND RECOMMENDATIONS

Based upon a review of geologic and geophysical information available, it can be concluded that the Figaro prospect exists in an area favourable for hosting kimberlitic intrusives. The Buffalo Head basement terrane and overlying sedimentary strata host diamond bearing kimberlites approximately 40 km to the east of the prospect and geologic structures believed to be associated with the emplacement of the intrusives exist within or near the Figaro prospect. Interpretation of aeromagnetic and electromagnetic geophysical data, digital elevation models, and Landsat imagery over 80 per cent of

the prospect has identified 14 geophysical targets which may be suggestive of kimberlitic intrusives. One ground geophysical survey conducted over an airborne target confirmed the presence of a magnetic anomaly although the anomaly exists along a positive magnetic linear.

Additional exploration on the Figaro prospect to evaluate for the presence of kimberlitic intrusives is warranted and recommended. Additional exploration should include:

- a) airborne magnetic survey over the remaining 20 per cent of the prospect;
- b) ground geophysical surveying over the remaining 13 airborne anomalies and any additional anomalies identified;
- c) systematic diamond indicator mineral till sampling along east-west oriented fences which traverse the prospect;
- d) electron microprobe quantitative analysis of diamond indicator mineral grains and comparison to kimberlite and diamond inclusion mineral chemistry;
- e) soil and/or loam sampling over and/or down-ice from individual anomalies accompanied by geochemical analysis for elements including nickel, chromium, niobium, cesium, titanium, strontium, and magnesium;
- f) acquisition of brokered seismic data over individual anomalies; and
- g) drill testing of select anomalies to a depth adequate to explain the geophysical target.

STATEMENT OF EXPENDITURES, COST ALLOCATION

A statement of expenditures for work completed on MAIM permits 9397020054 to 9397020058 is given in Table 3 (Appendix 1); total exploration expenditures amount to \$230,412.56. The Figaro permits are contiguous and the dispersal of exploration expenditures is given in Table 4 (Appendix 1).

QUALIFICATIONS

I, Todd Faragher of [REDACTED] T7X 3N2 of the Town of Spruce Grove, in the Province of Alberta hereby certify:

- 1) That I am a geologist residing at the above address.
- 2) That I graduated with a B.Sc. in geology from the University of Alberta, 1988.
- 3) That I have practiced my profession as a geologist from 1988 till present.
- 4) That this report is based upon field work completed by the author on the Figaro prospect and on review of available published and unpublished reports on the prospect and surrounding area.
- 5) That I currently hold a stock option to purchase 16,000 common shares of New Claymore Resources Ltd. at a fixed priced set October 1, 1998.
- 6) That I authorize the distribution of this report by Alberta Energy at the end of a term of confidentiality of one year commencing on the date which Alberta Energy receives this report.

Signed:

[REDACTED]

Todd Faragher, B.Sc.

this 30 day of April, 1999

REFERENCES

- Borneuf, D. (1981) Hydrogeology of the Peace River area, Alberta; Alberta Research Council Earth Sciences Report 81-2, 6 p.
- Dufresne, M.B., Eccles, D.R., McKinstry, B., Schmitt, D.R., Fenton, M.M., Pawlowicz, J.G., and Edwards, W.A.D. (1996) The diamond potential of Alberta; Alberta Geological Survey Bulletin No. 63, 97 p.
- Geoterrex-Dighem (1998) Logistics and processing report of the airborne magnetic and GEOTEM electromagnetic multicoil survey for the Figaro prospect, Buffalo Hills area, Alberta; report prepared for New Claymore Resources Ltd. by Geoterrex-Dighem, 13 p.
- Green, R. (1972) Geological map of Alberta; Alberta Research Council Map 35, scale 1:1,267,000.
- Ross, G.M., Parrish, R.R., Villeneuve, M.E., and Bowring, S.A. (1991) Geophysics and geochronology of the crystalline basement of the Alberta Basin, western Canada; Canadian Journal of Earth Science, vol. 28, p. 512-522.
- Tokarsky, O. (1972) Hydrology of the Bison Lake area, Alberta; Alberta Research Council Earth Sciences Report 72-2, 11 p.

APPENDIX 1

STATEMENT OF EXPENDITURES,

COST ALLOCATION

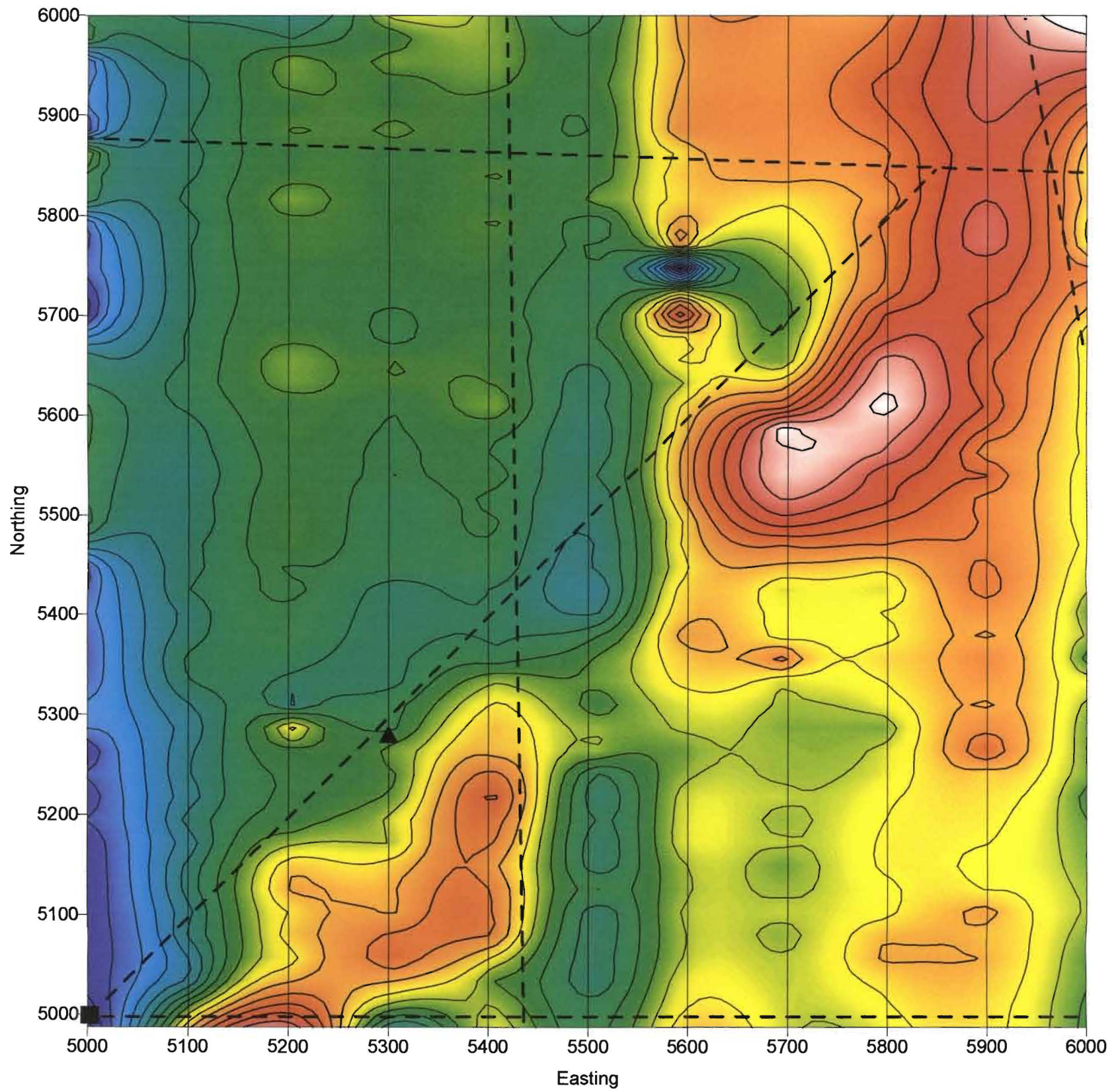
TABLE 4
COST ALLOCATION

MAIM PERMITS 9397020054 to 9397020058

MAIM Permit Number	Permit Area (ha)	Permit Commencement Date	Assessment Work Requirement (\$ / ha)	Assessment Amount Due (\$)	Exploration Expenditures (\$)	Assigned Assessment Amount (\$)
9397020054	9,216	February 28, 1997	5.00	46,080.00		46,080.00
9397020055	9,216	February 28, 1997	5.00	46,080.00		46,080.00
9397020056	9,216	February 28, 1997	5.00	46,080.00		46,080.00
9397020057	9,216	February 28, 1997	5.00	46,080.00		46,080.00
9397020058	9,216	February 28, 1997	5.00	46,080.00		46,092.56
Total	46,080			230,400.00	230,412.56	230,412.56

APPENDIX 2

GROUND MAGNETOMETER SURVEY FIGURE 4



SYMBOLS

- NAD 27 UTM co-ordinate
11V 0544675 E 6314790 N
- ▲ Till sample 98FIG-T4
- - - Seismic line
- Isomagnetic contour
contour interval 5 nT

**NEW CLAYMORE RESOURCES LTD.
FIGARO PROSPECT**

**FIGURE 4
GRID N
GROUND MAGNETOMETER SURVEY
TOTAL MAGNETIC FIELD CONTOURS**

Scale 0 100 200 Metres

April, 1999

APPENDIX 3

SELECTED DIAMOND INDICATOR MINERAL GRAINS

APPENDIX 3
SELECTED DIAMOND INDICATOR MINERAL GRAINS

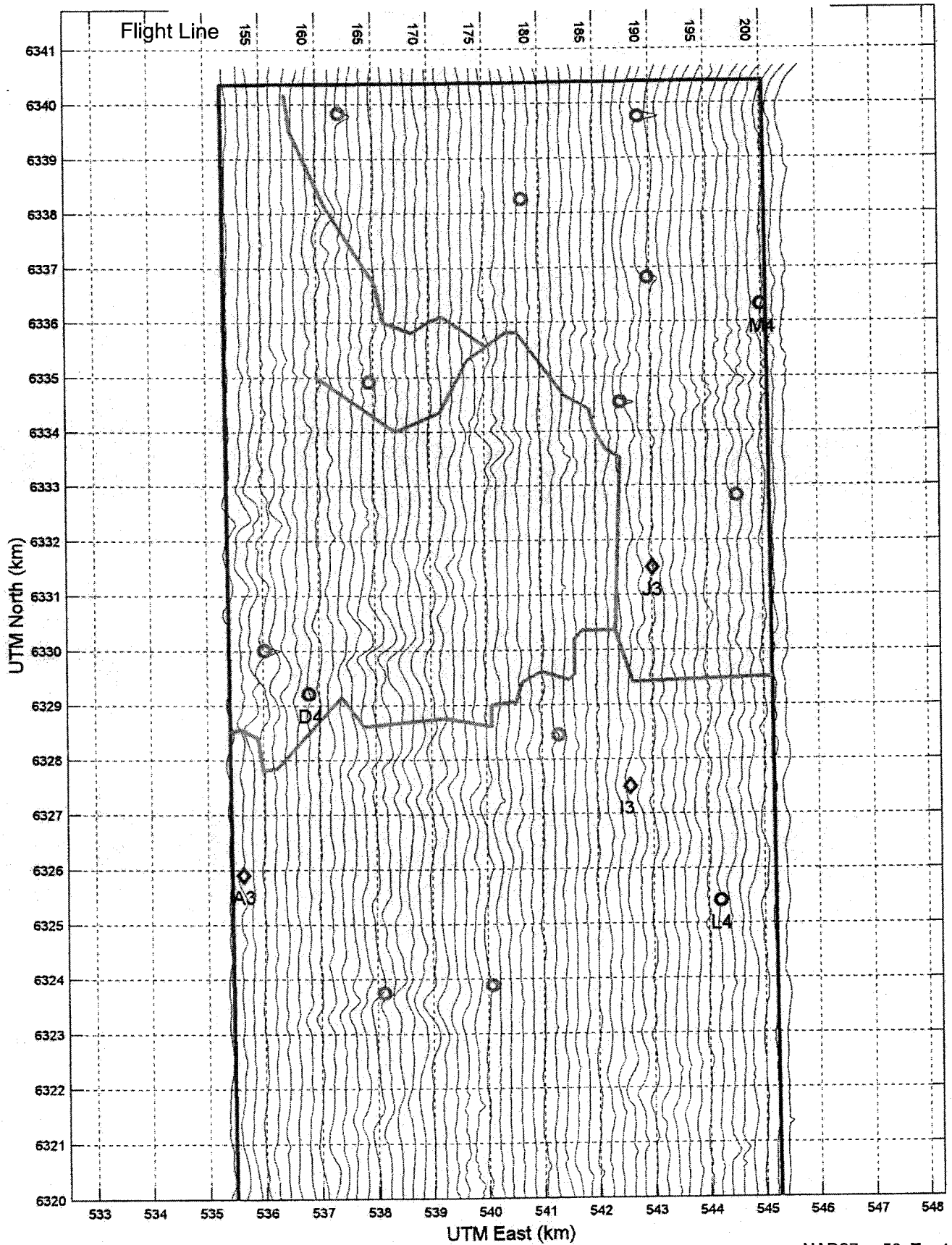
Sample Number	UTM Coordinates		Indicator Mineral Grains											
	Easting	Northing	Pyrope		Chrome Diopside		Eclogite		Olivine		Picroilmenite		Chromite	
			Def	Pos	Def	Pos	Def	Pos	Def	Pos	Def	Pos	Def	Pos
98FIG-T1	541490	6312075	0	0	0	0	0	0	0	0	0	15	0	0
98FIG-T2	538800	6309470	0	0	0	0	0	0	0	0	0	10	0	0
98FIG-T3	536100	6305300	1	0	0	0	0	1	0	0	0	15	0	1
98FIG-T4	544988	6315107	2	0	0	0	0	0	0	0	0	15	0	0

APPENDIX 4

GEOTEM MAGNETIC AND ELECTROMAGNETIC SURVEY

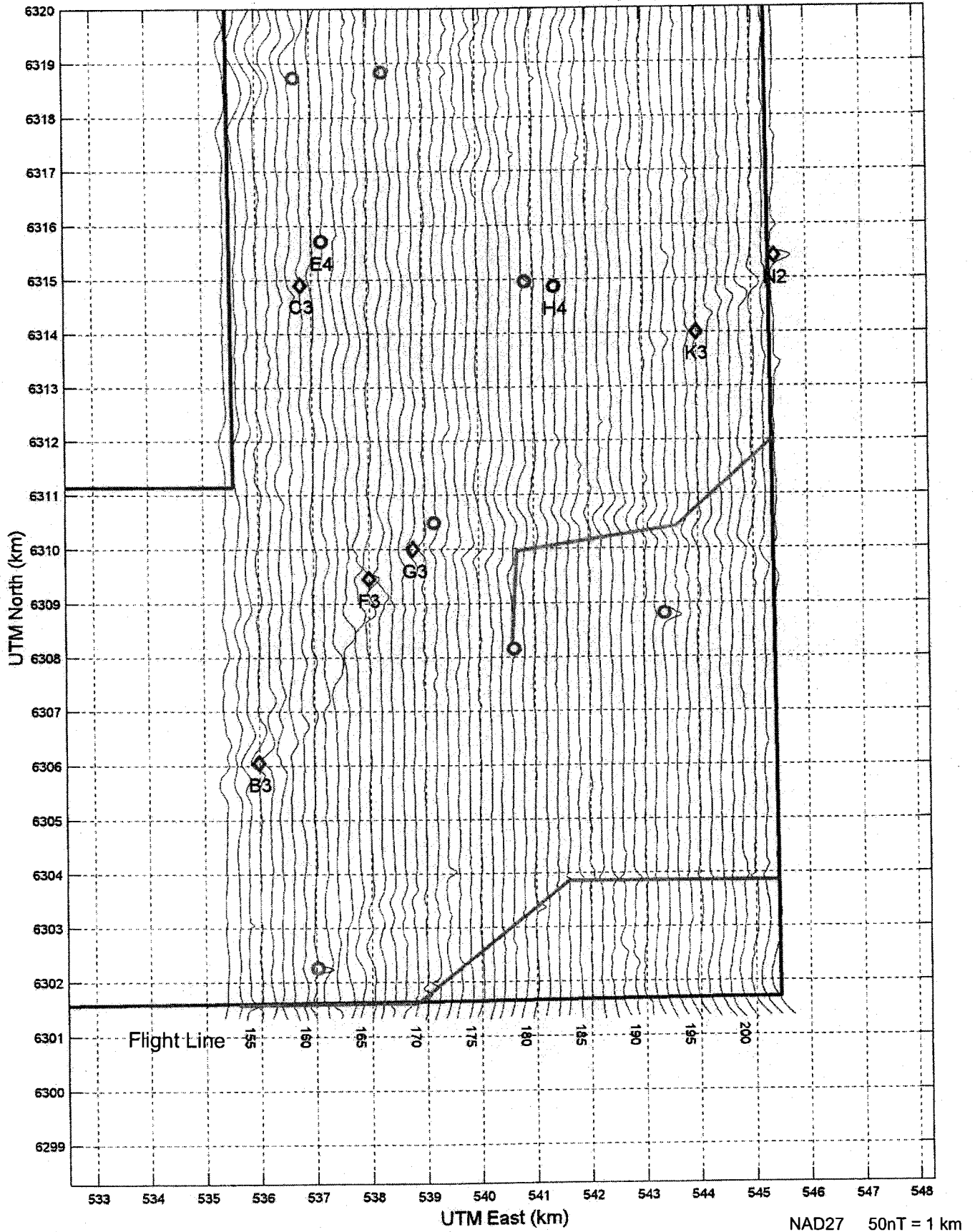
FLIGHT LINE PROFILES – FIGARO PROSPECT

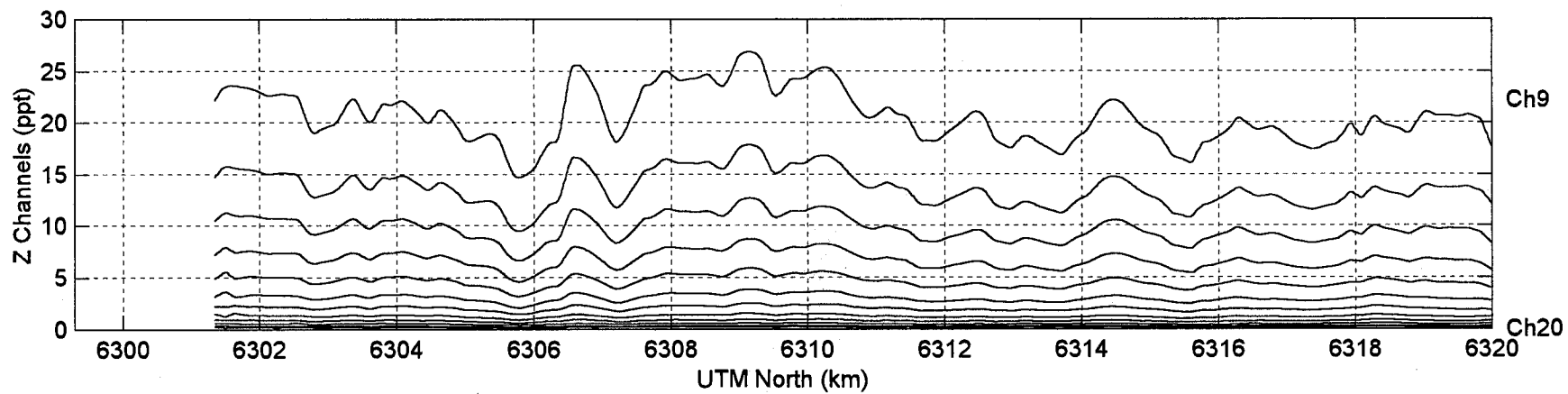
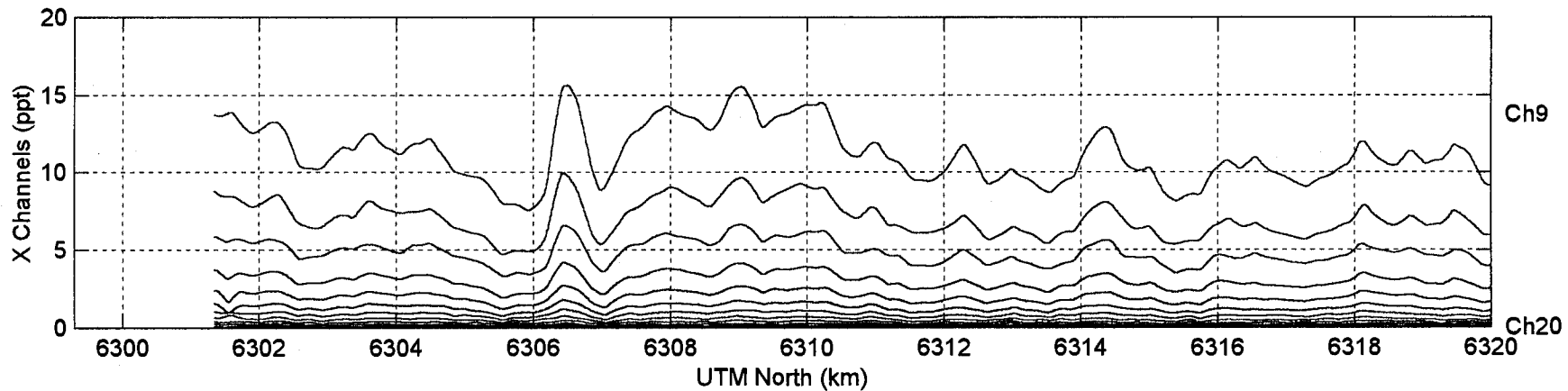
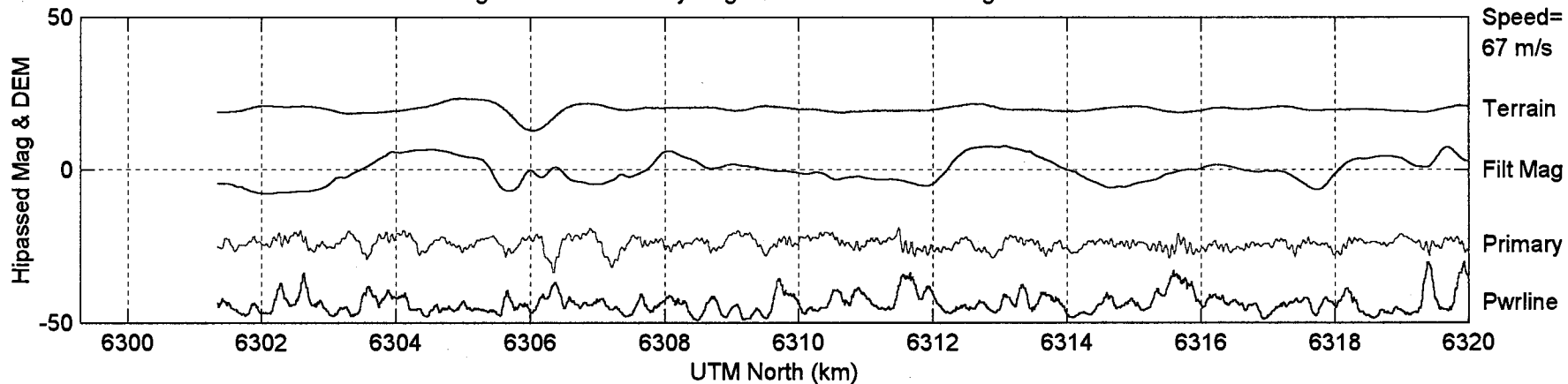
Geoterrex Survey of Figaro Prospect - North Half
Total Magnetic Field Stack Plot,
Flight Line Reference For GEOTEM Survey



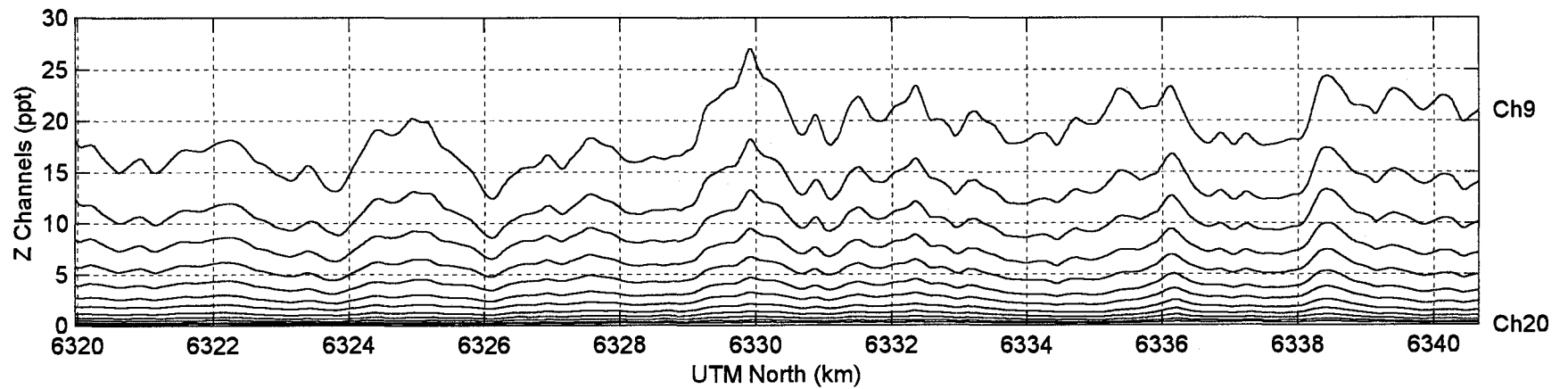
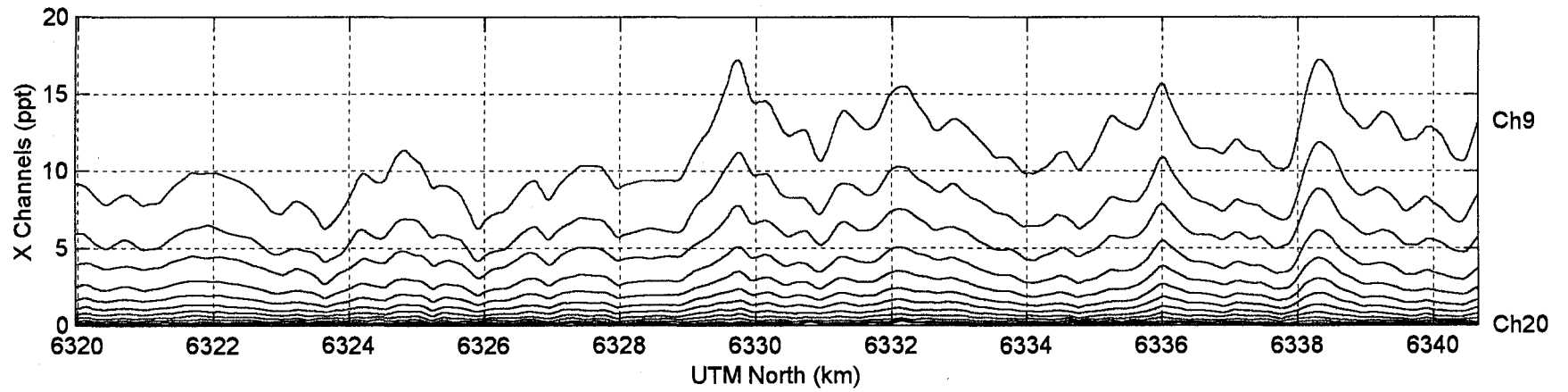
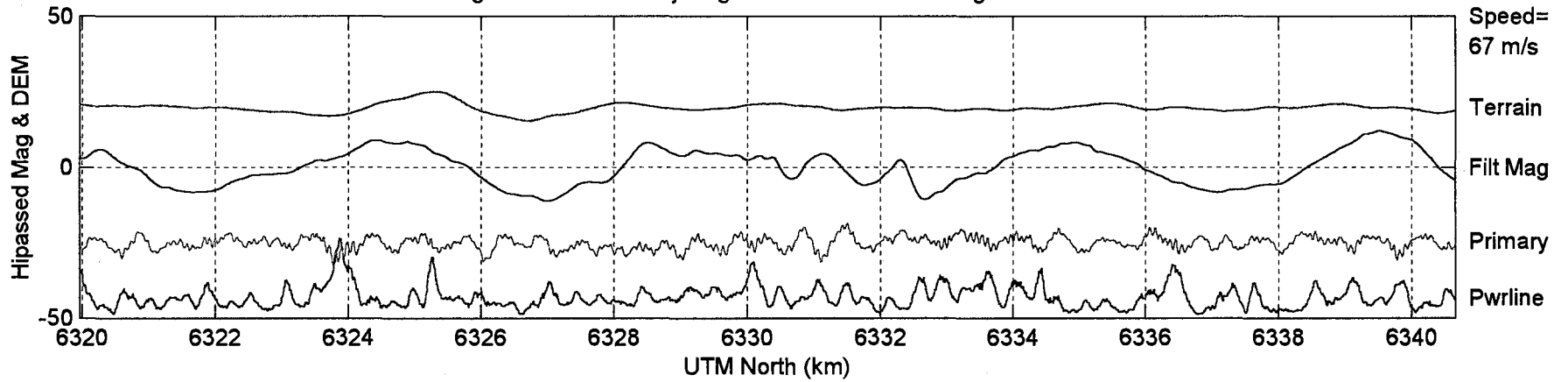
NAD27 50nT = 1 km

Geotrex Survey of Figaro Prospect - South Half
Total Magnetic Field Stack Plot,
Flight Line Reference For GEOTEM Survey

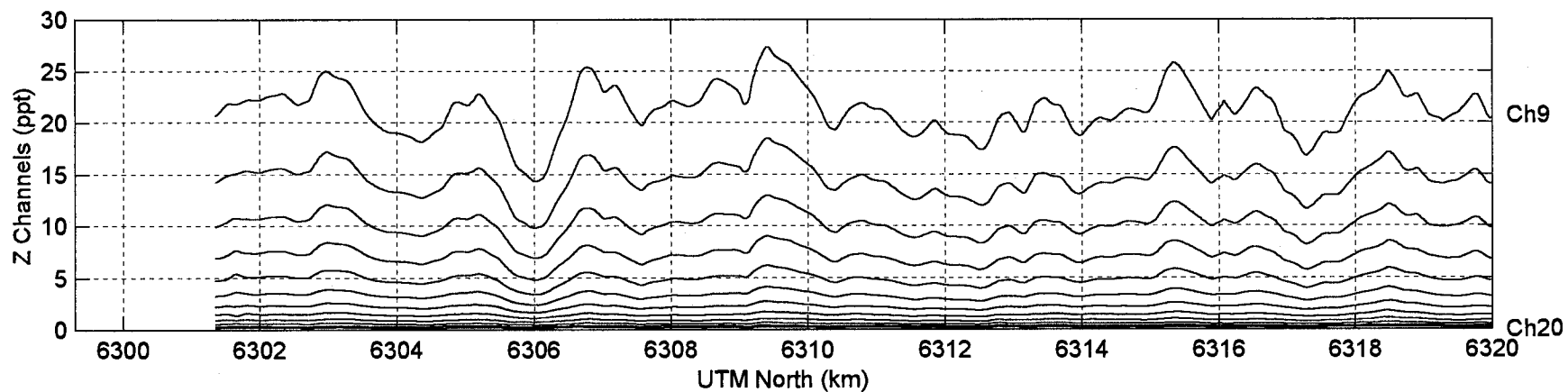
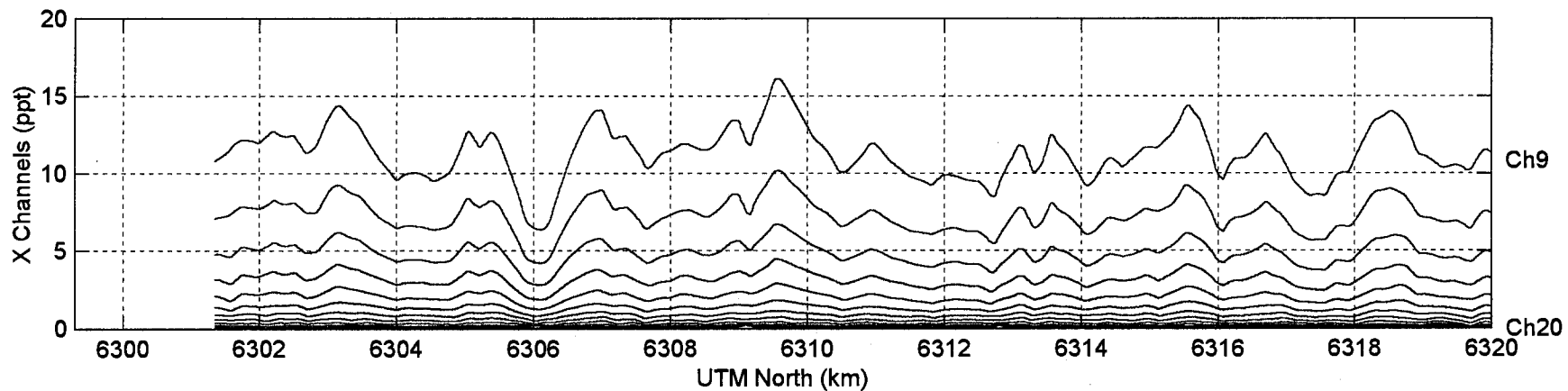
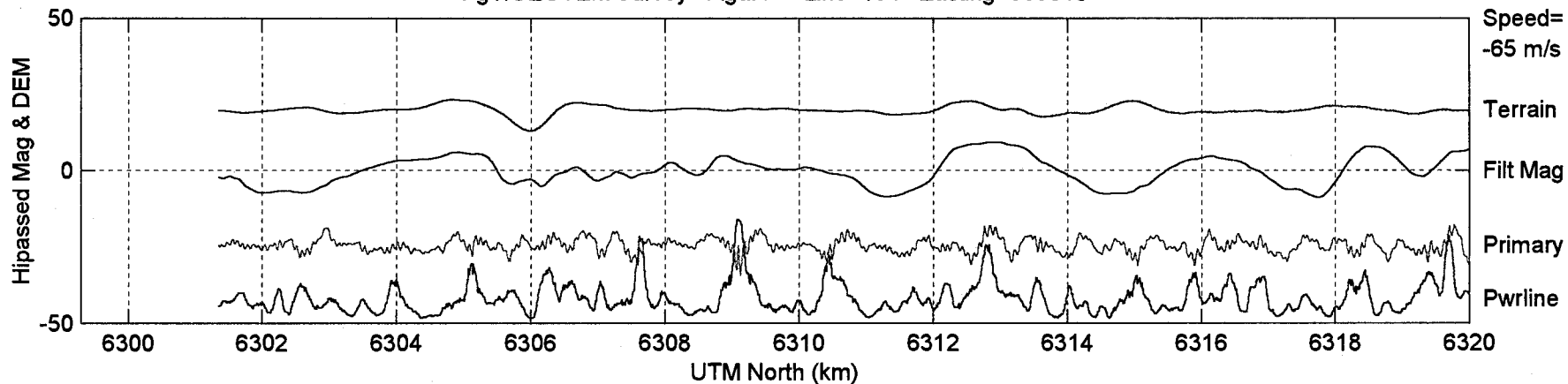




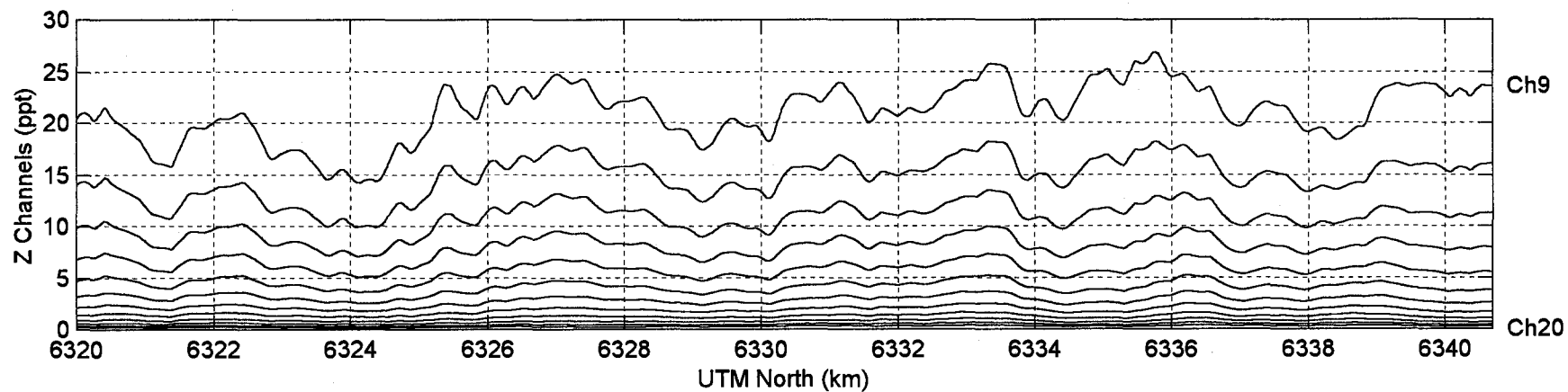
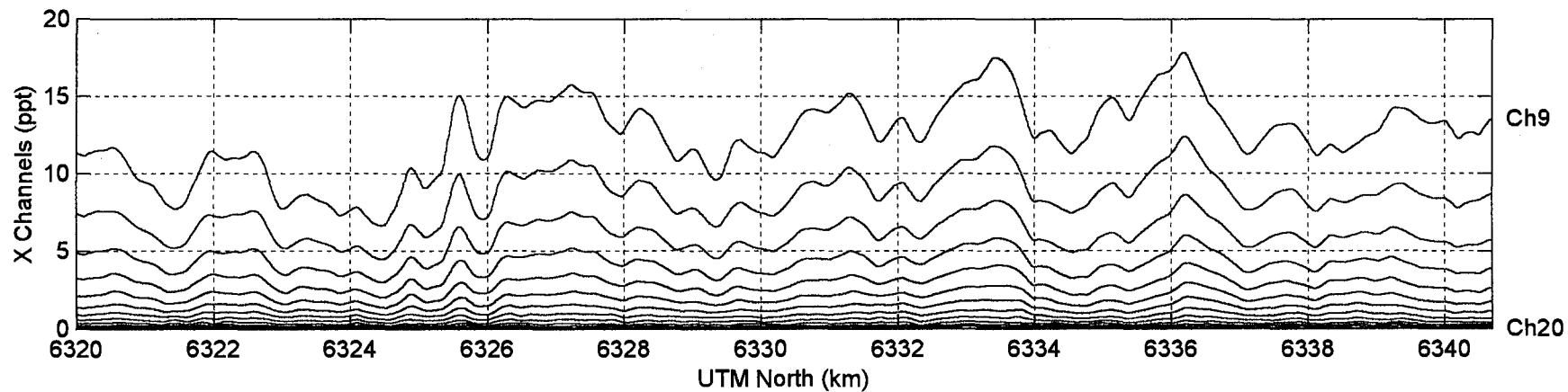
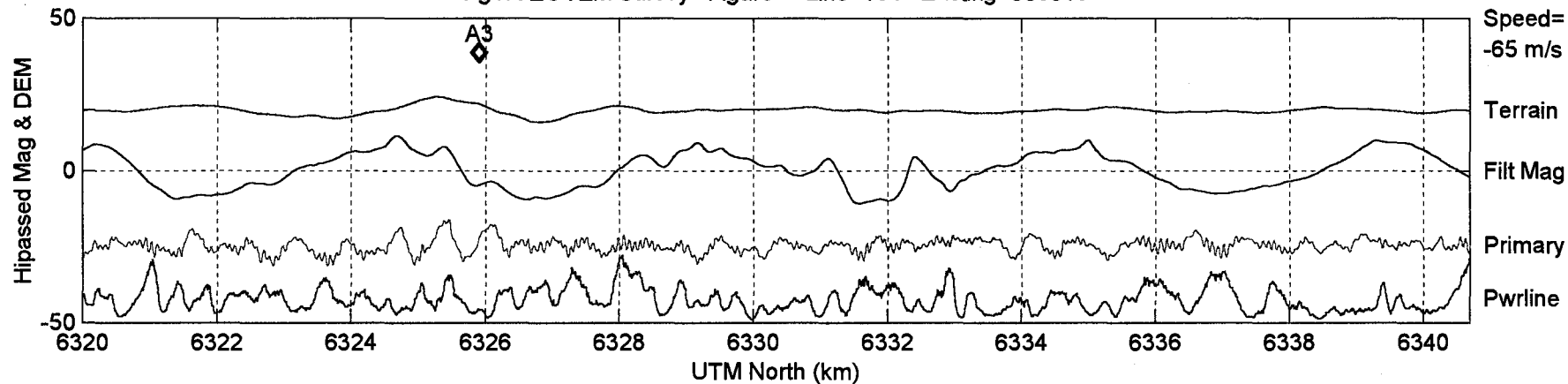
Pg1:GEOTEM Survey Figaro Line=153 Easting=535380



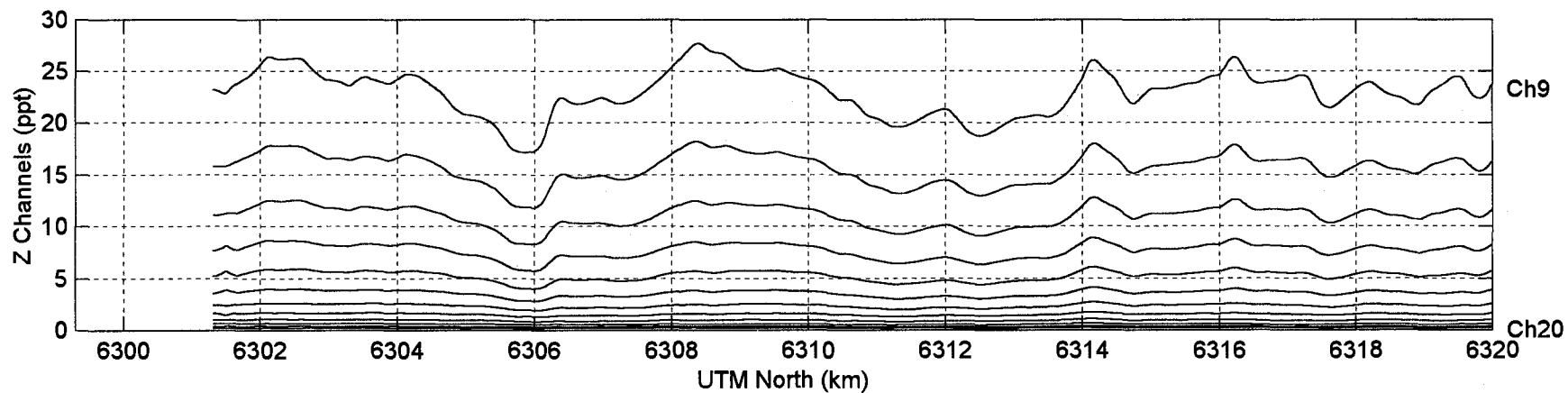
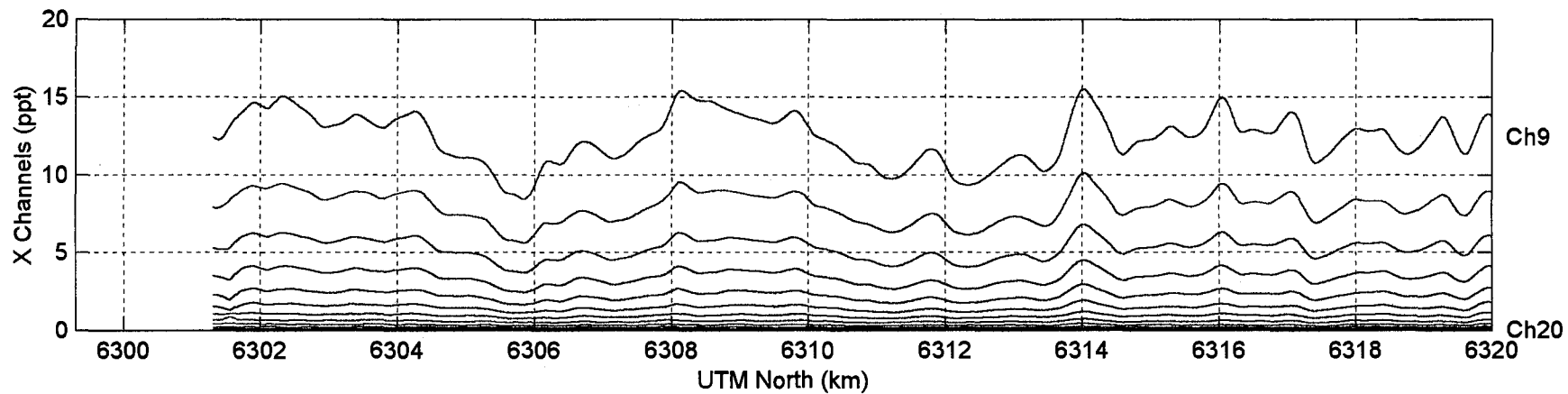
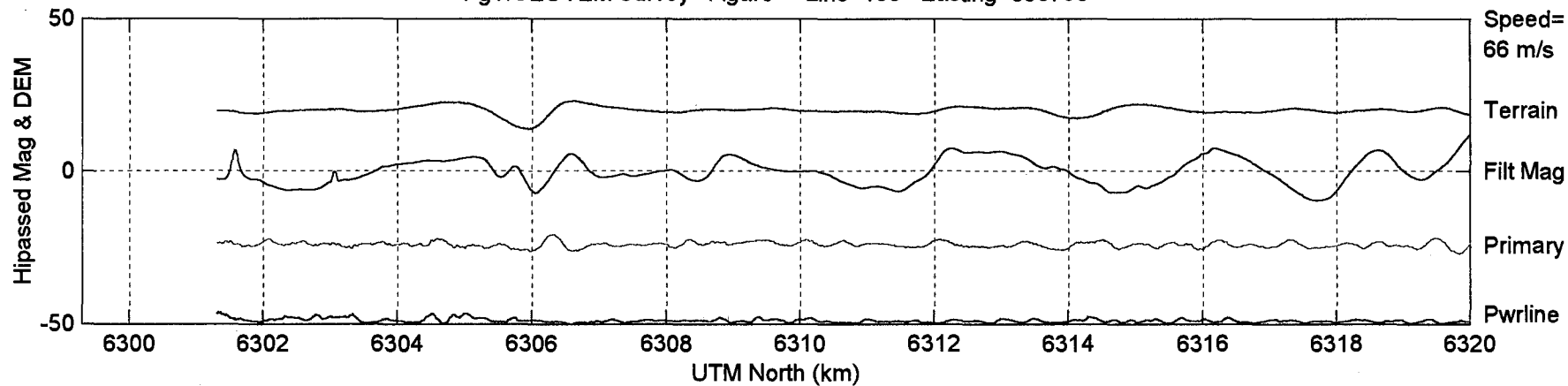
Speed=
-65 m/s

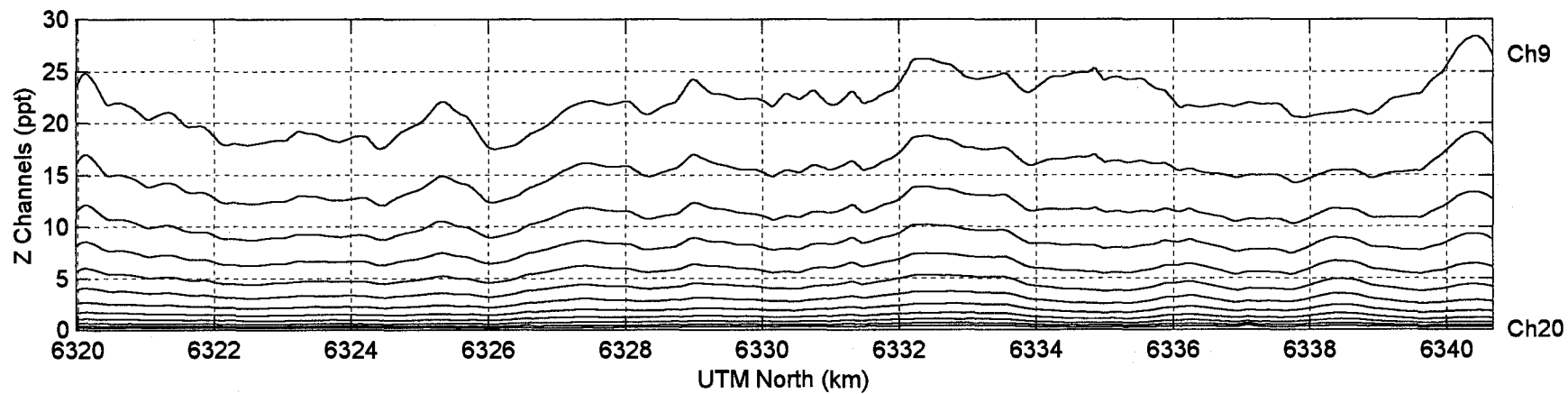
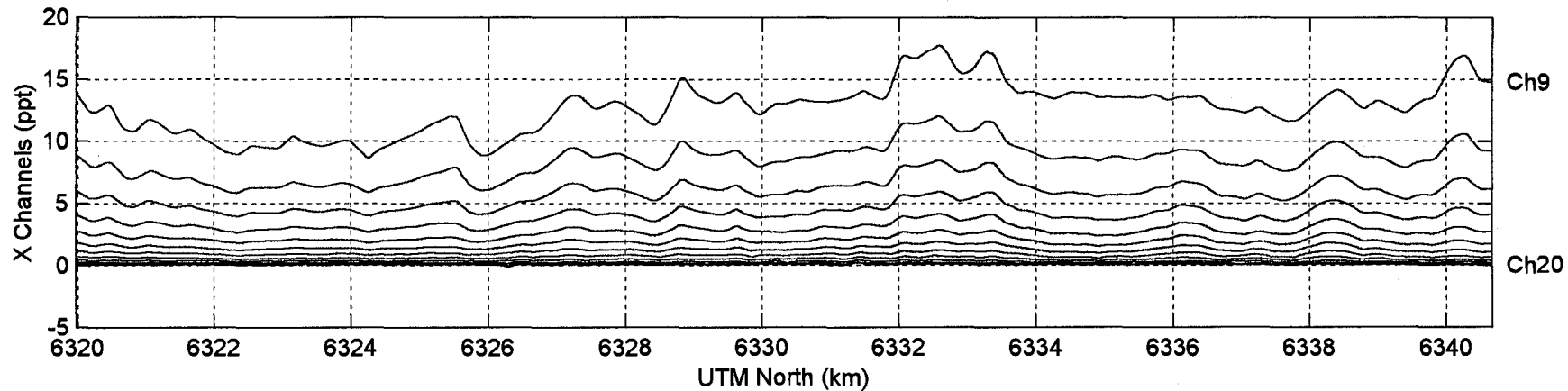
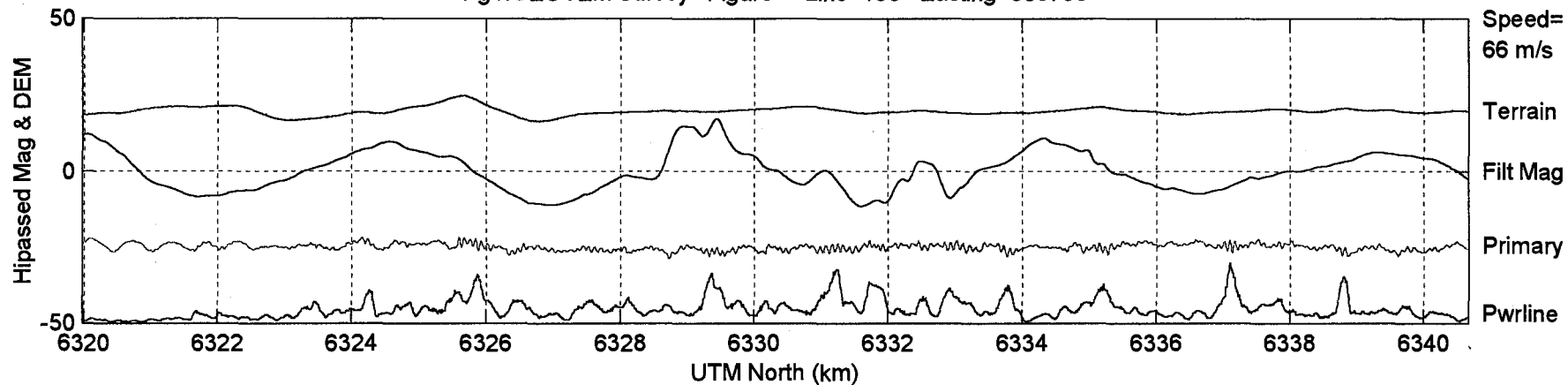


Pg1:GEOTEM Survey Figaro Line=154 Easting=535610

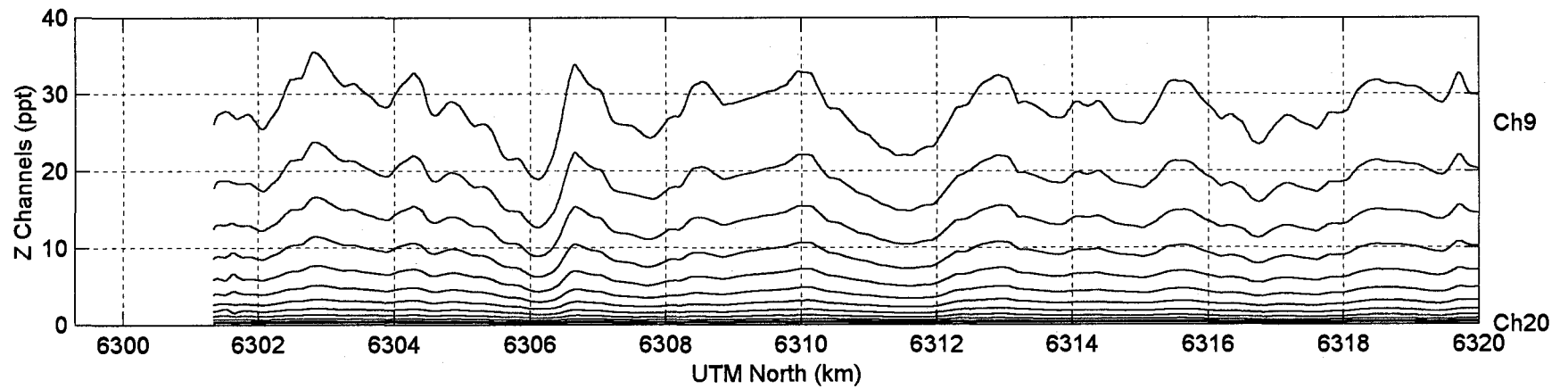
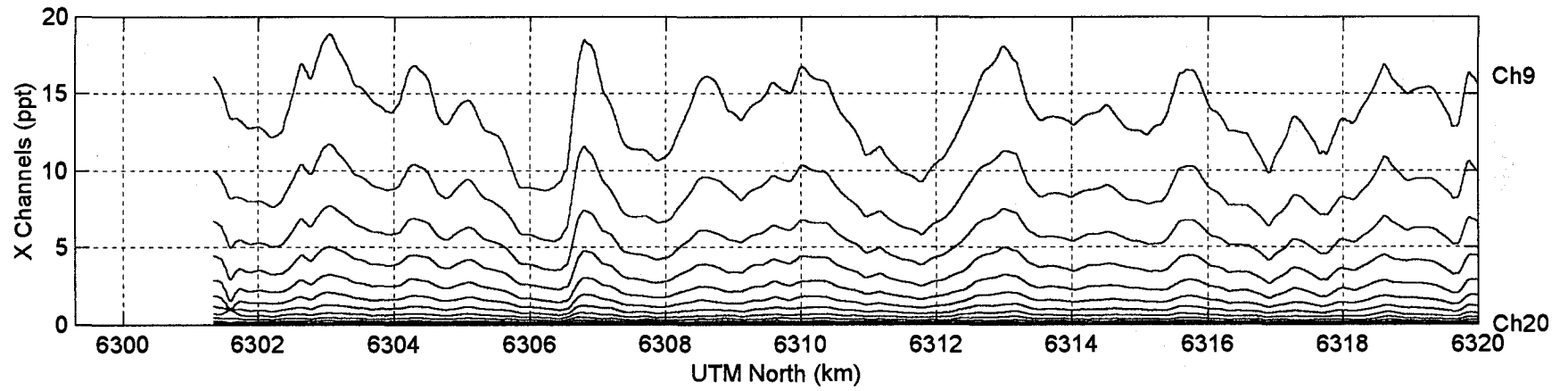
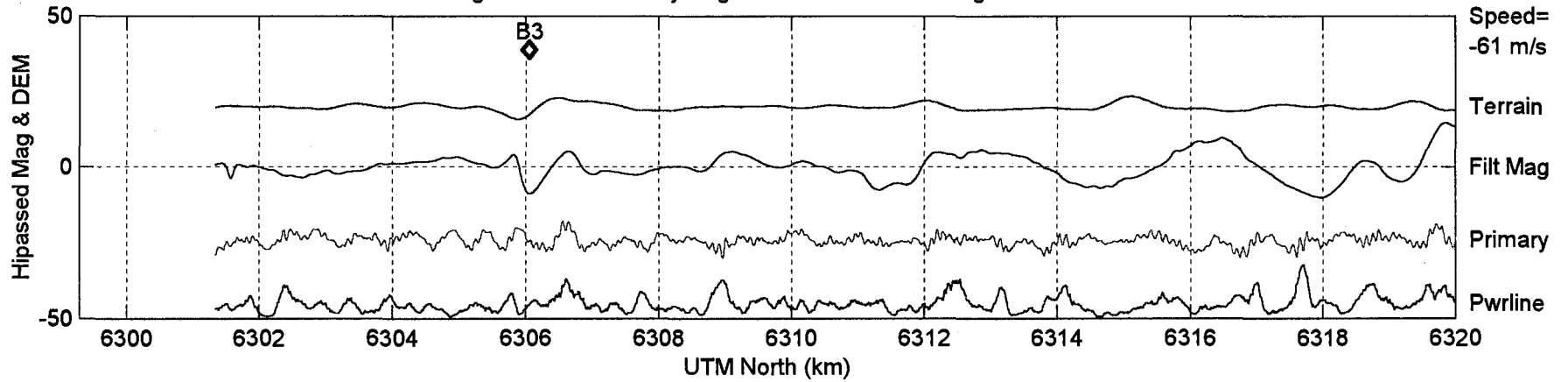


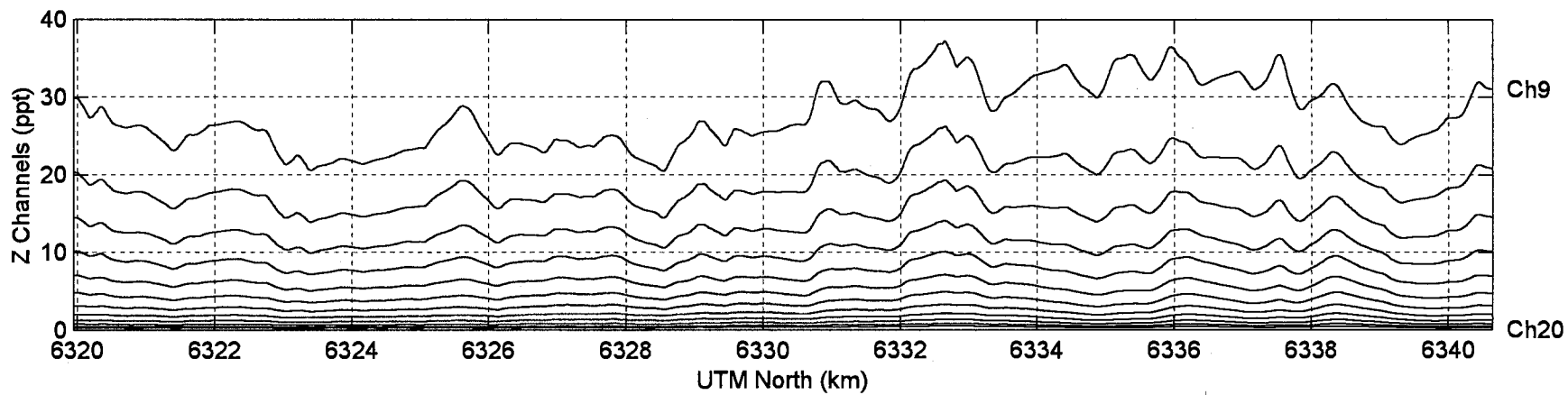
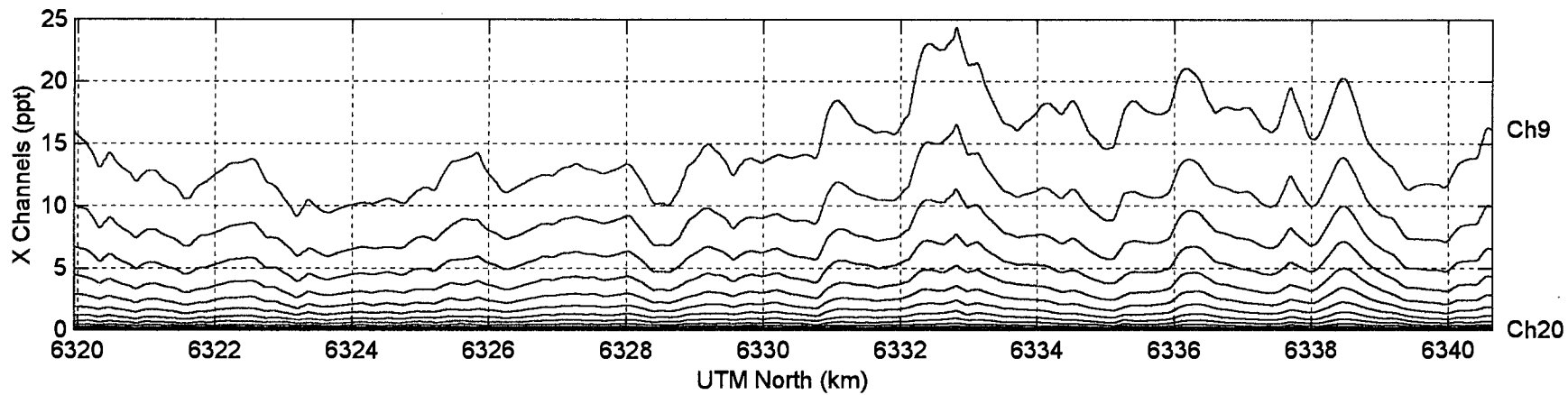
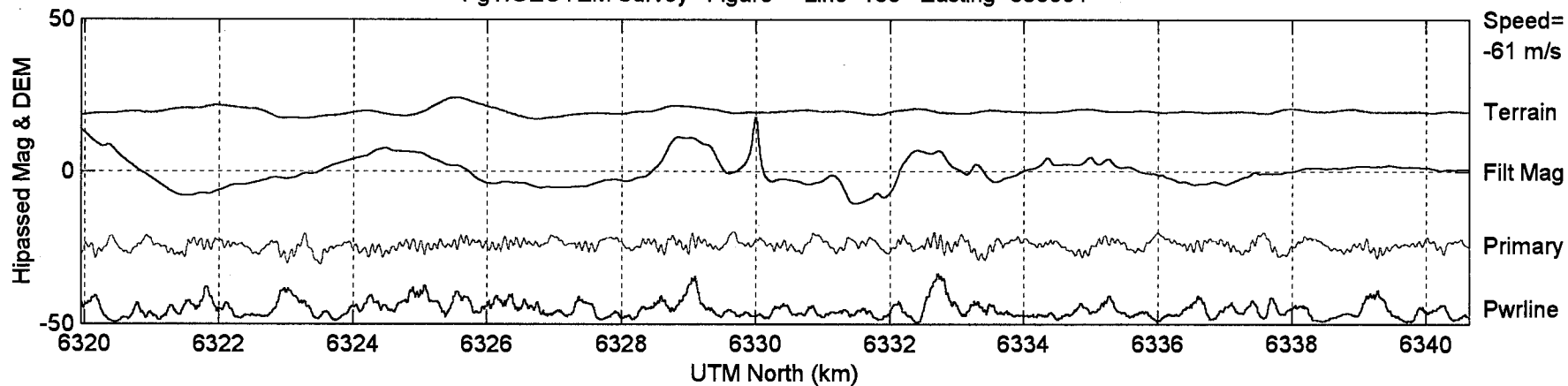
Speed=
66 m/s





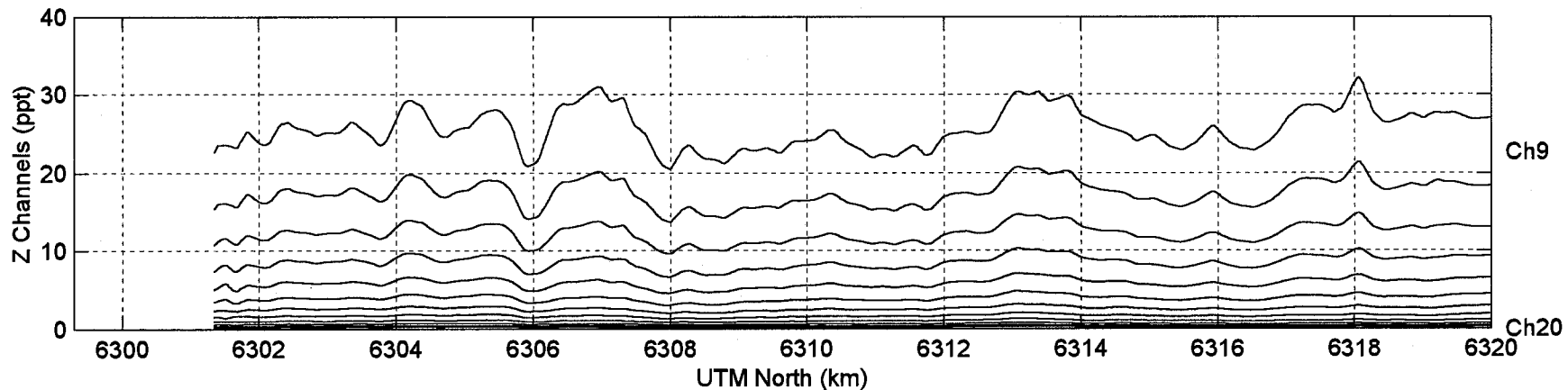
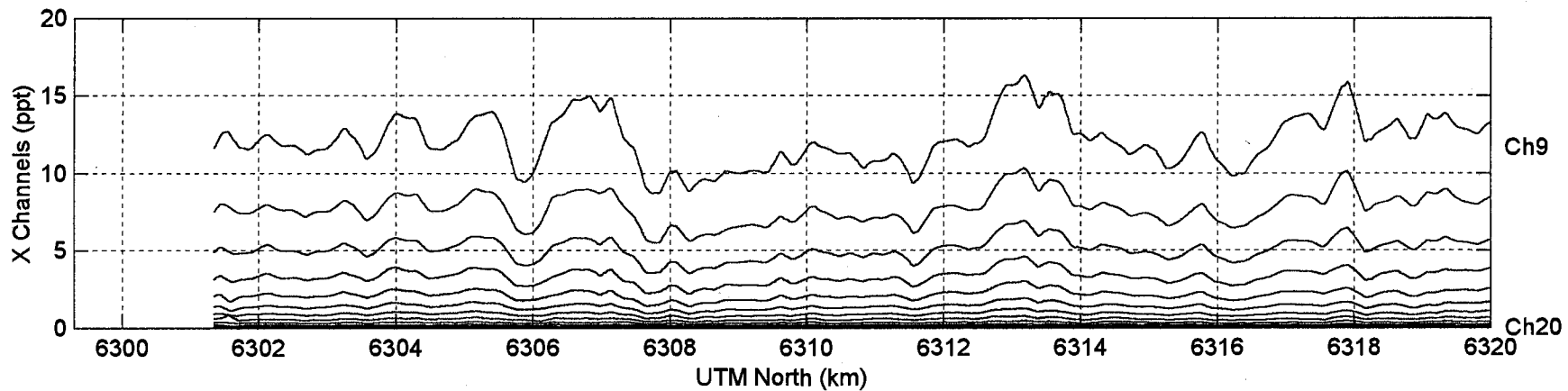
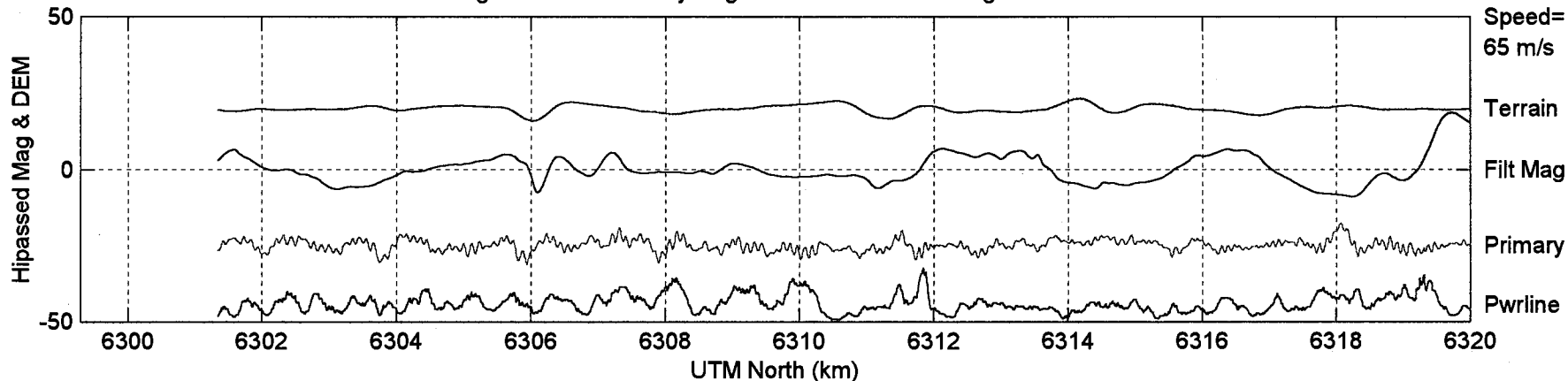
Pg1:GEOTEM Survey Figaro Line=156 Easting=536001

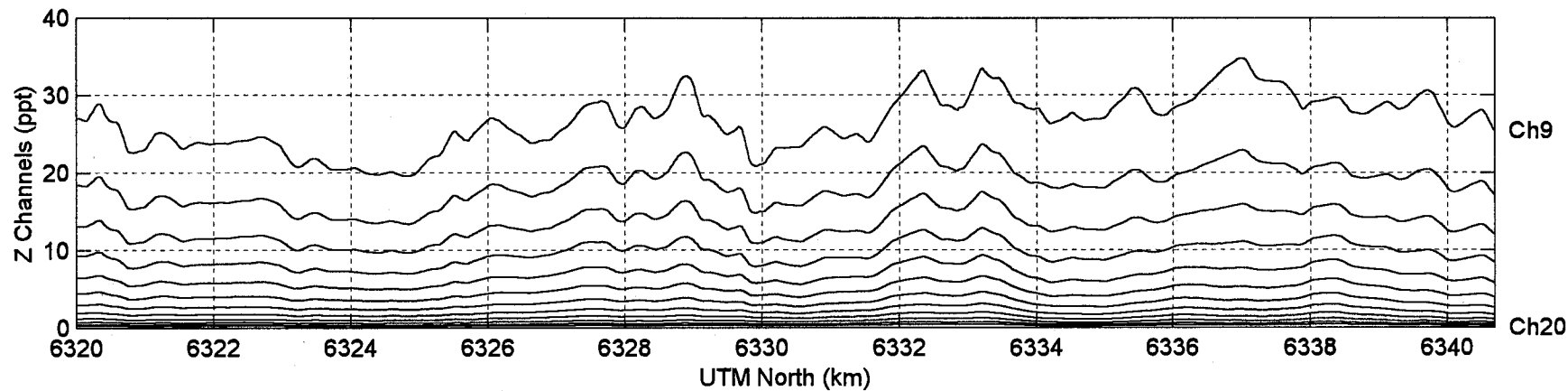
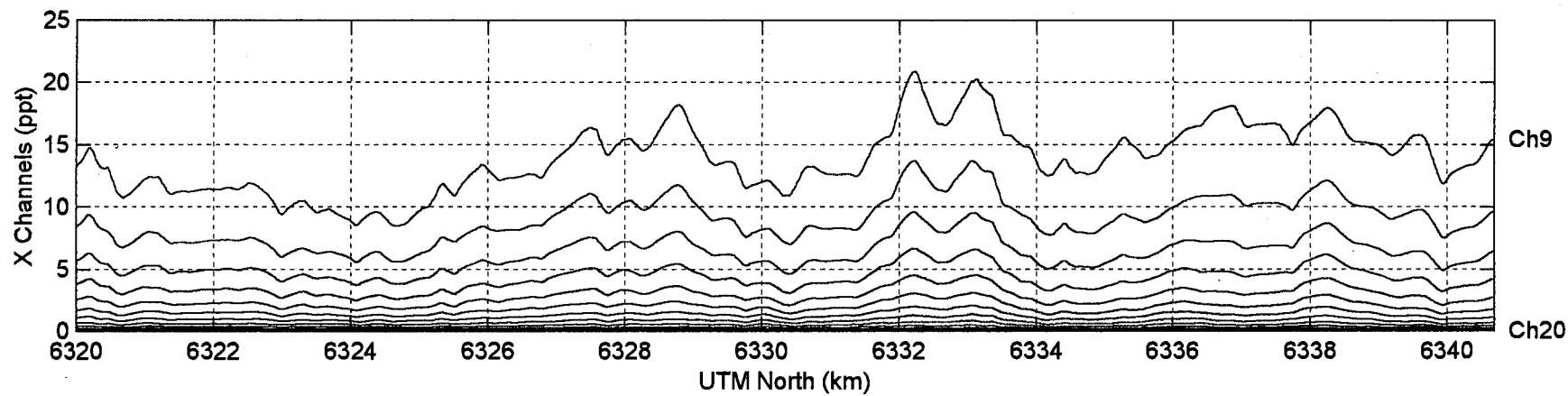
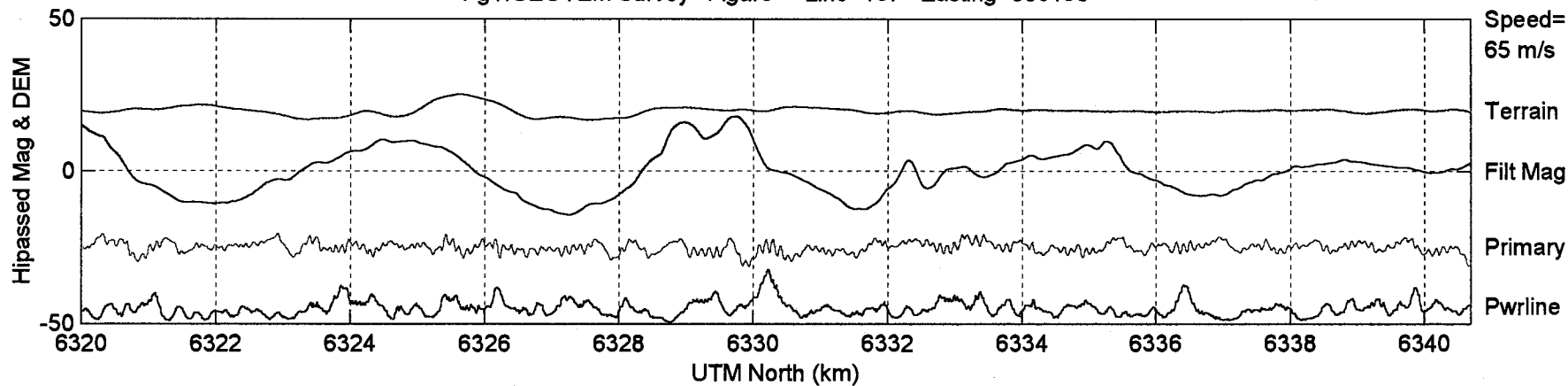




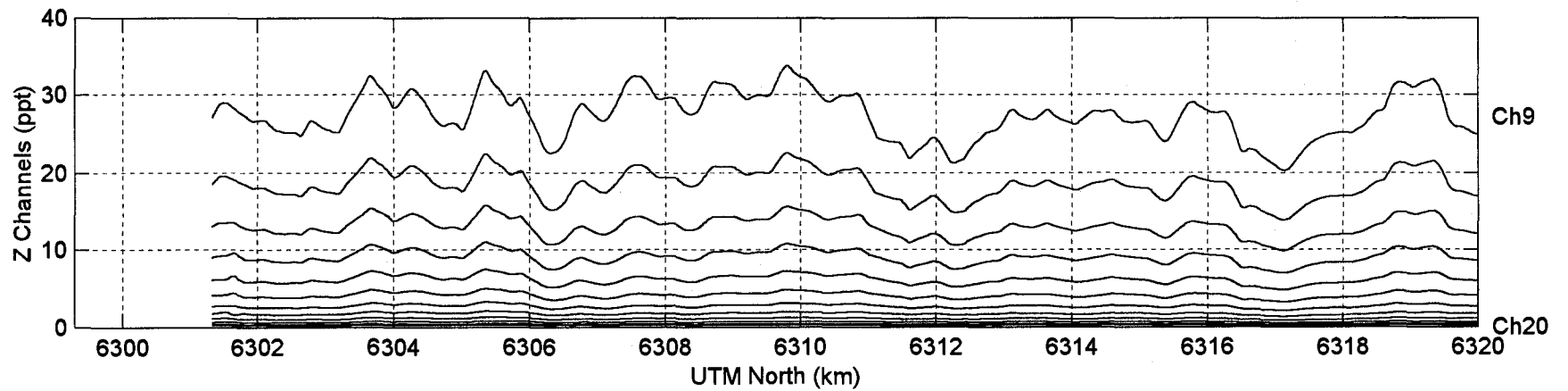
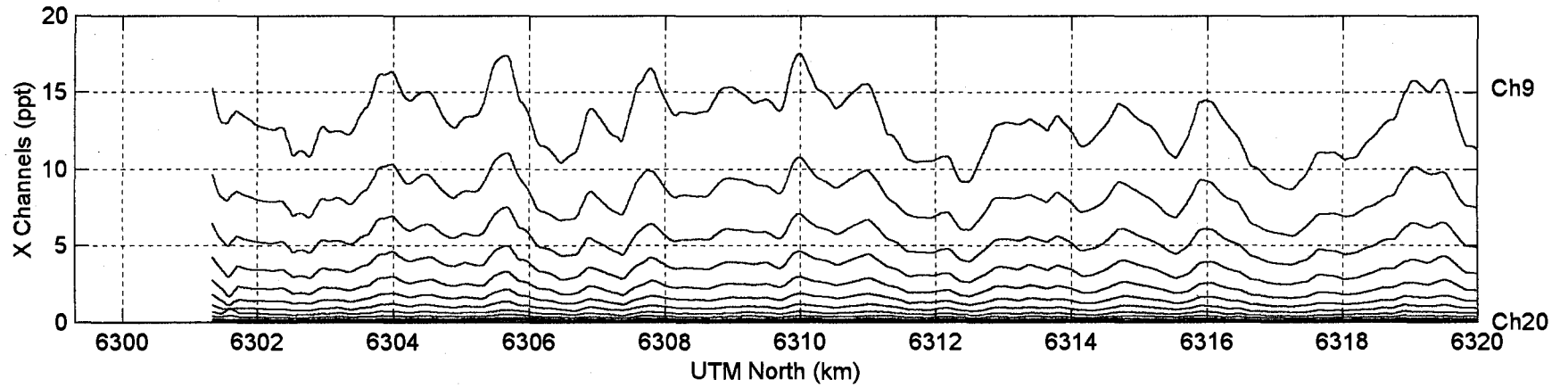
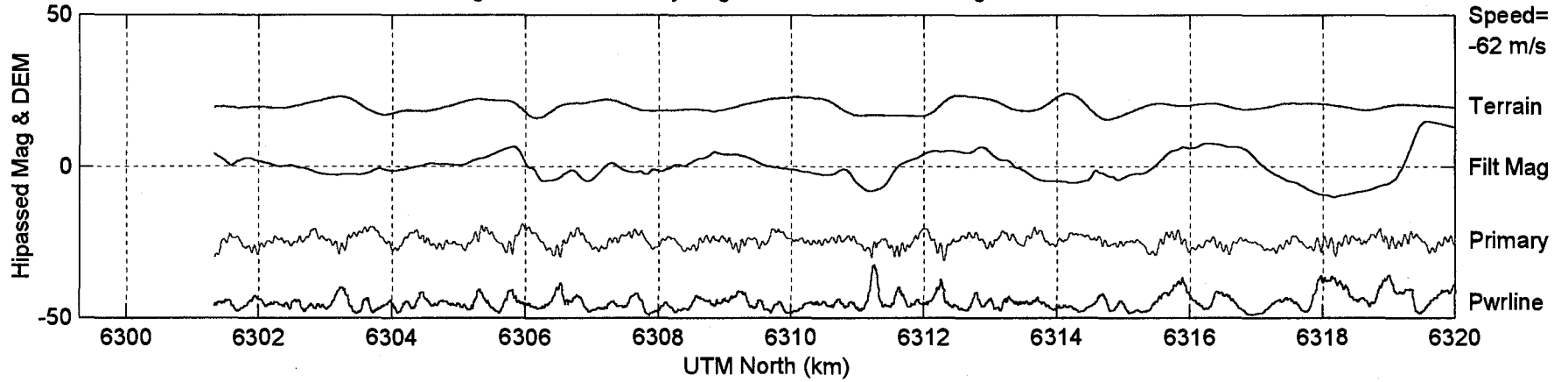
Pg1:GEOTEM Survey Figaro Line=157 Easting=536198

Speed=
65 m/s

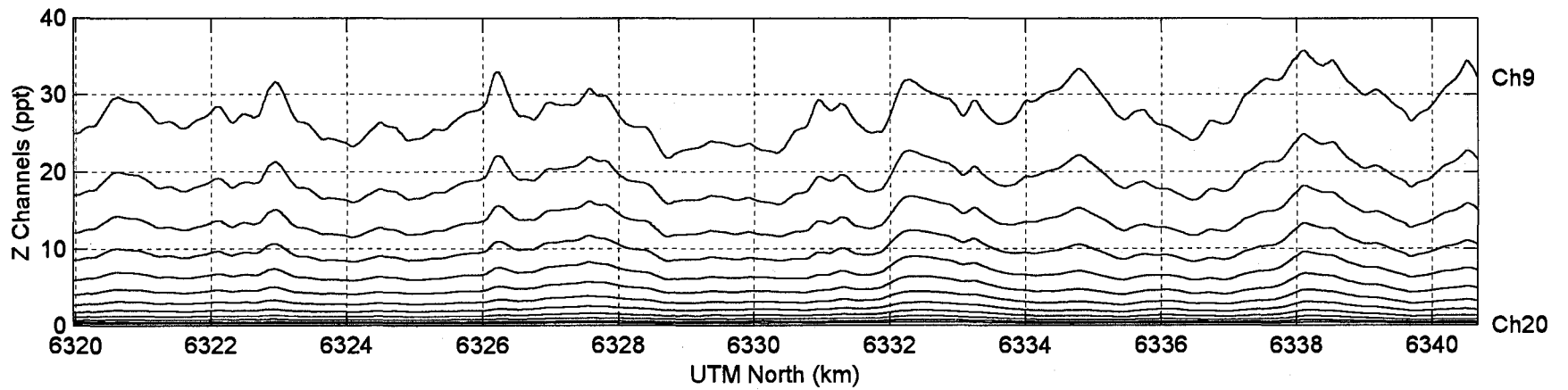
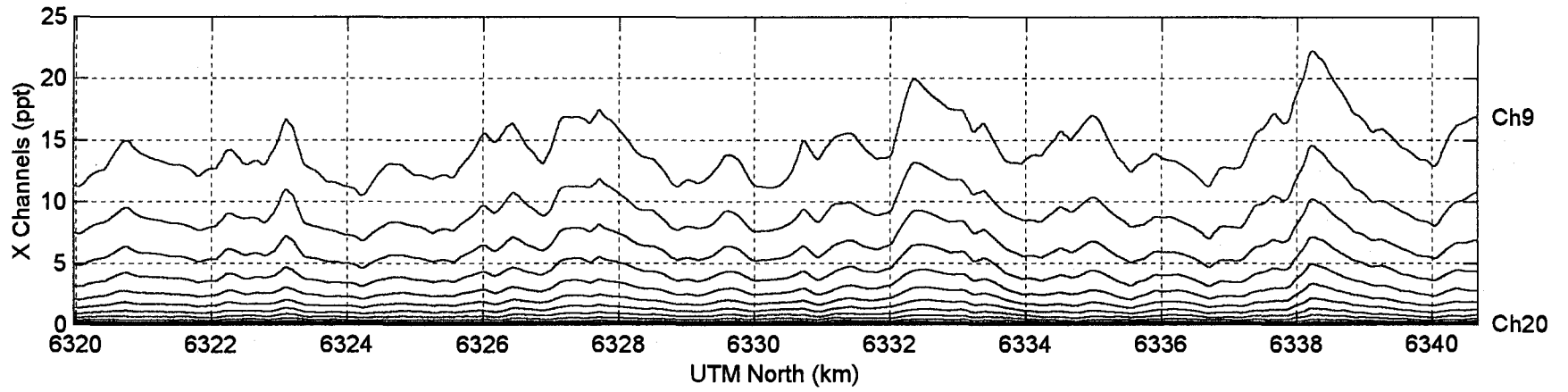
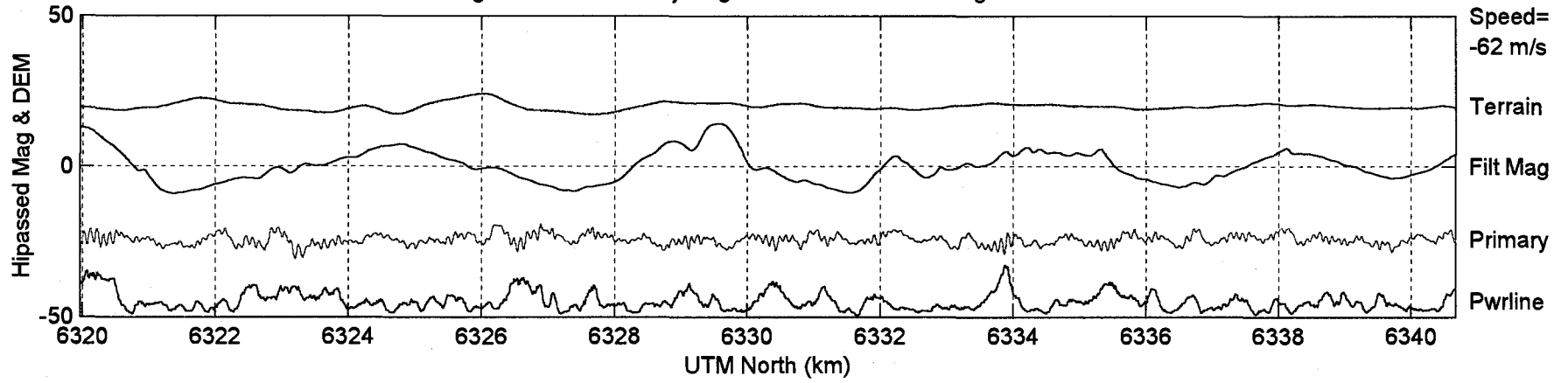




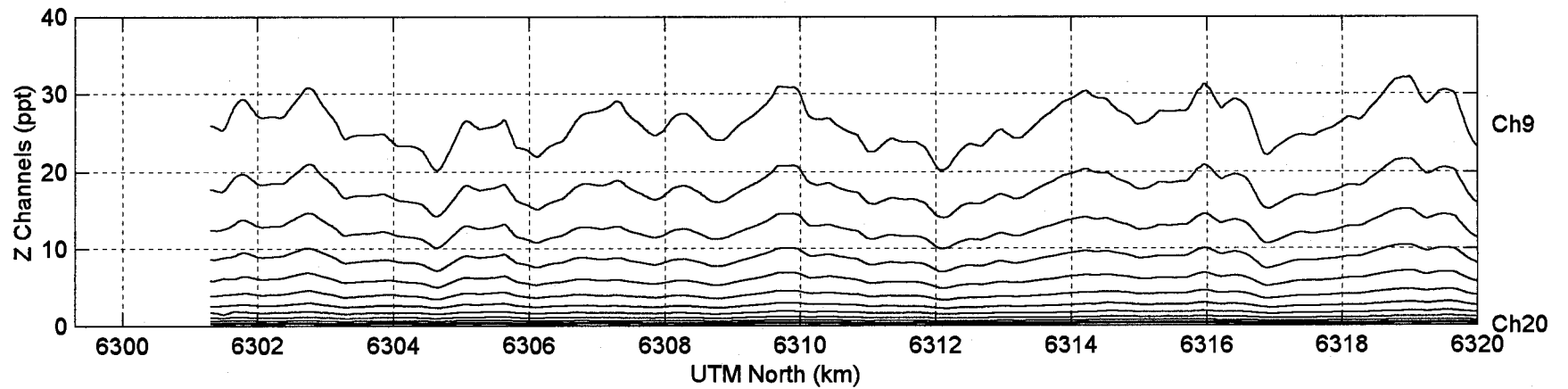
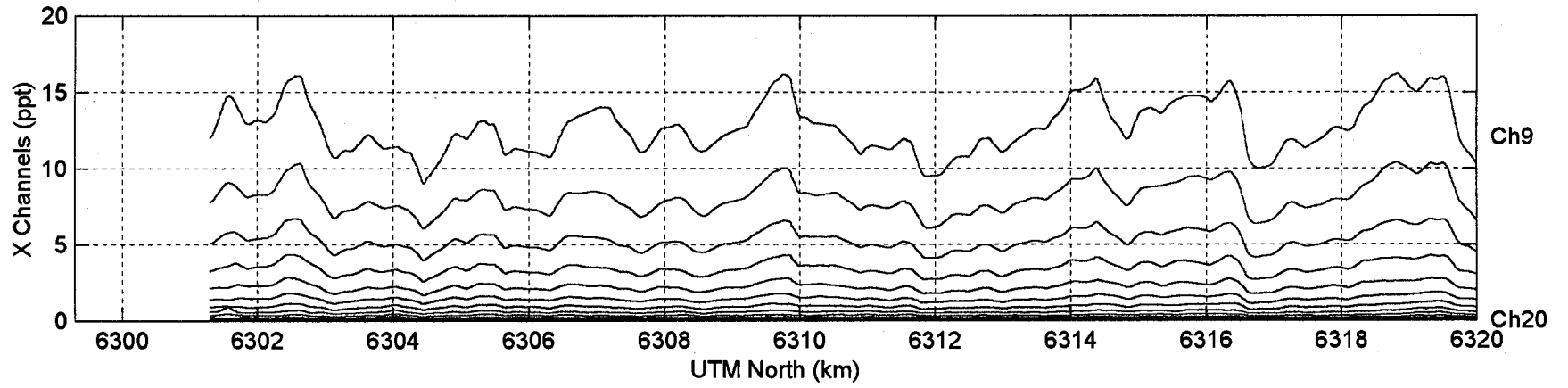
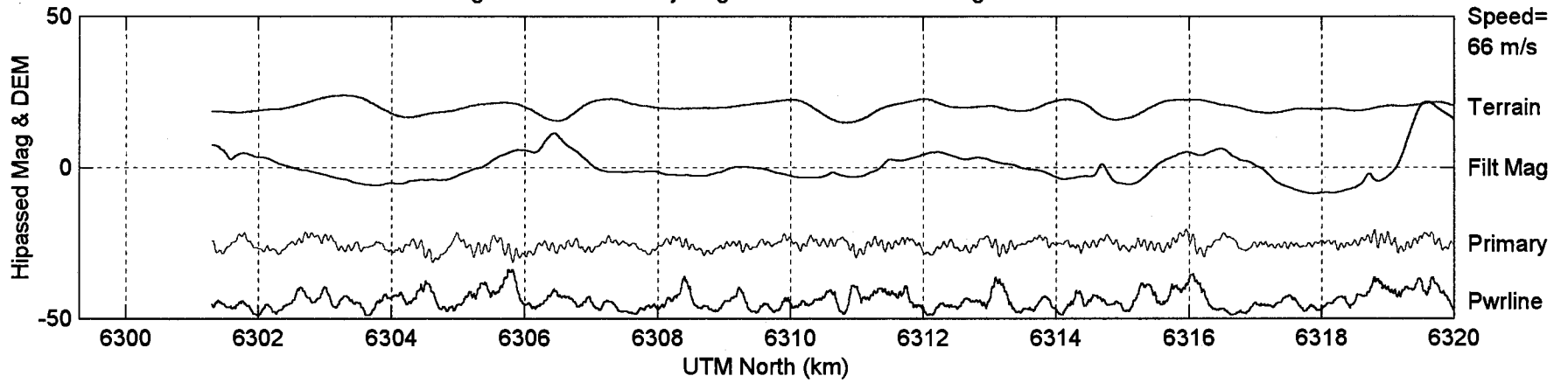
Pg1:GEOTEM Survey Figaro Line=158 Easting=536397

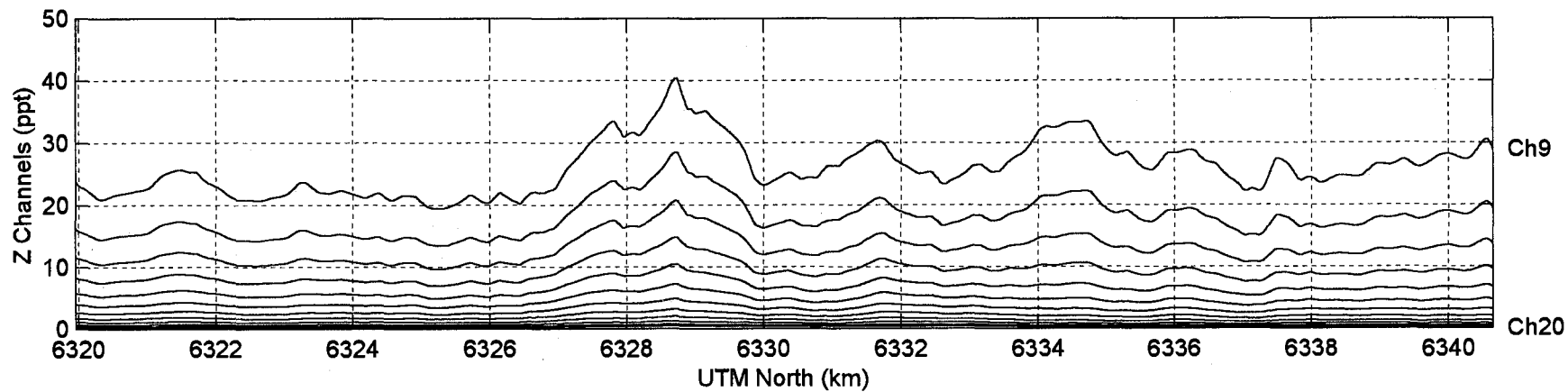
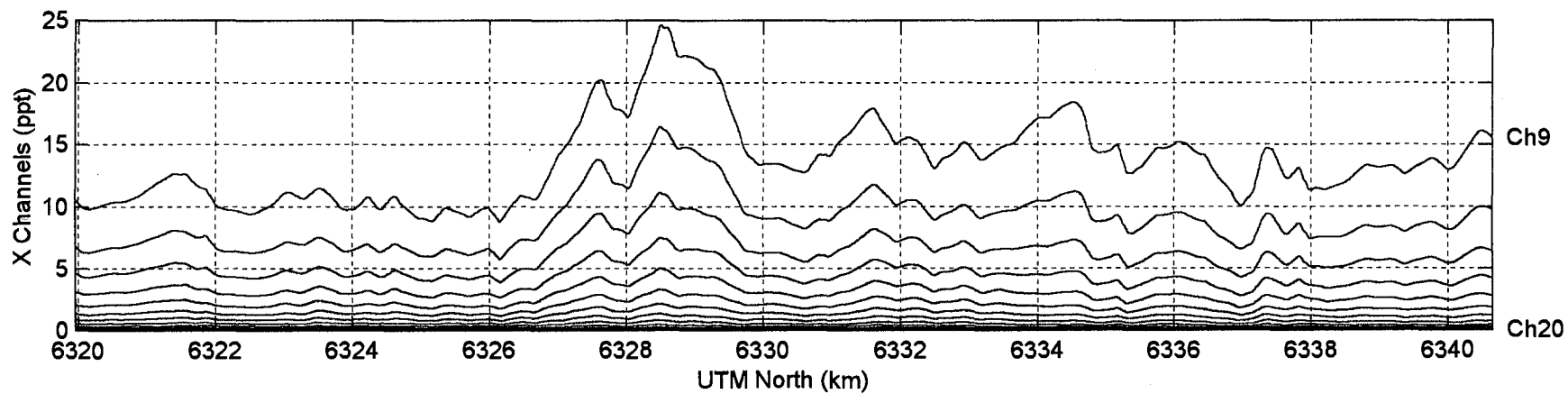
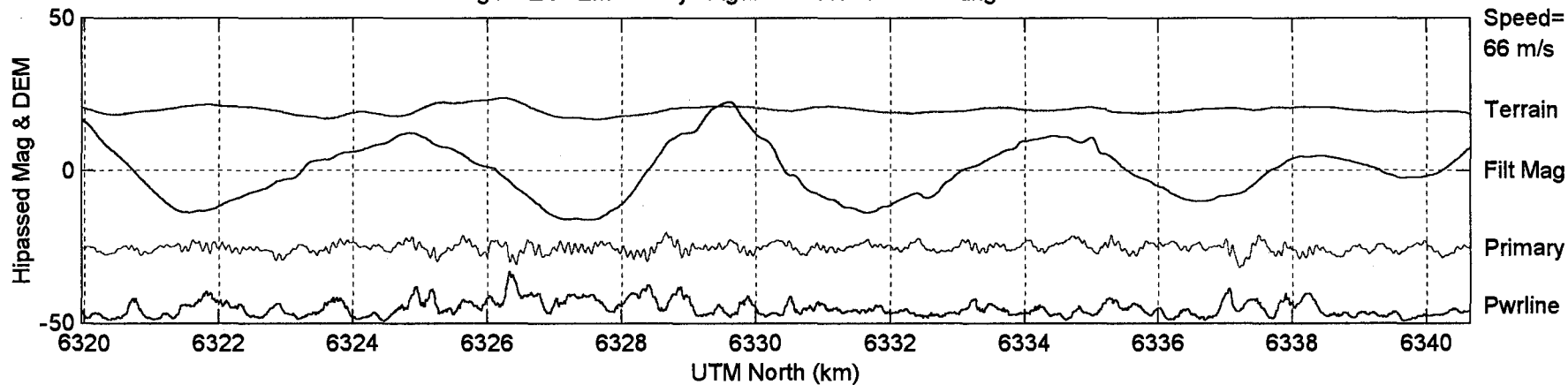


Pg1:GEOTEM Survey Figaro Line=158 Easting=536397

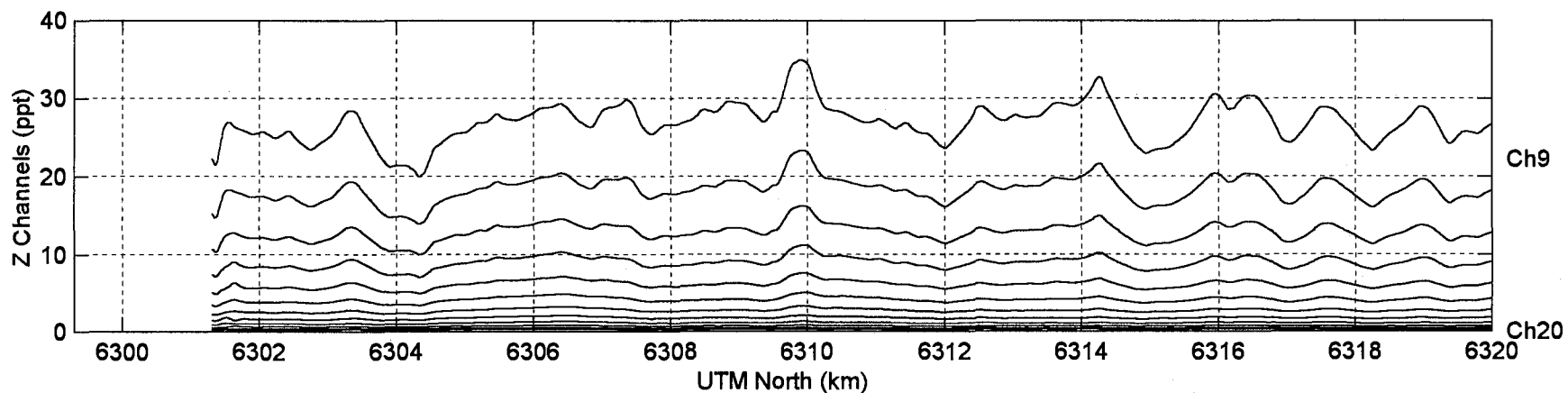
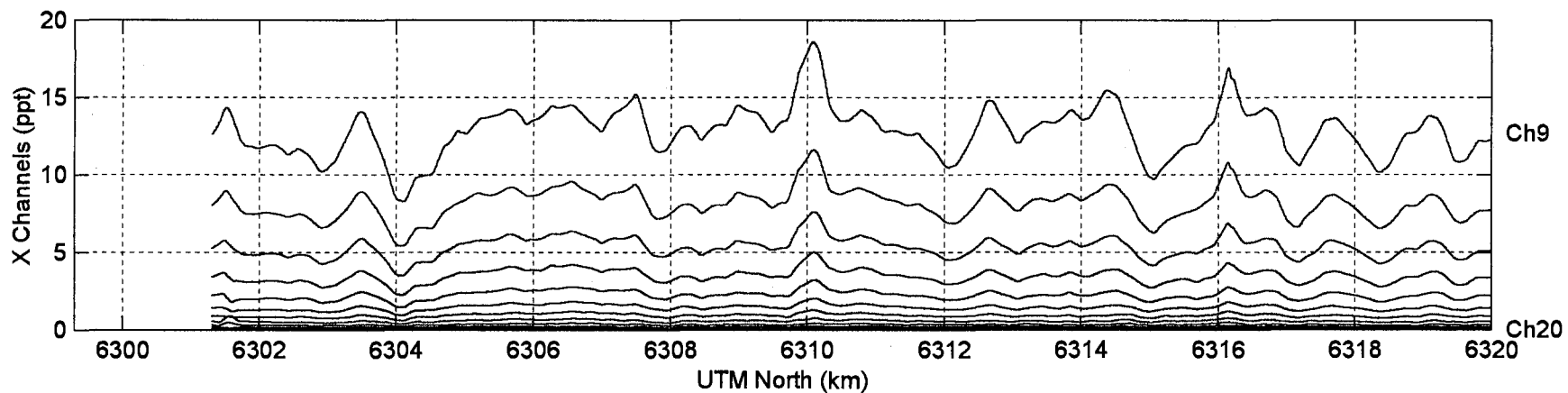
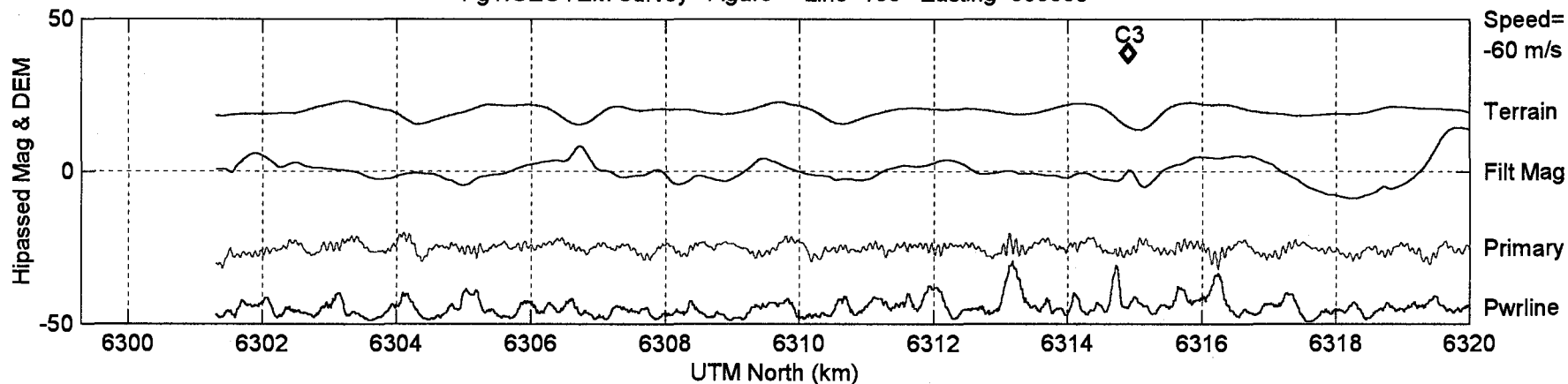


Pg1:GEOTEM Survey Figaro Line=159 Easting=536594

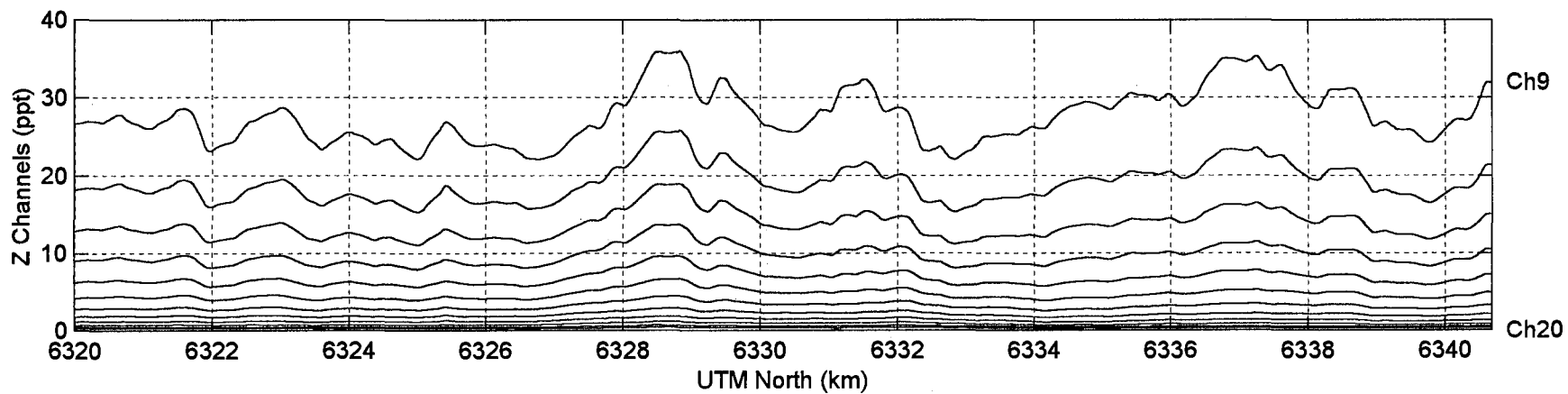
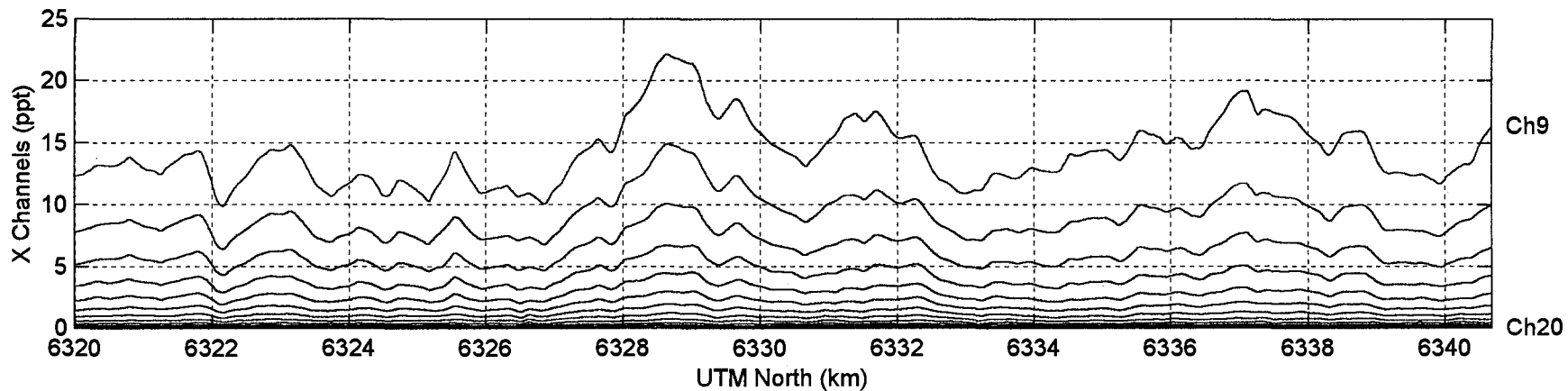
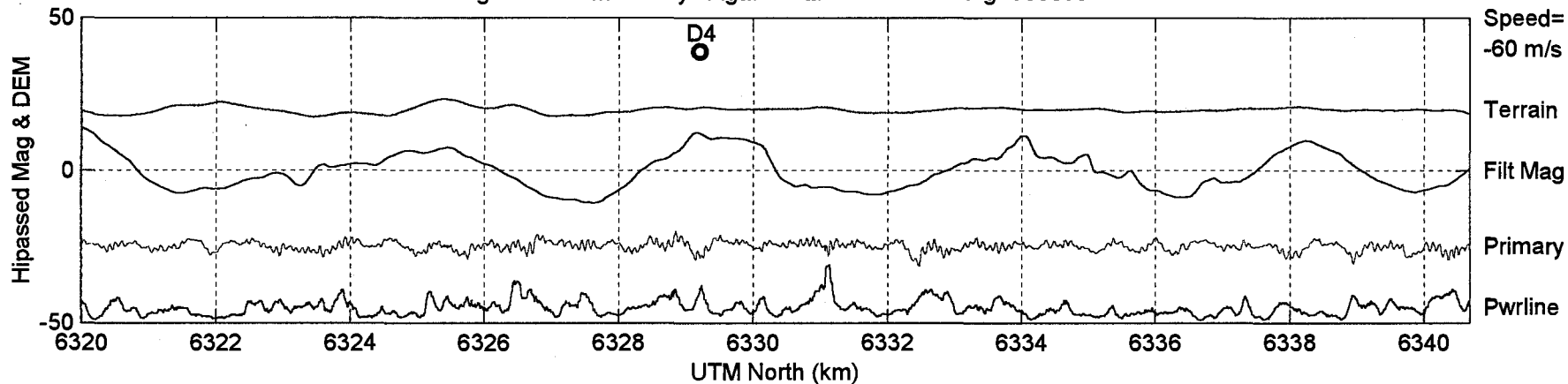




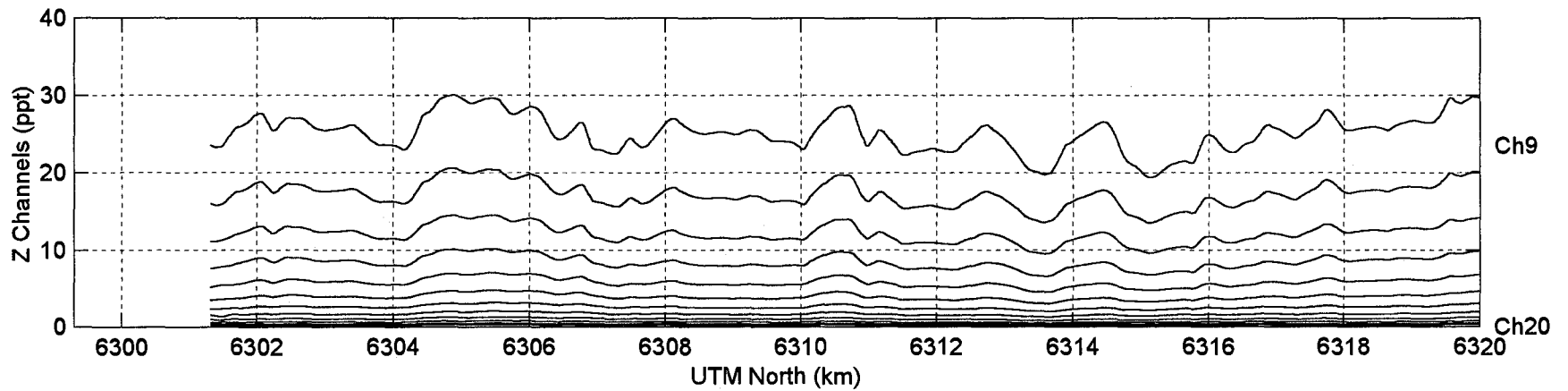
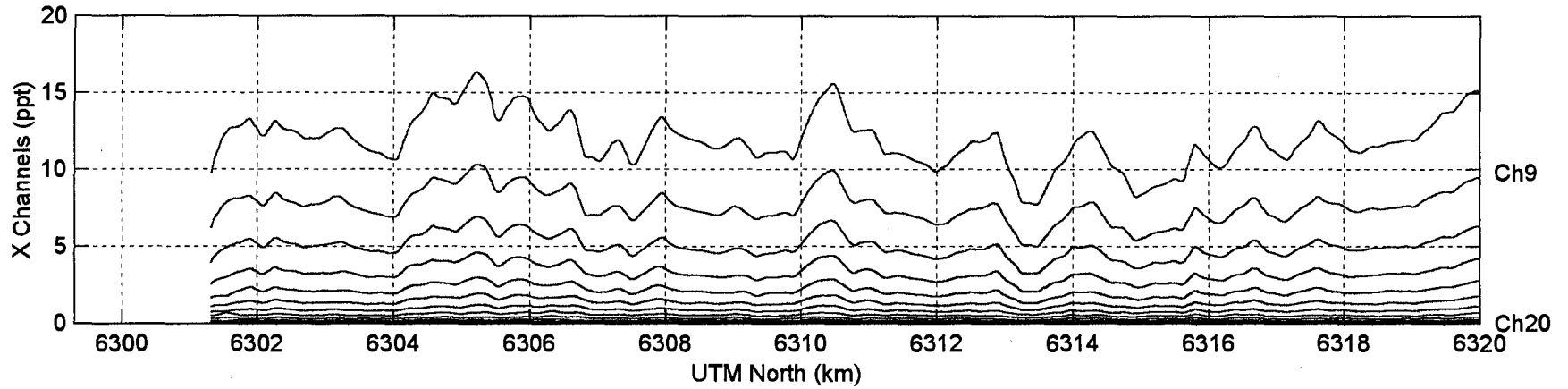
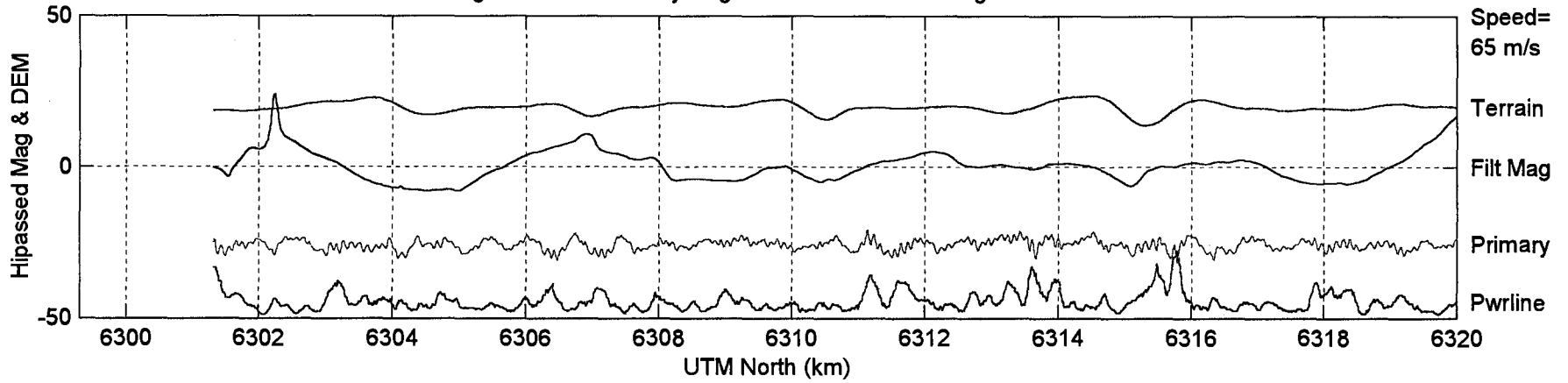
Pg1:GEOTEM Survey Figaro Line=160 Easting=536803

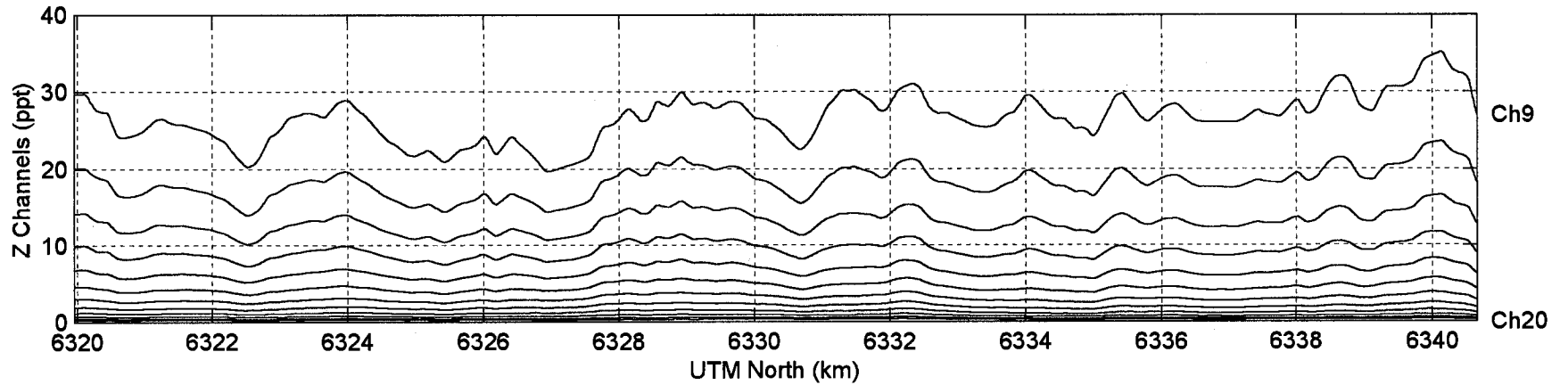
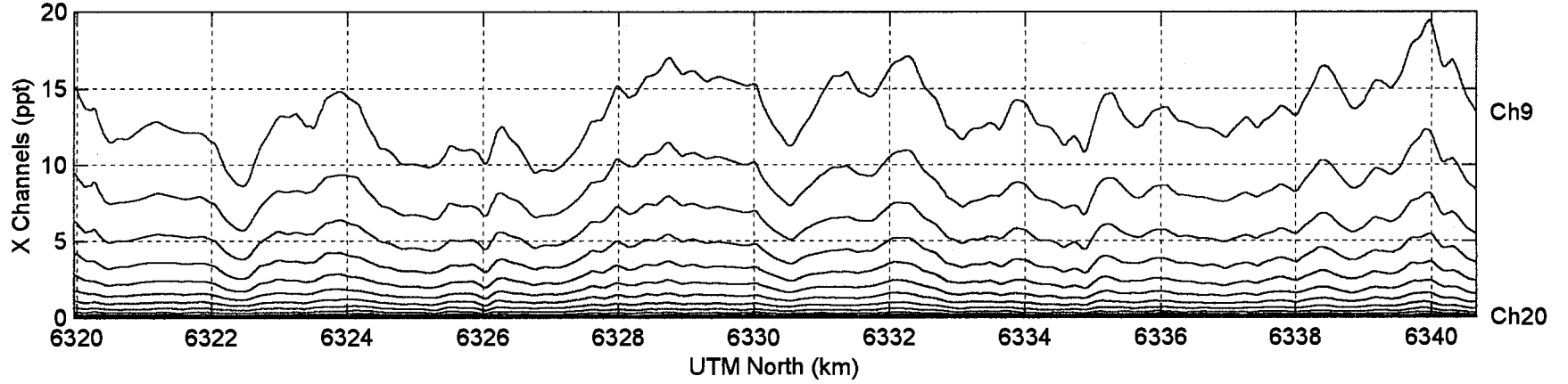
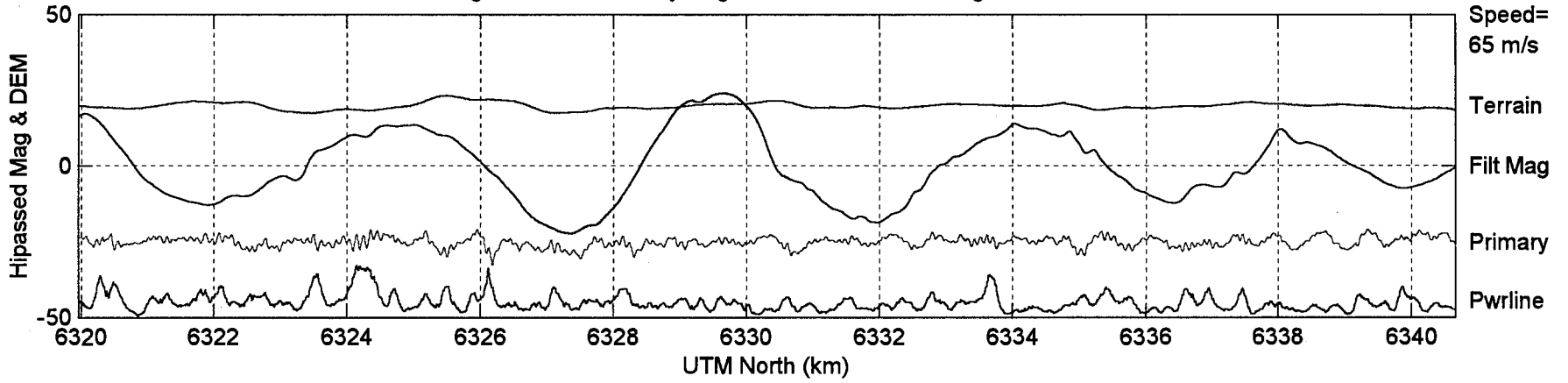


Pg1:GEOTEM Survey Figaro Line=160 Easting=536803

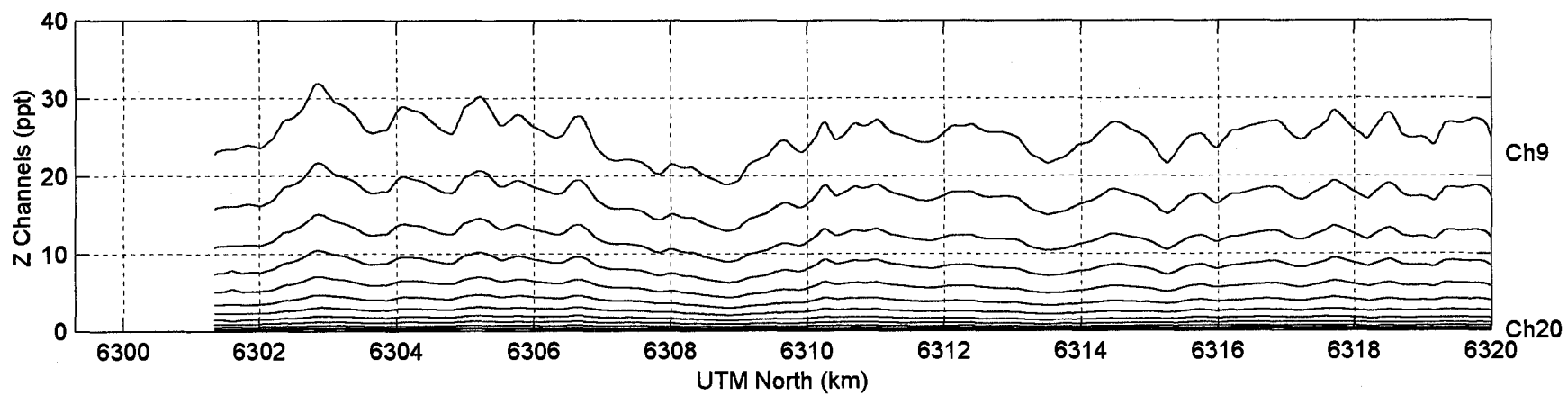
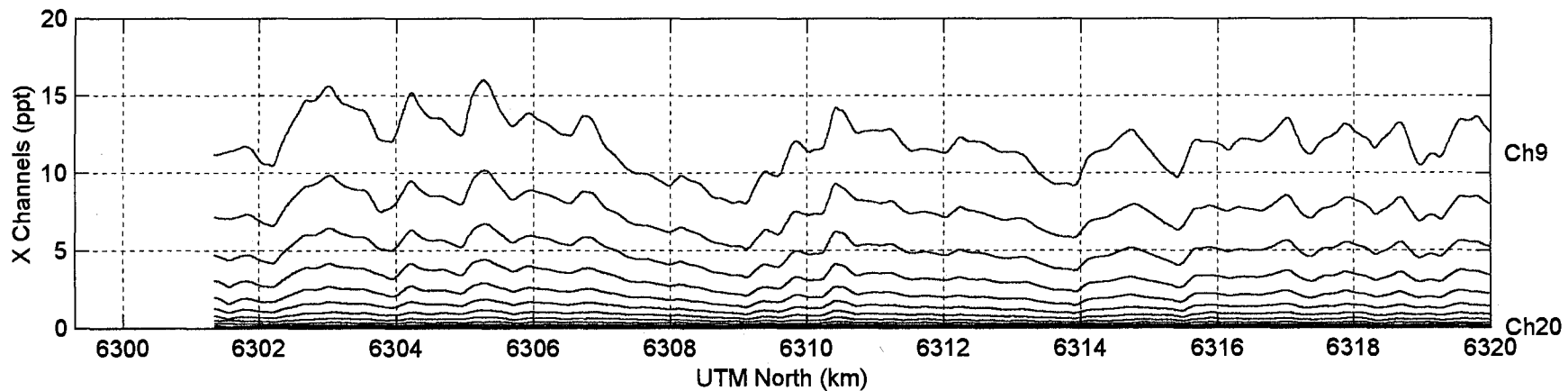
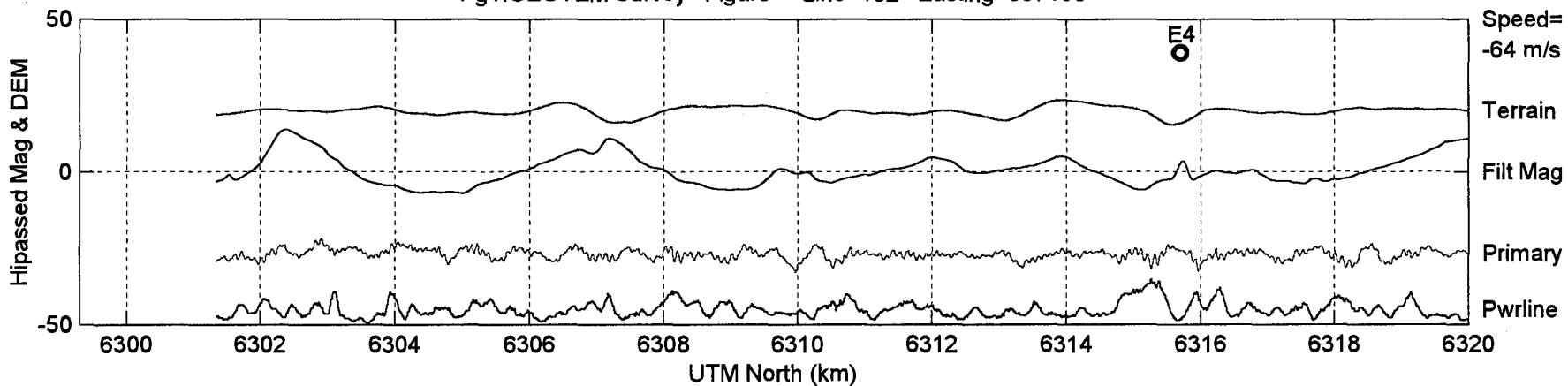


Pg1:GEOTEM Survey Figaro Line=161 Easting=536994

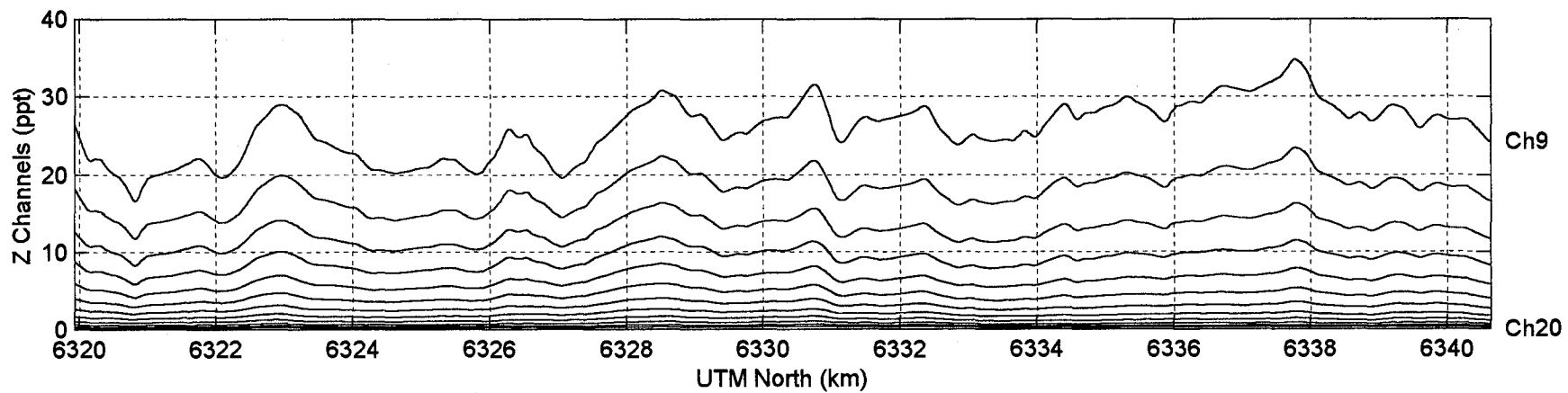
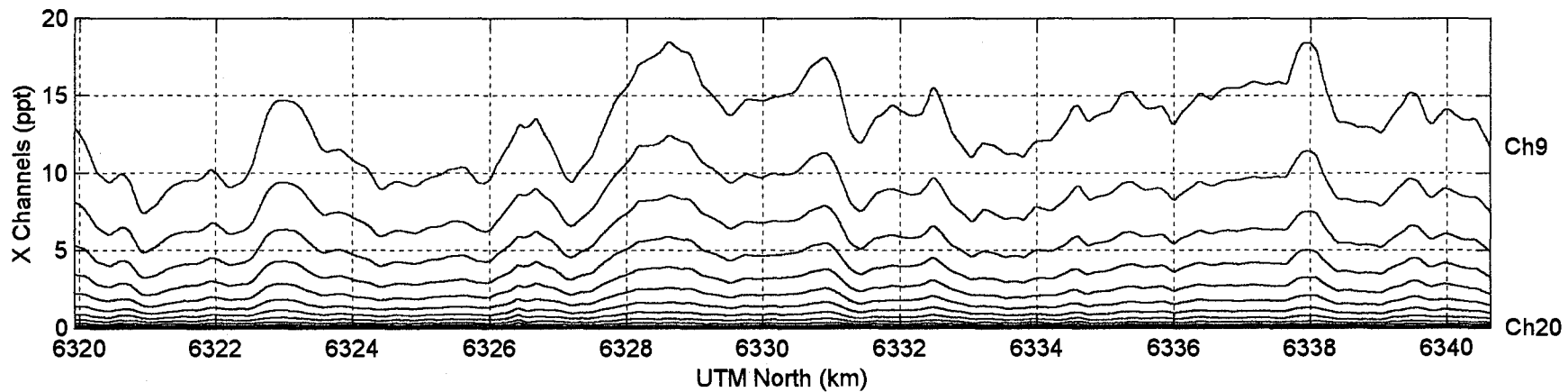
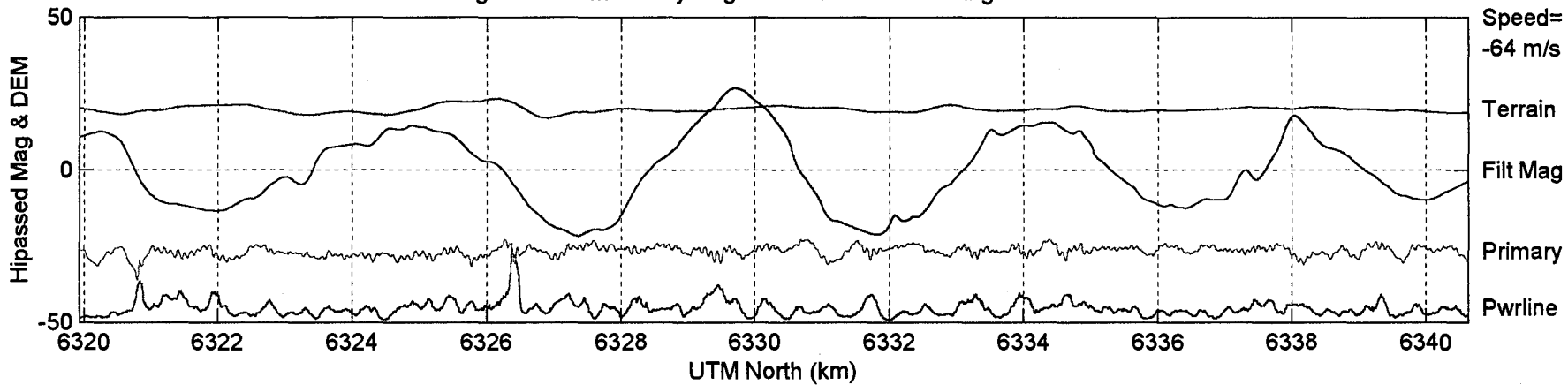




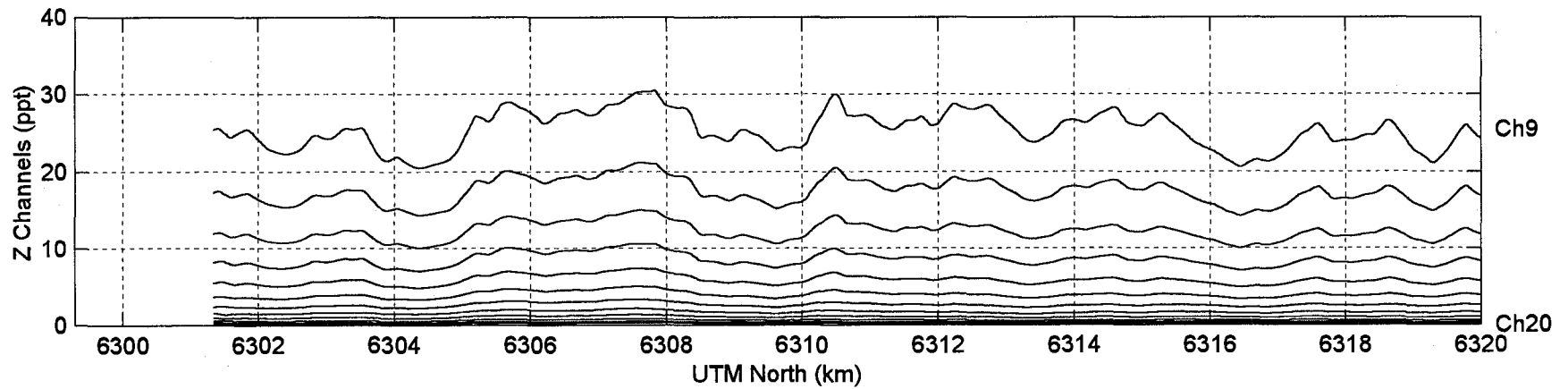
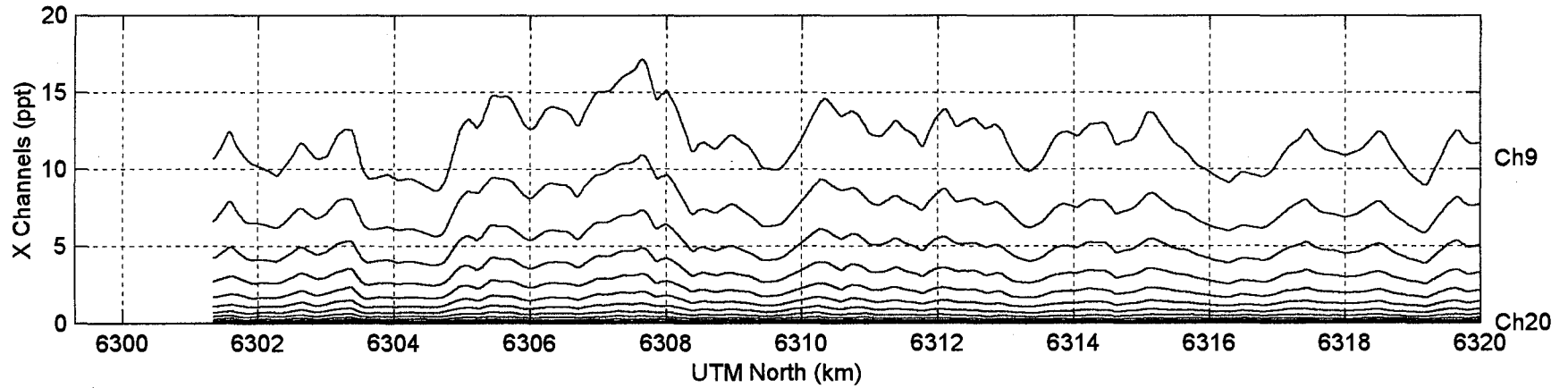
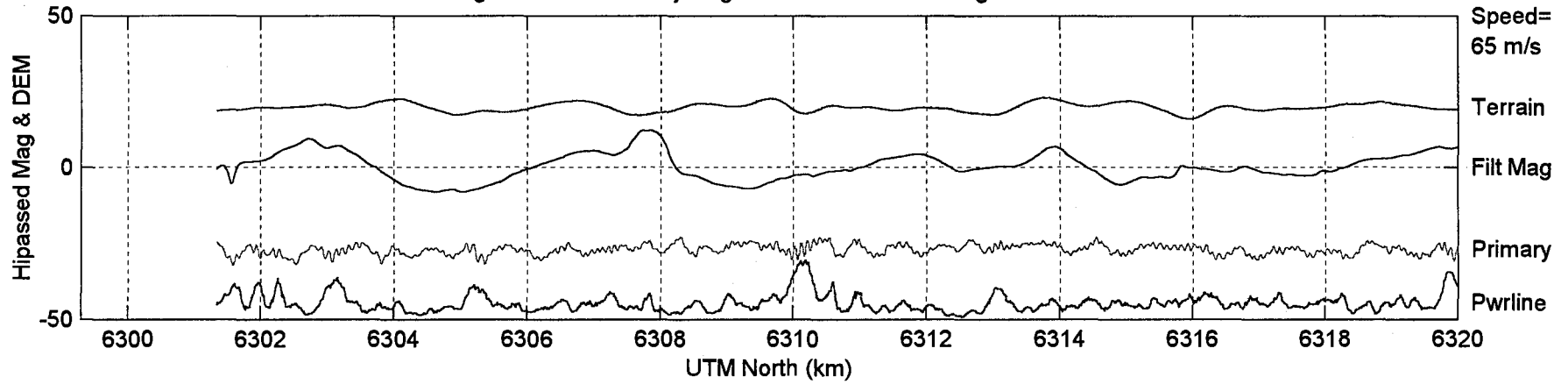
Pg1:GEOTEM Survey Figaro Line=162 Easting=537198

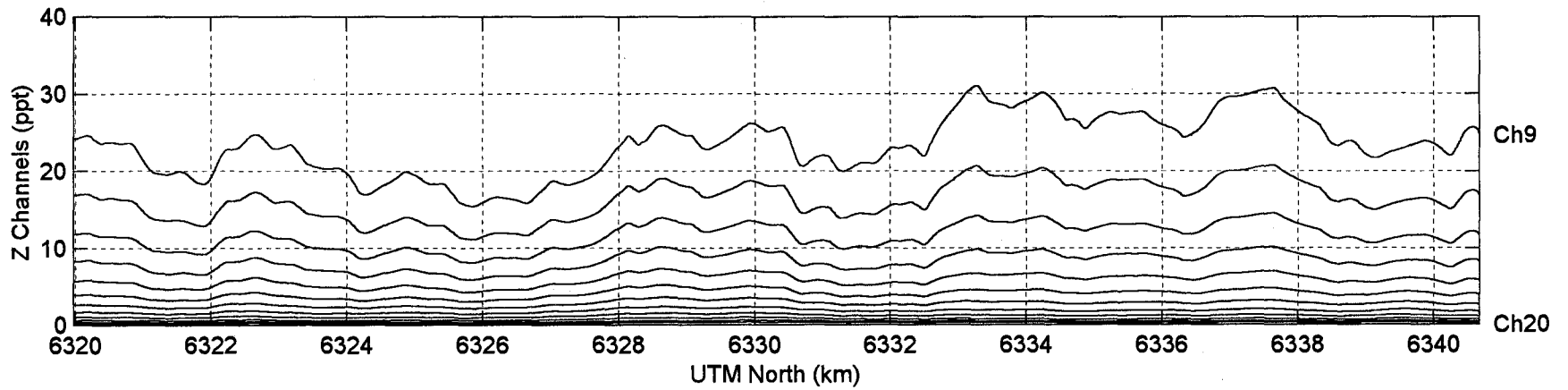
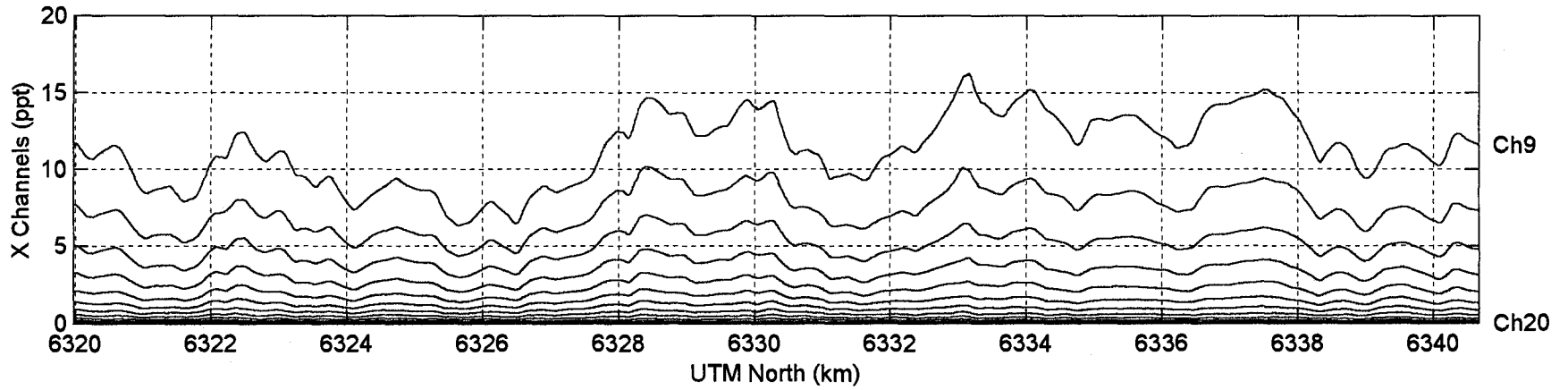
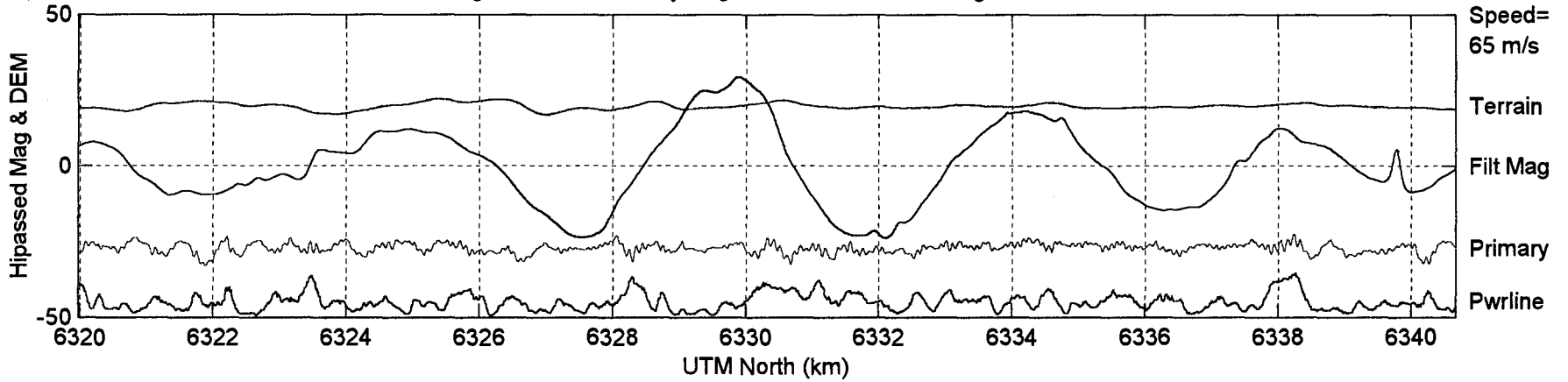


Pg1:GEOTEM Survey Figaro Line=162 Easting=537198

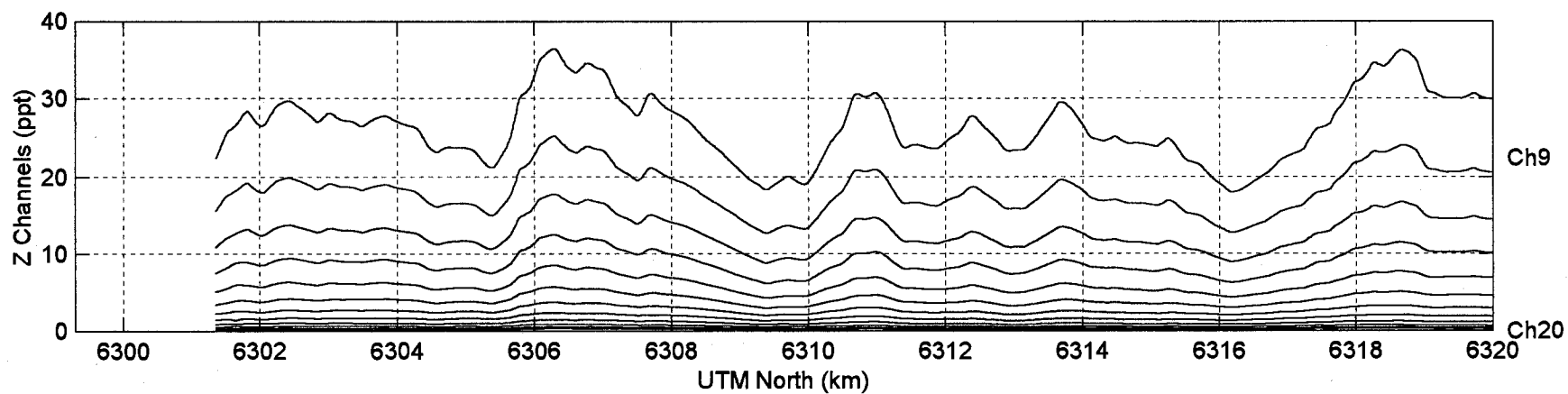
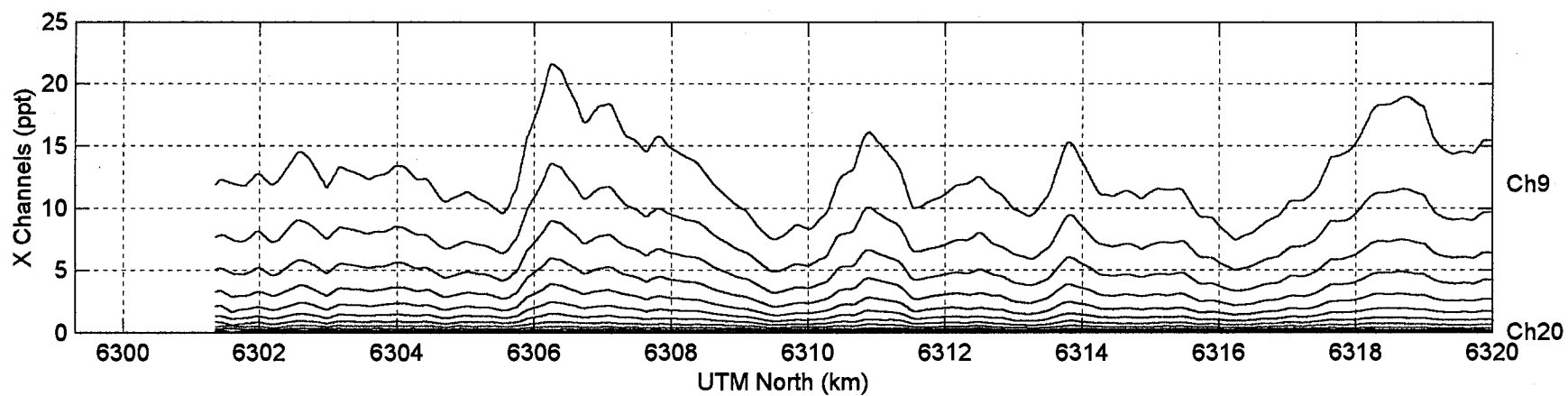
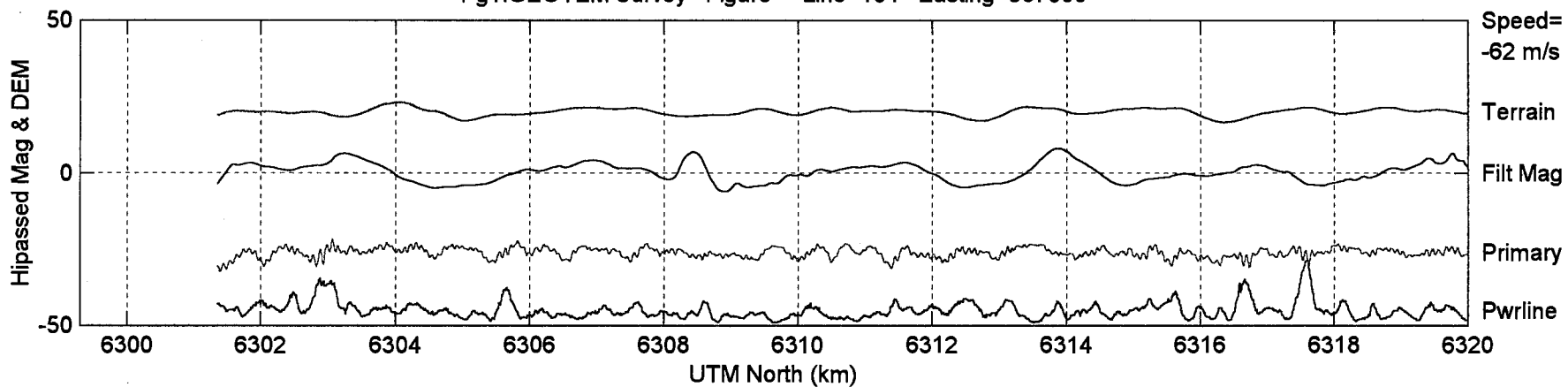


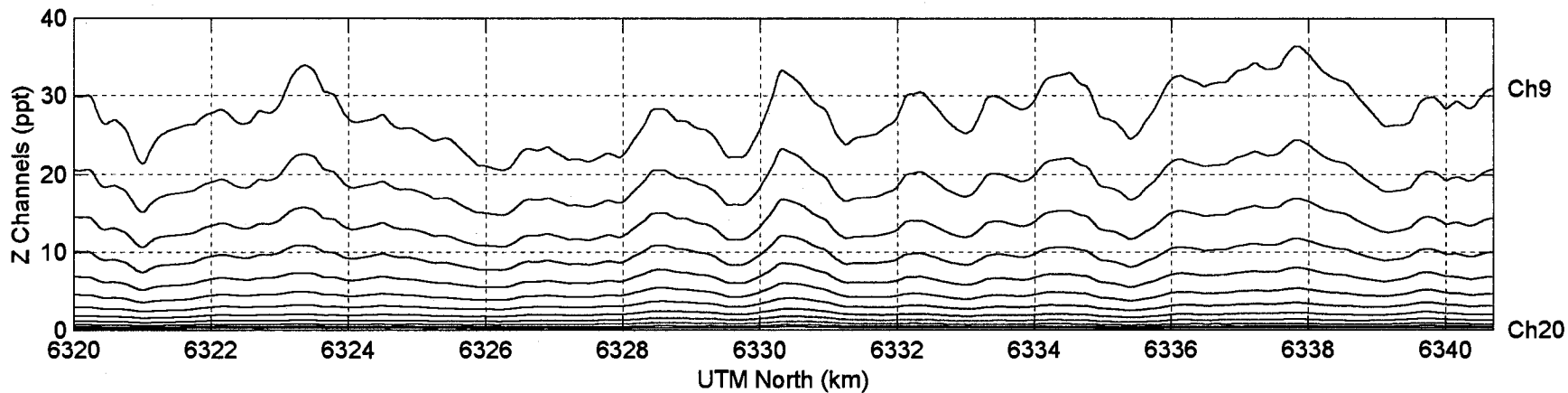
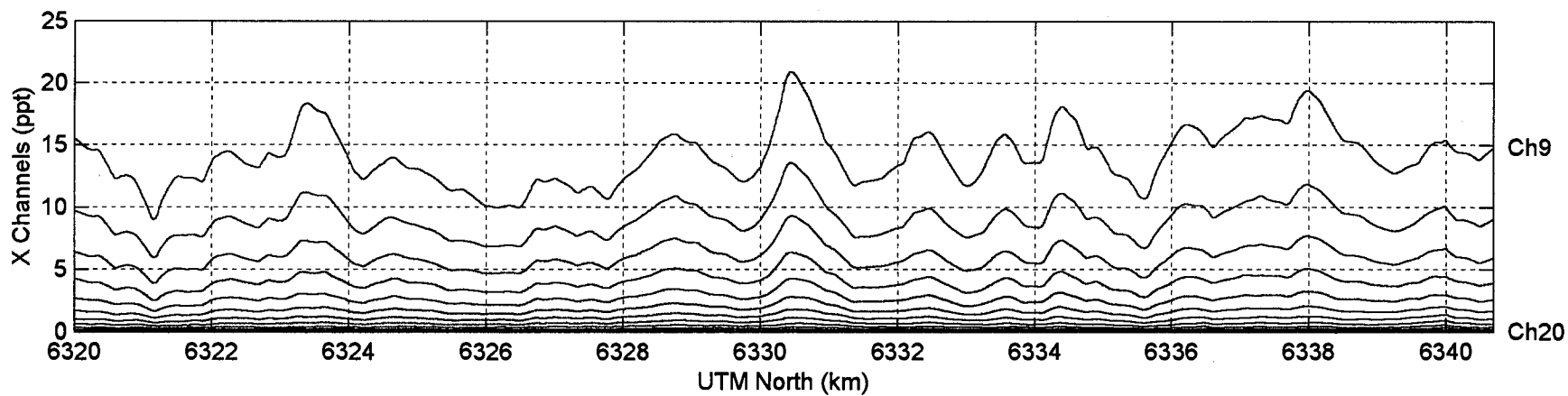
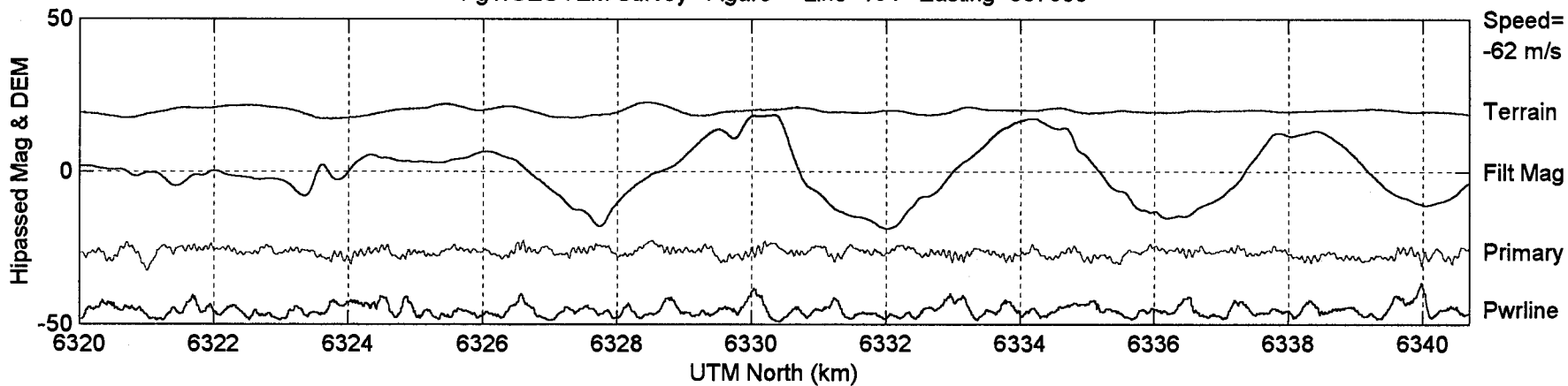
Speed=
65 m/s



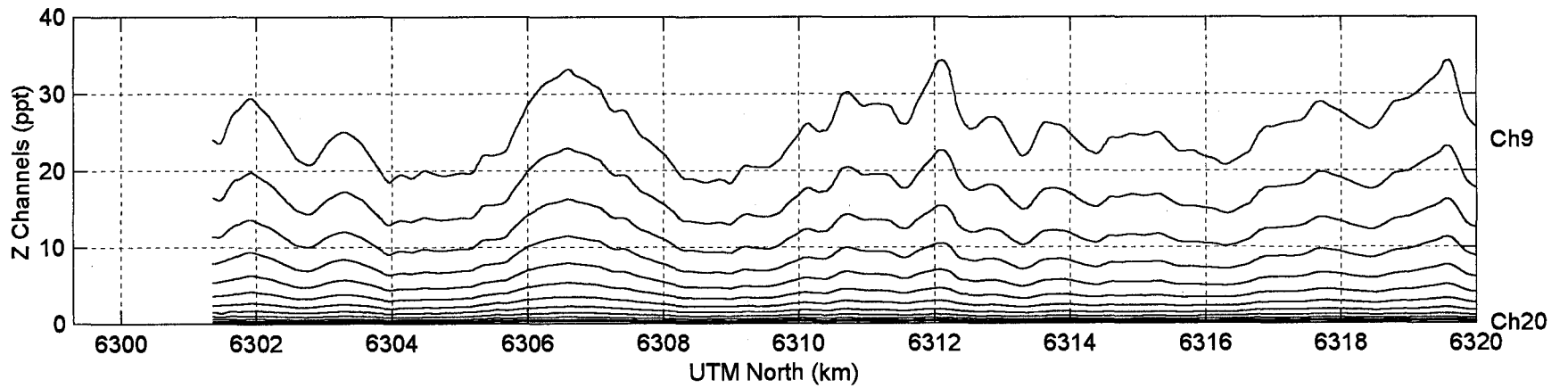
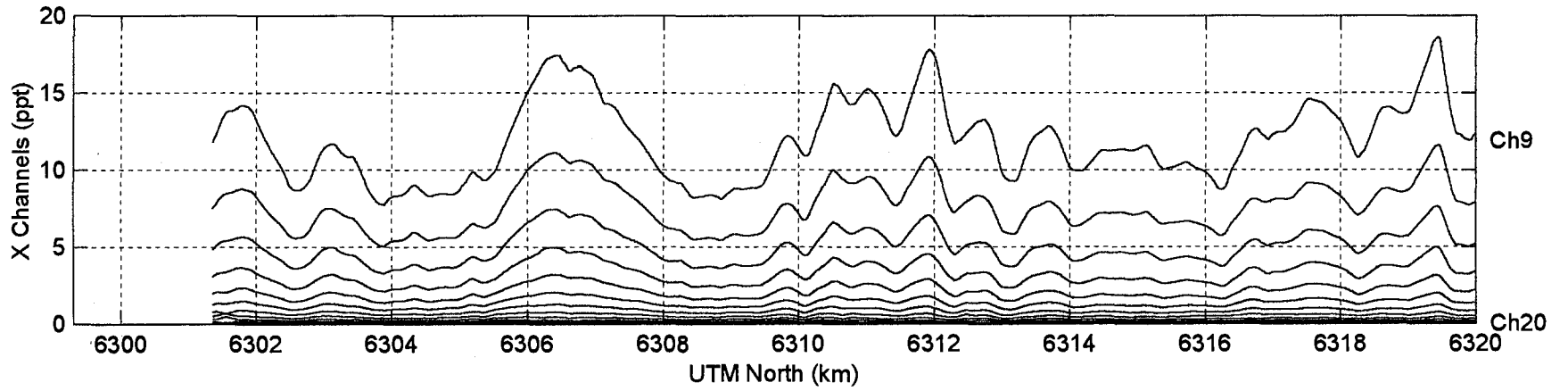
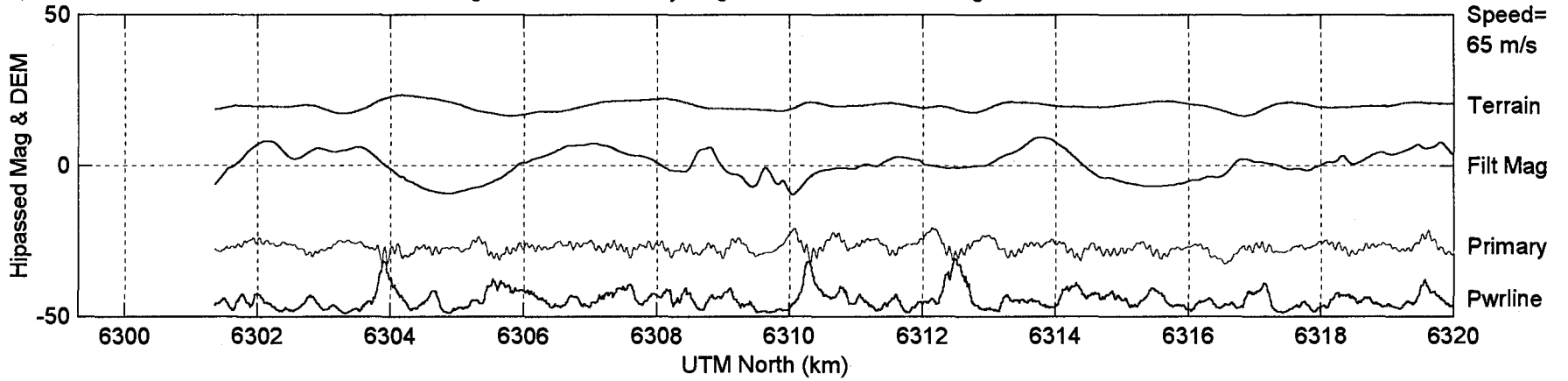


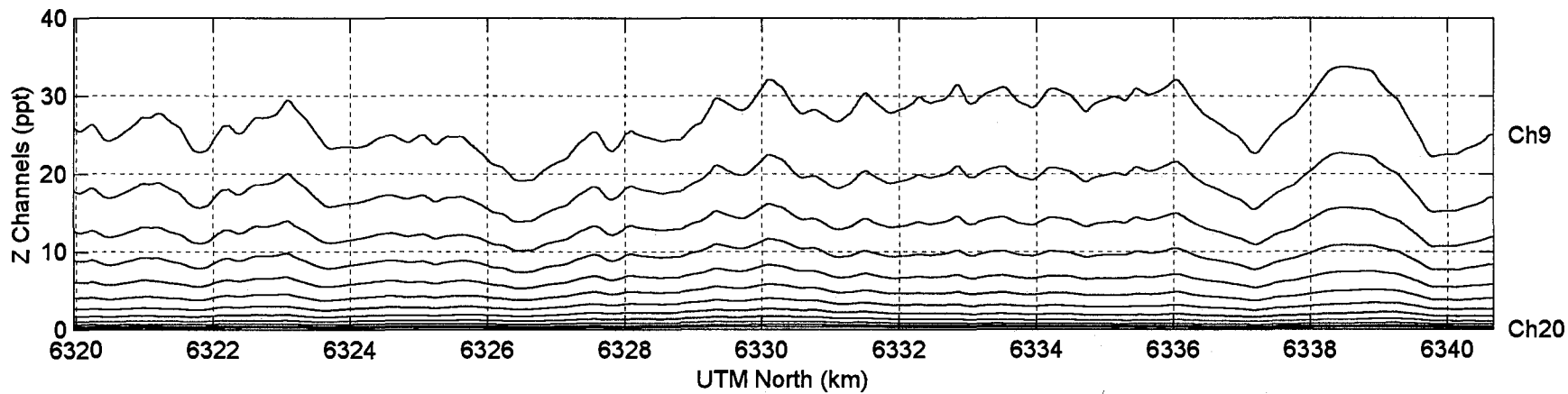
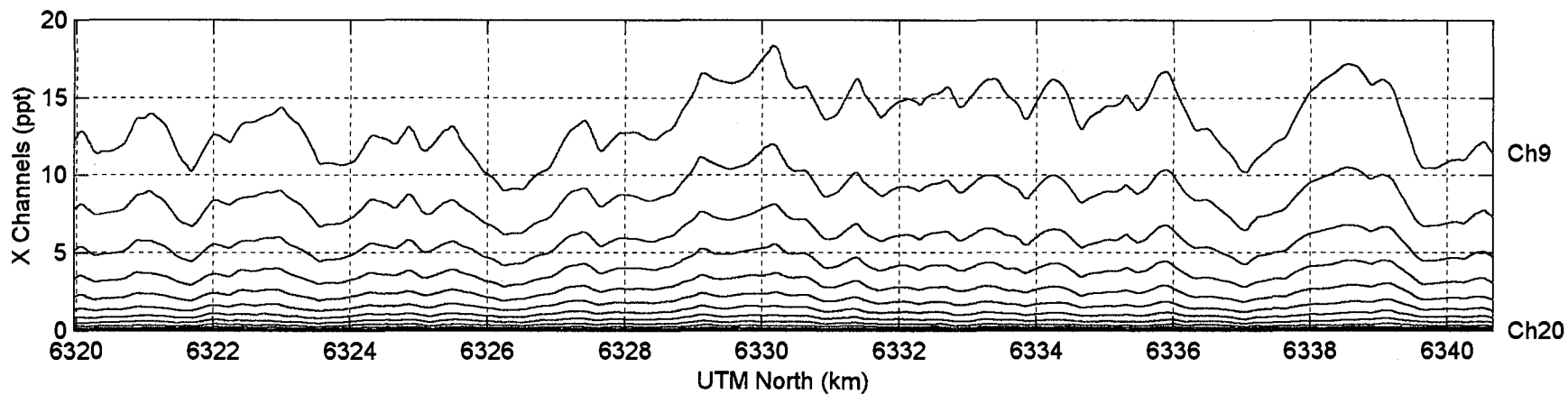
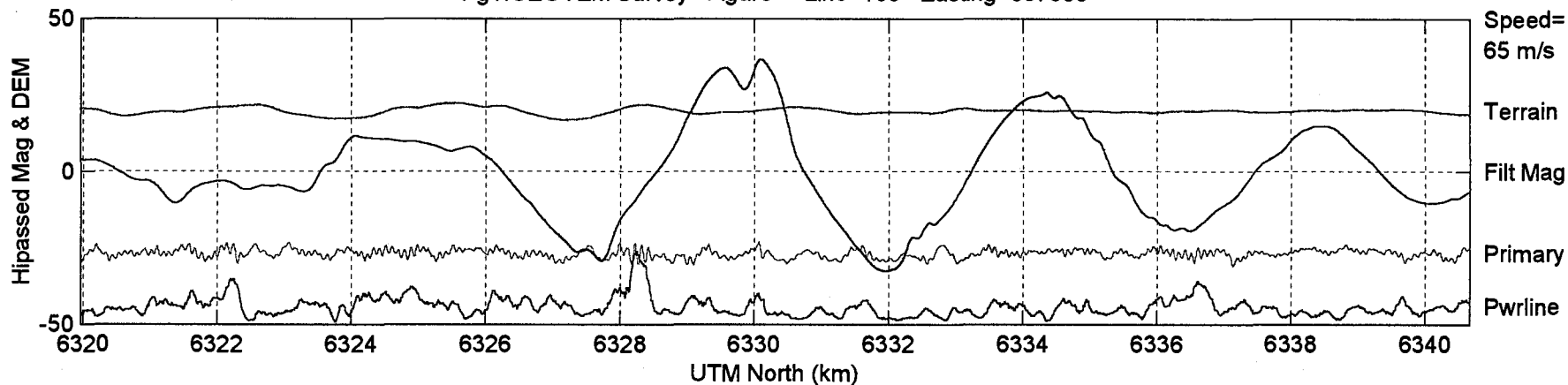
Pg1:GEOTEM Survey Figaro Line=164 Easting=537600

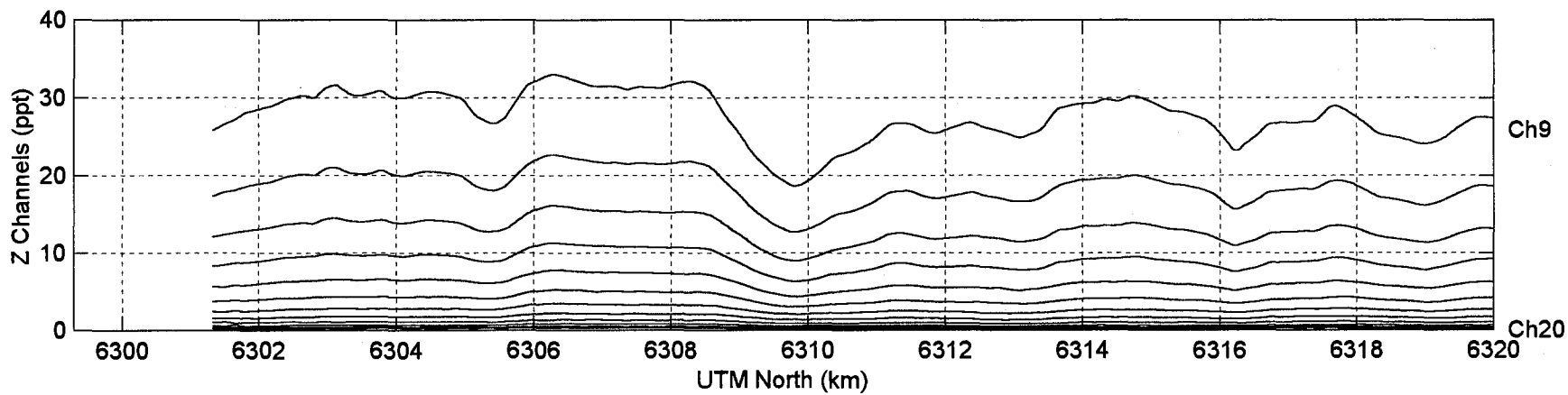
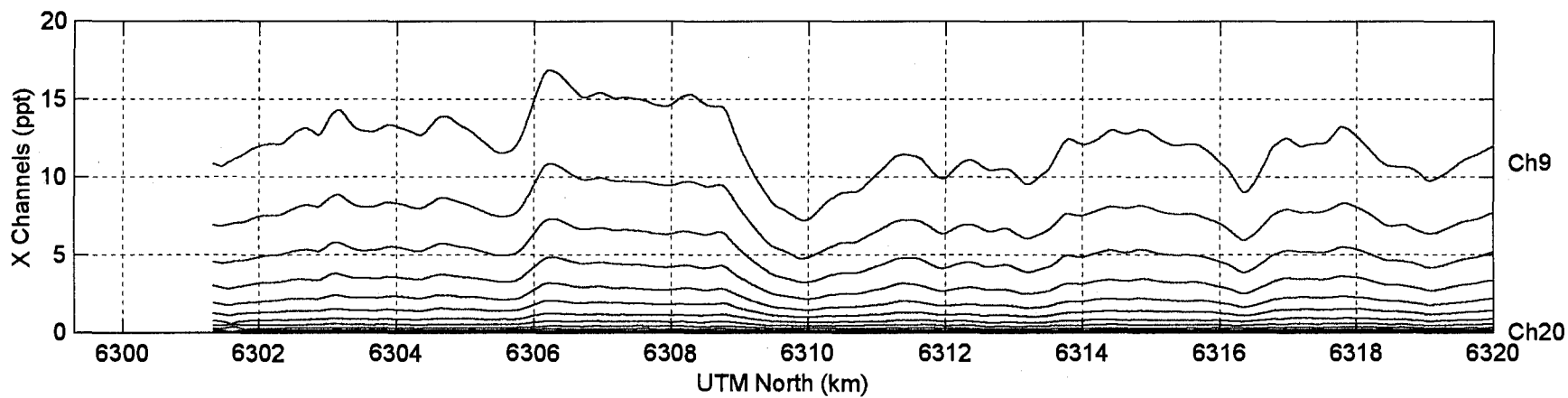
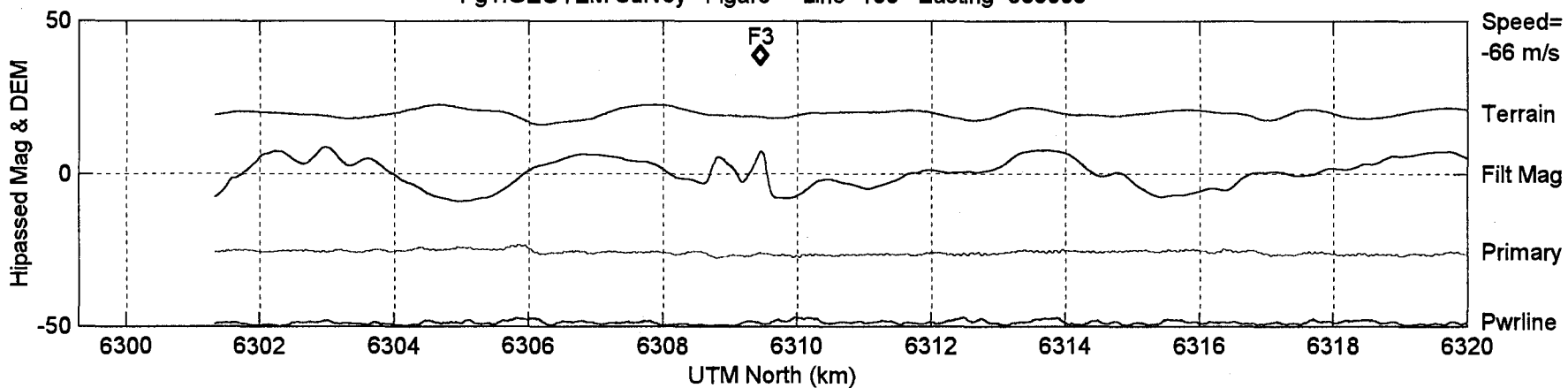




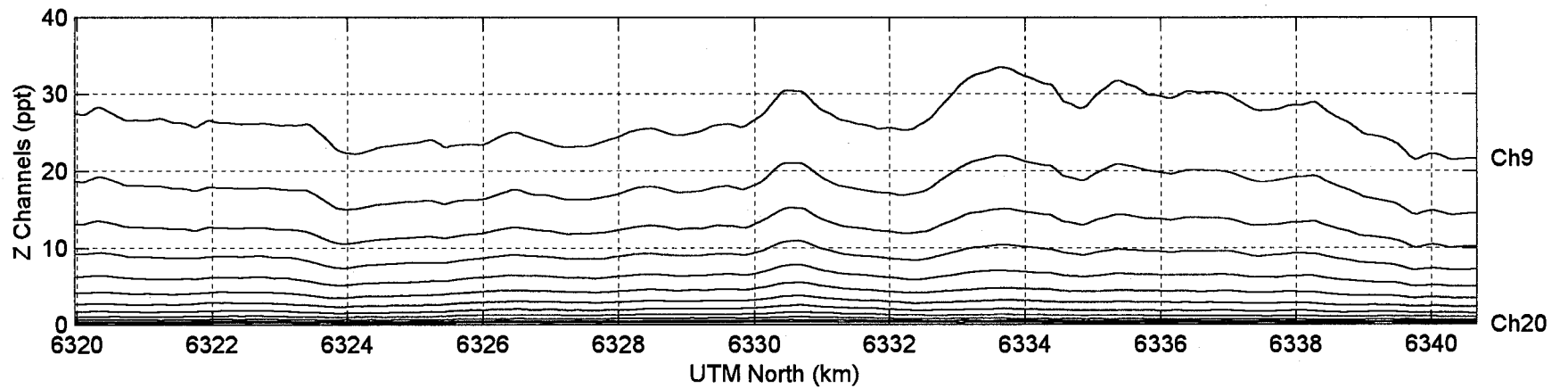
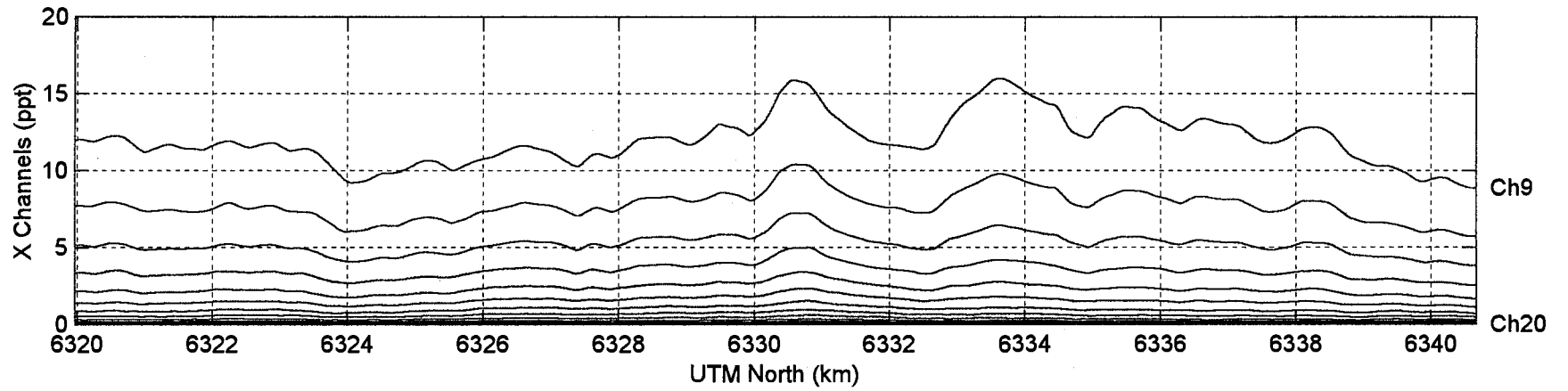
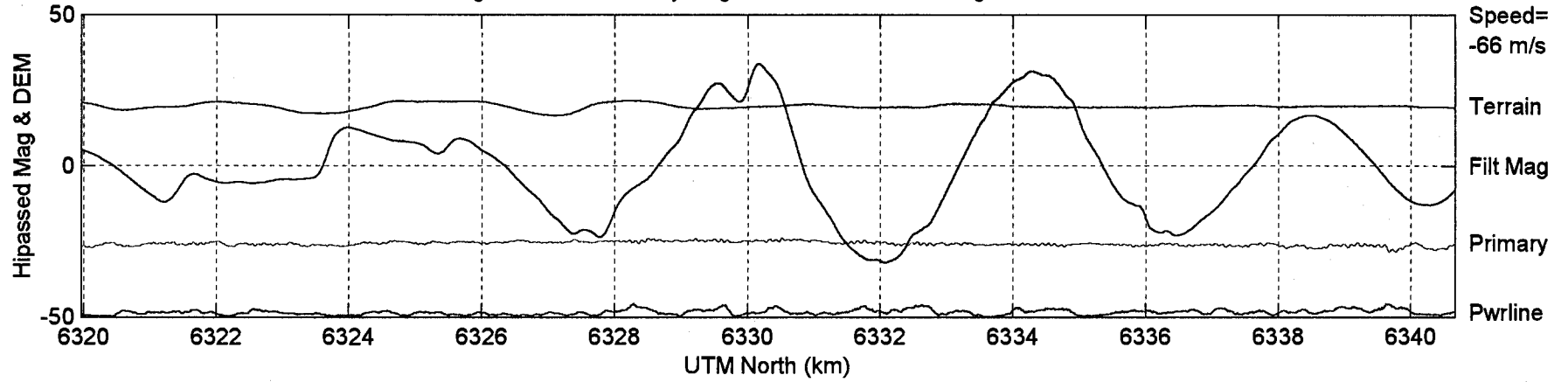
Pg1:GEOTEM Survey Figaro Line=165 Easting=537800





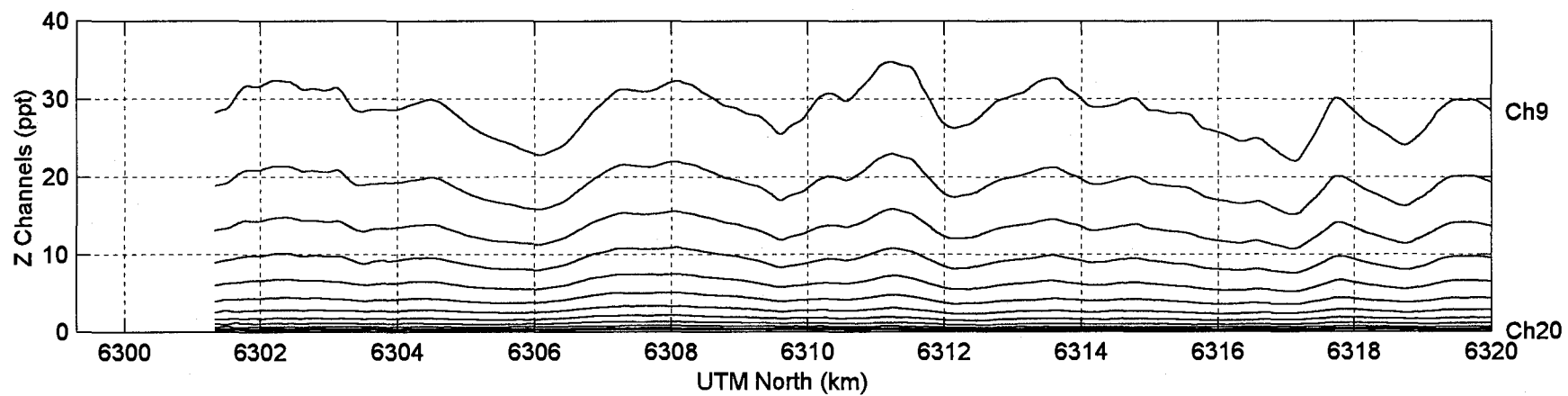
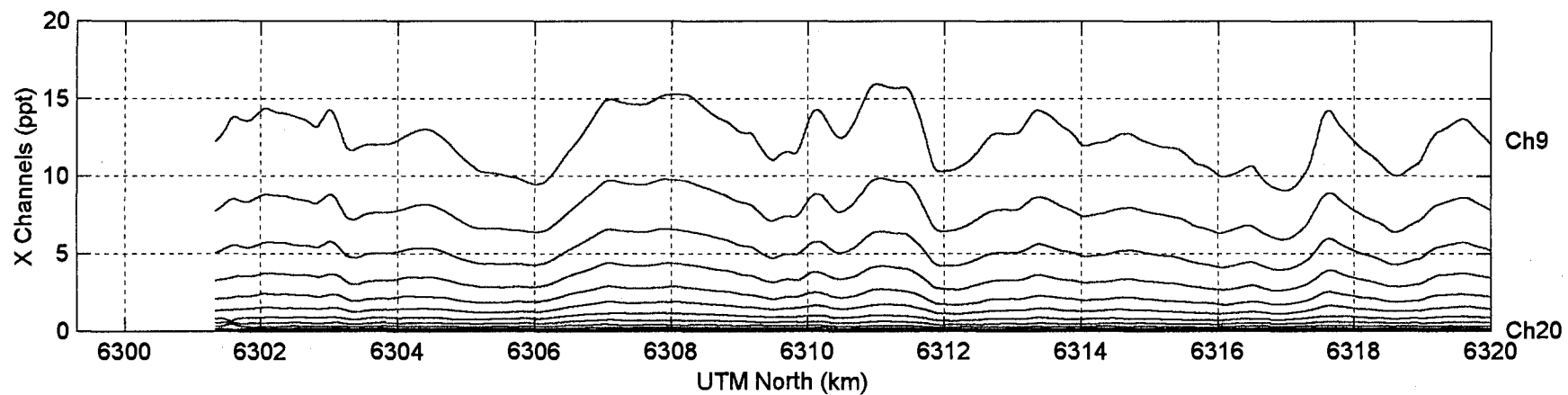
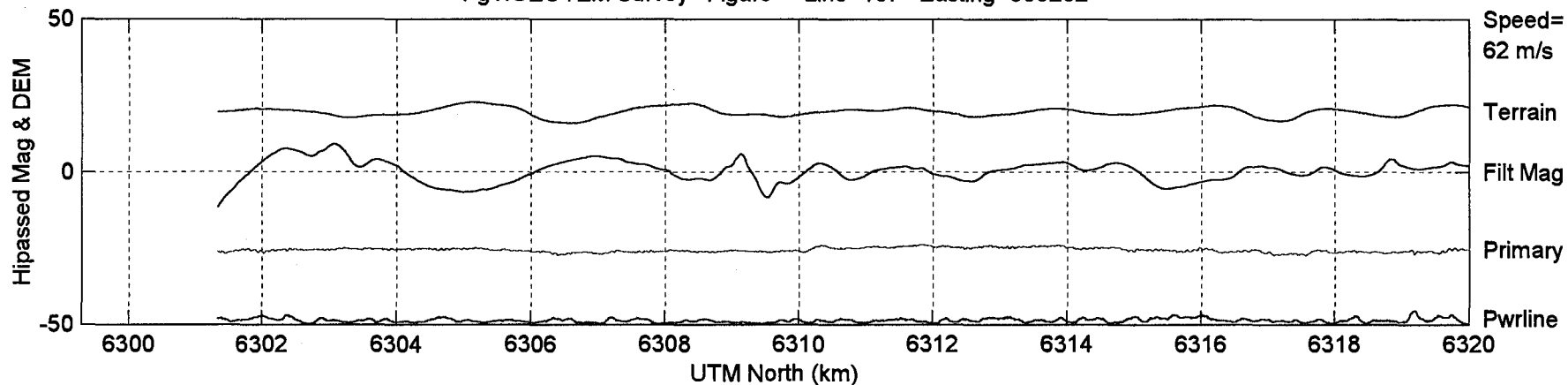


Speed=
-66 m/s

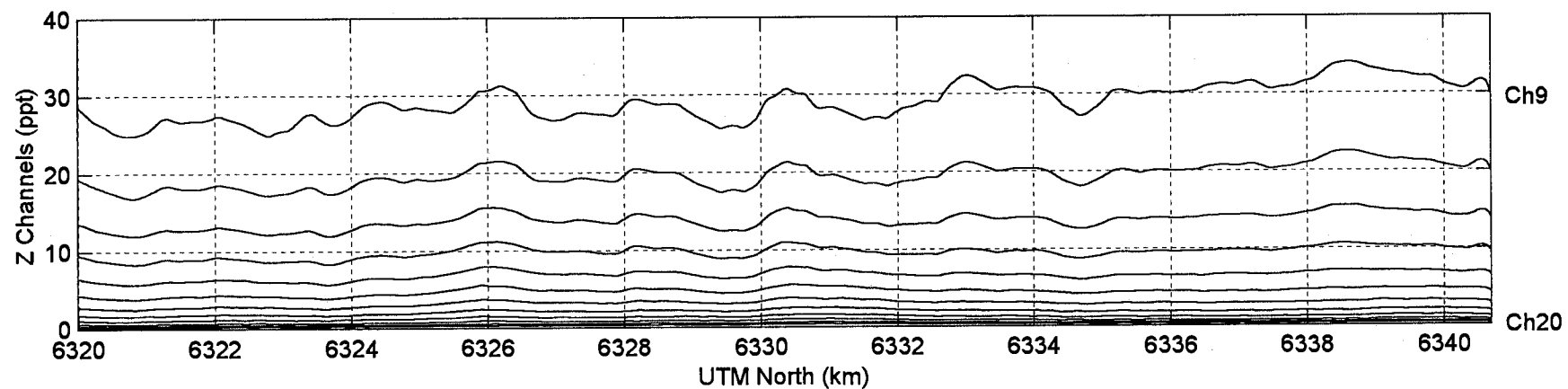
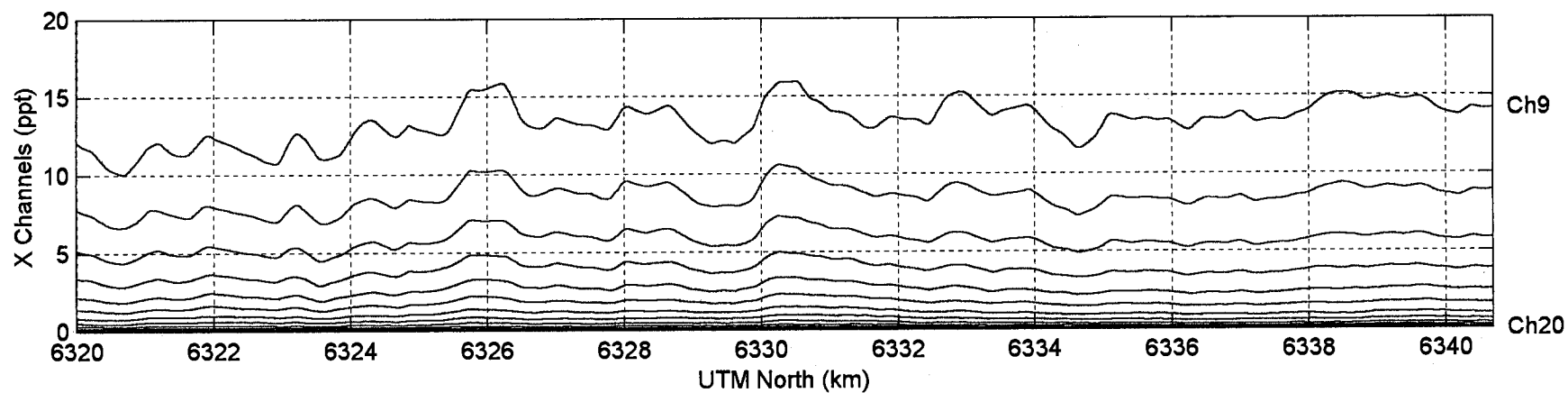
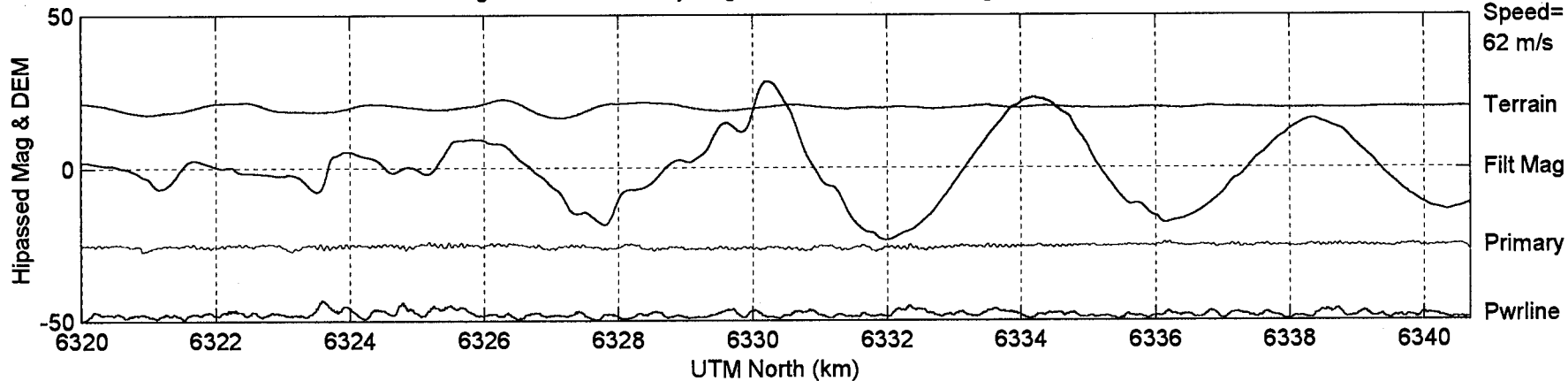


Pg1:GEOTEM Survey Figaro Line=167 Easting=538202

Speed=
62 m/s

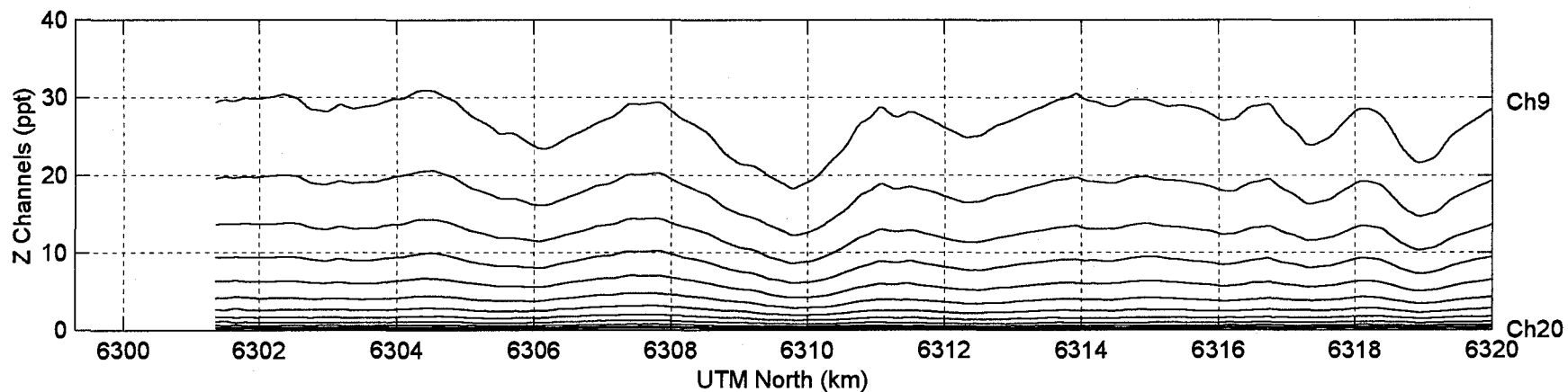
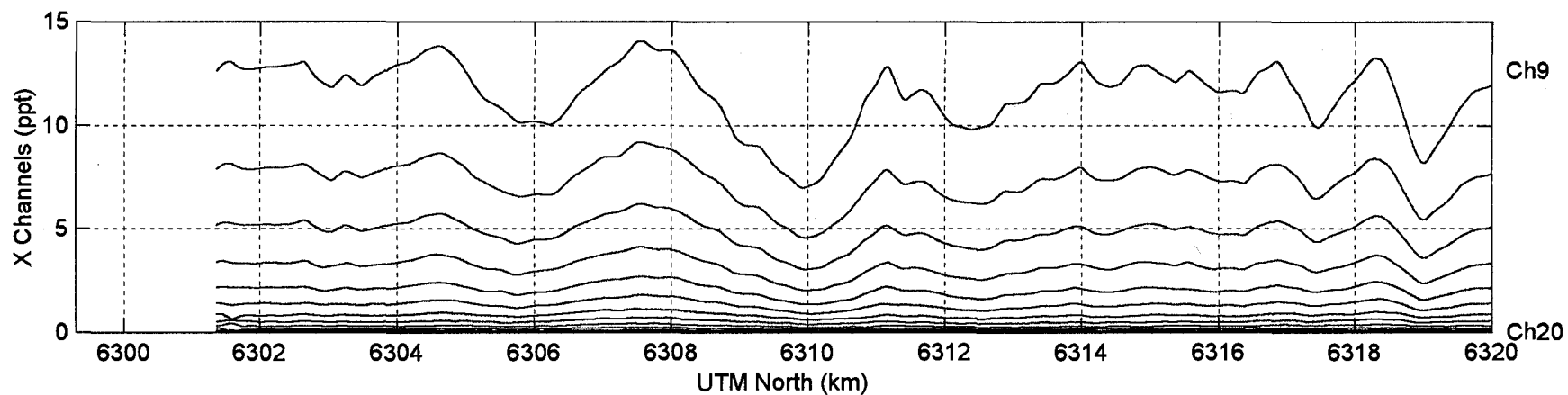
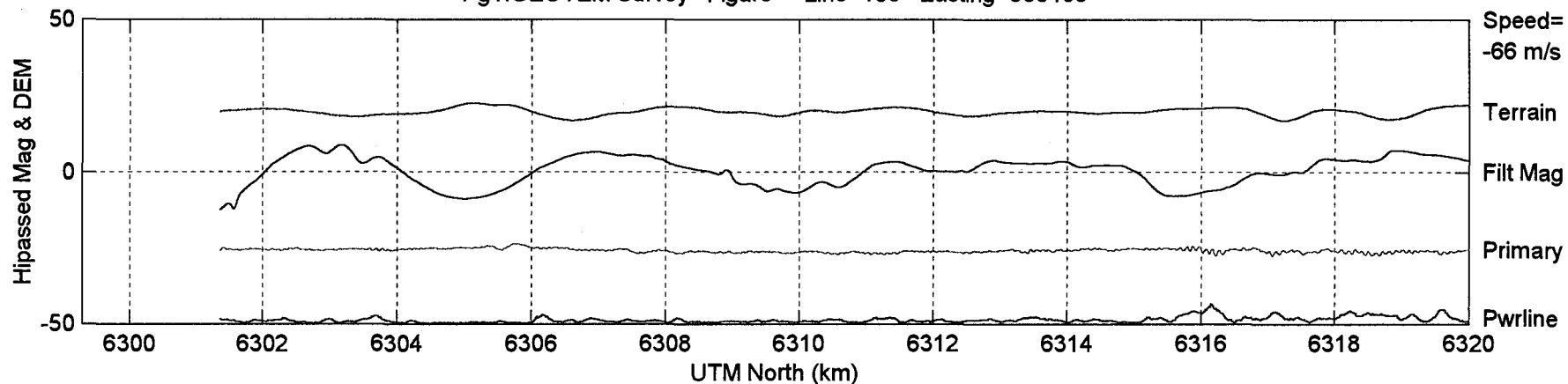


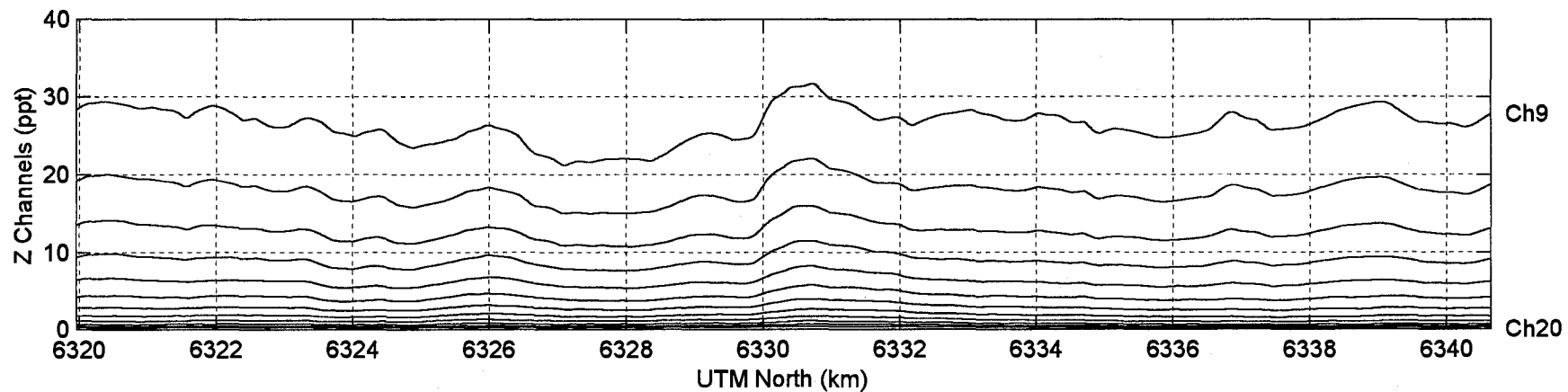
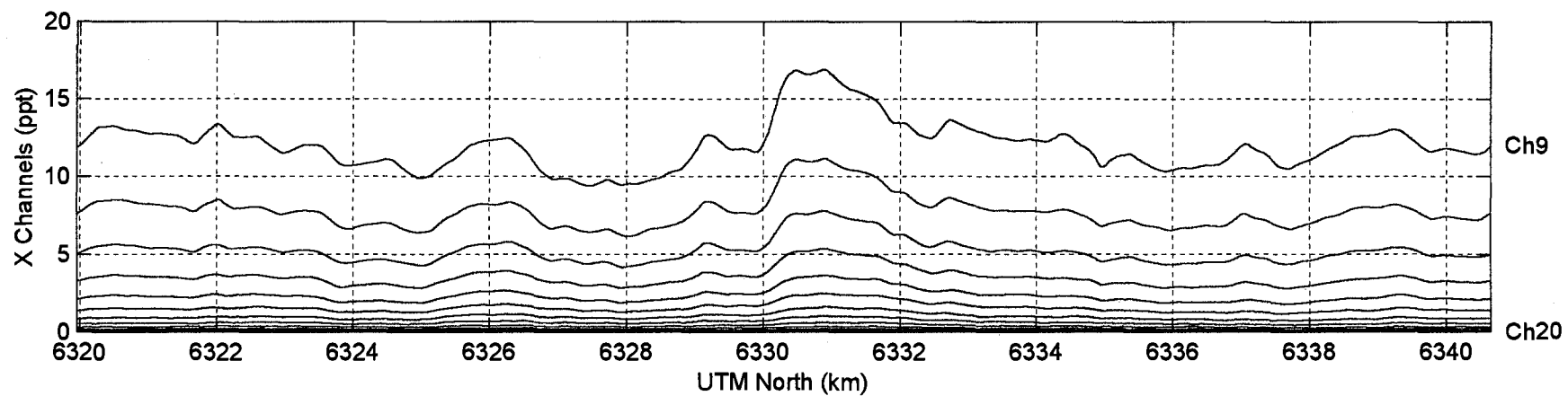
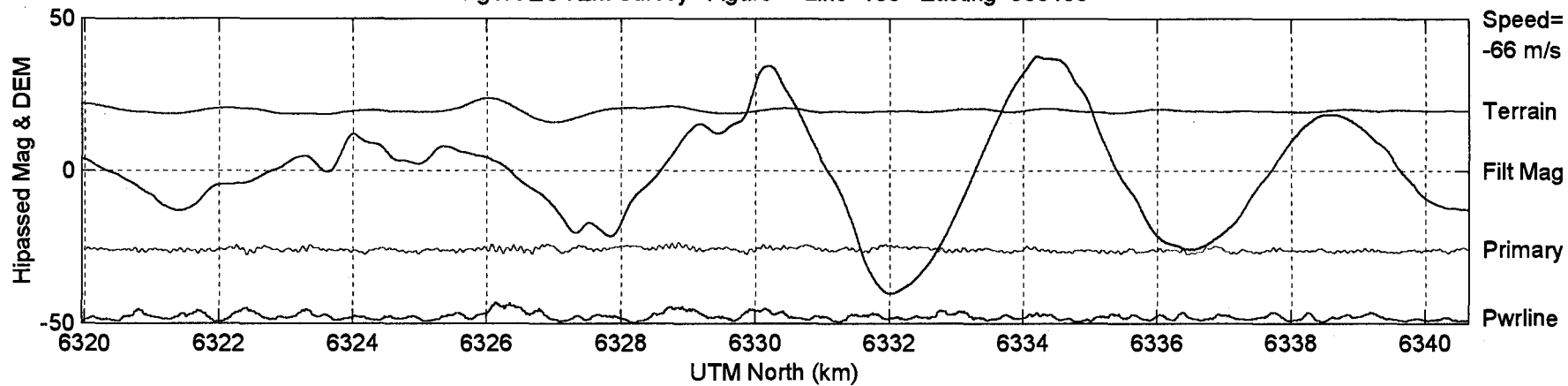
Speed=
62 m/s



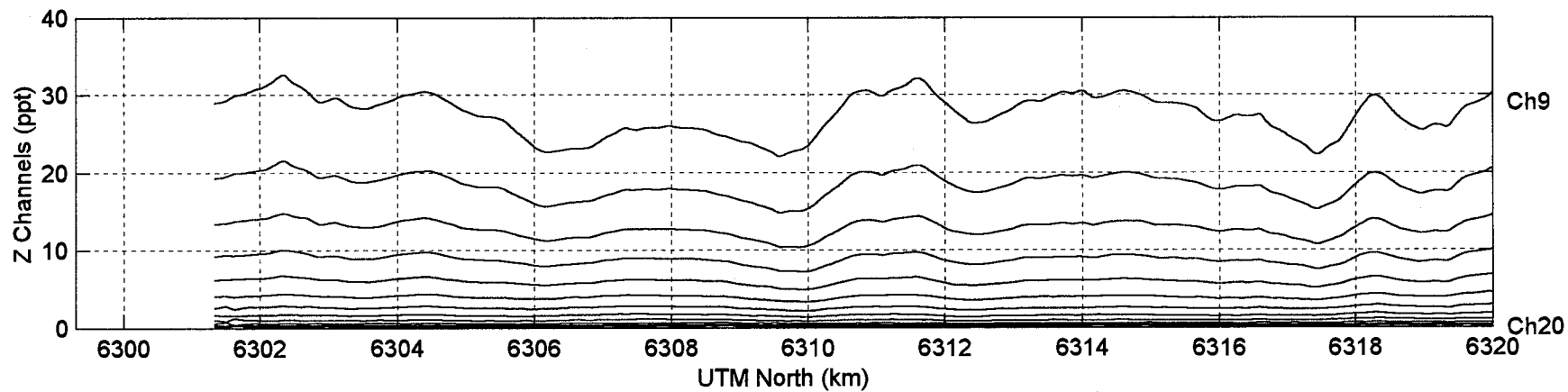
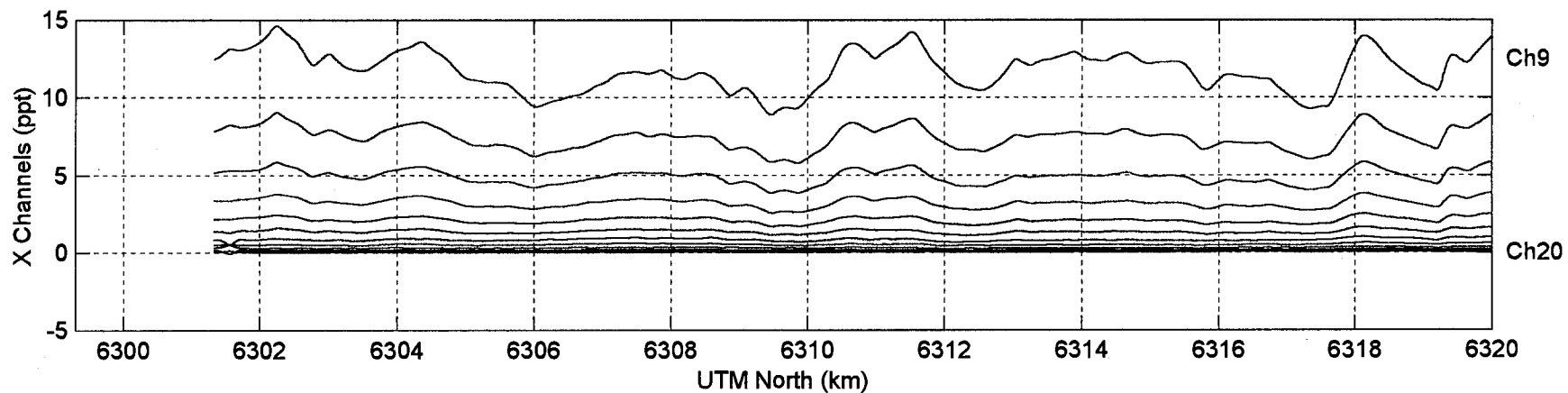
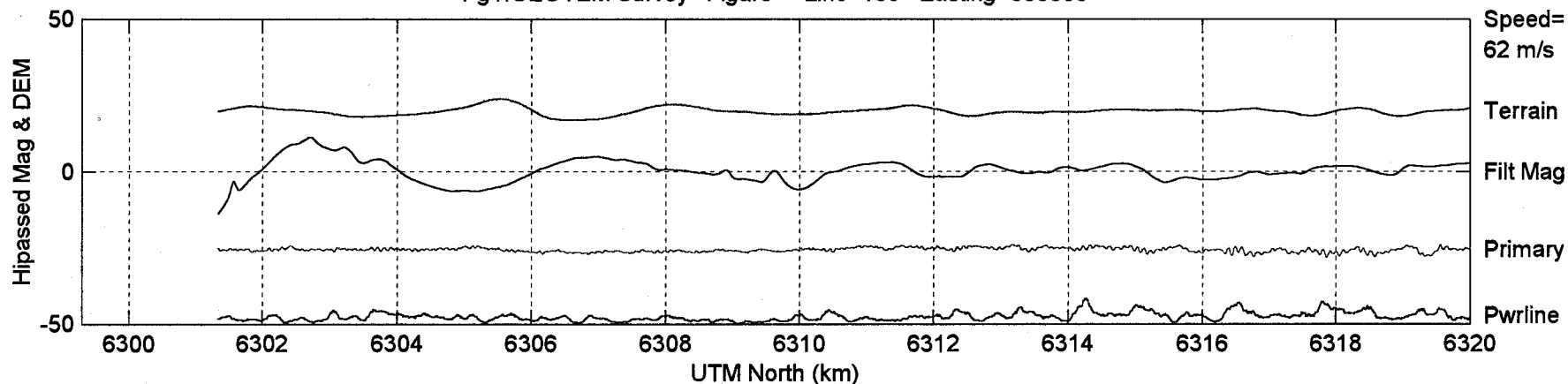
Pg1:GEOTEM Survey Figaro Line=168 Easting=538403

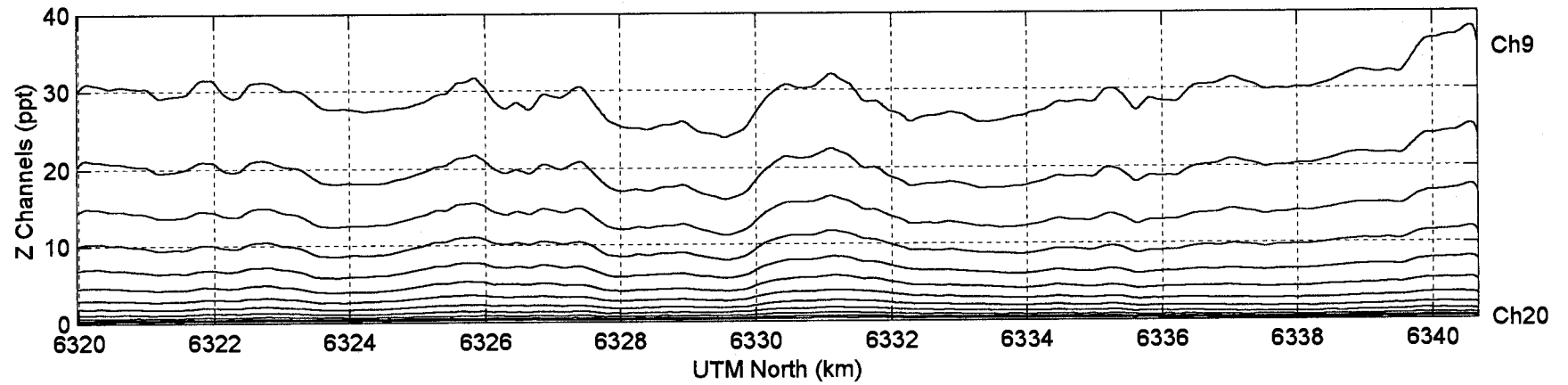
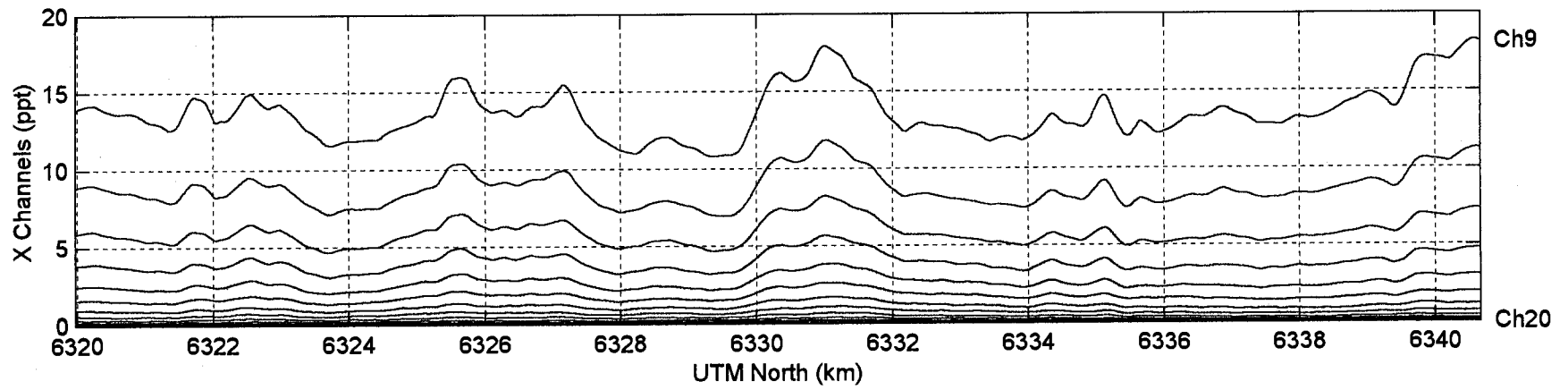
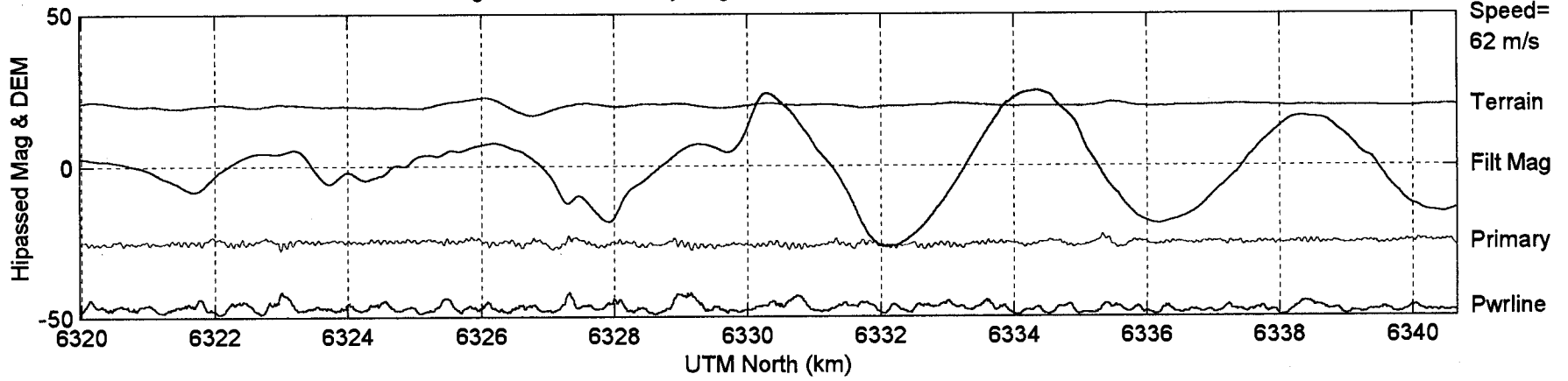
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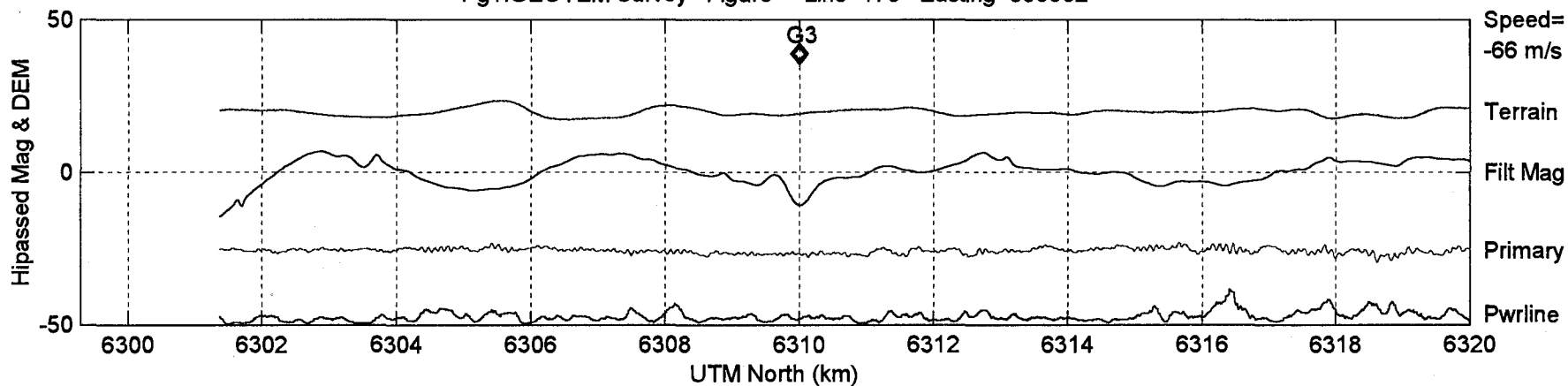




Speed=
62 m/s







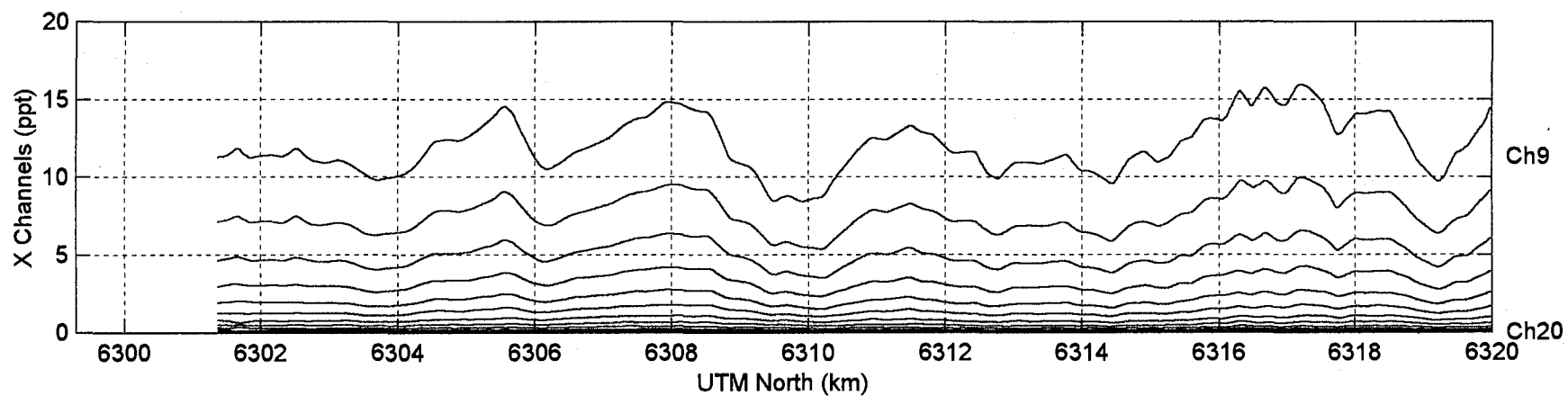
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Terrain

Filt Mag

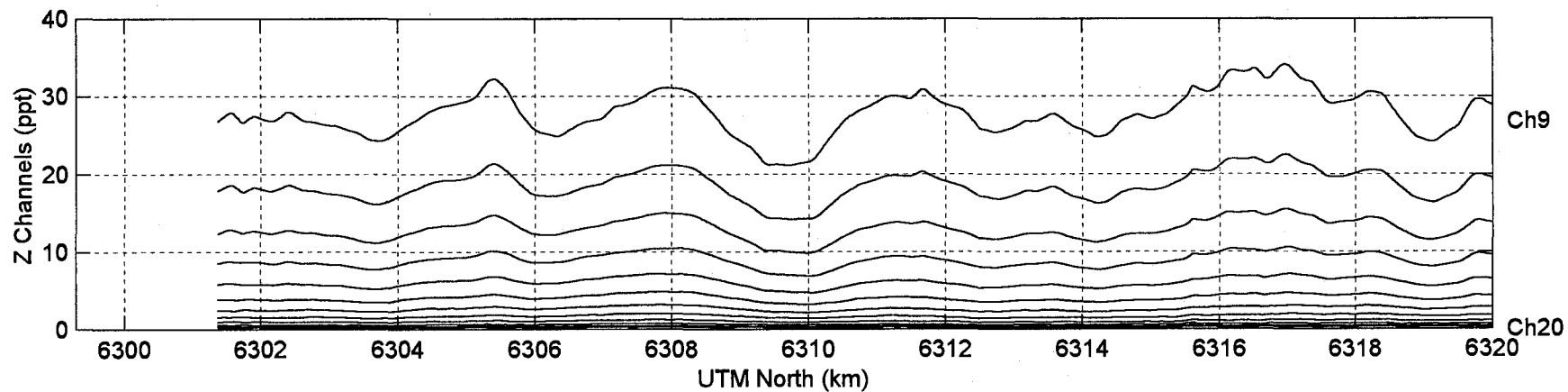
Primary

Pwrline



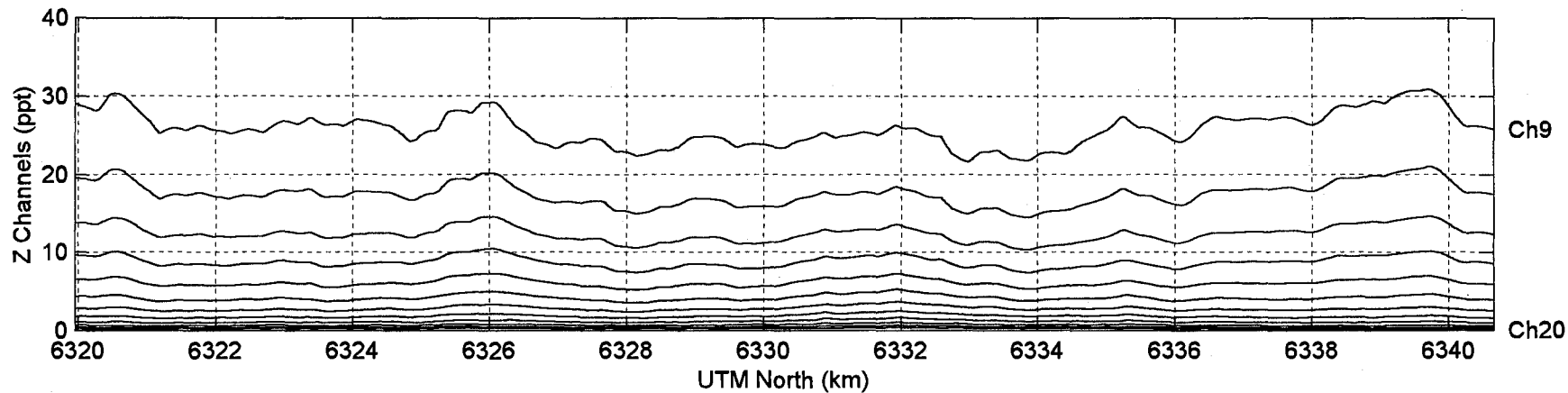
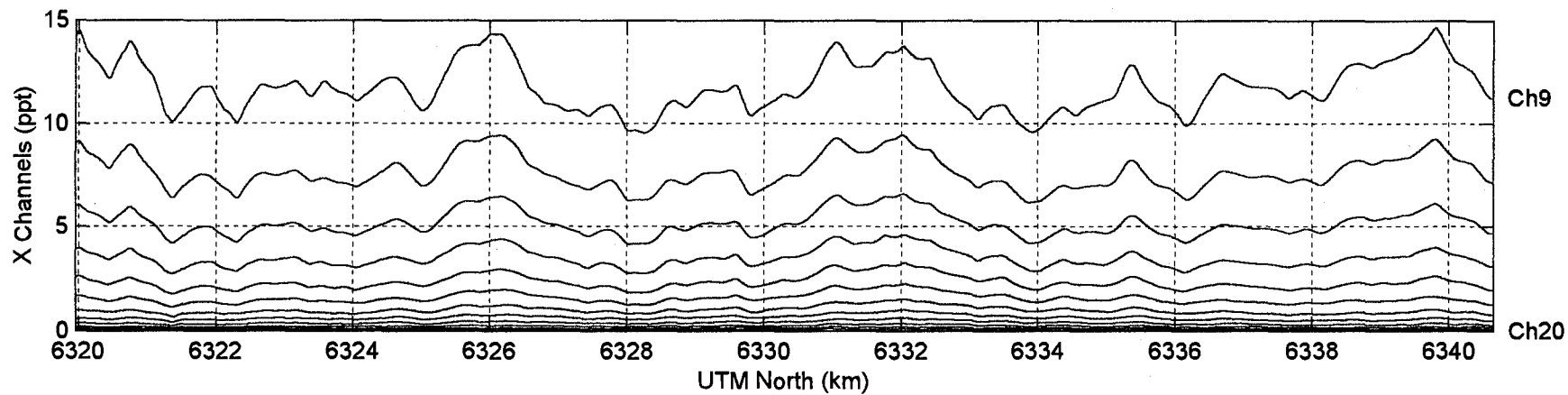
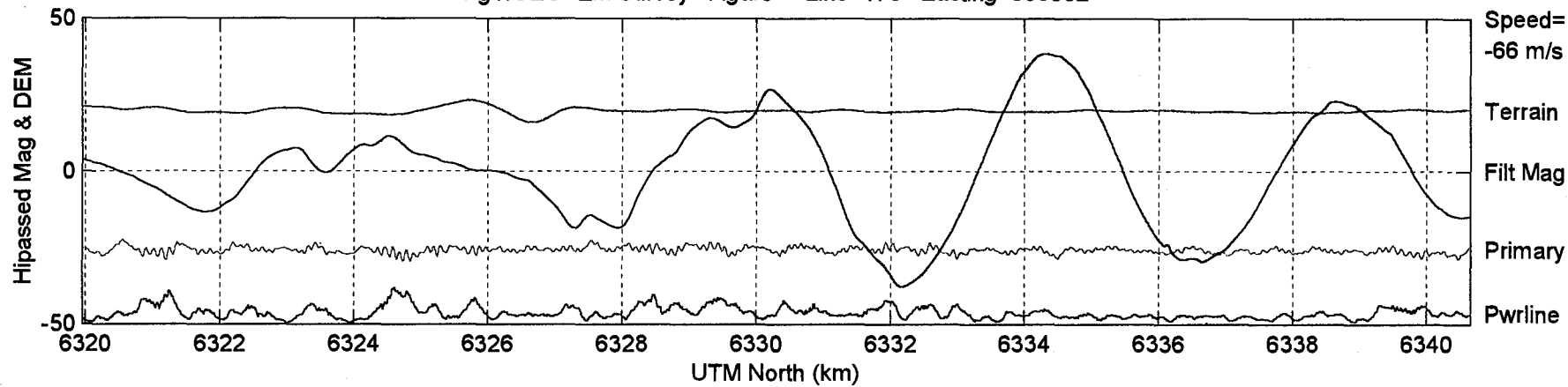
Ch9

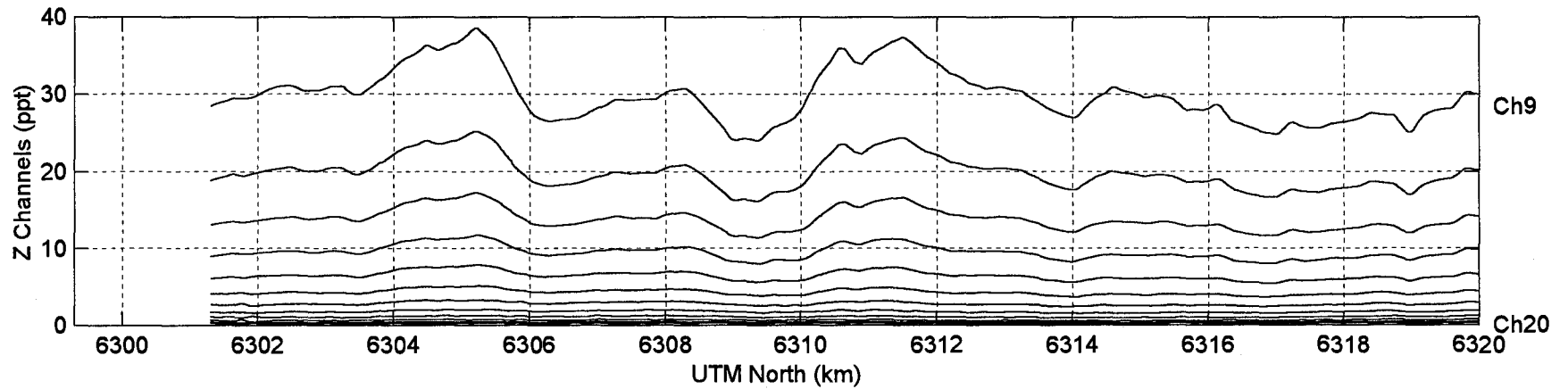
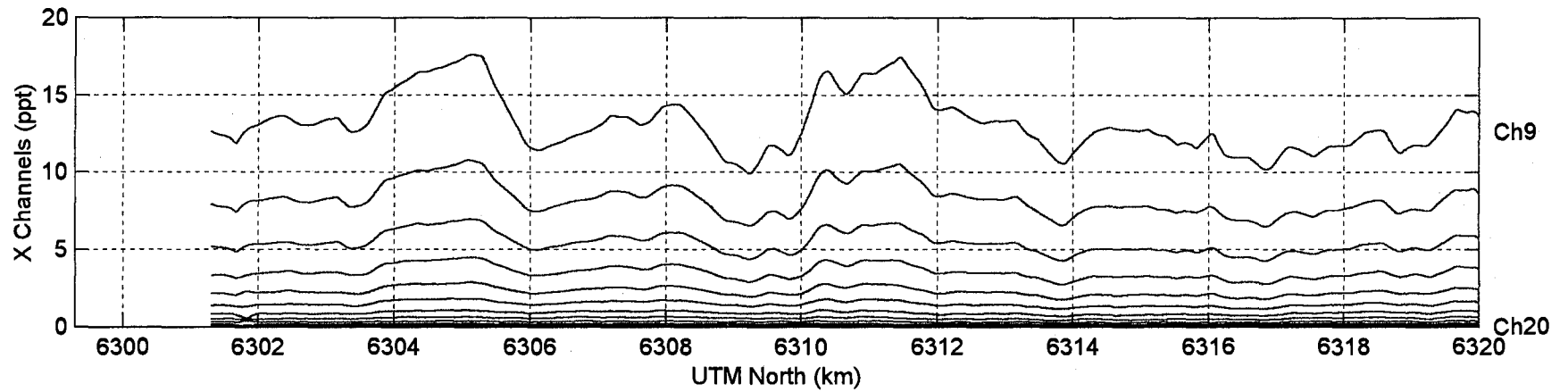
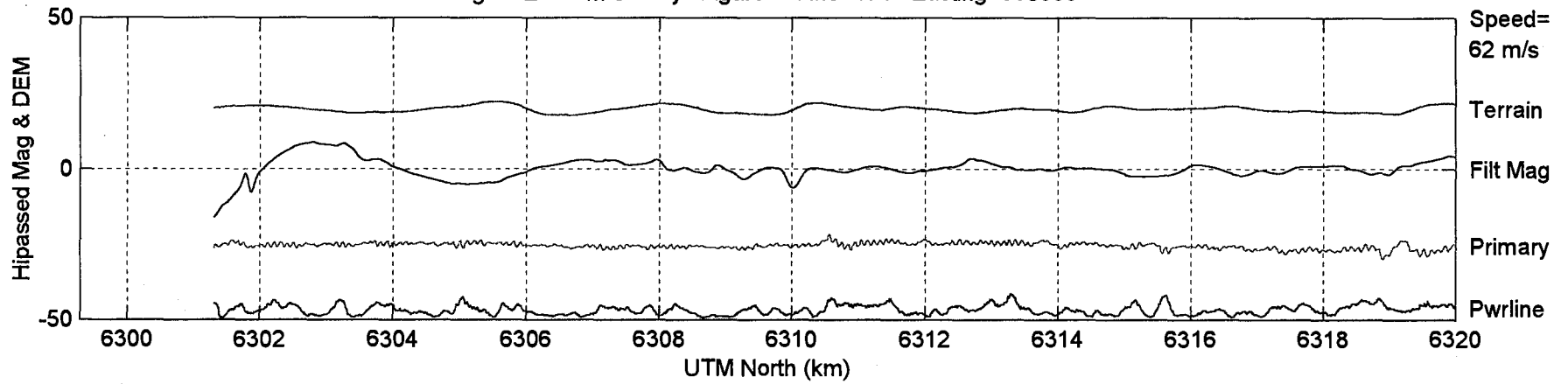
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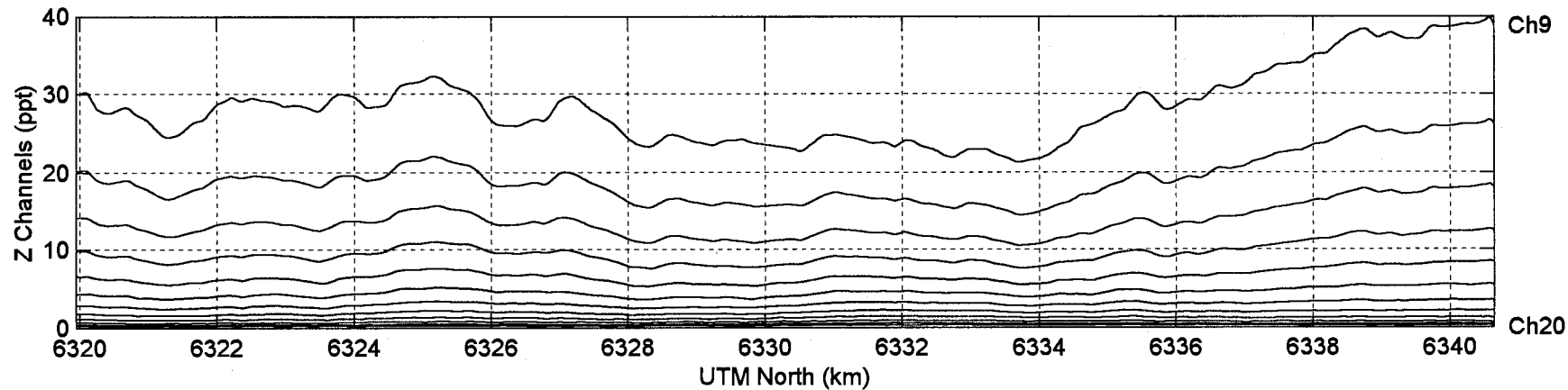
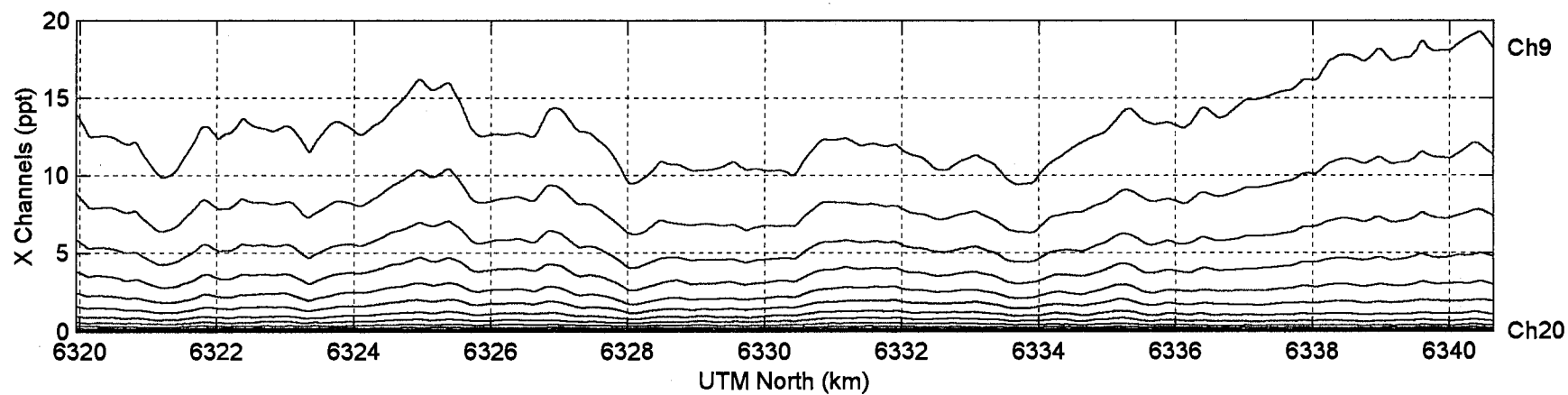
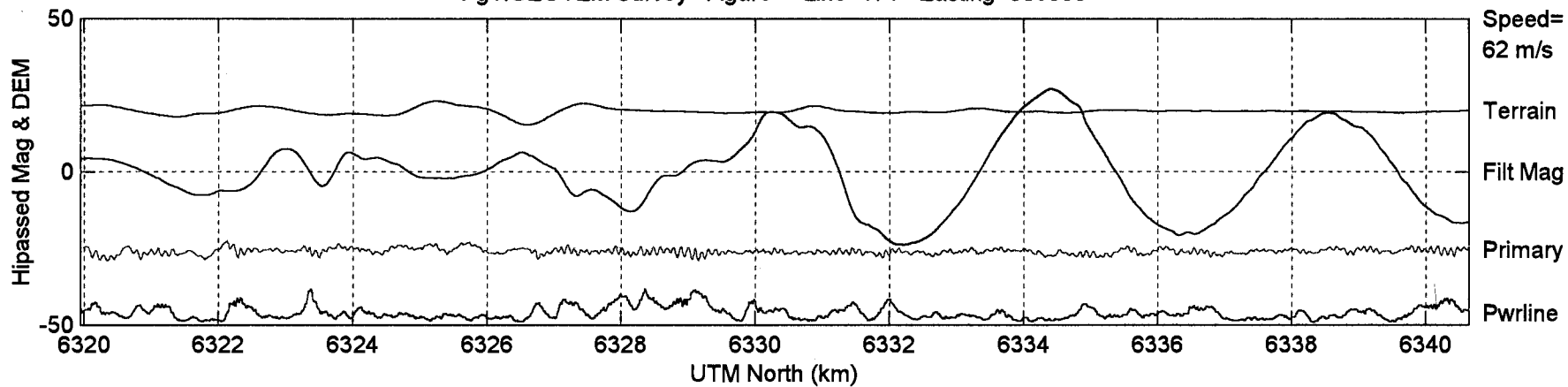
Ch9

Ch20

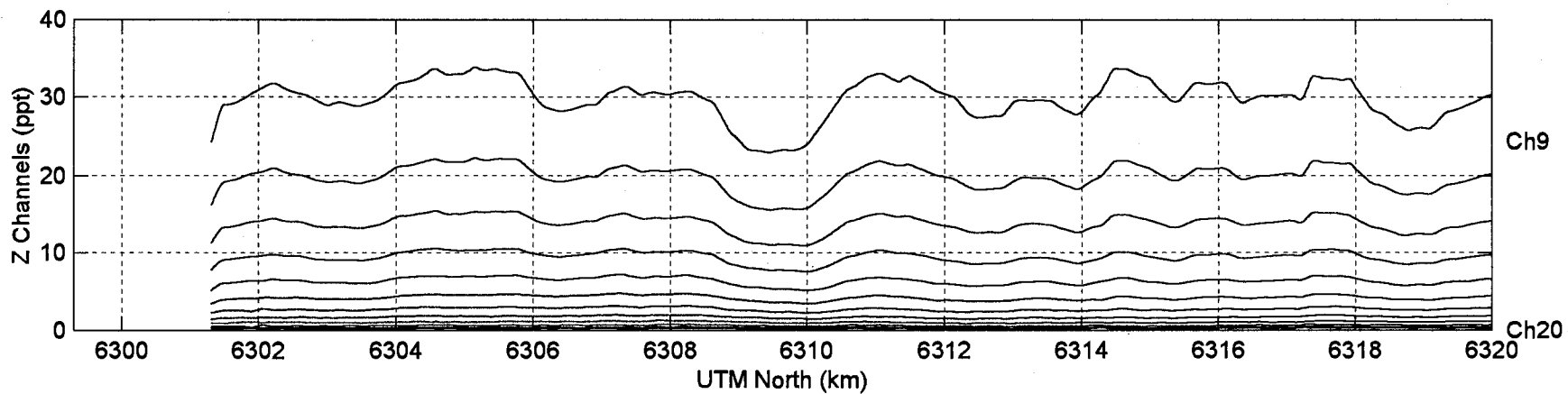
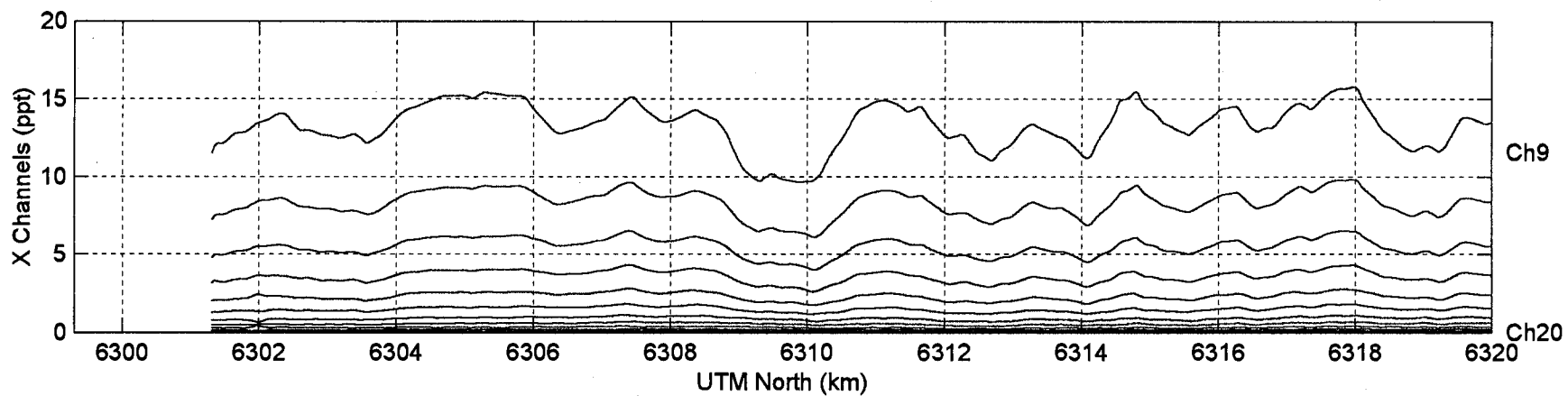
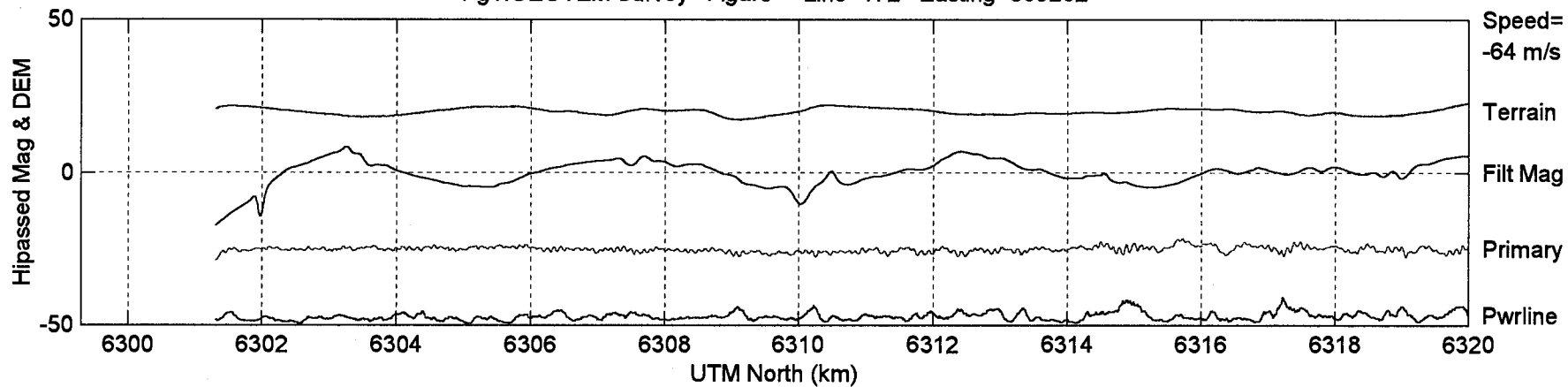


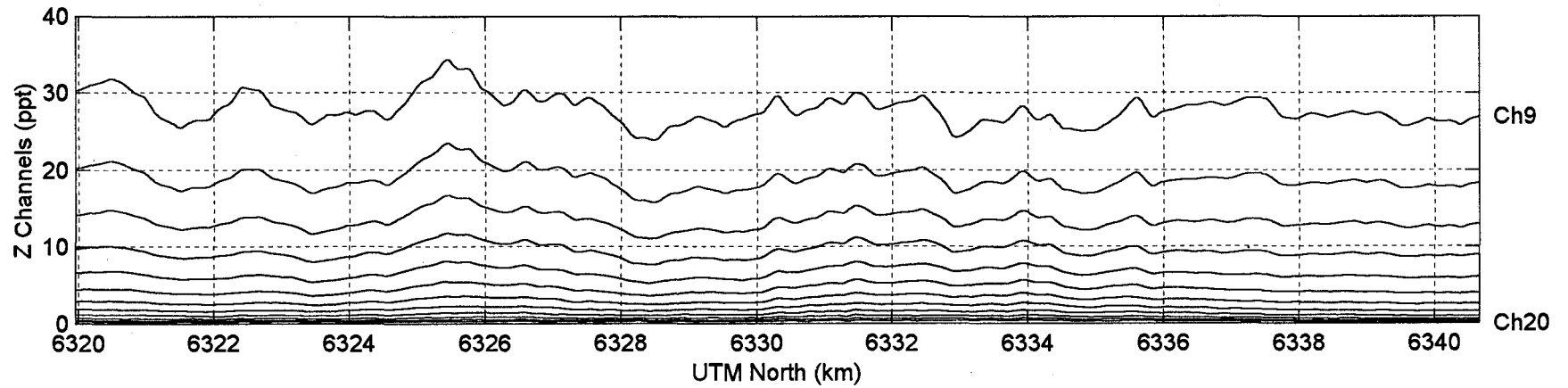
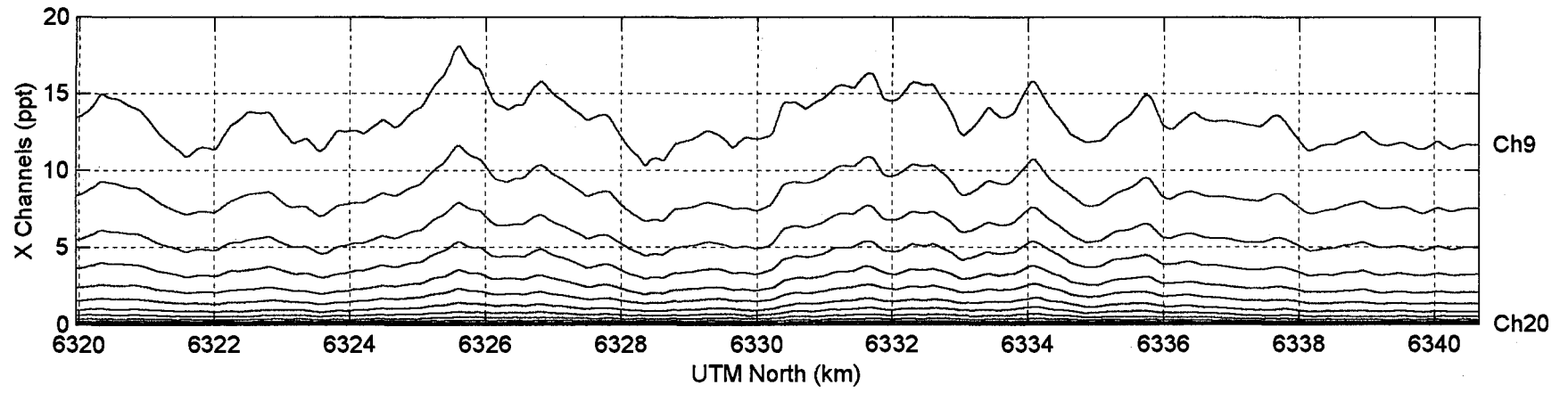
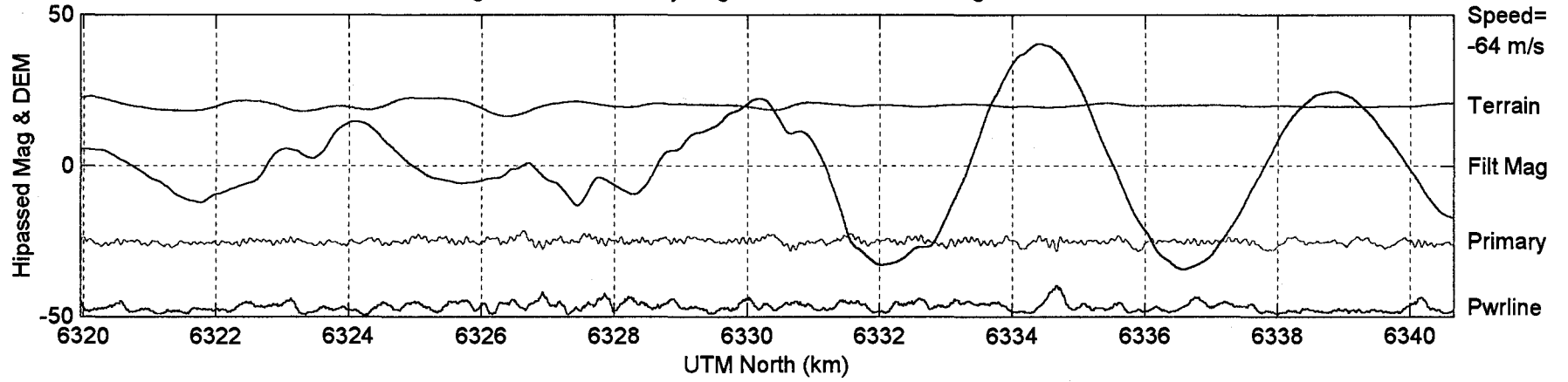


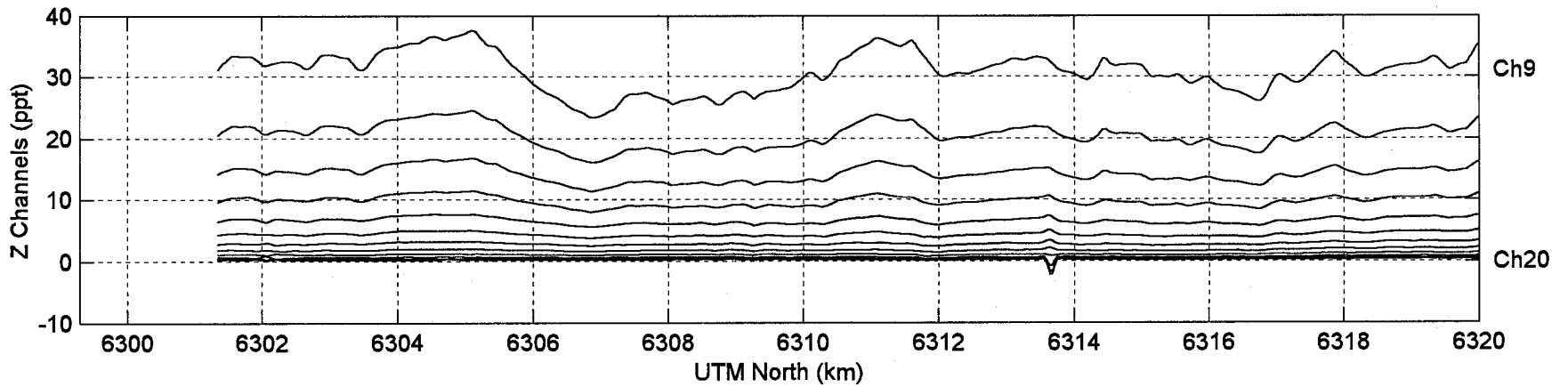
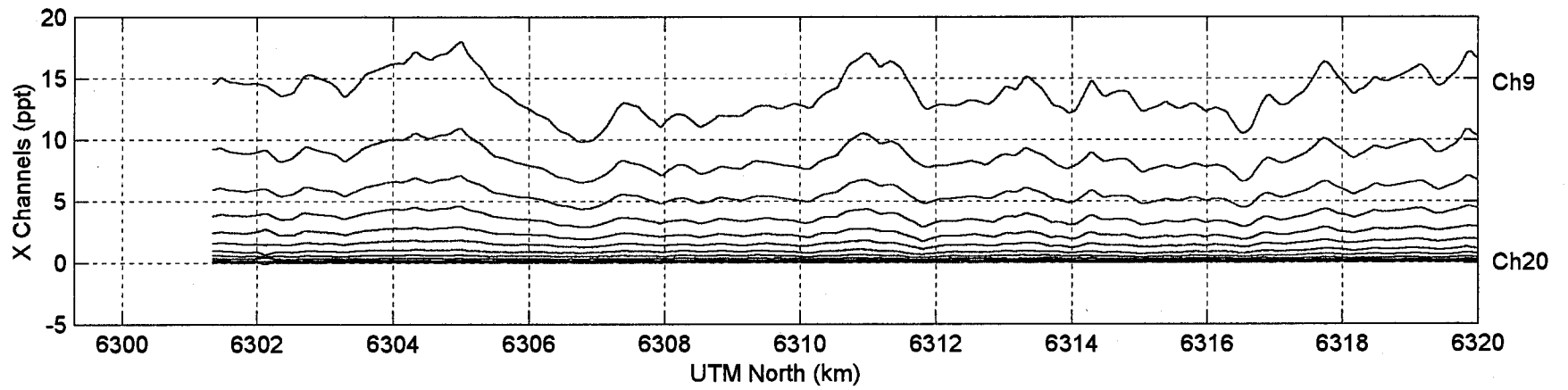
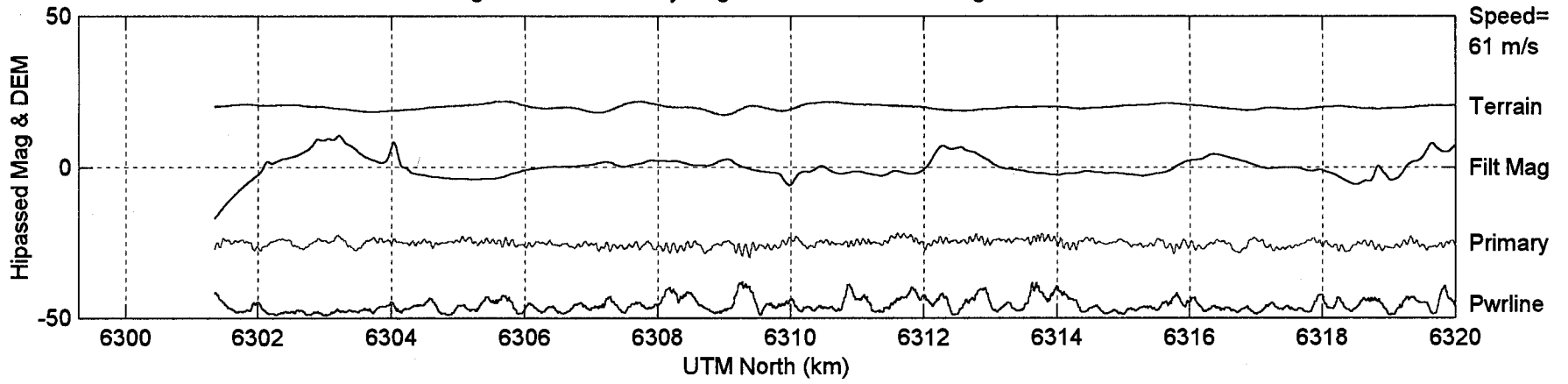
Pg1:GEOTEM Survey Figaro Line=171 Easting=538999

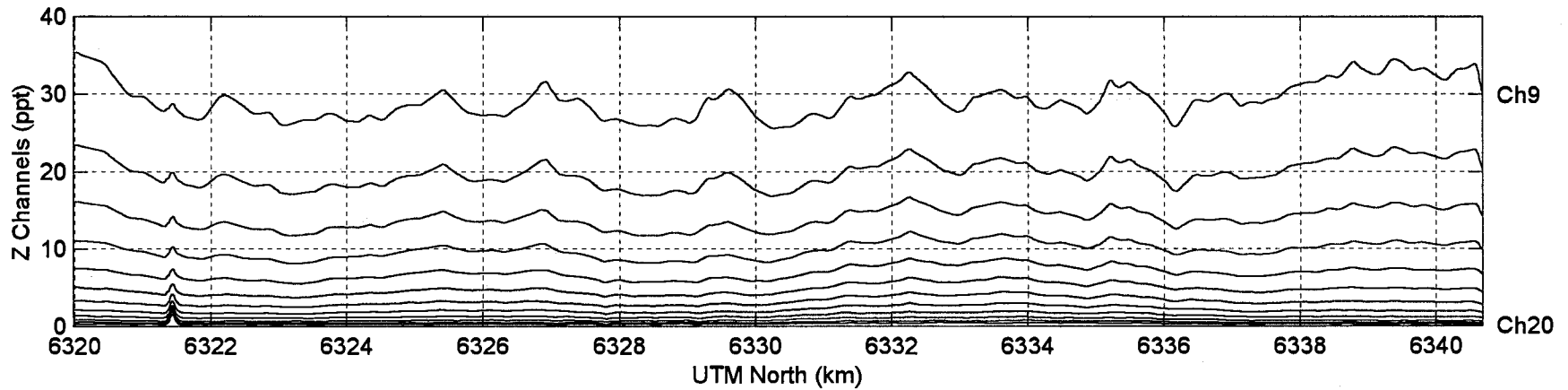
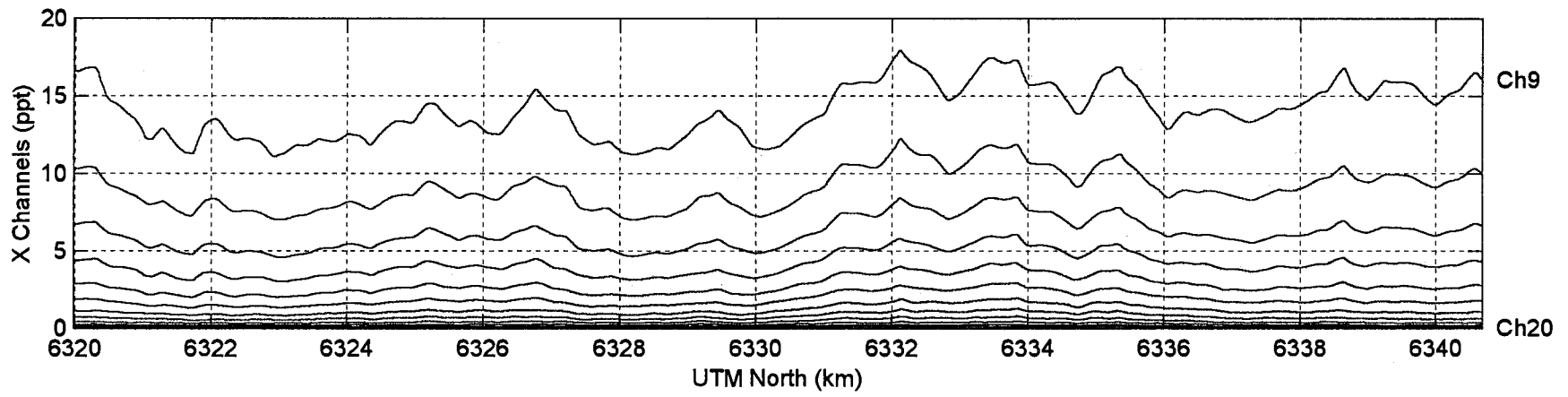
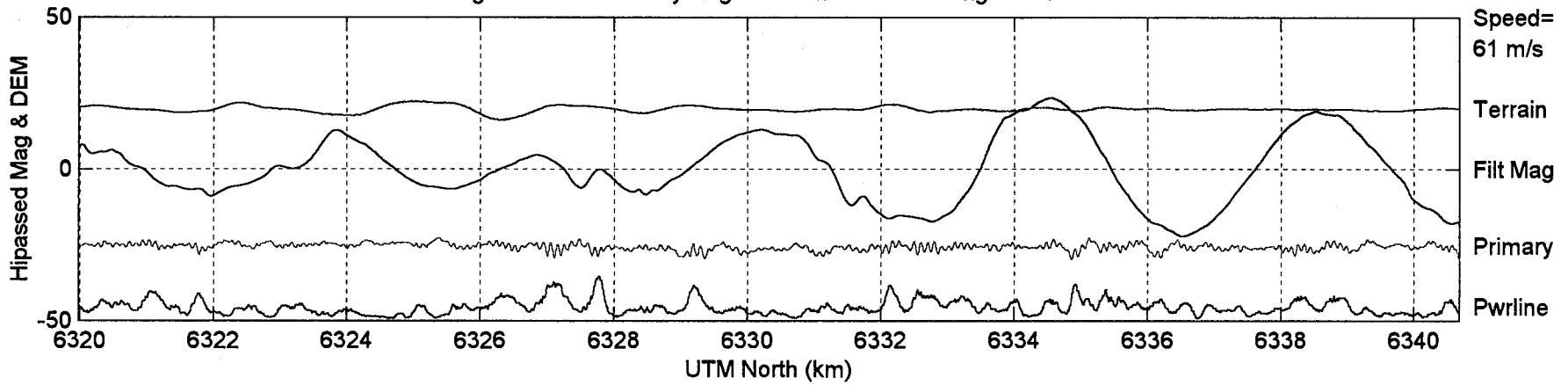


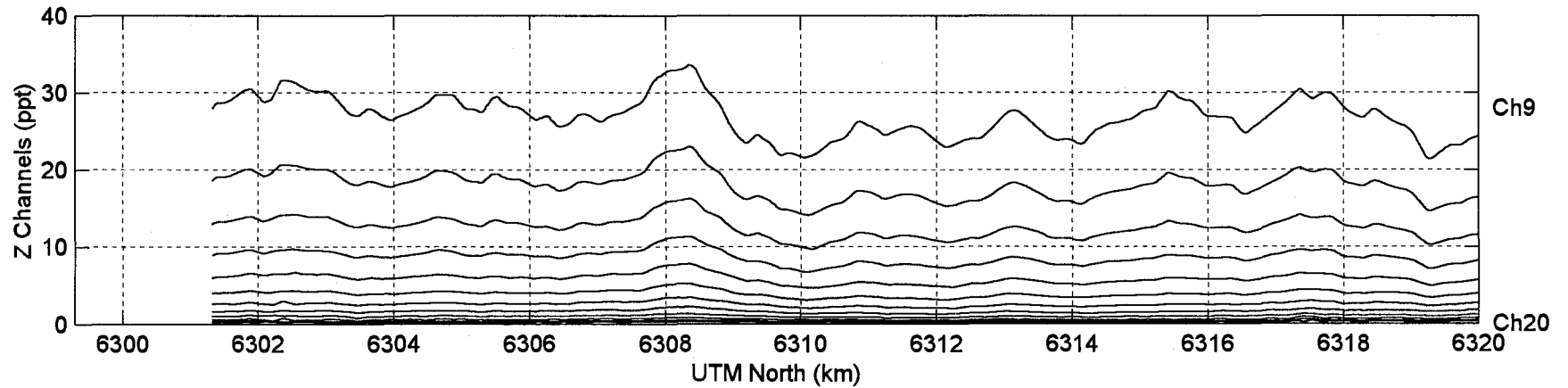
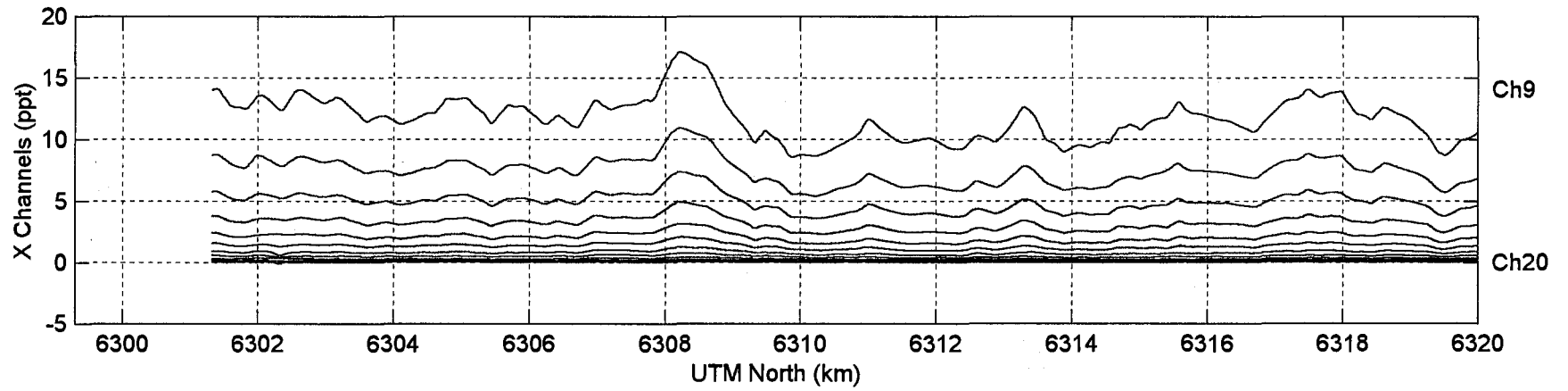
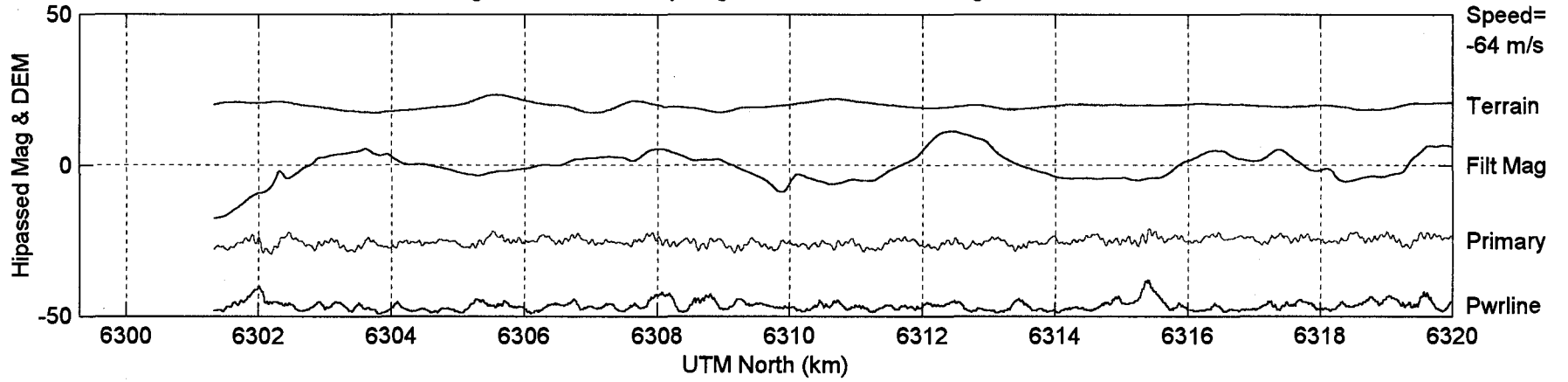
Pg1:GEOTEM Survey Figaro Line=172 Easting=539202

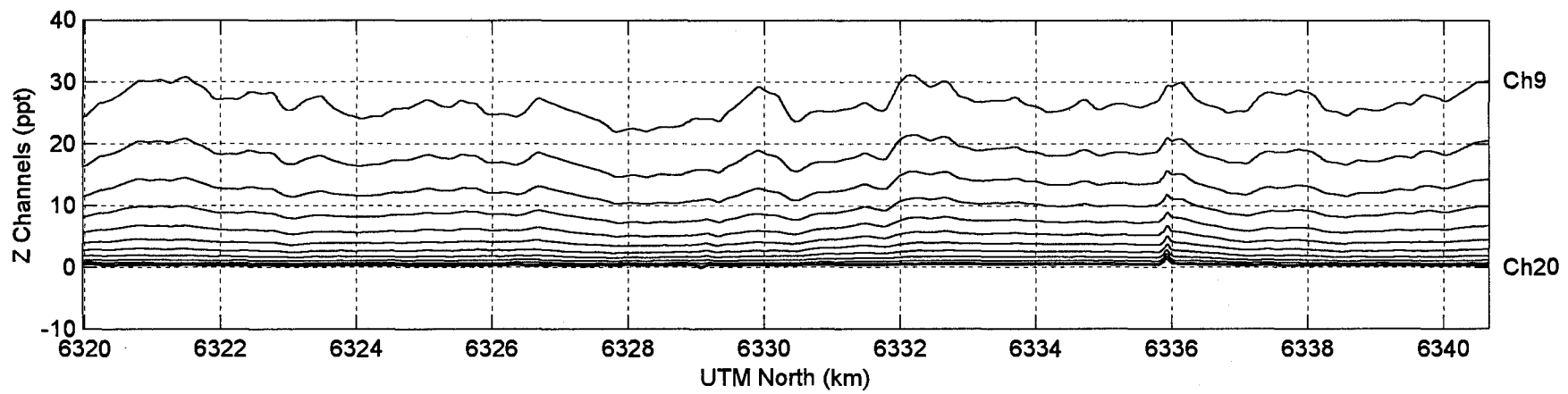
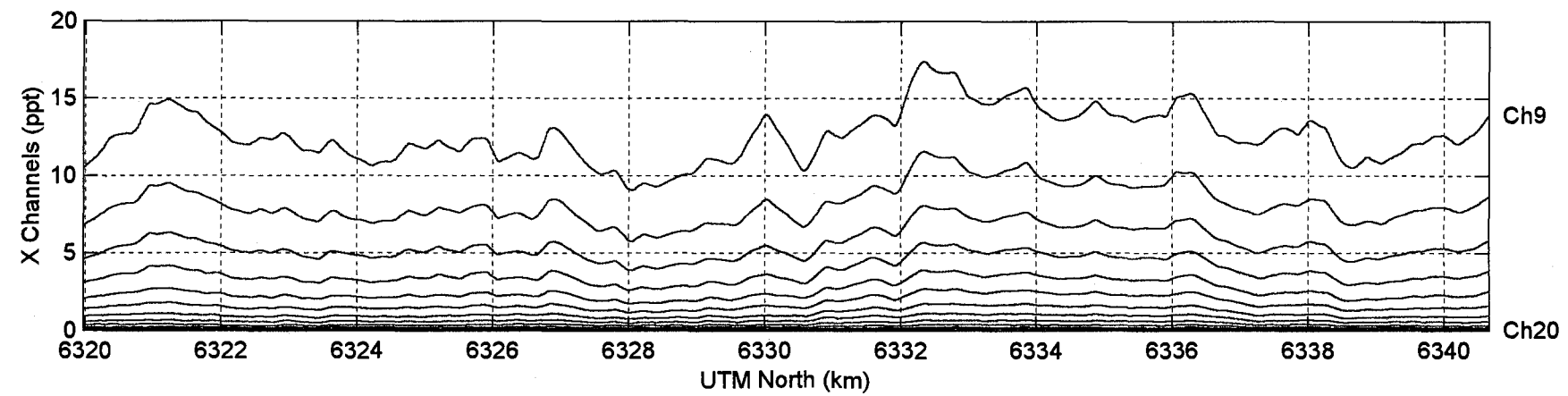
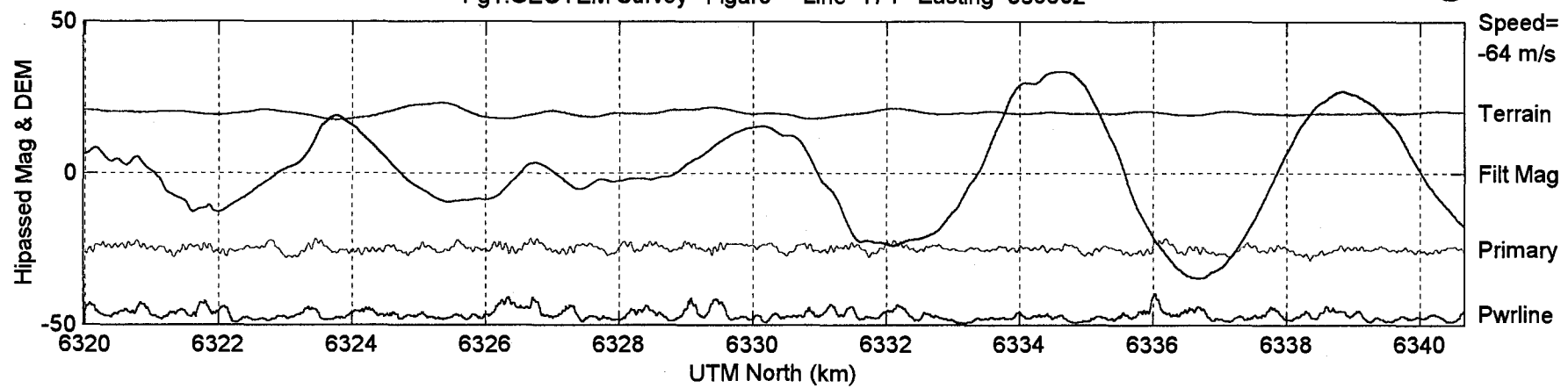


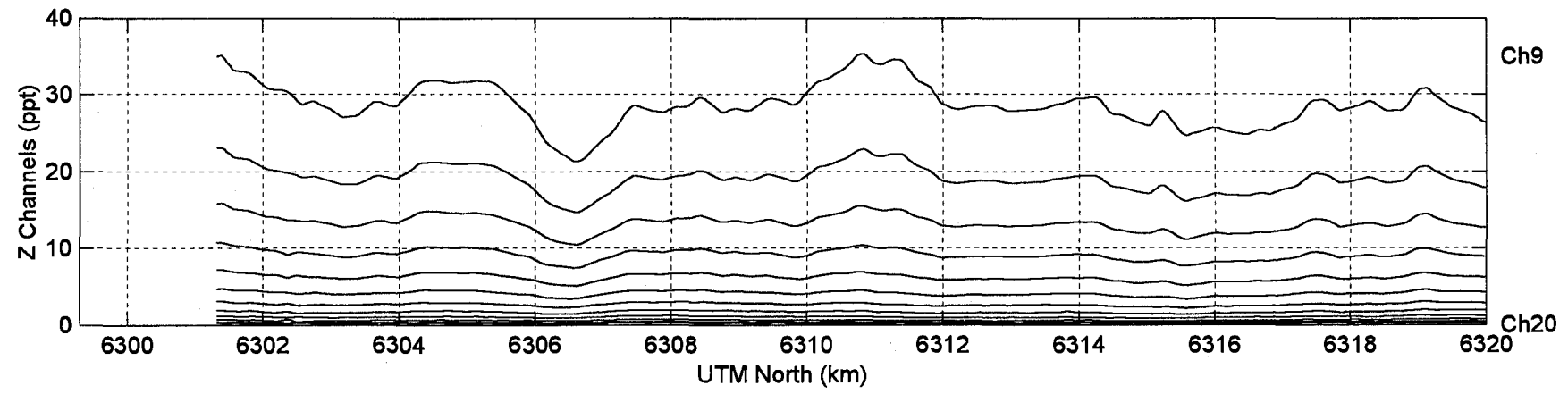
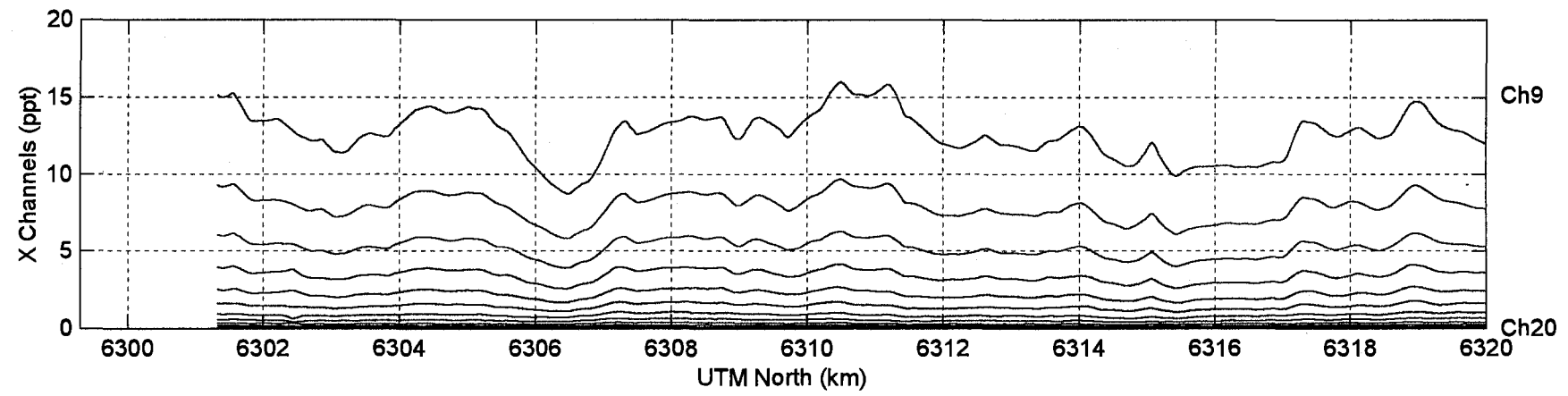
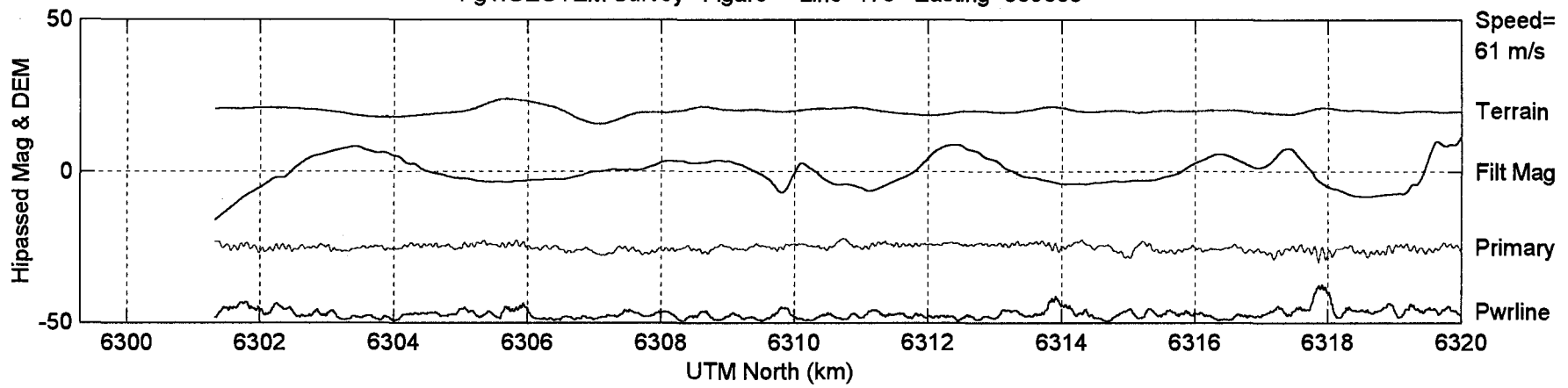


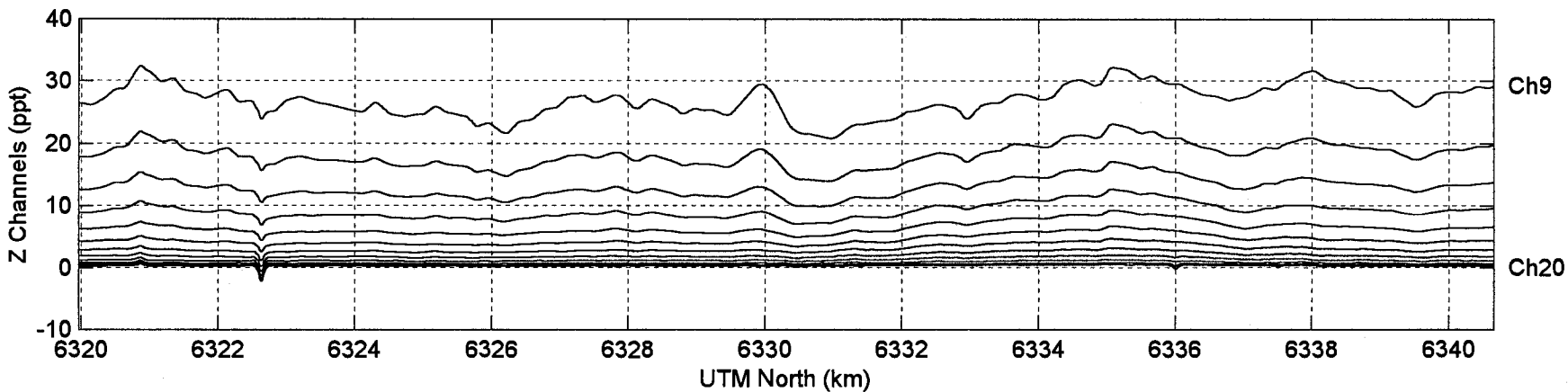
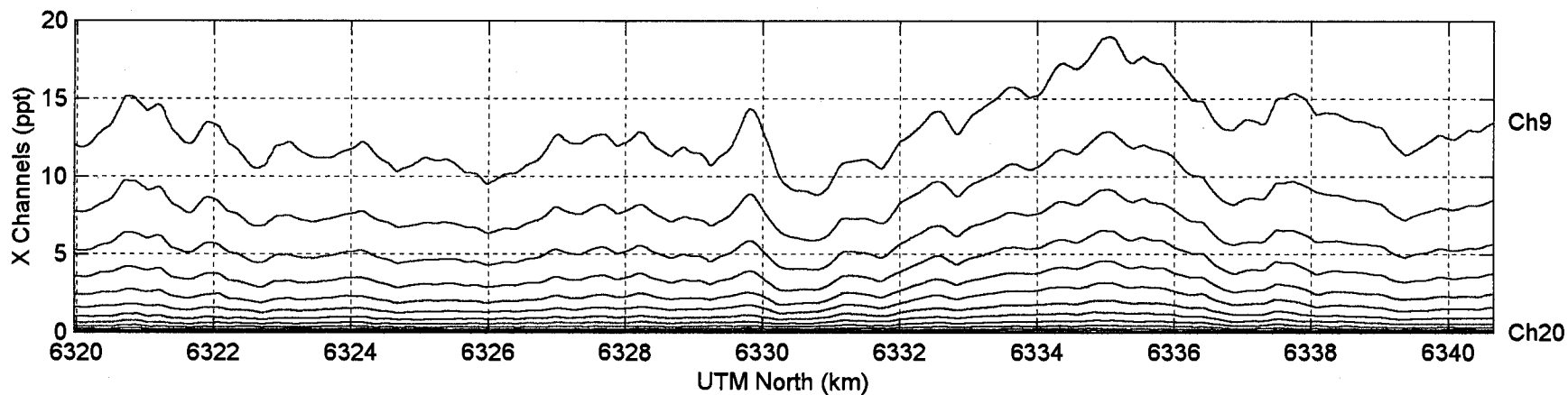
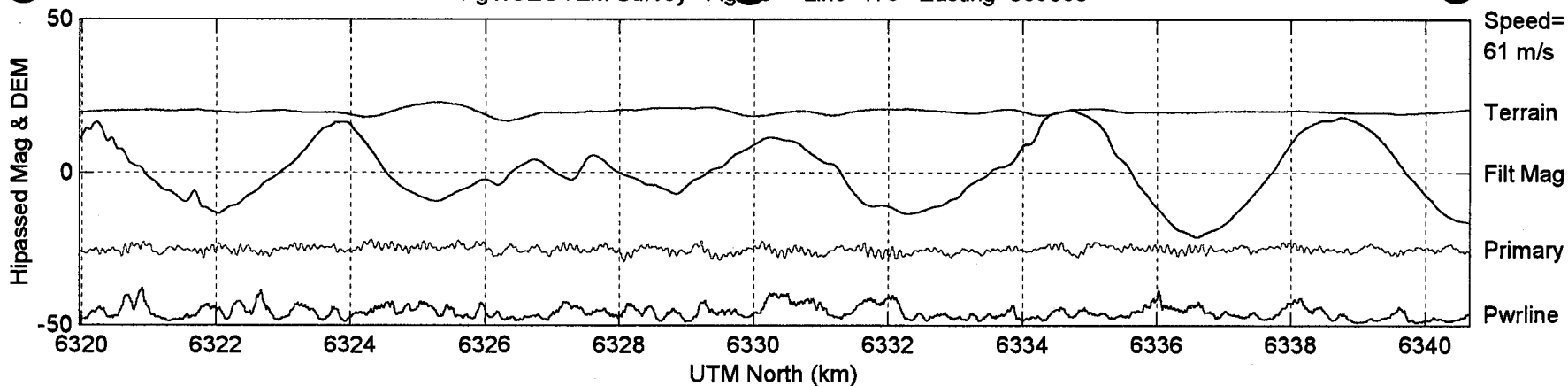




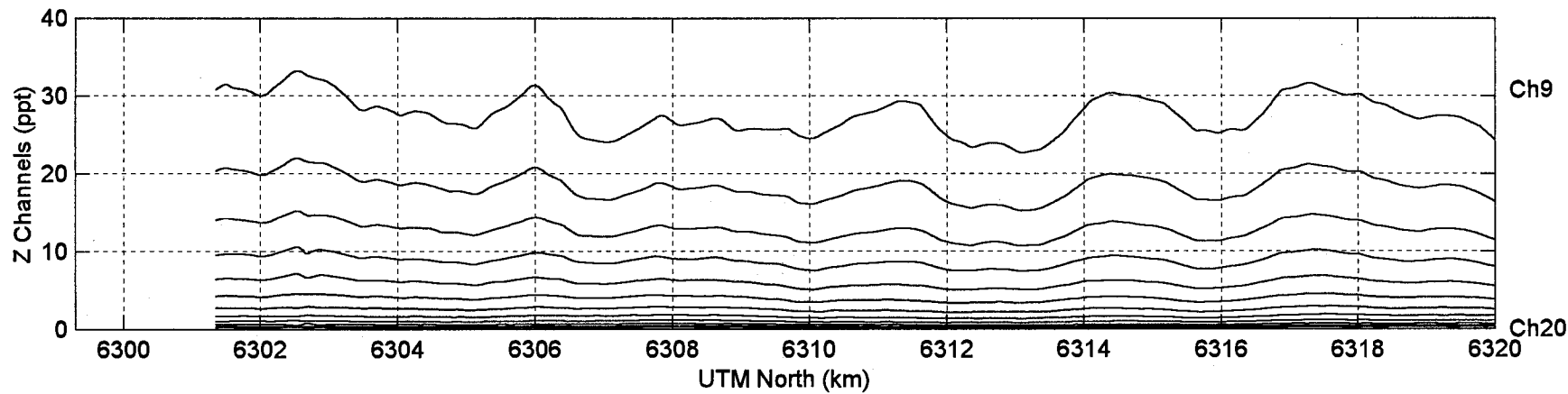
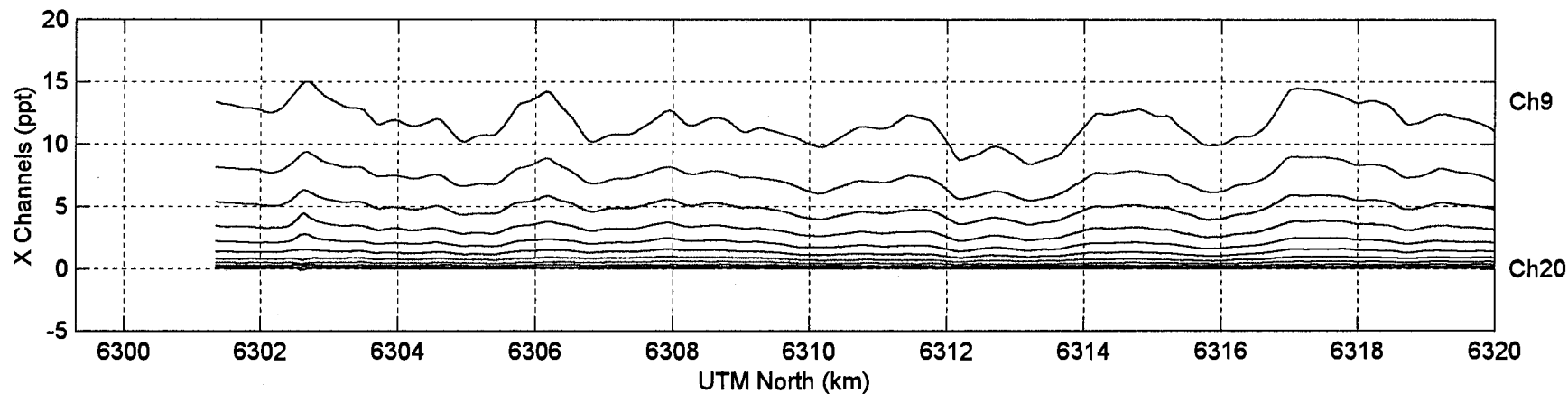
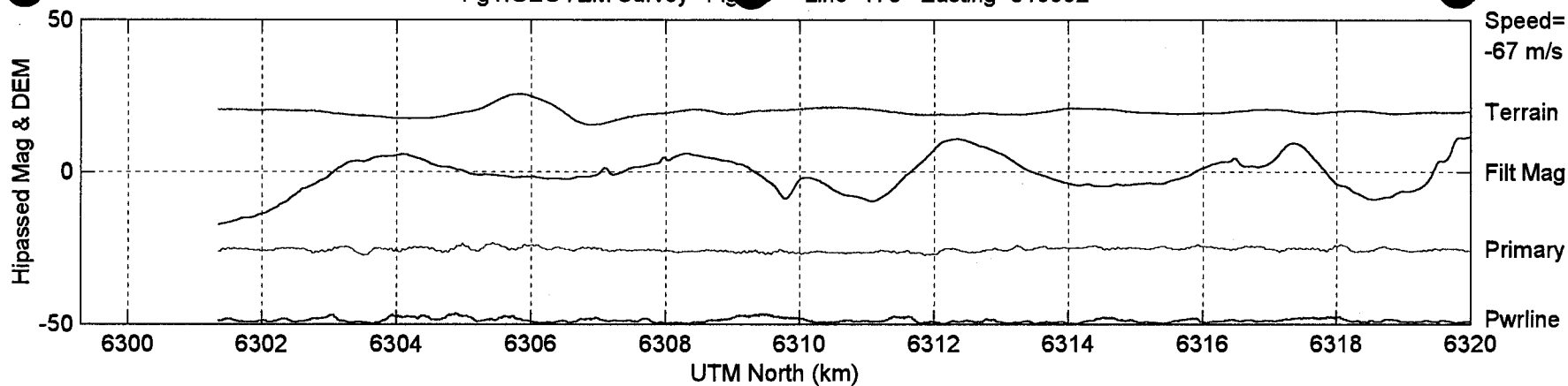


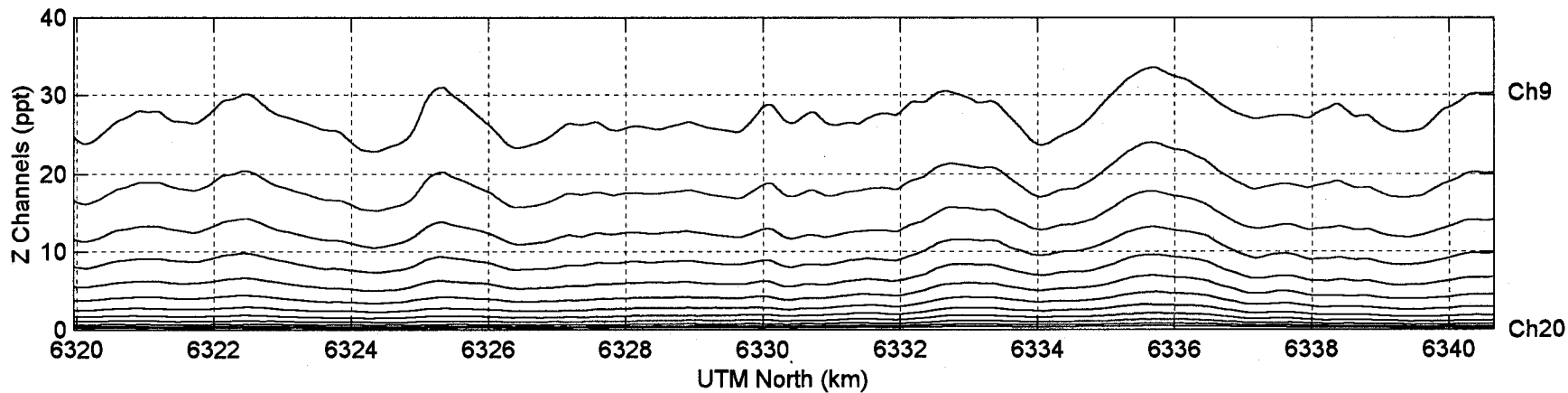
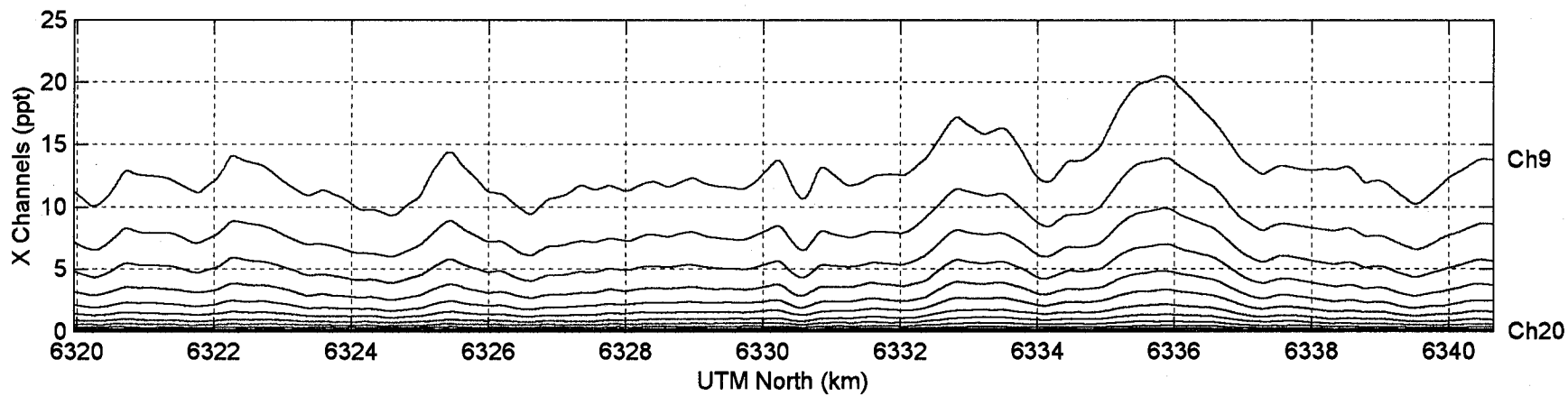
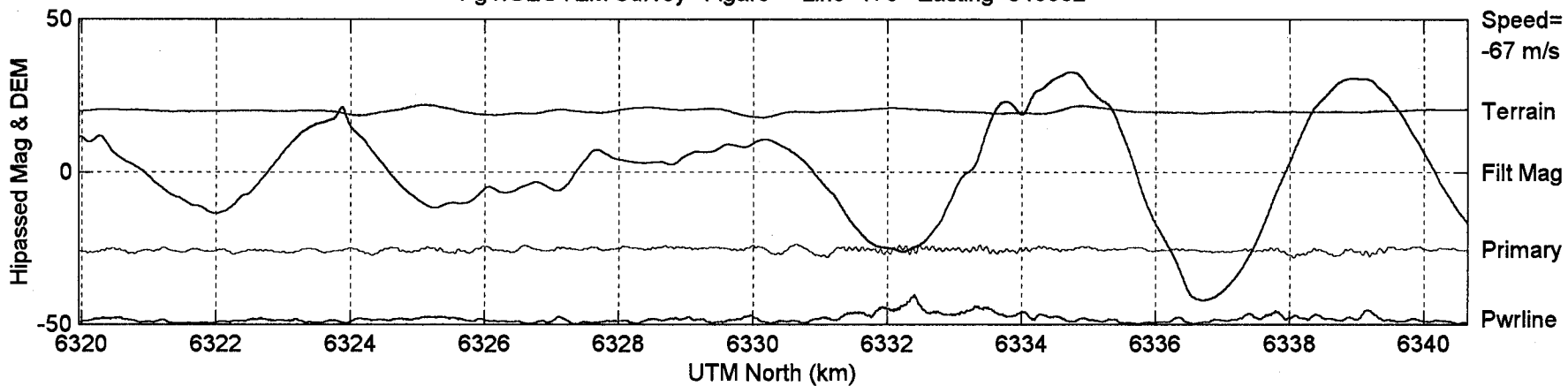


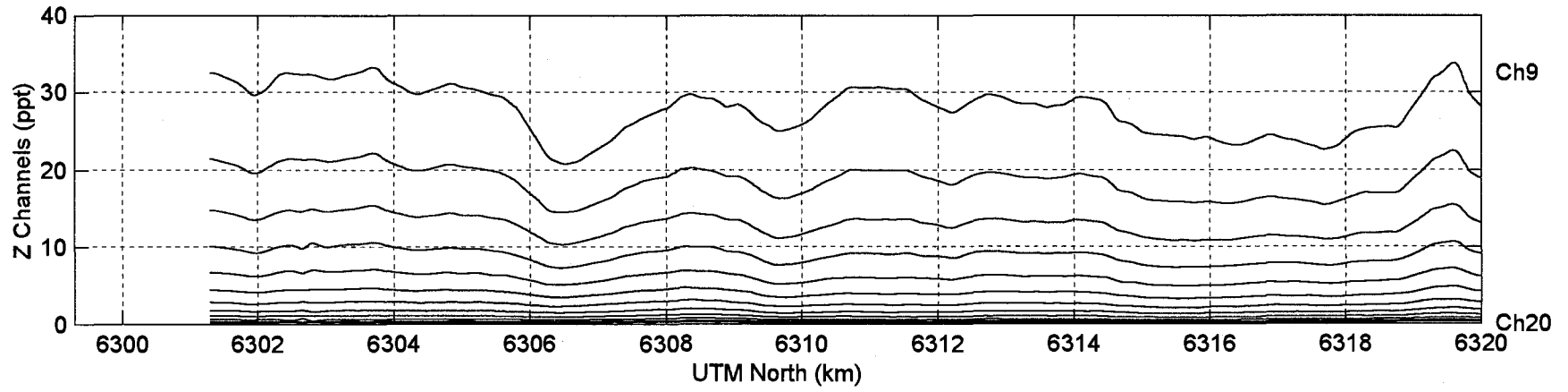
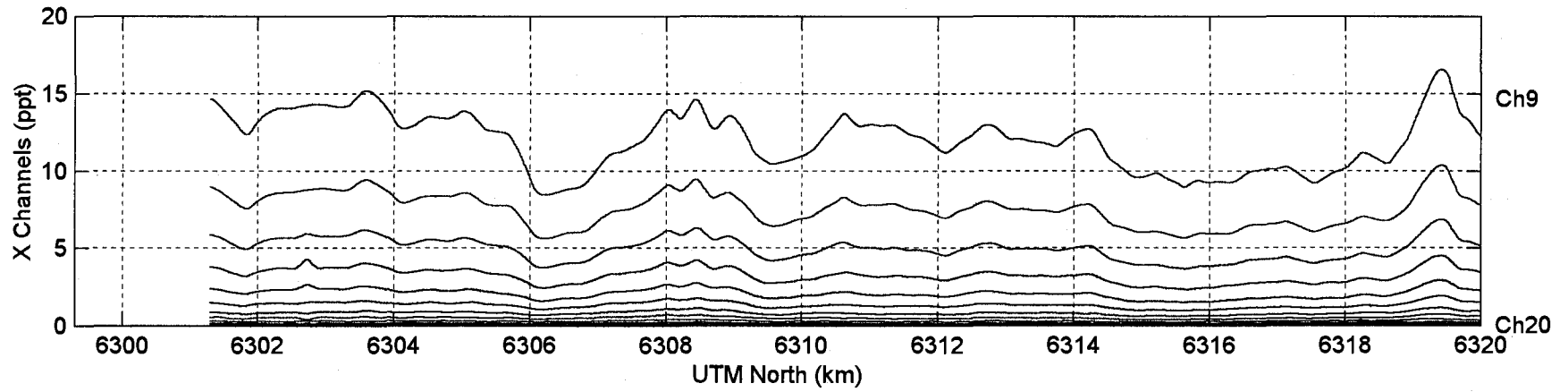
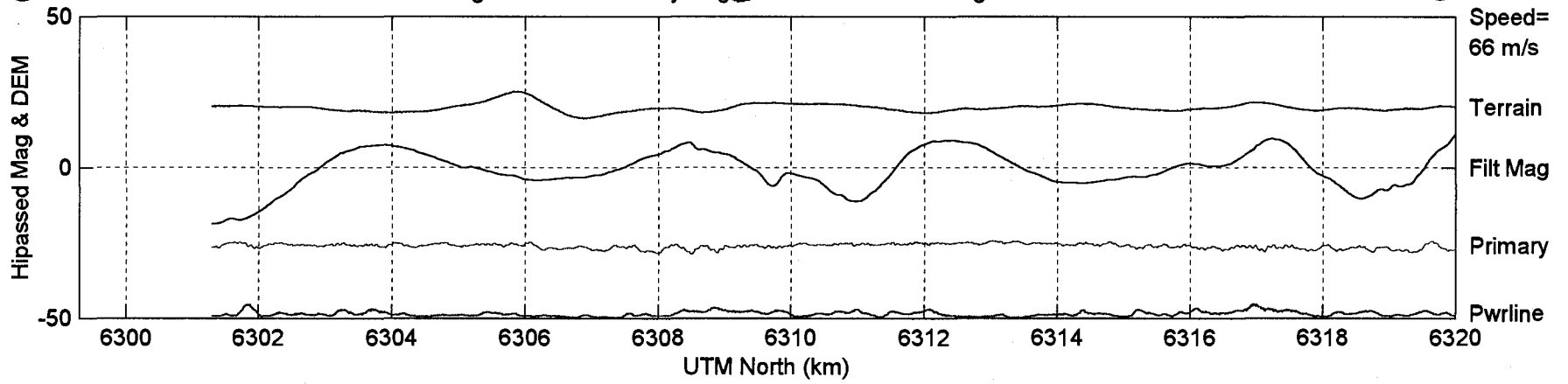


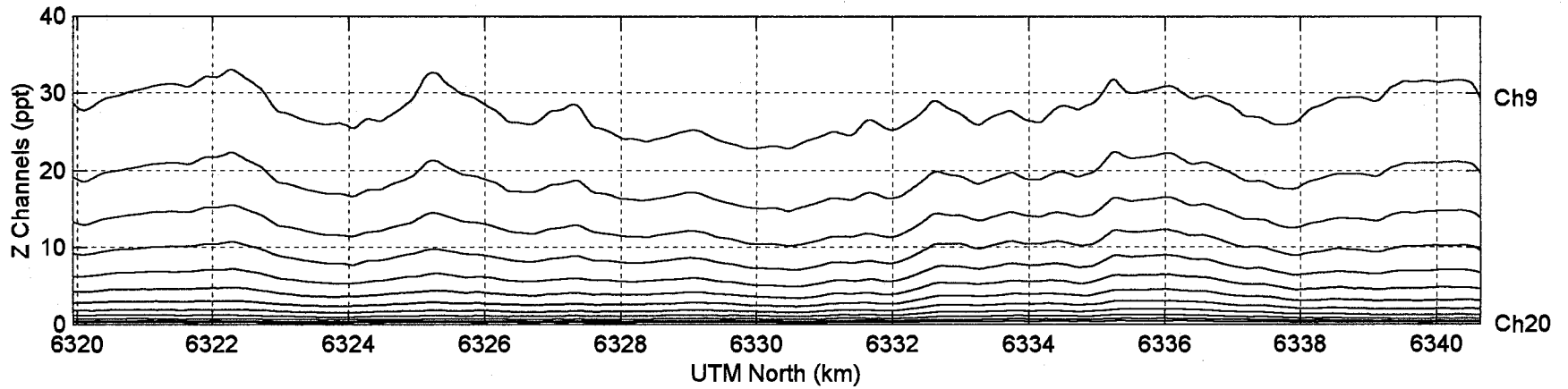
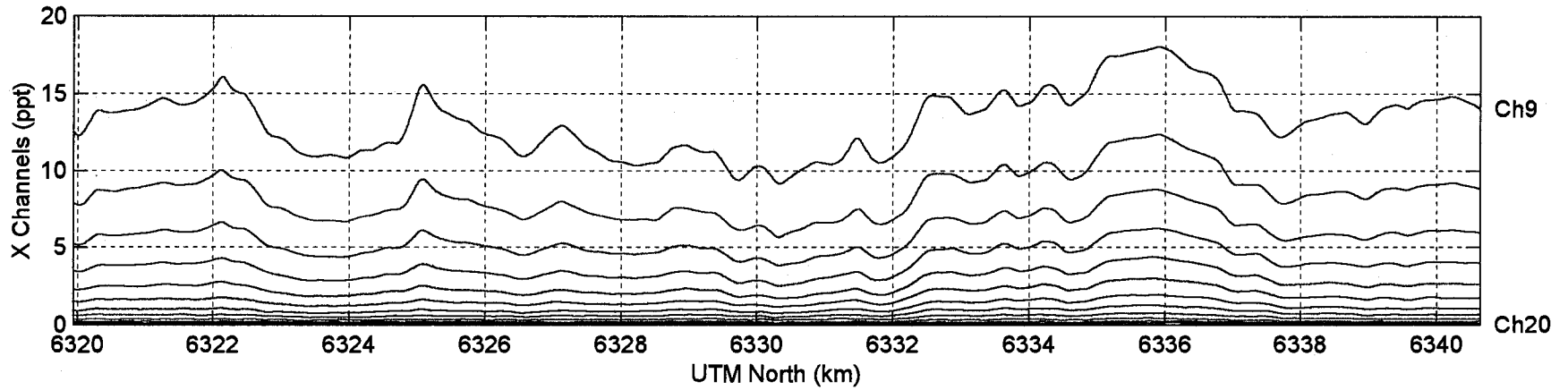
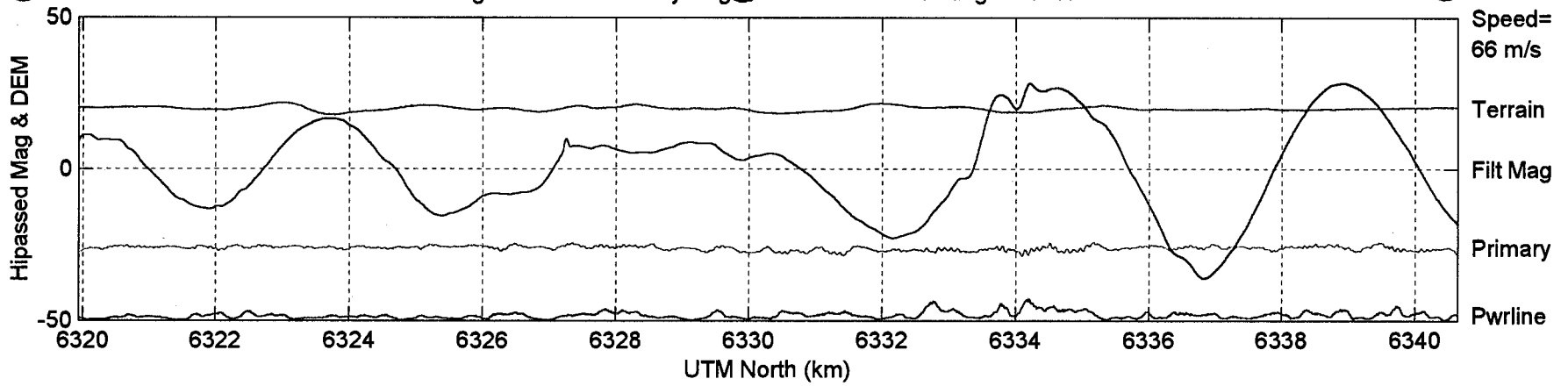


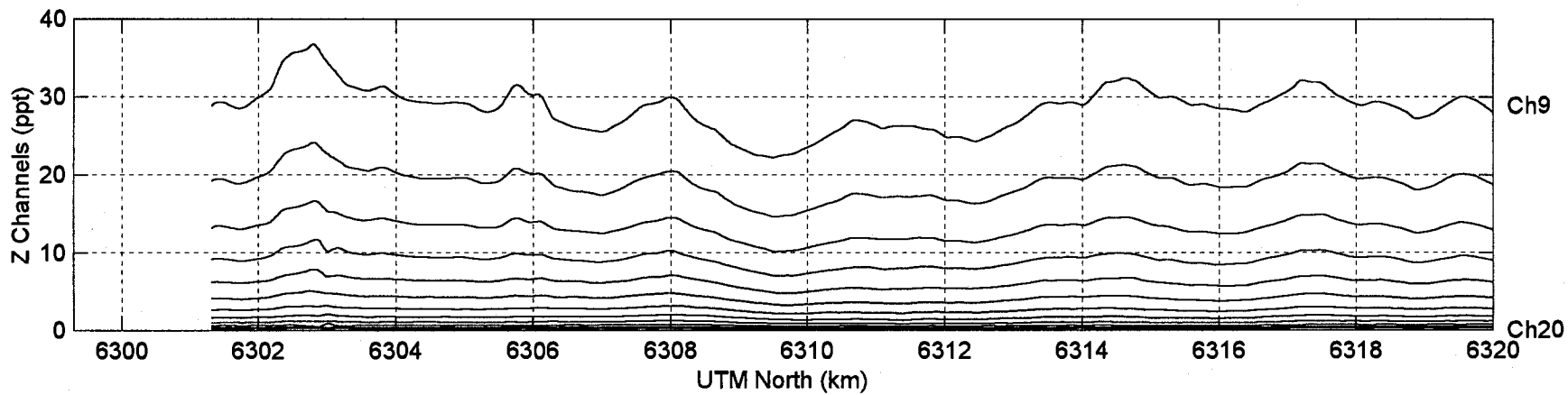
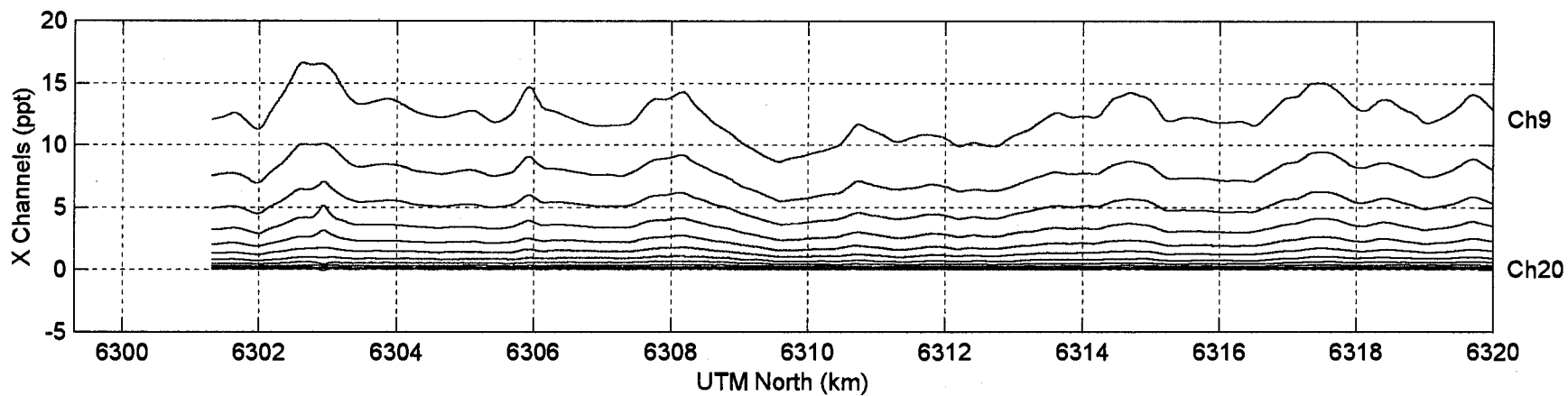
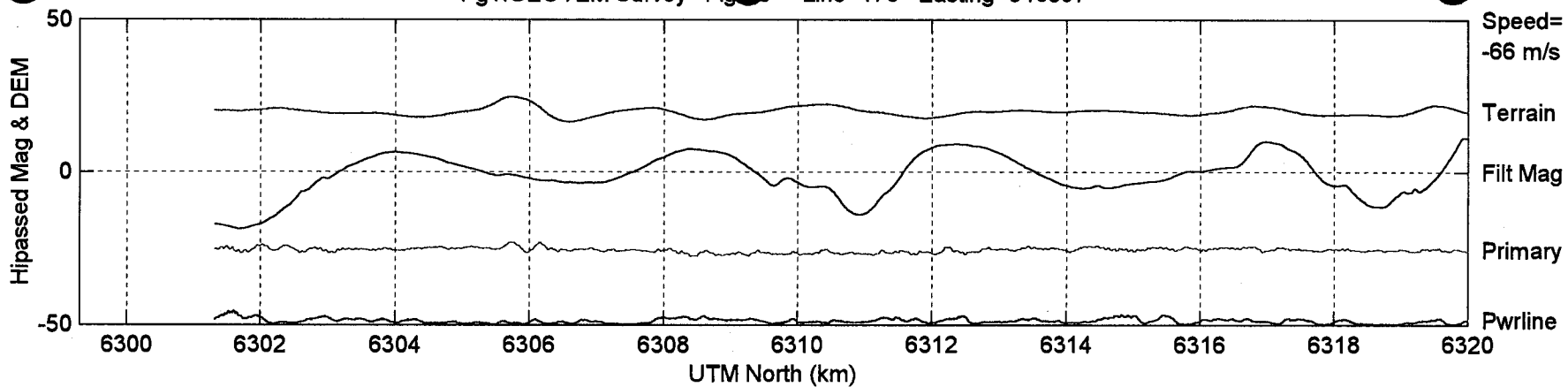
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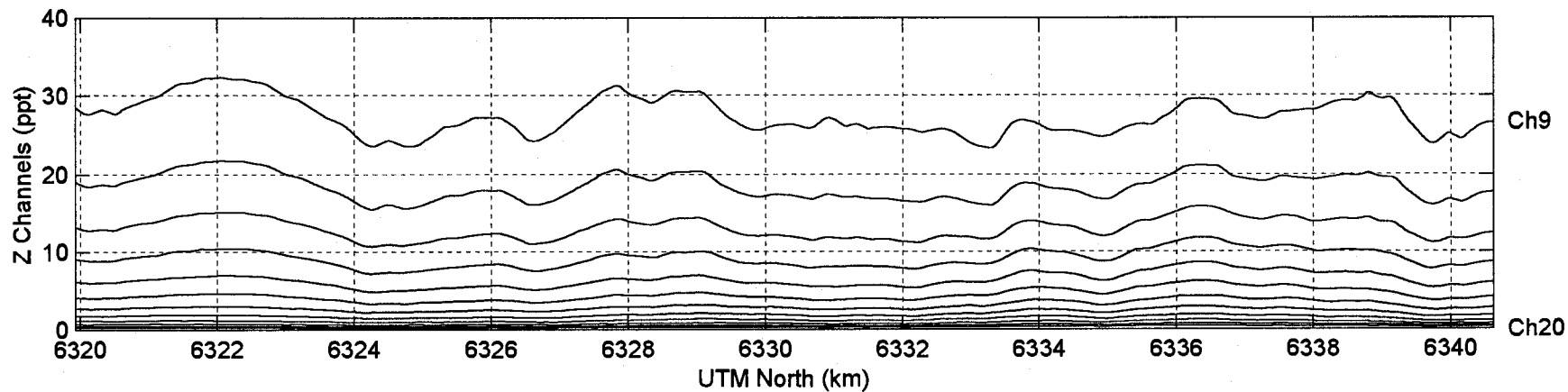
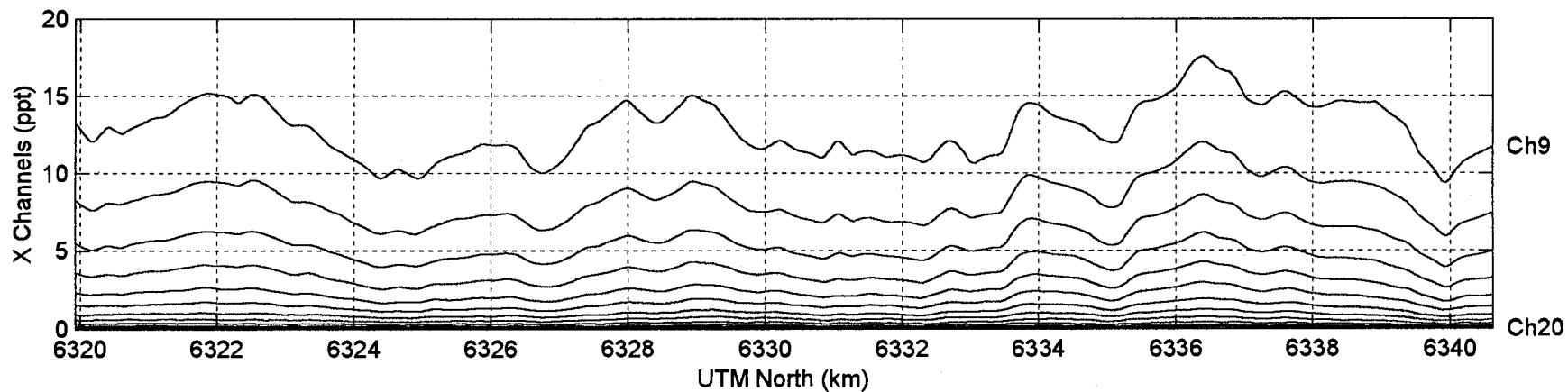
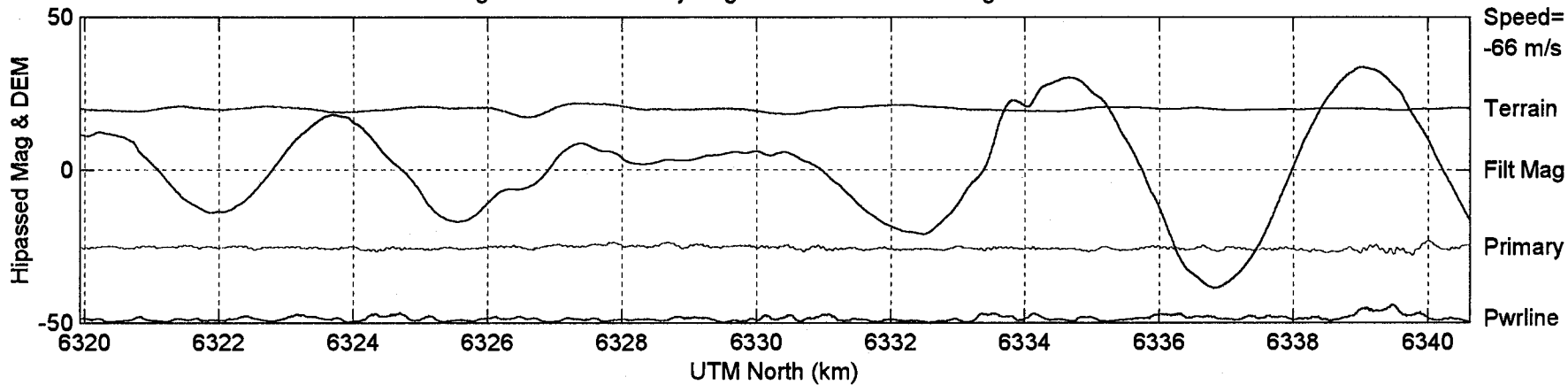


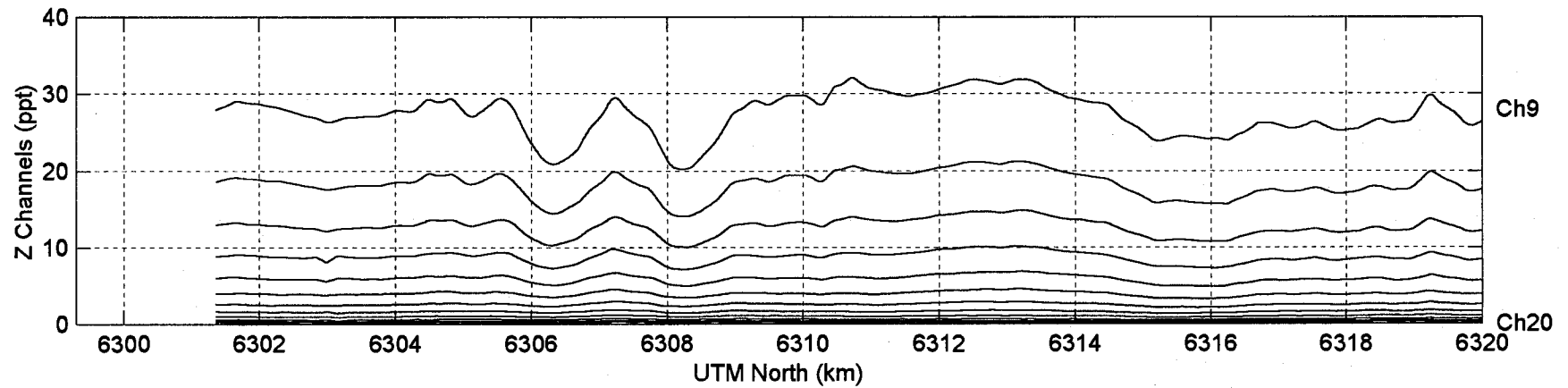
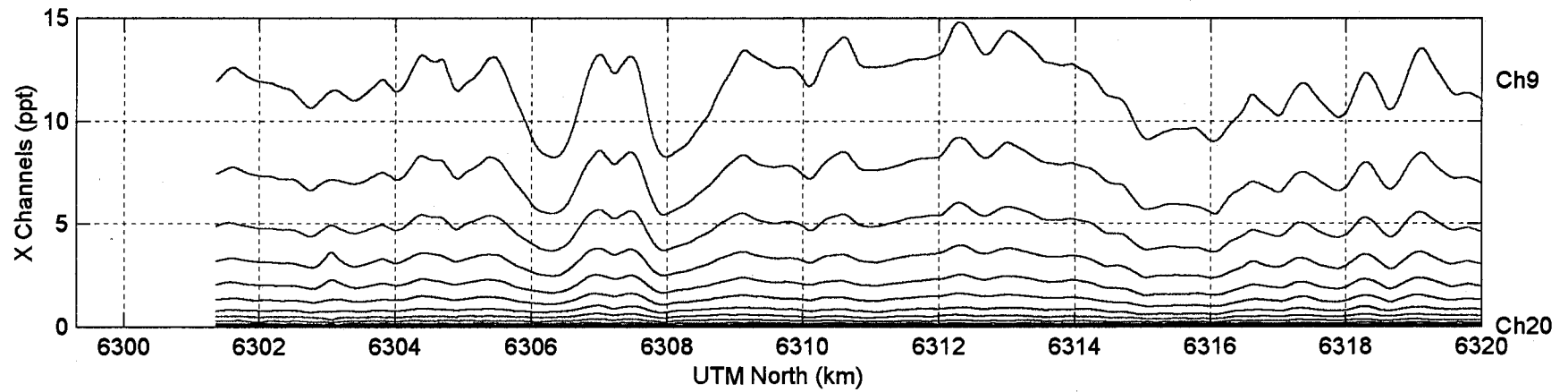
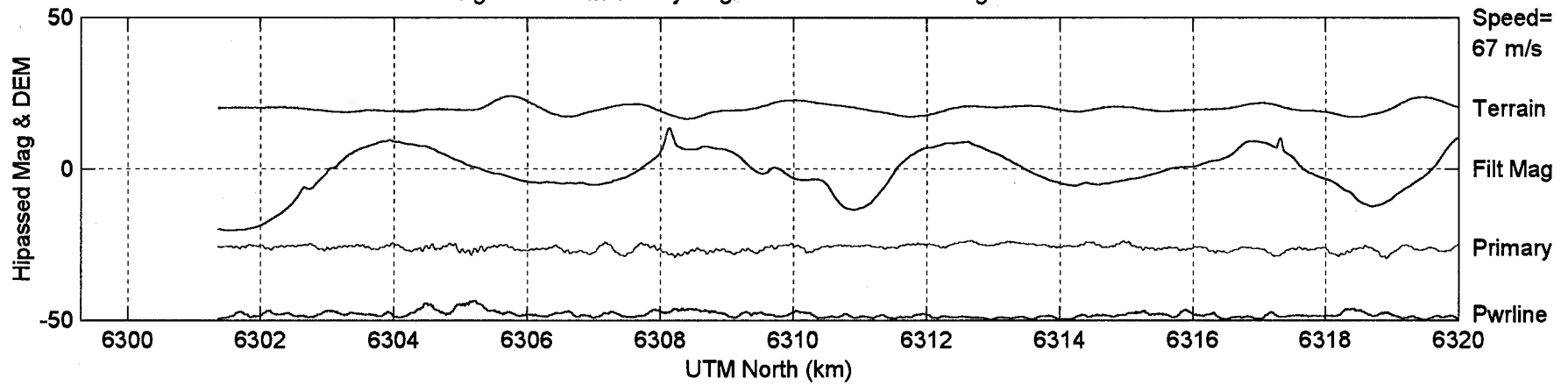


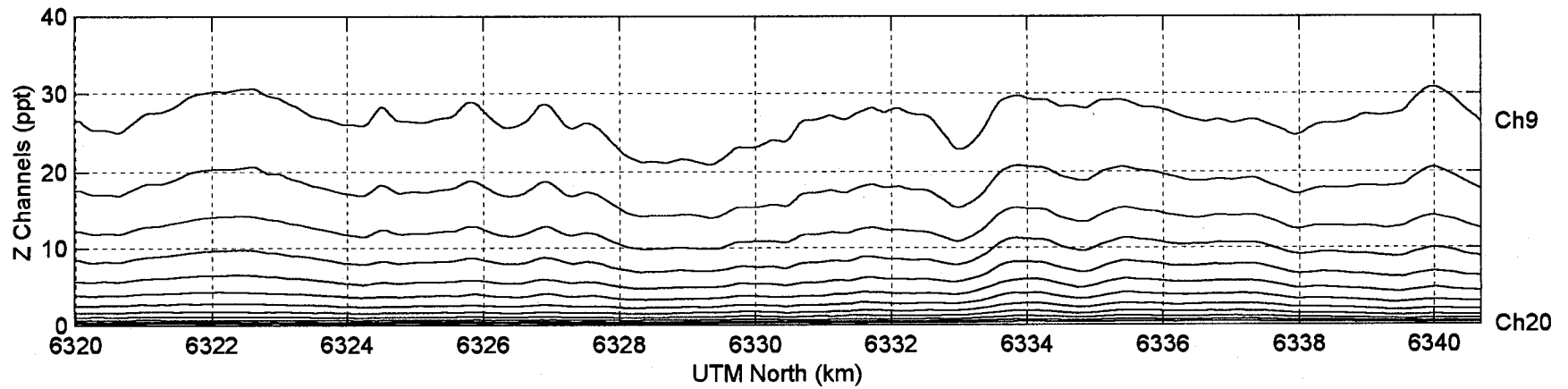
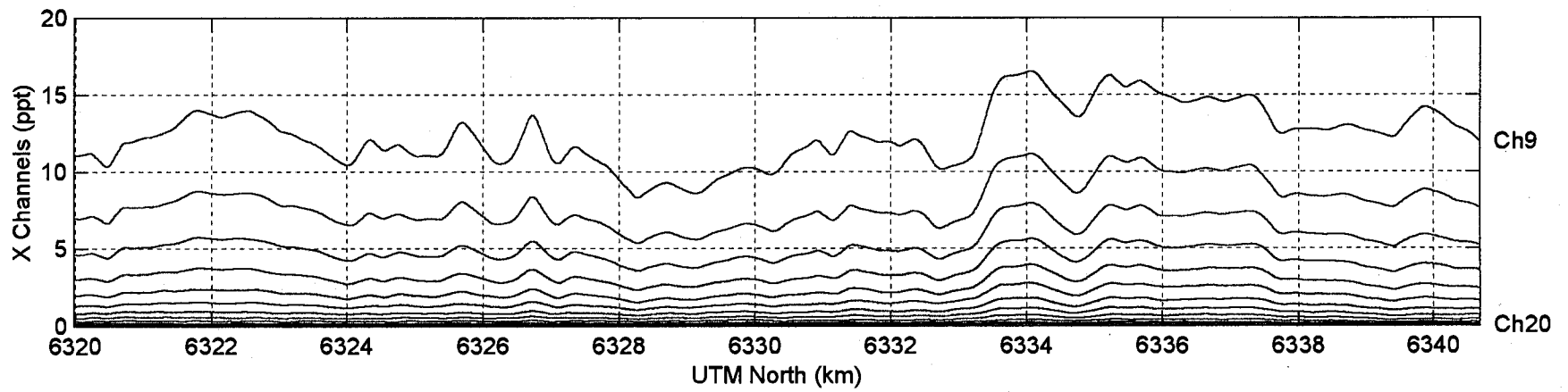
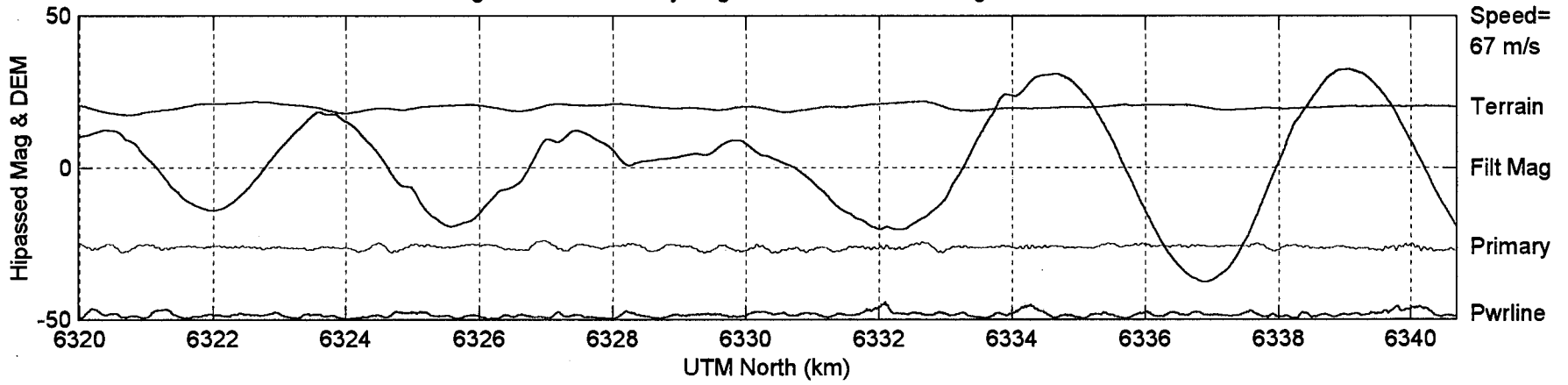




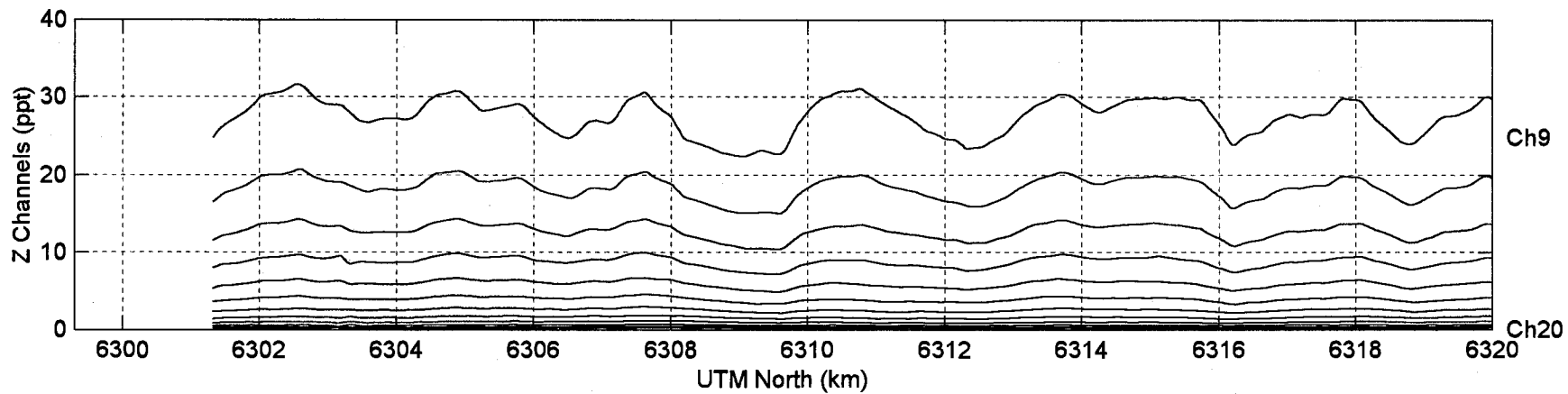
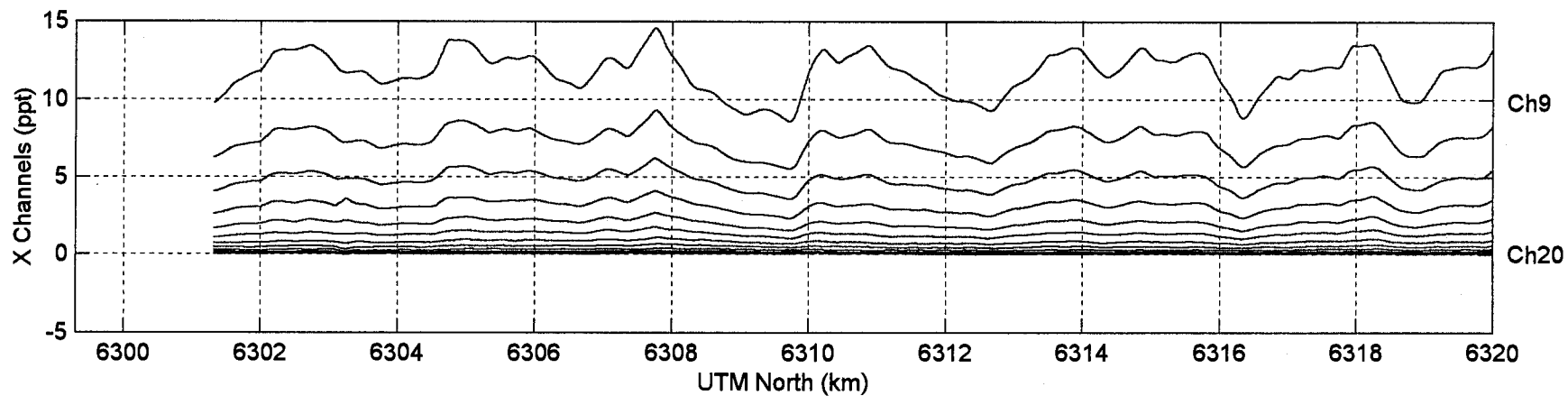
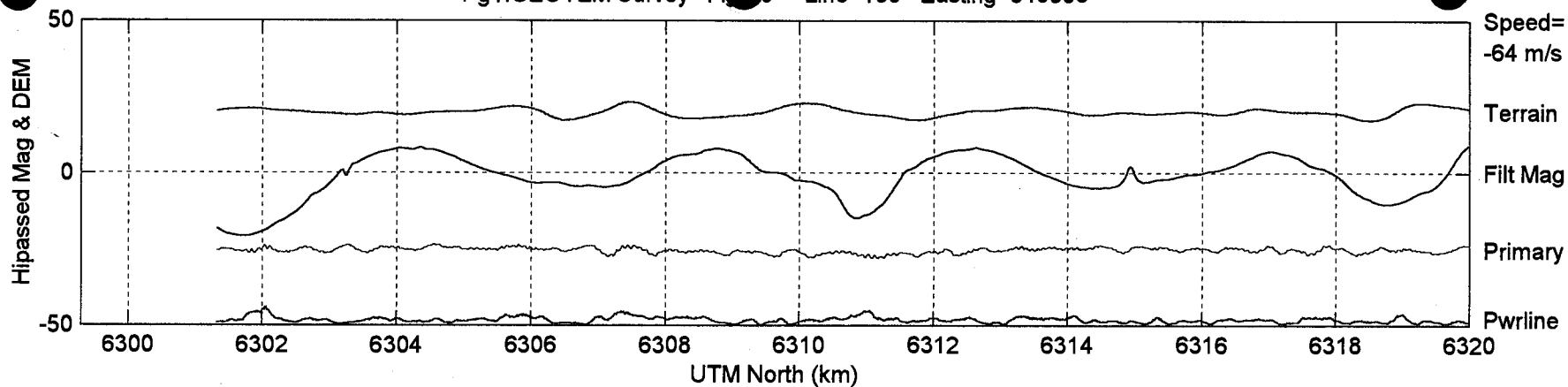


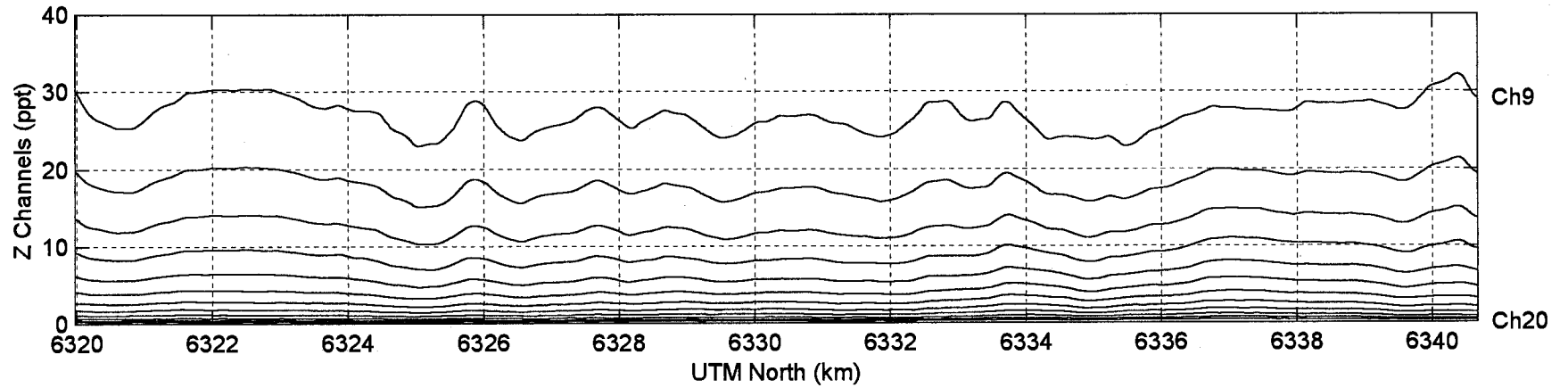
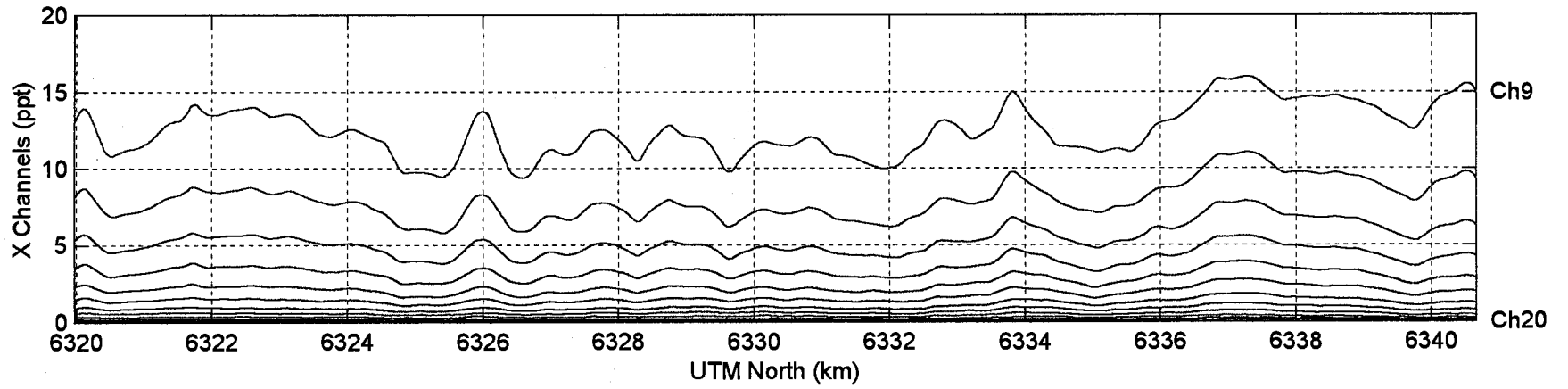
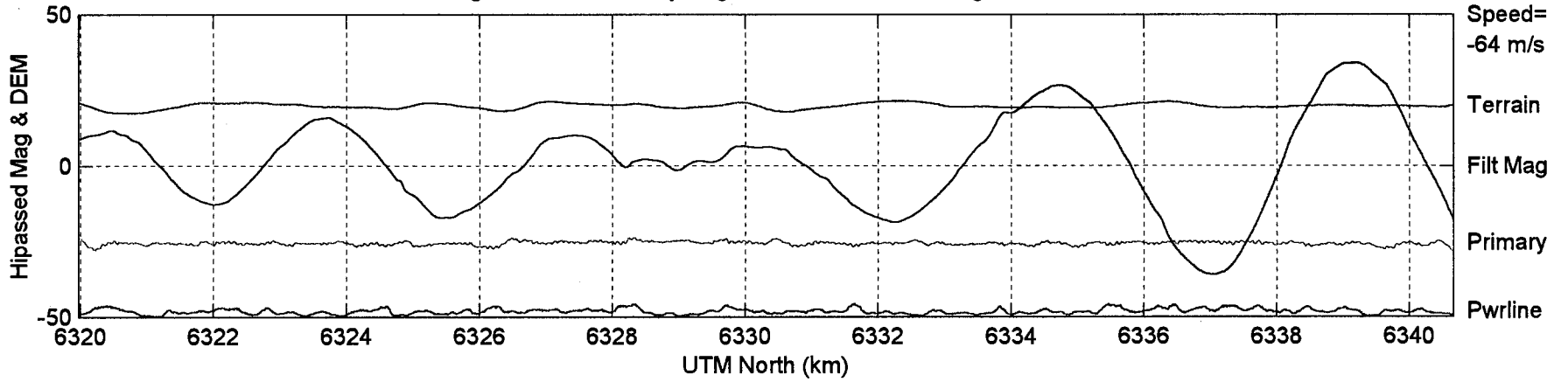




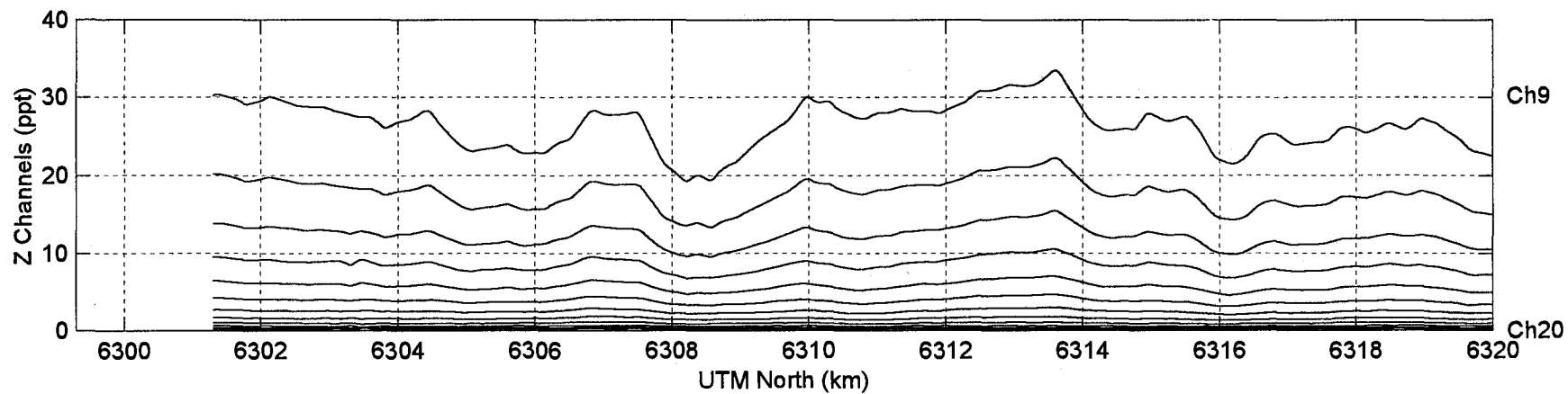
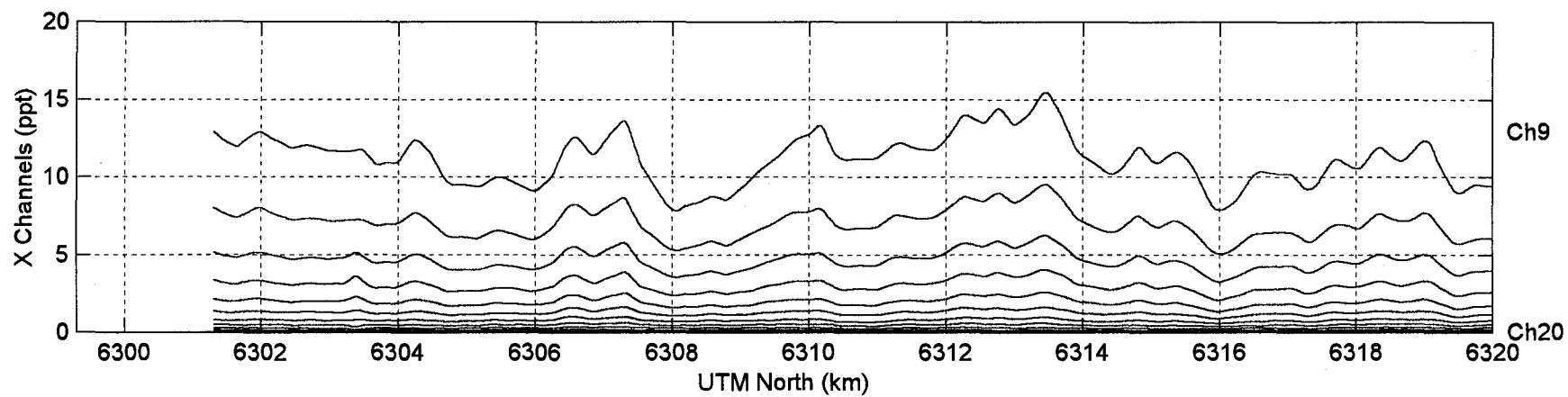
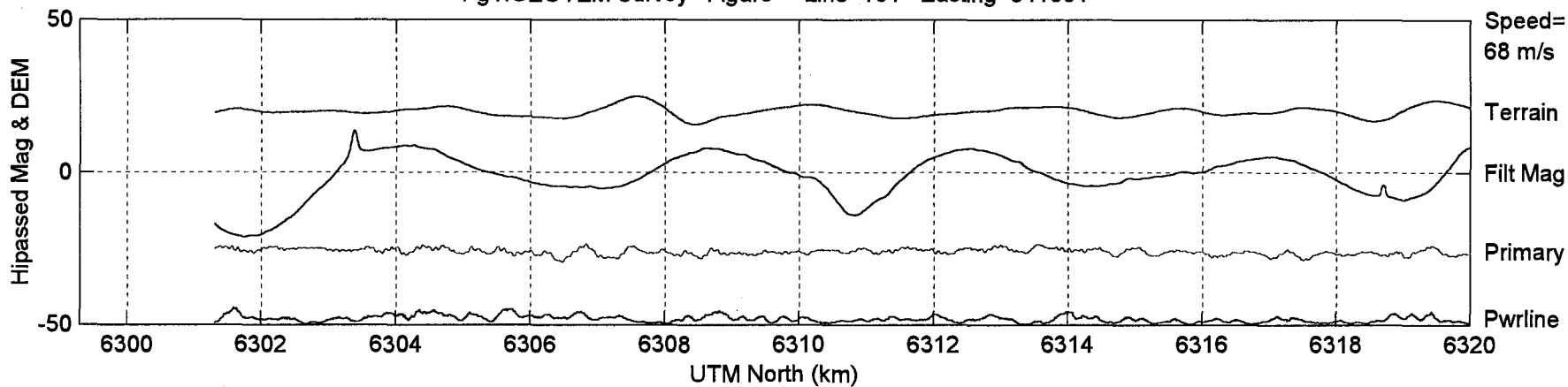


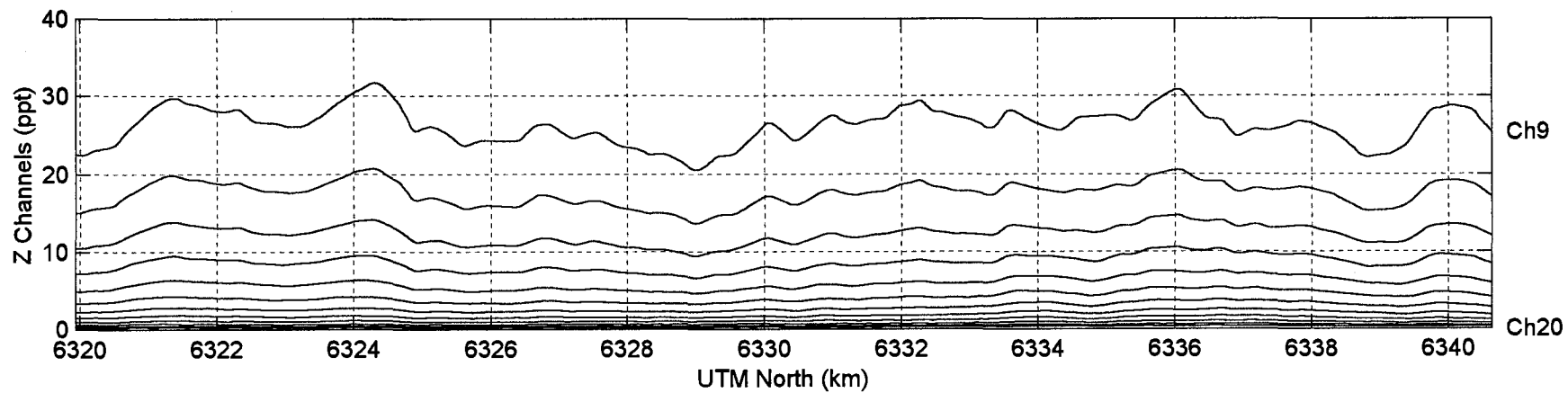
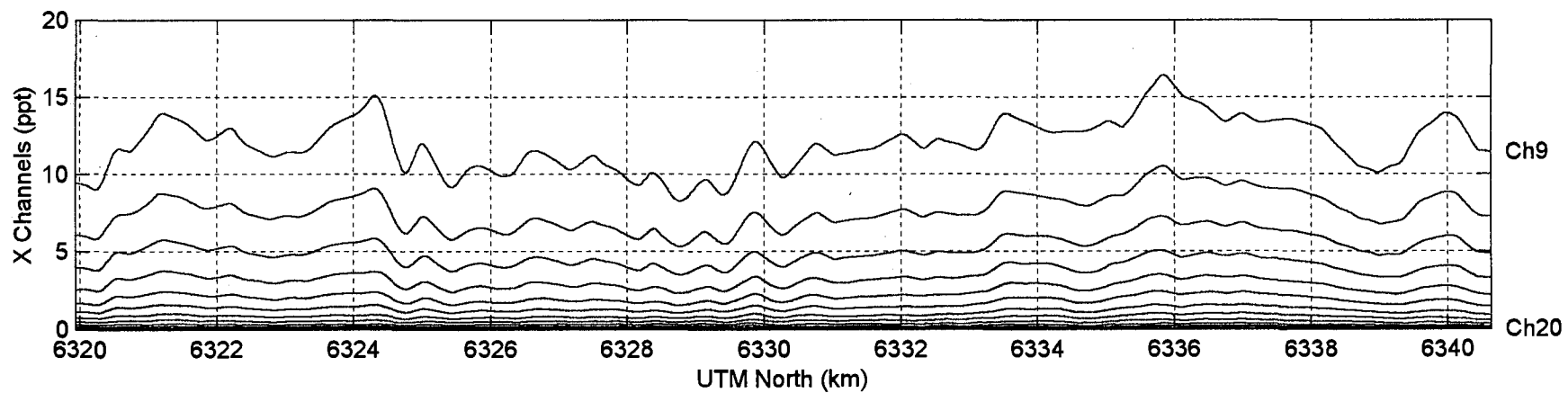
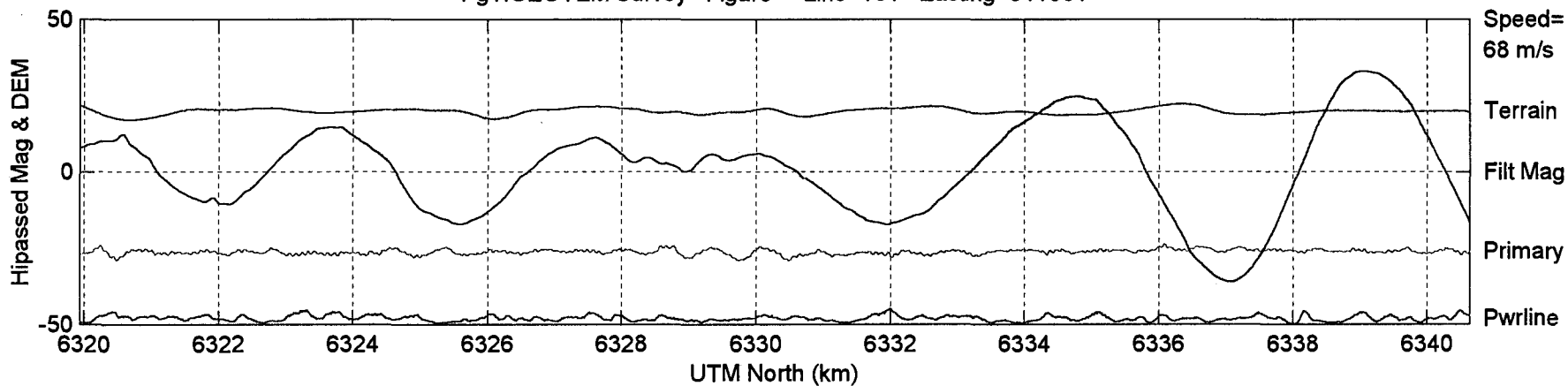
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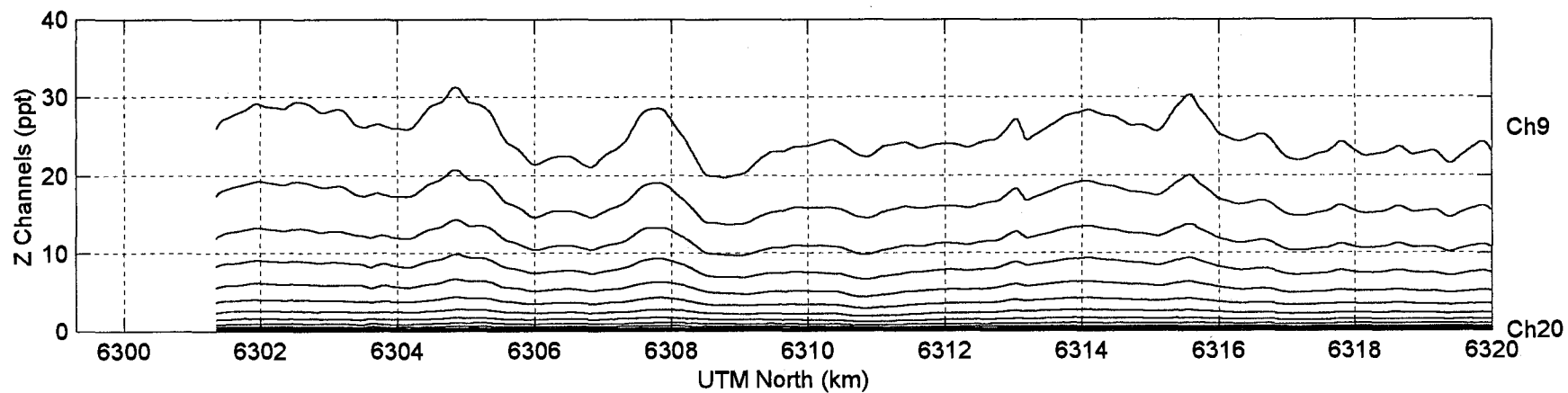
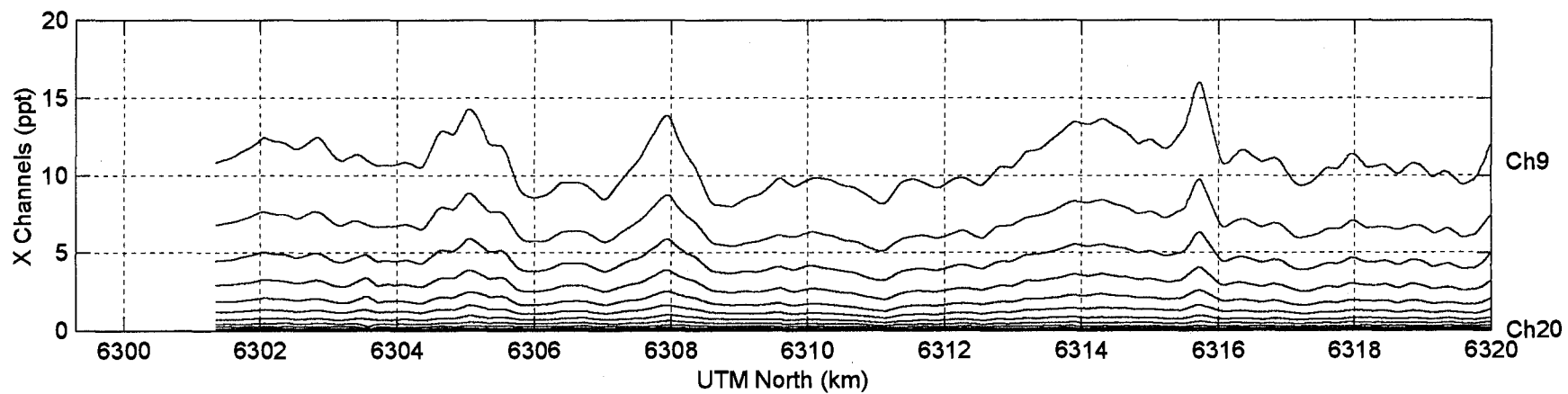
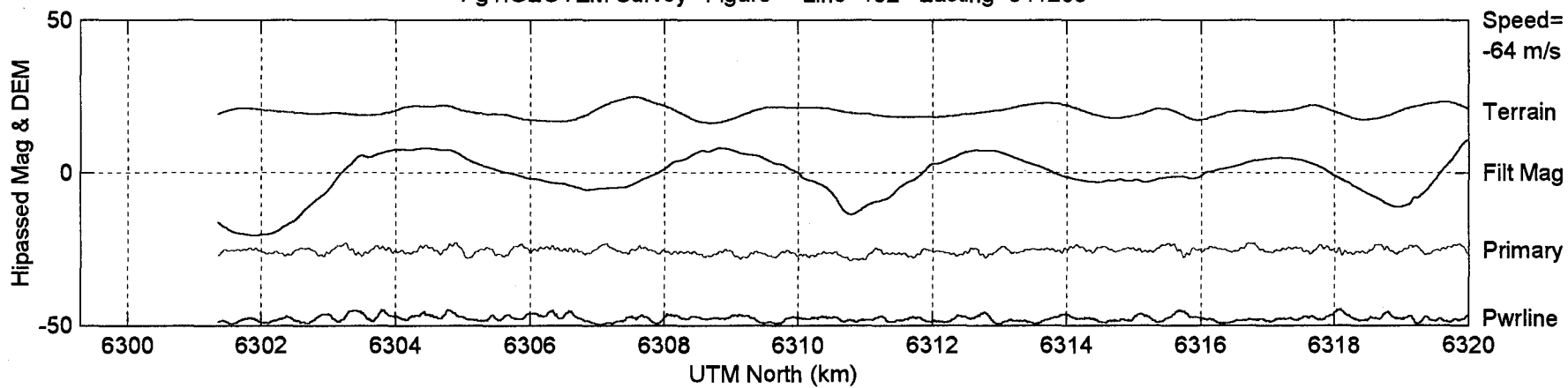


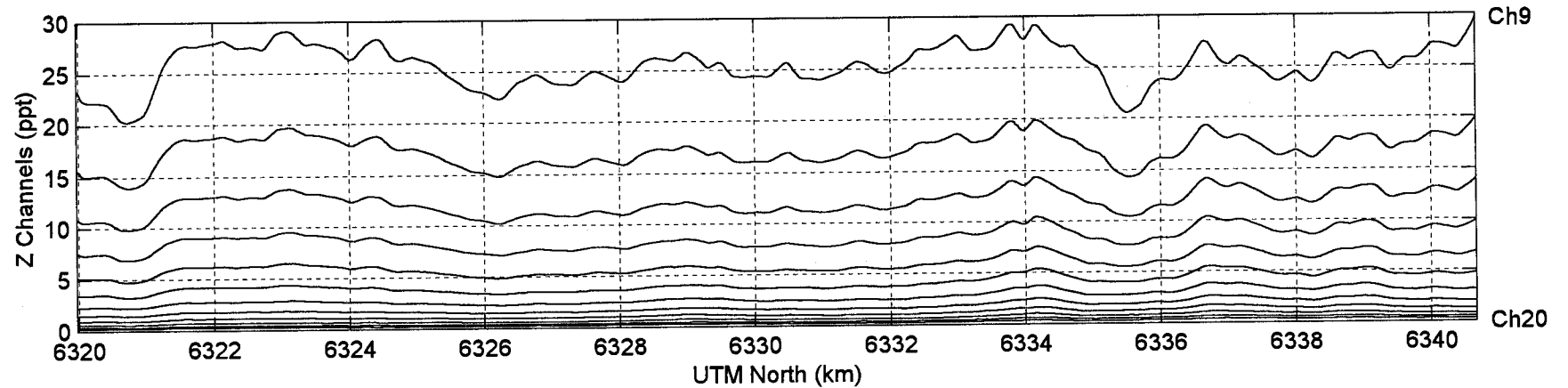
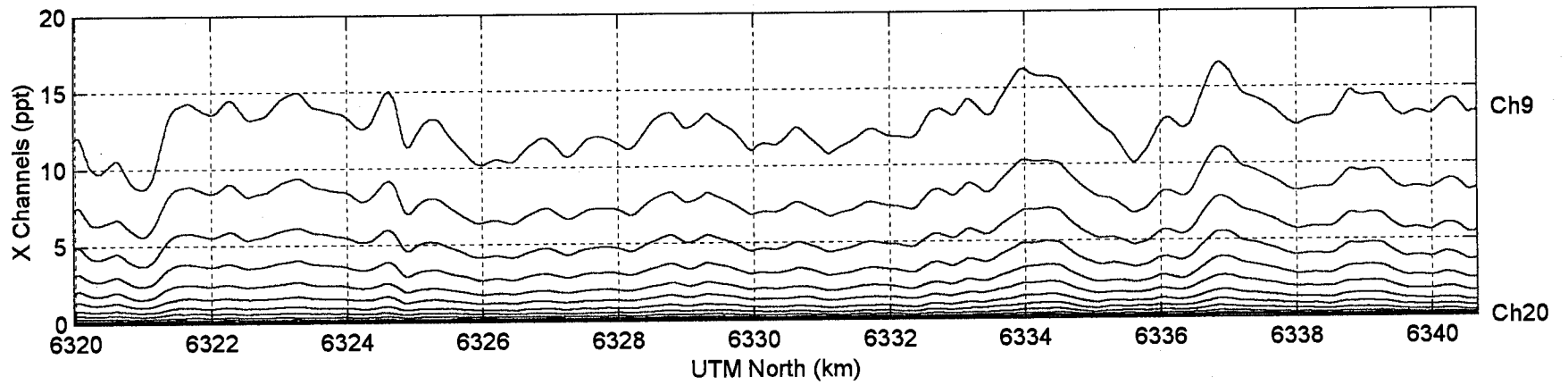
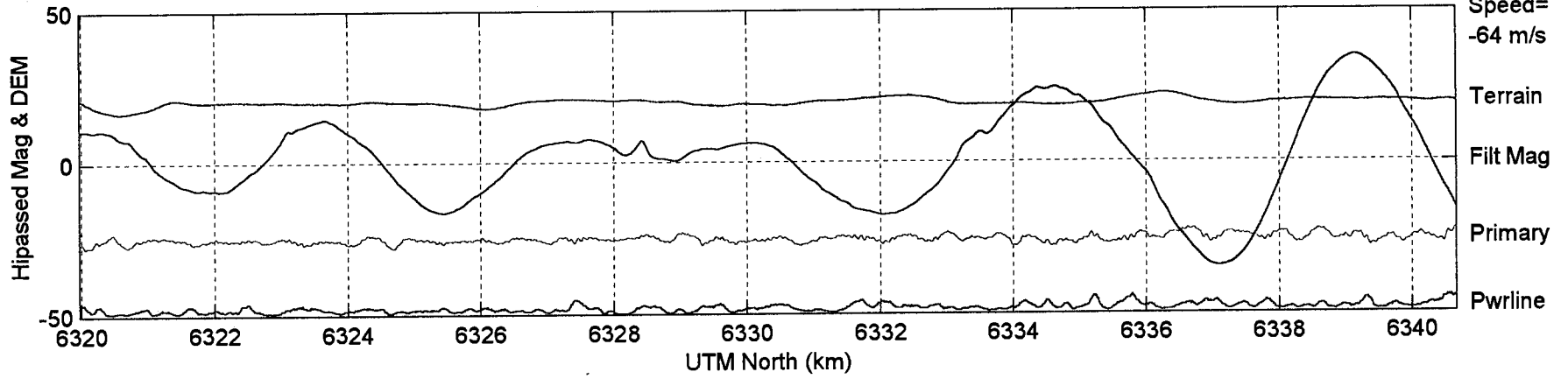


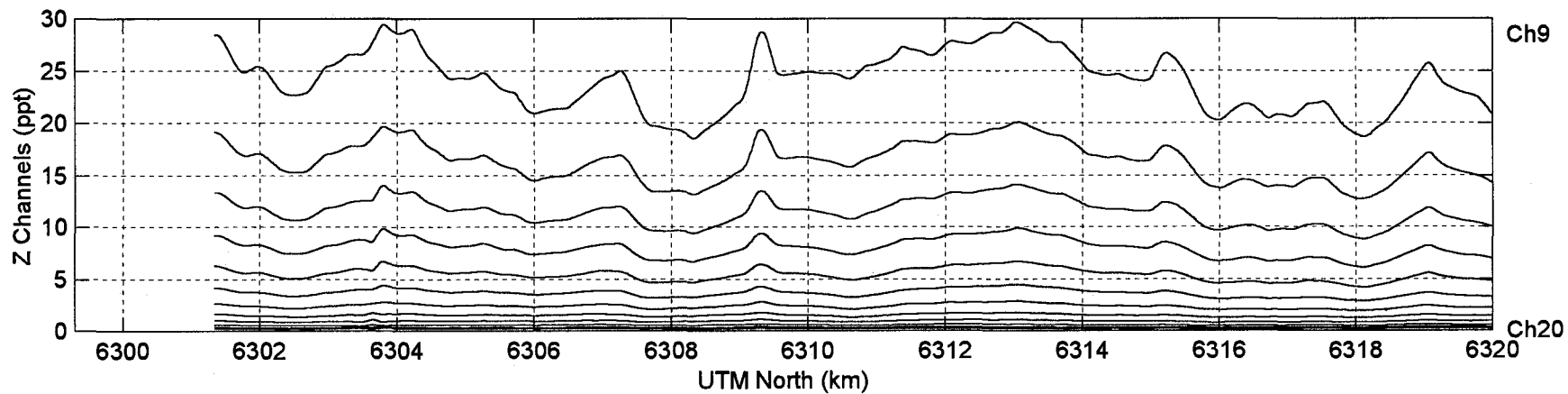
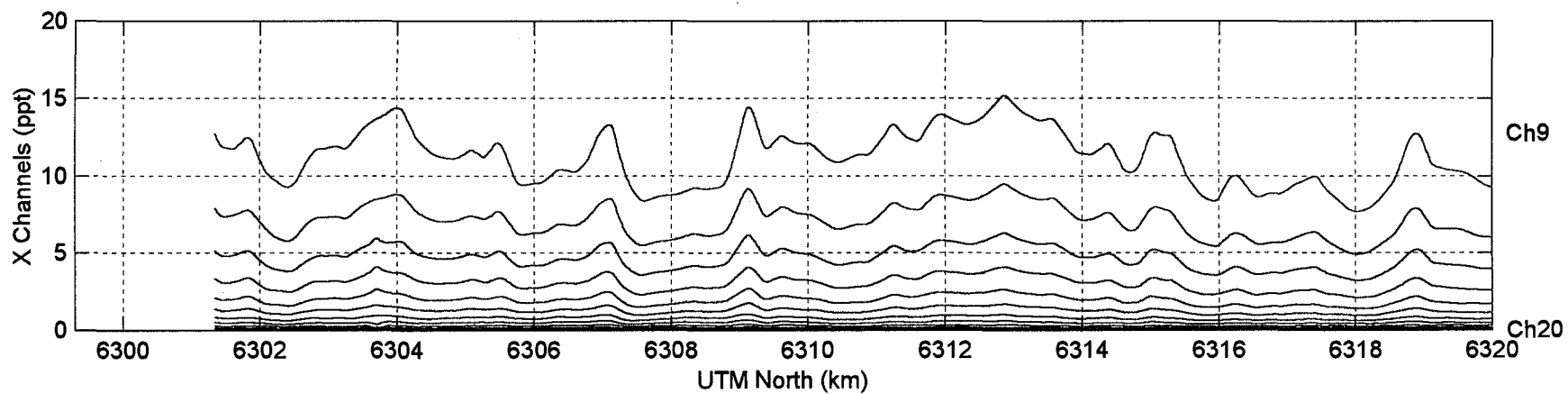
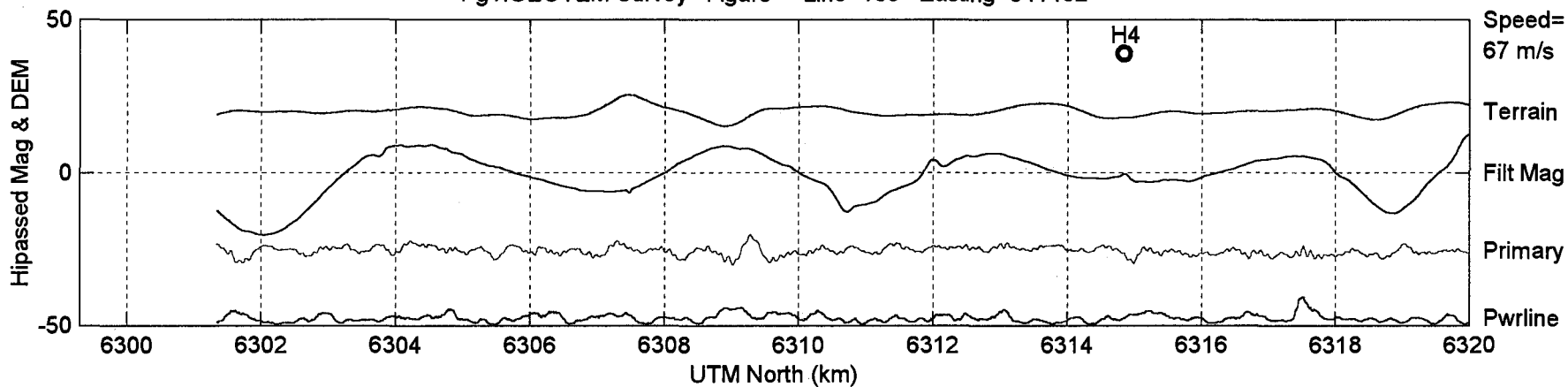
Pg1:GEOTEM Survey Figaro Line=181 Easting=541001

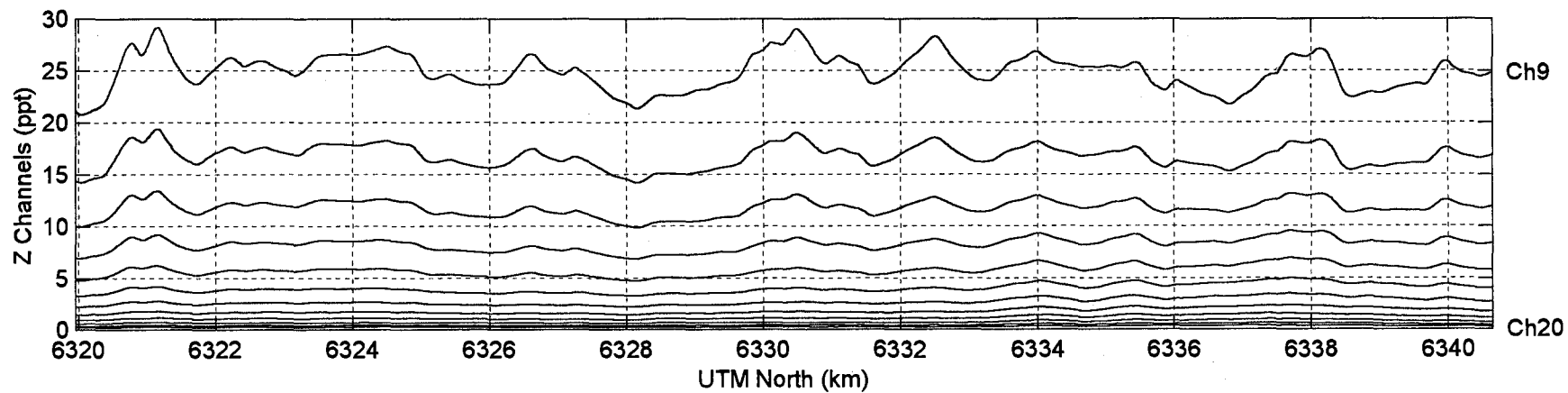
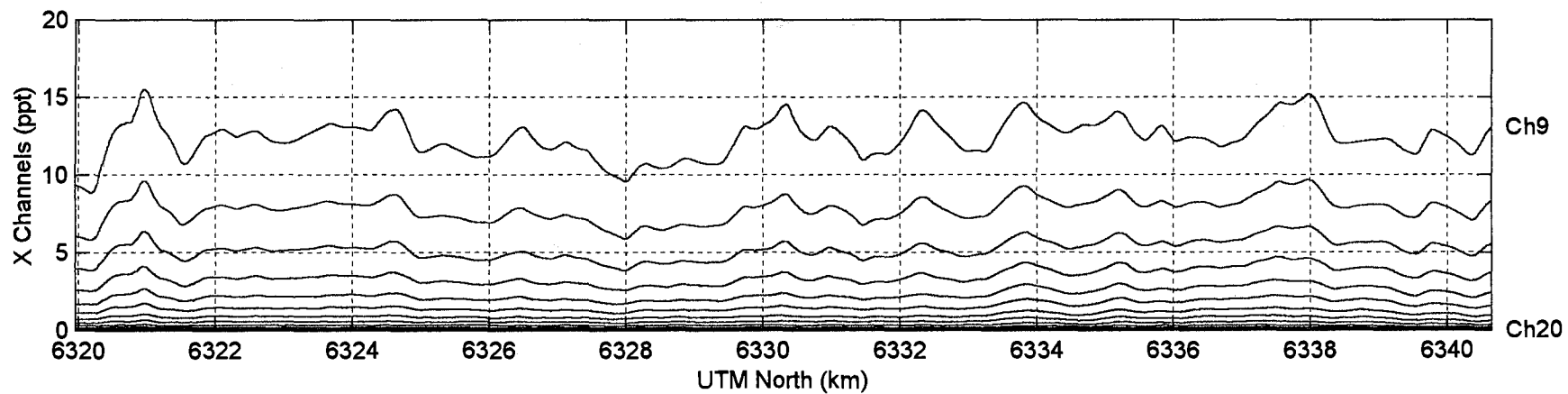
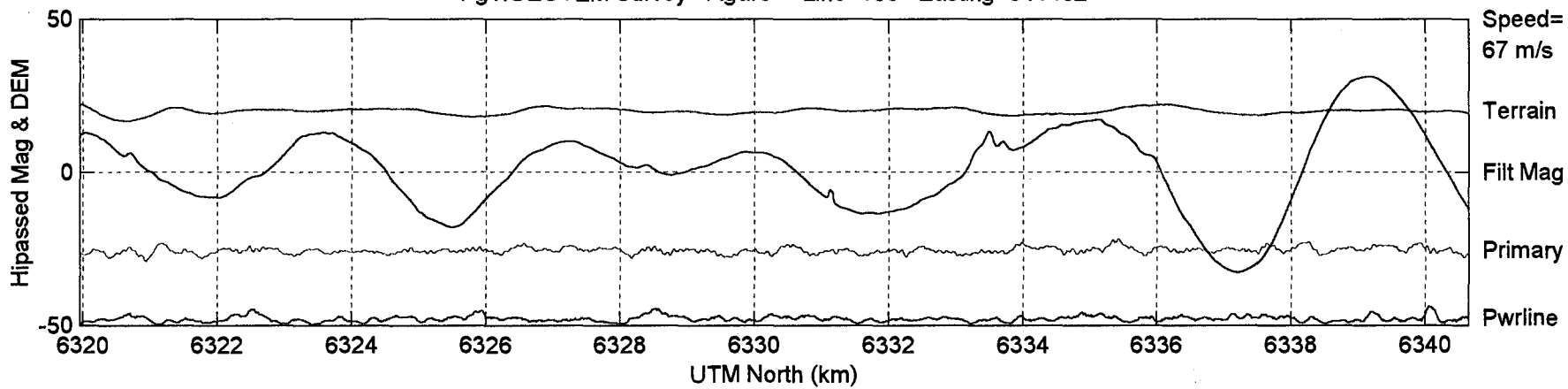


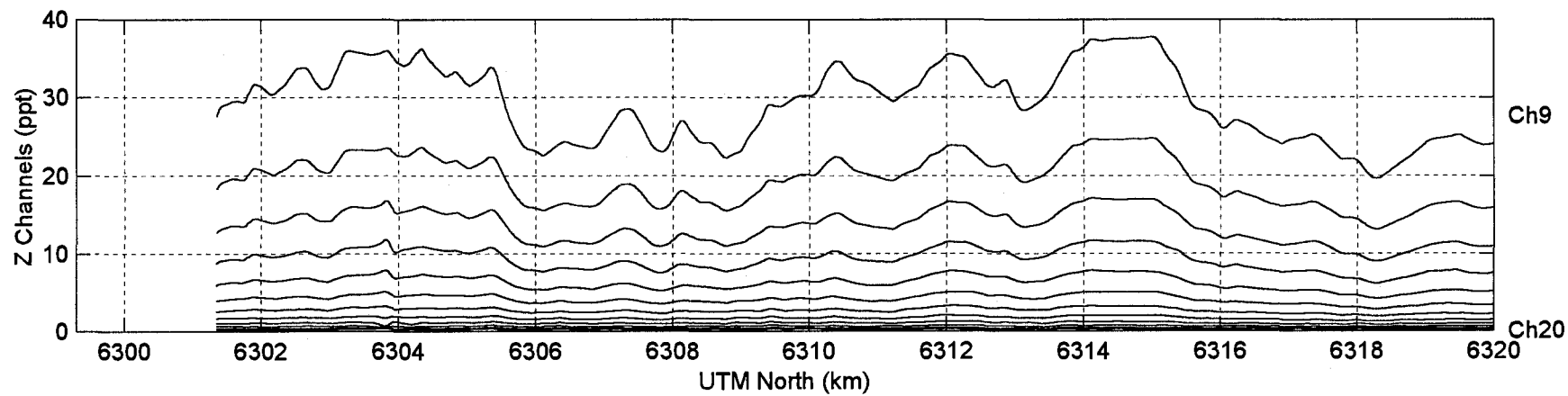
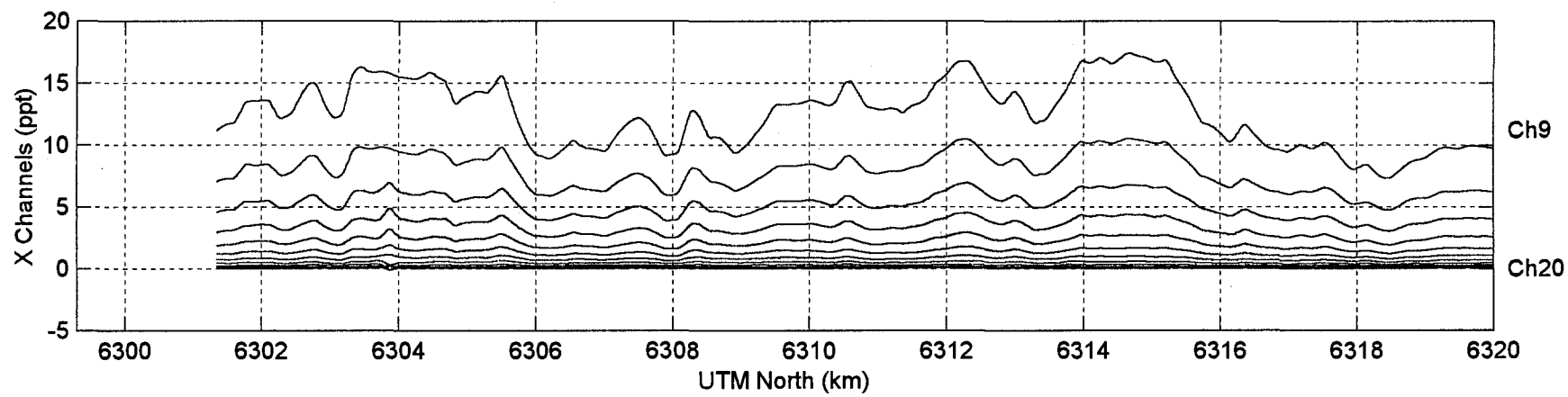
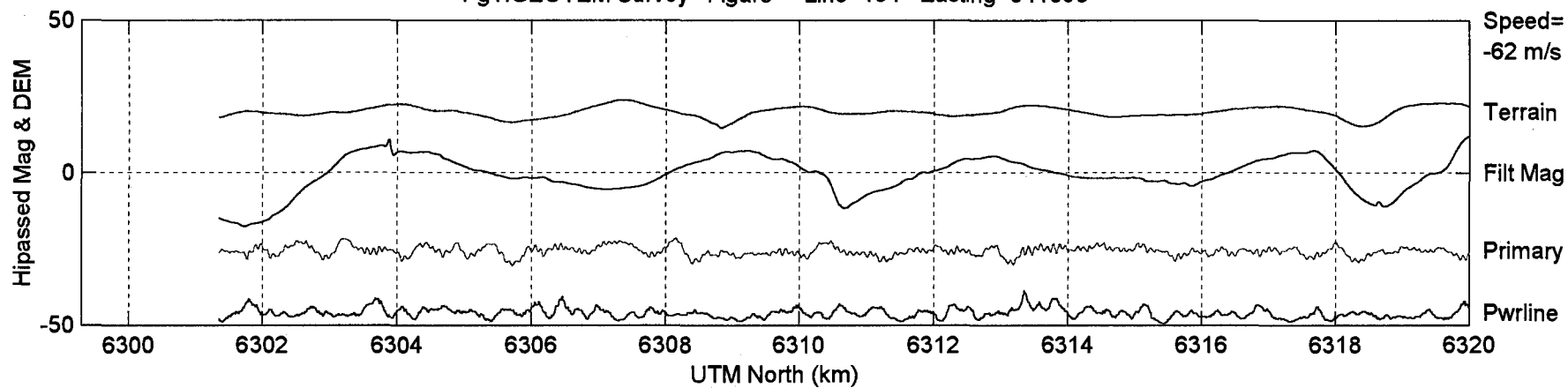




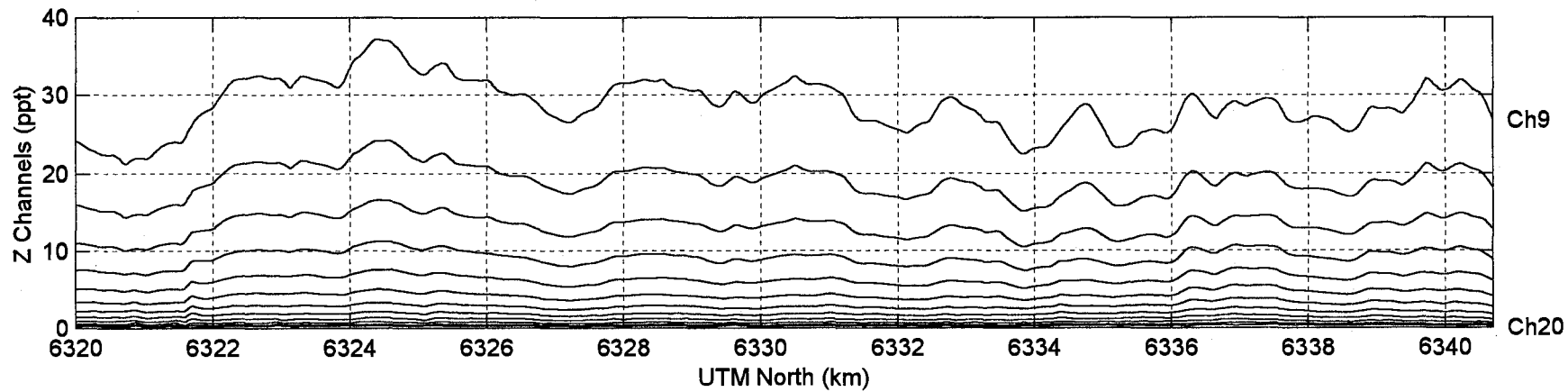
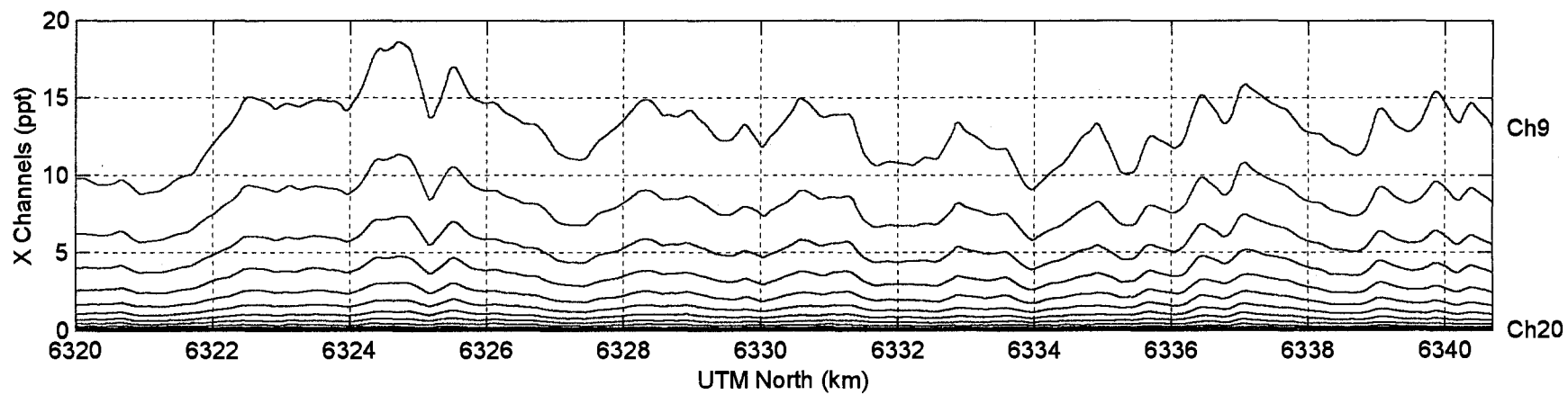
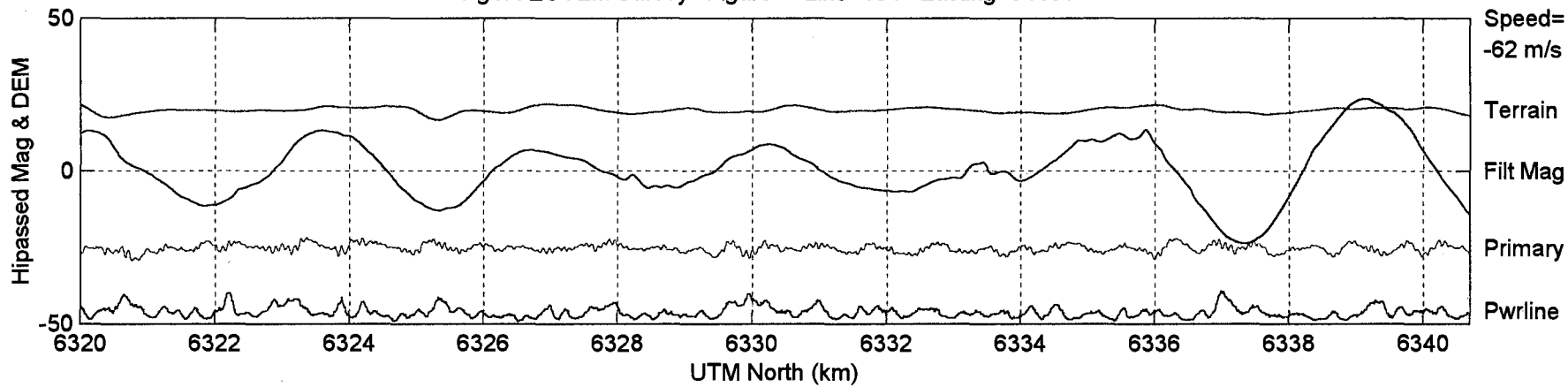


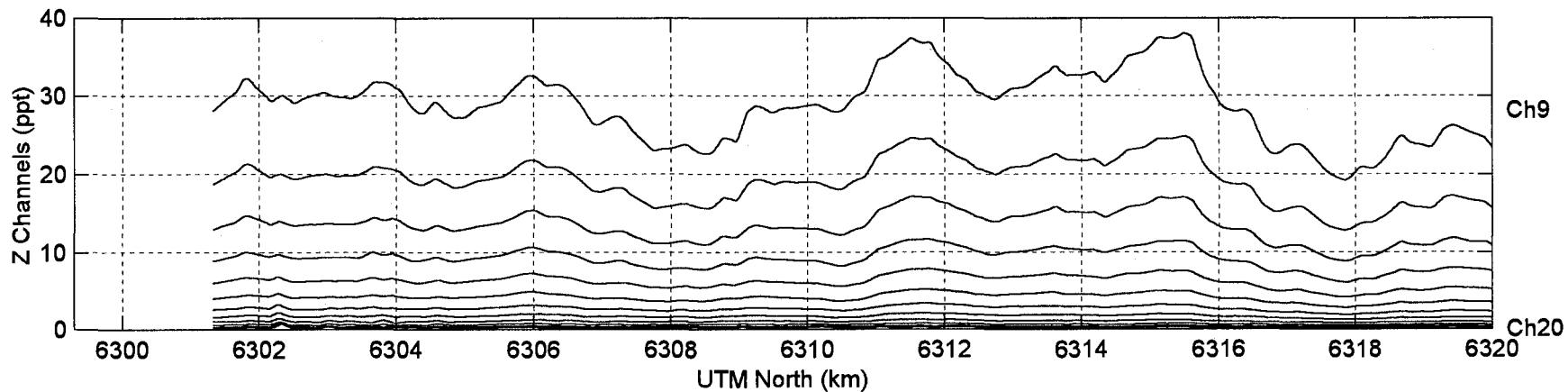
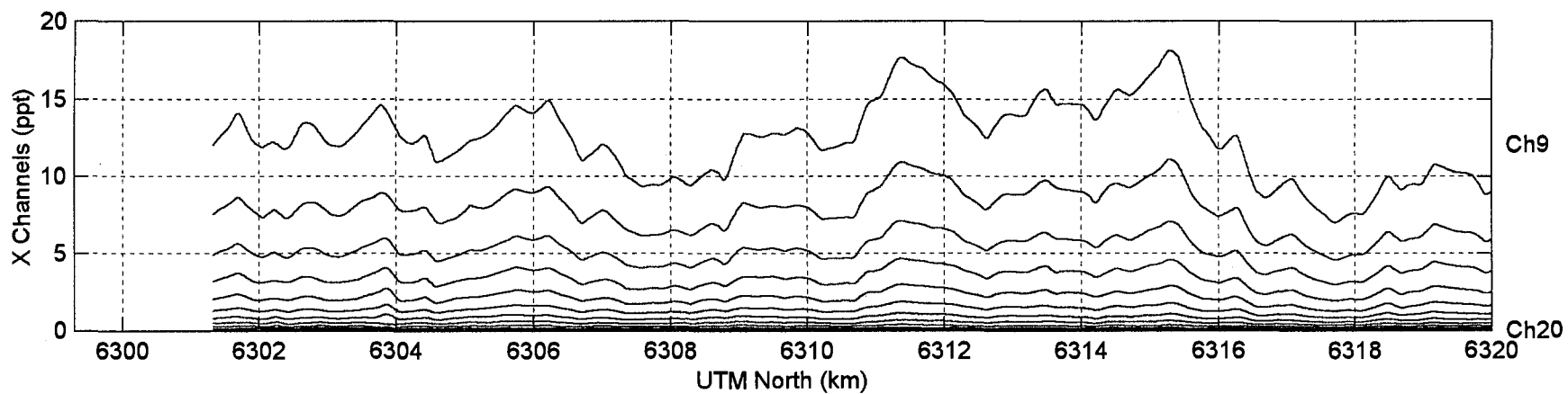
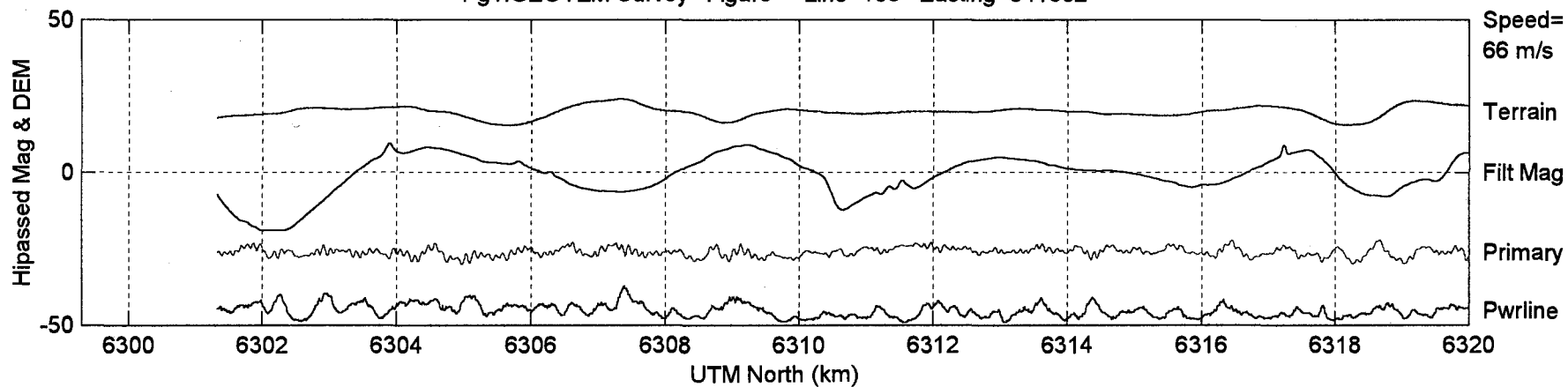


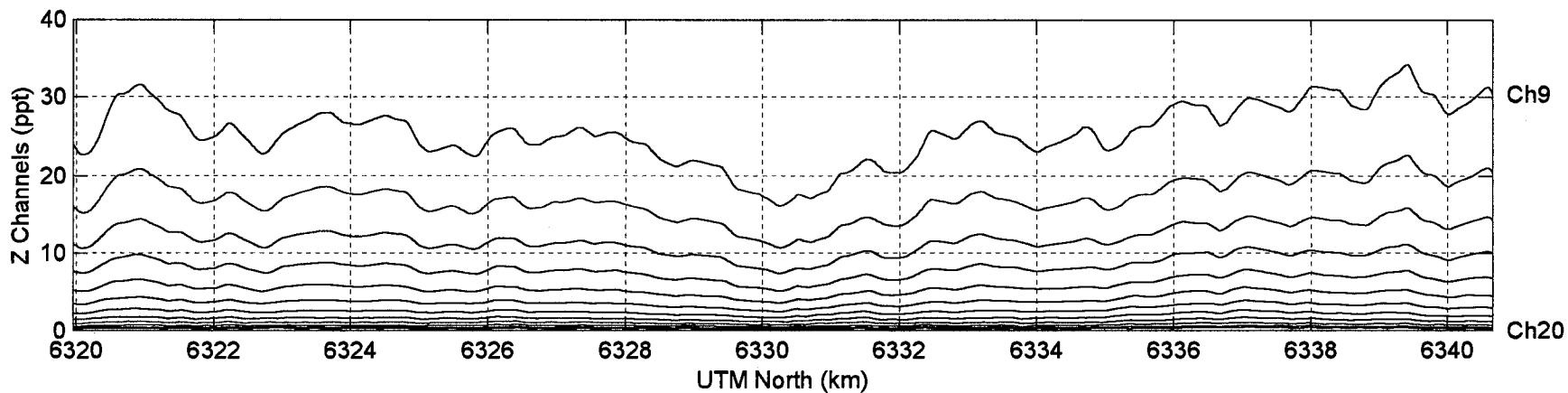
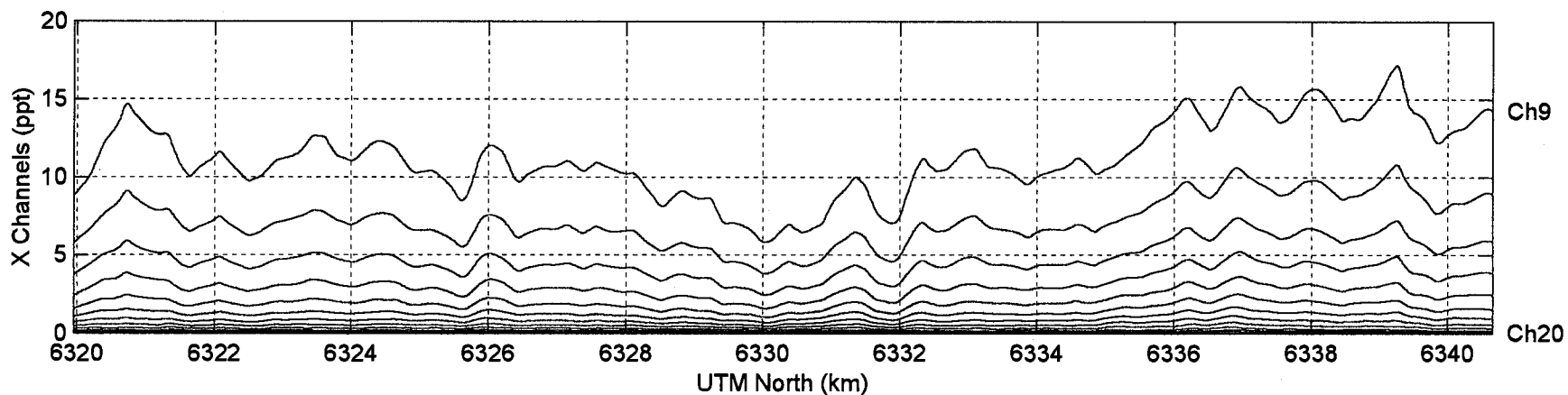
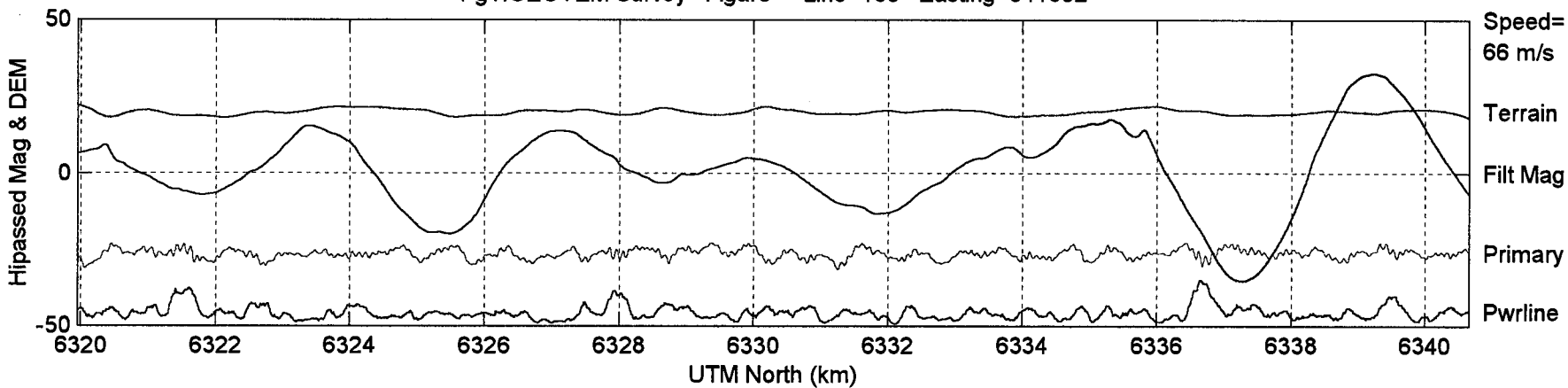


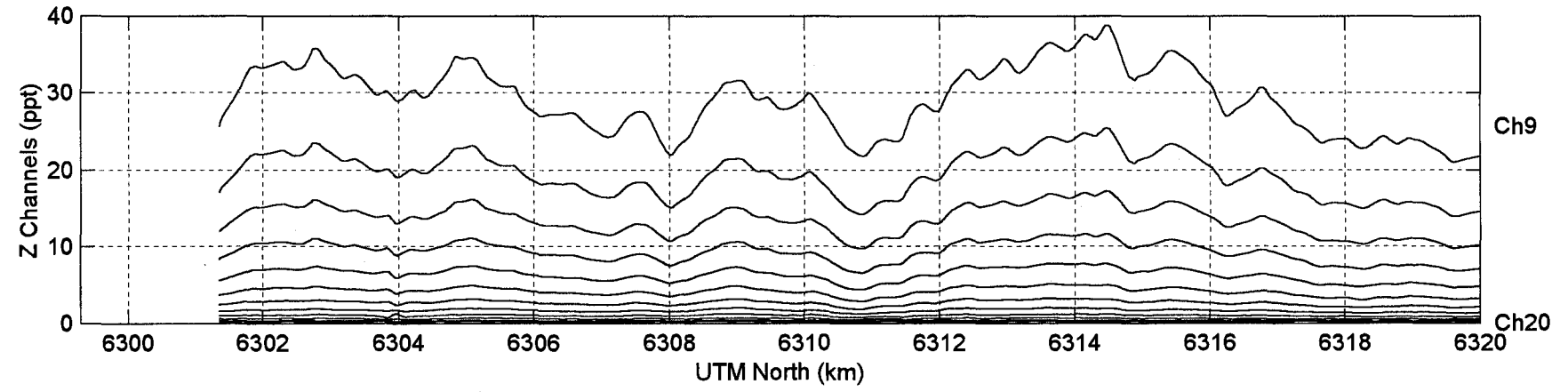
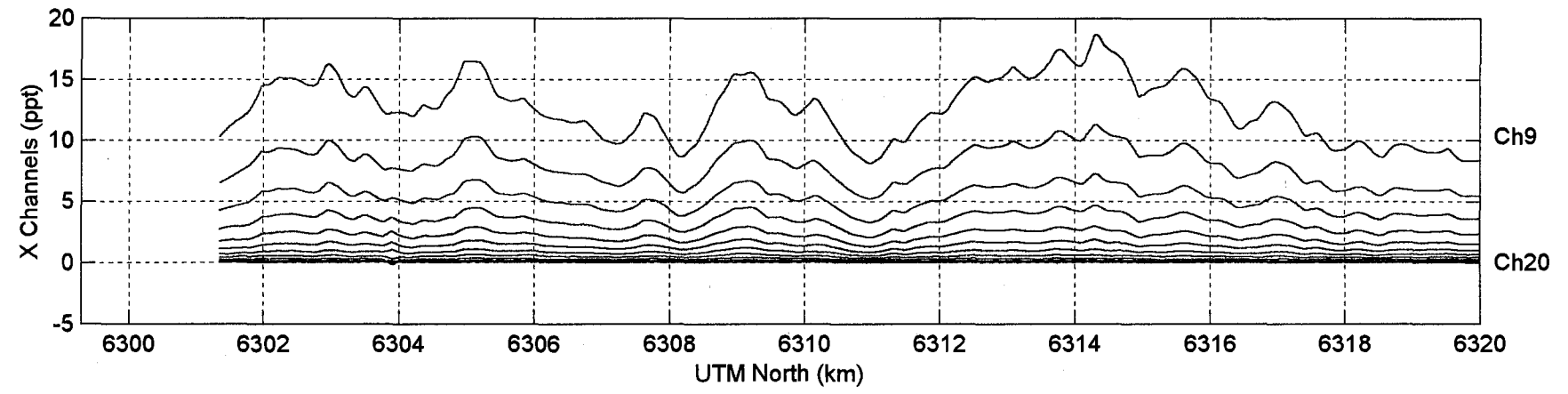
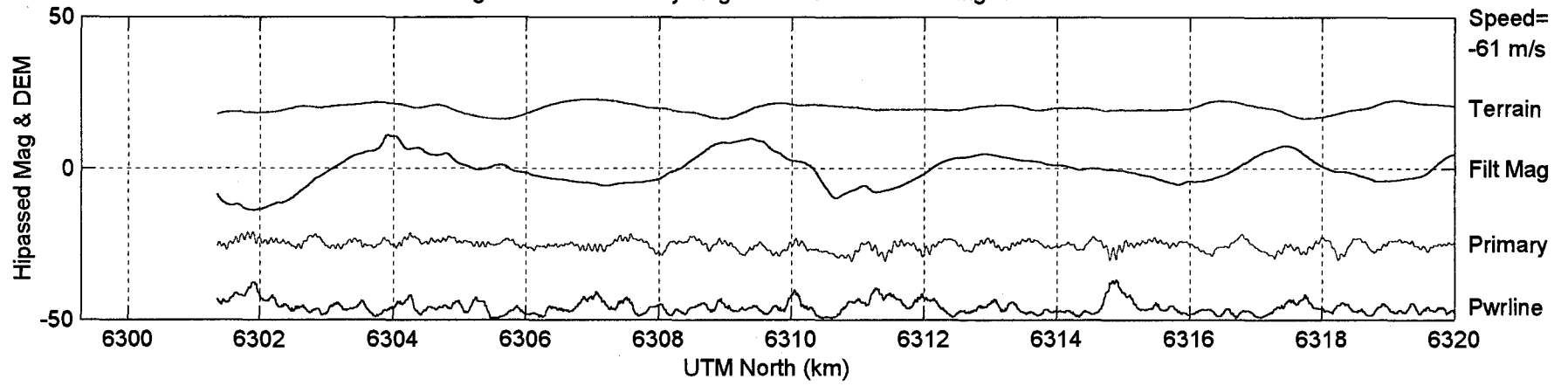


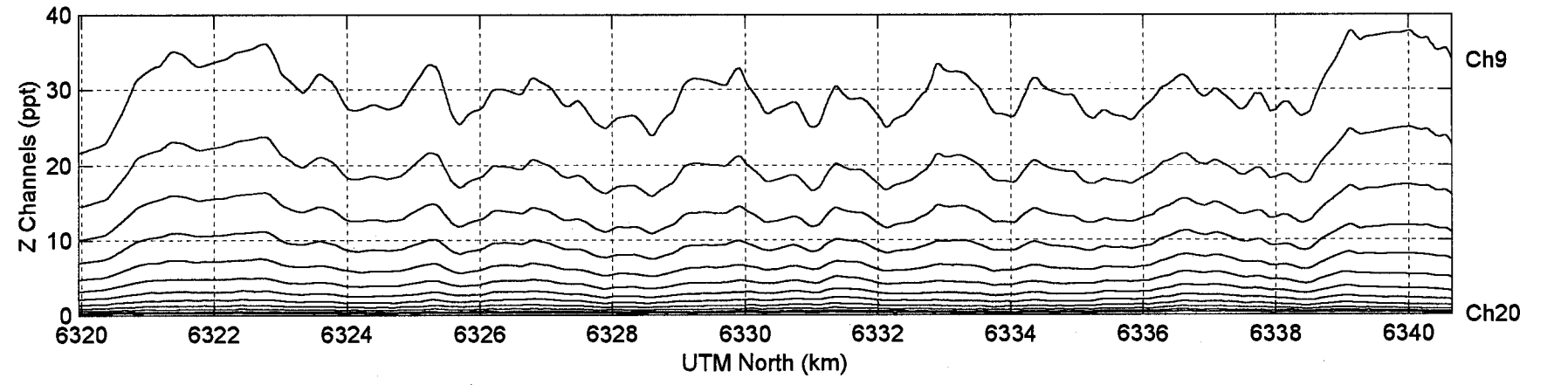
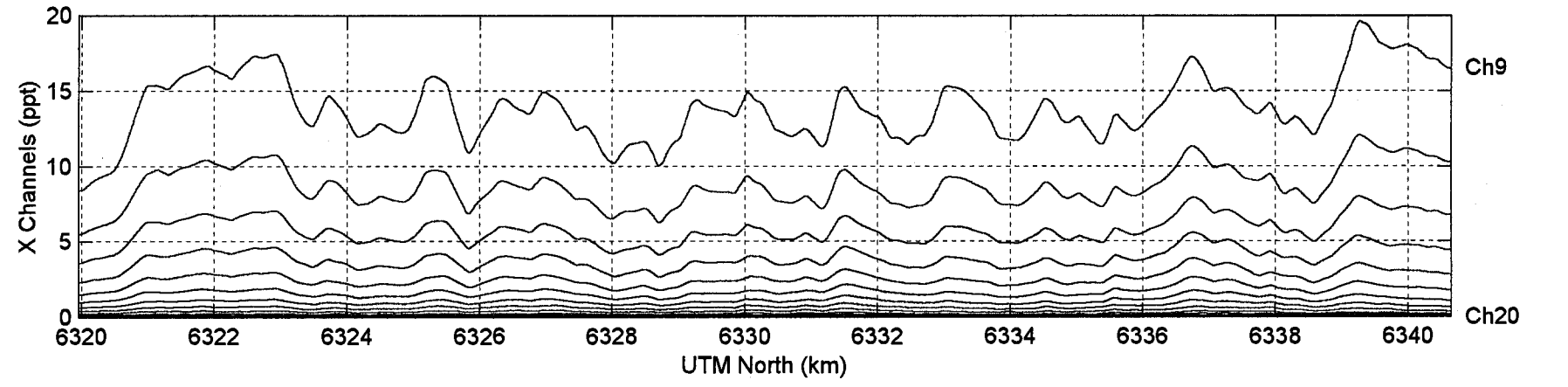
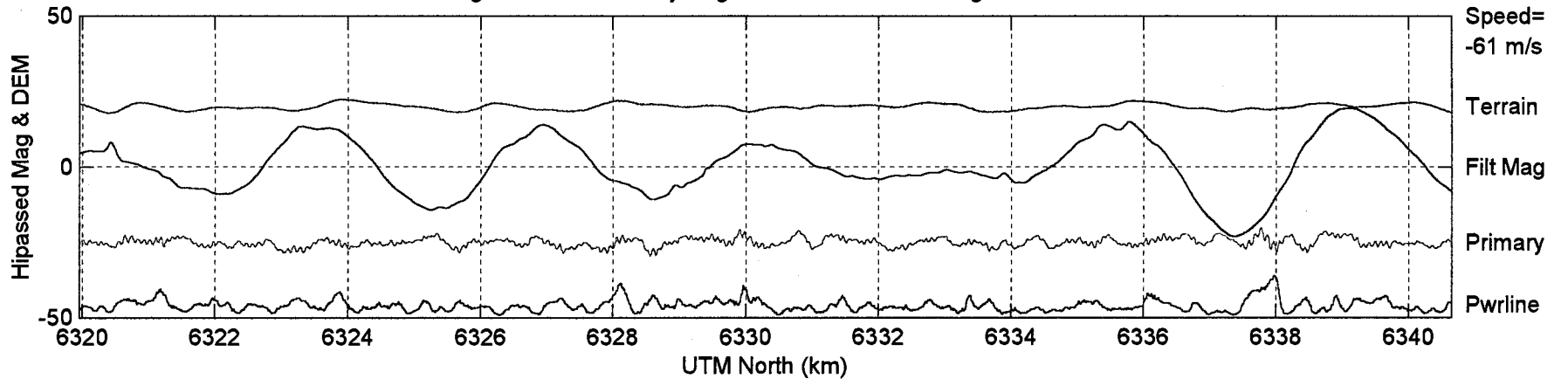
Pg1:GEOTEM Survey Figaro Line=184 Easting=541598



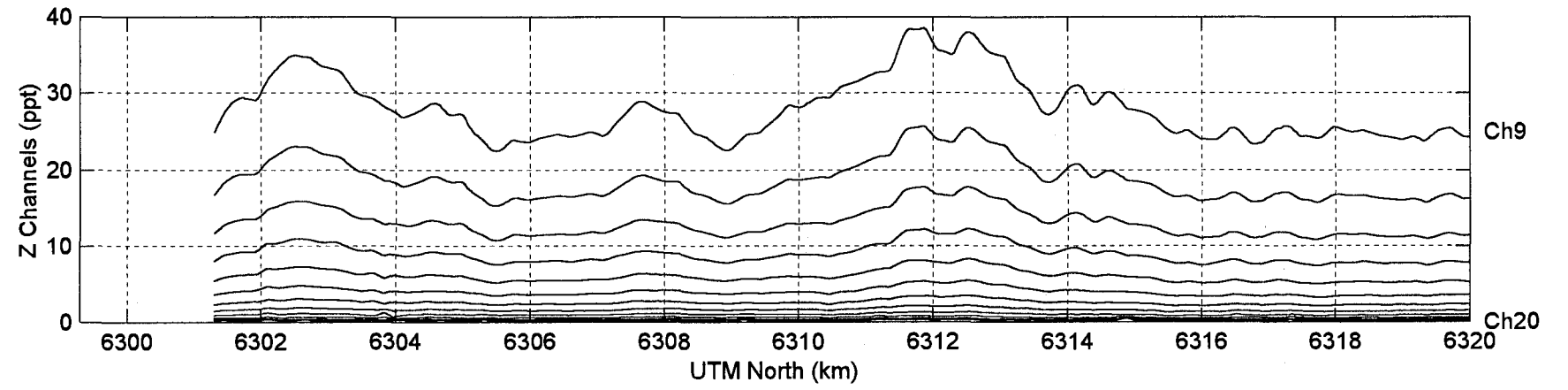
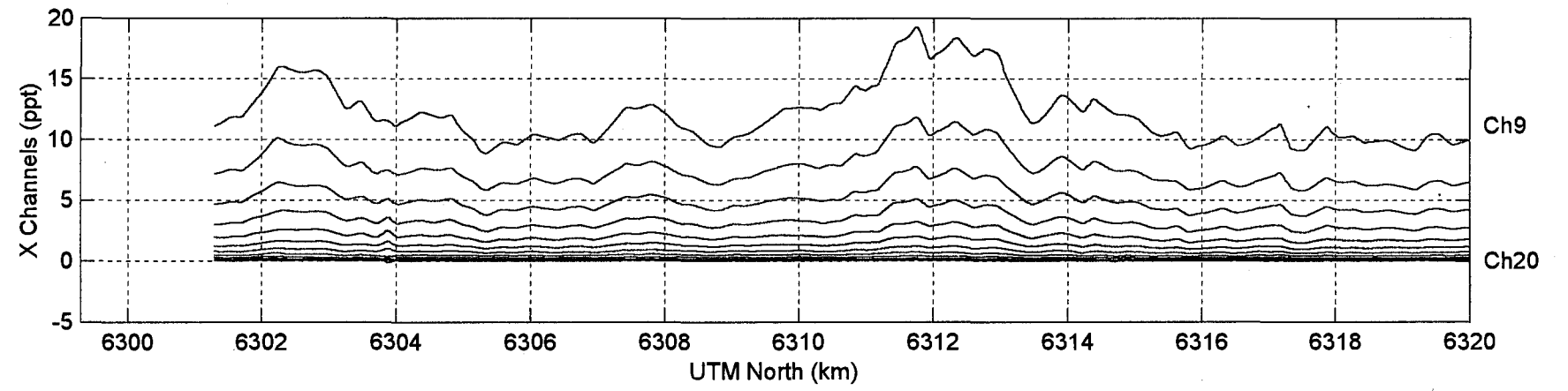
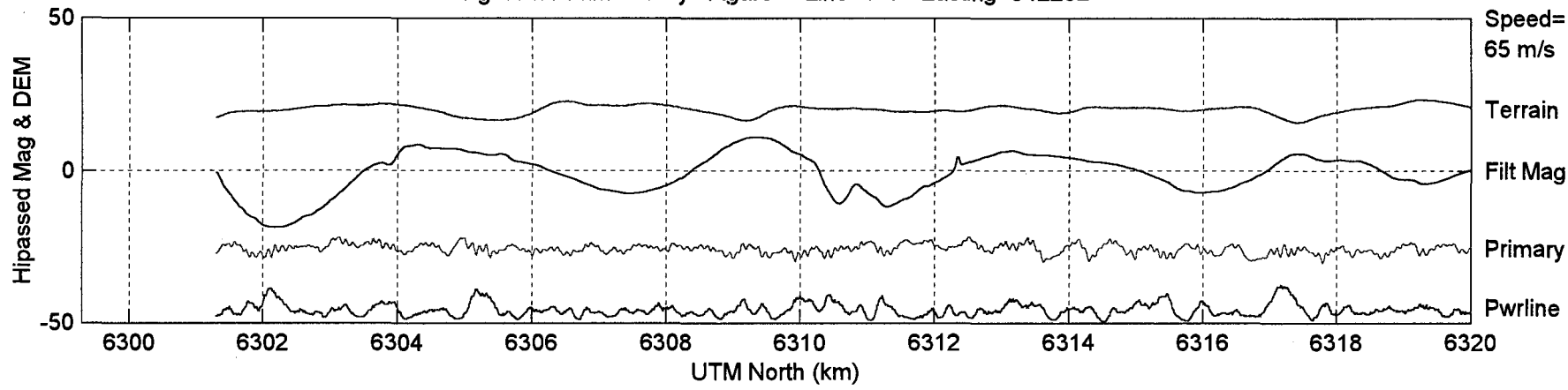


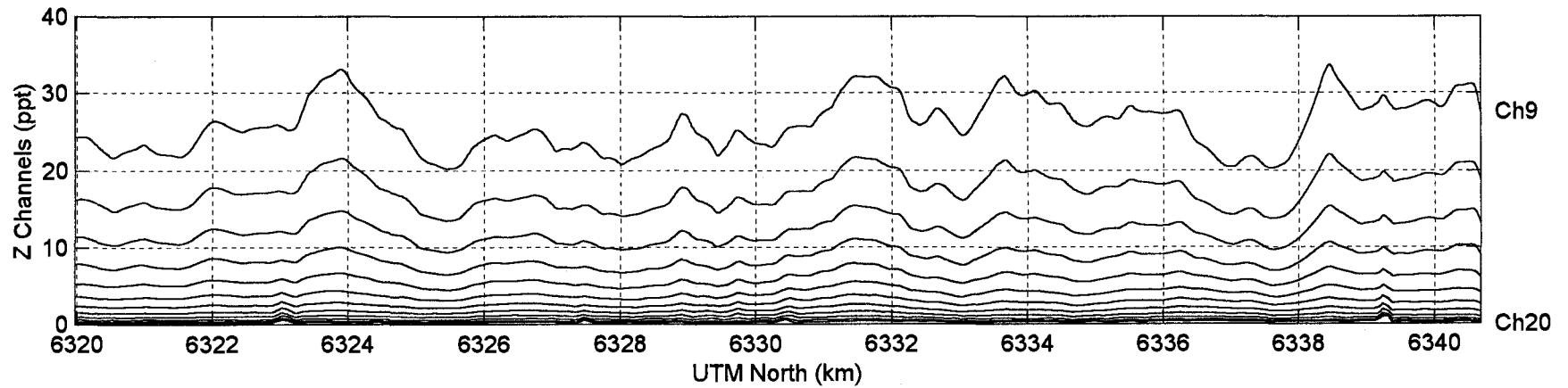
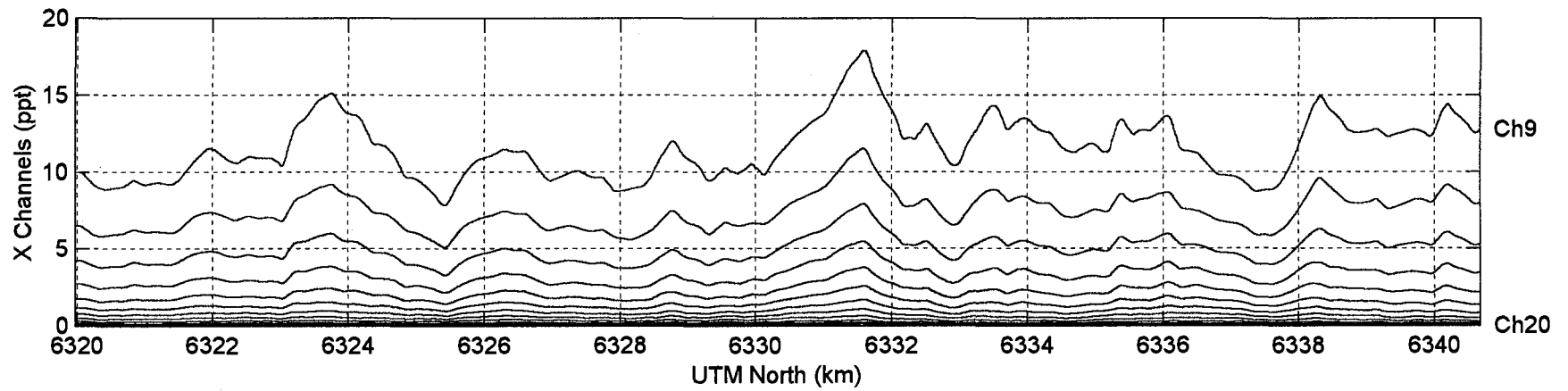
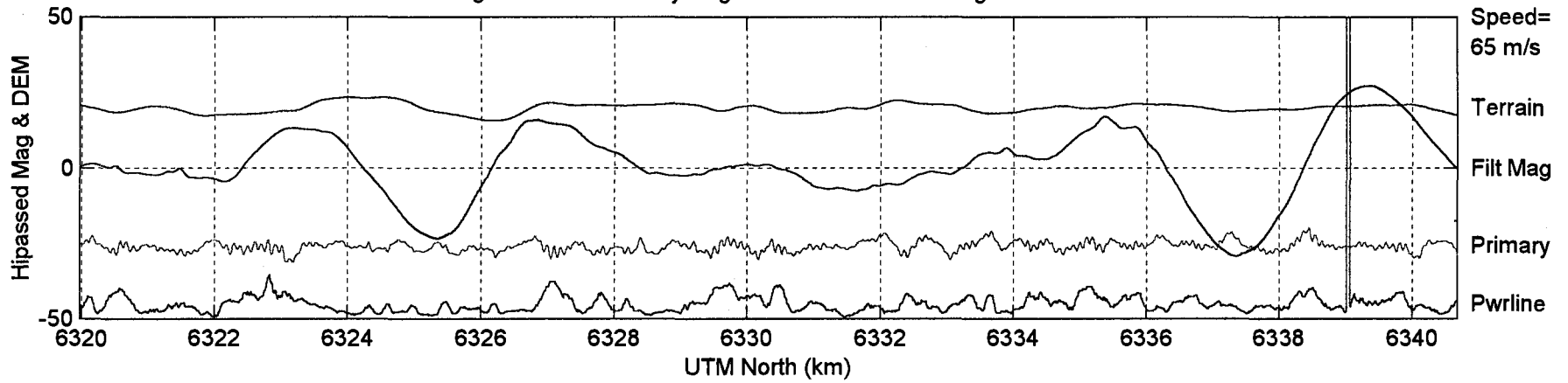


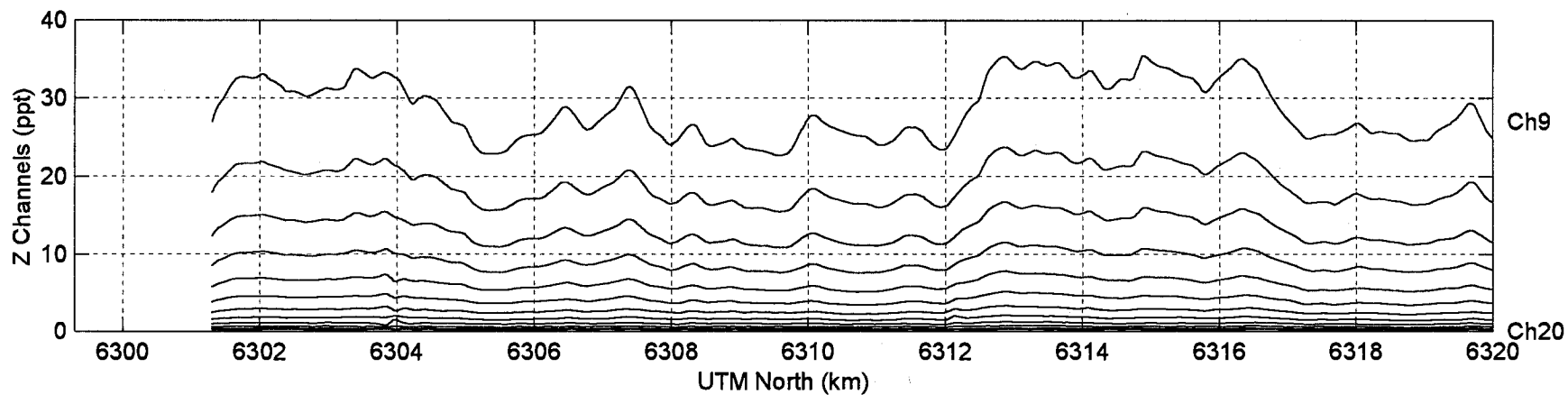
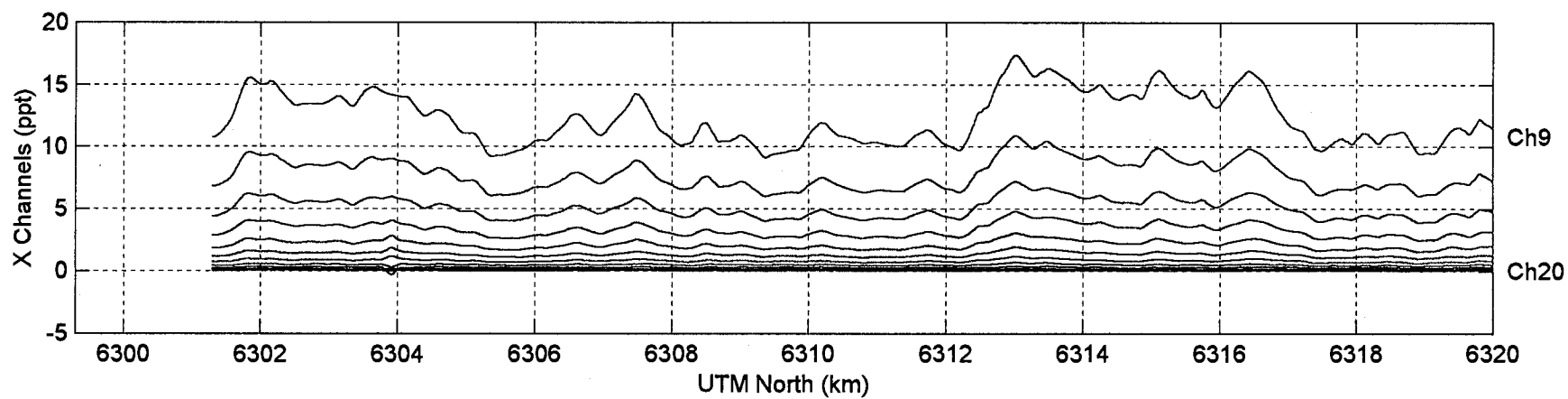
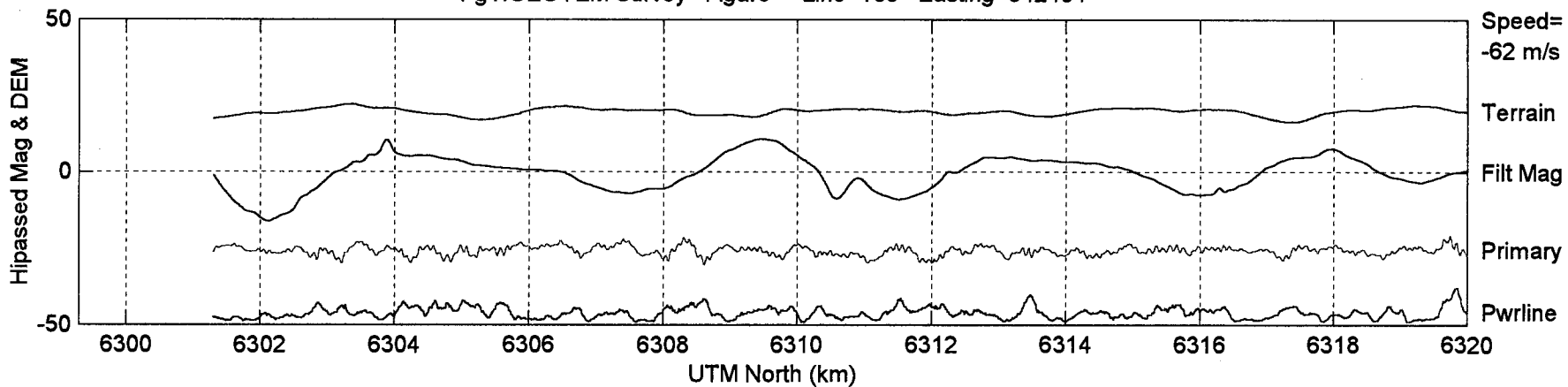


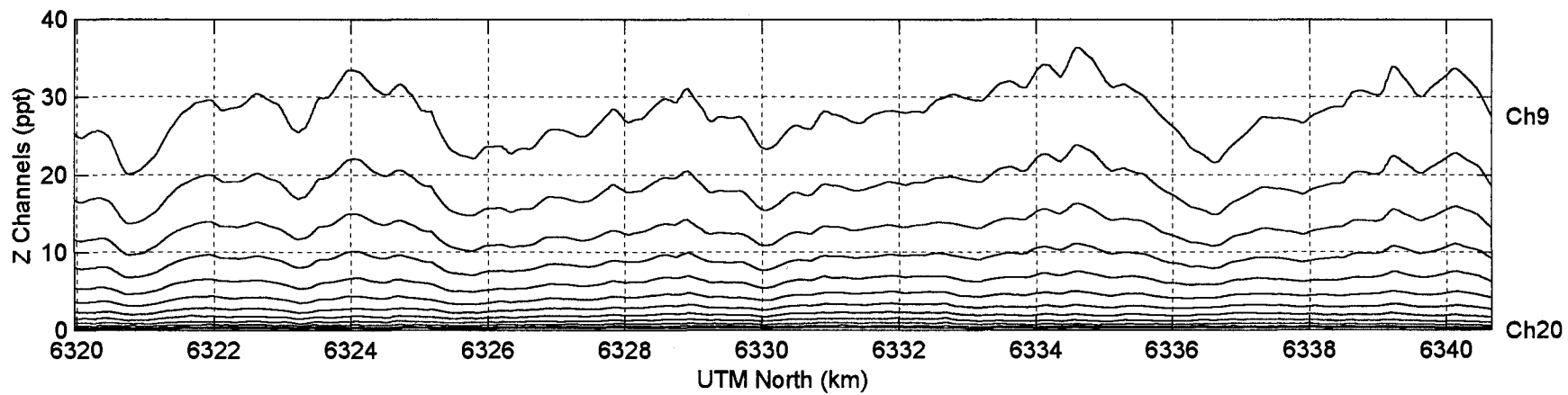
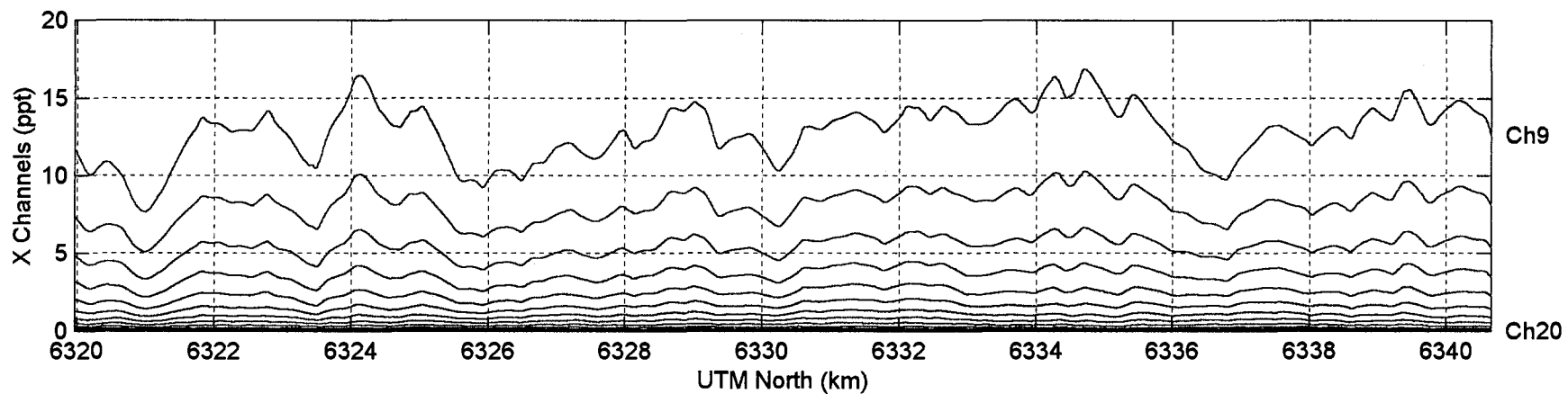
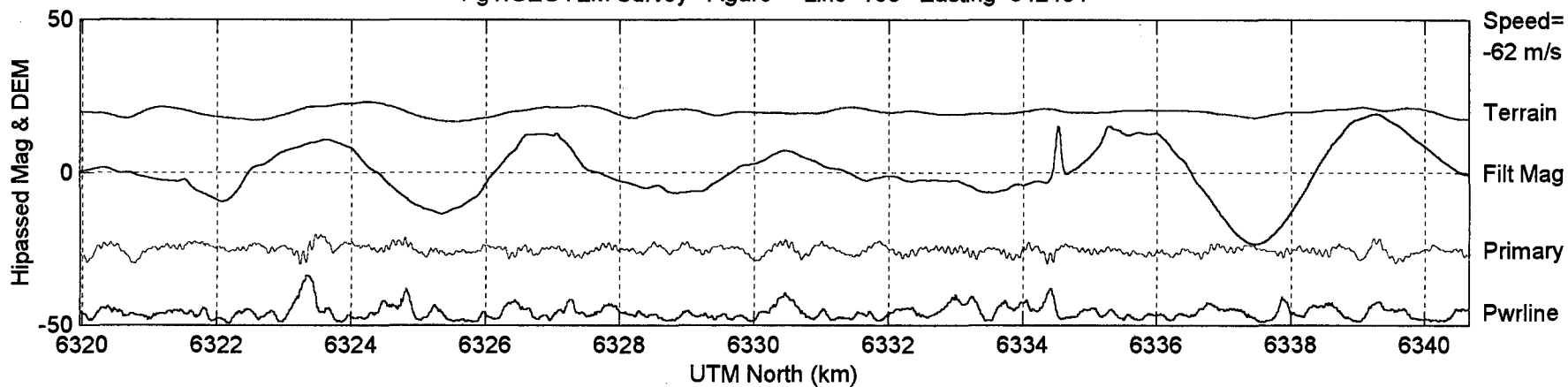


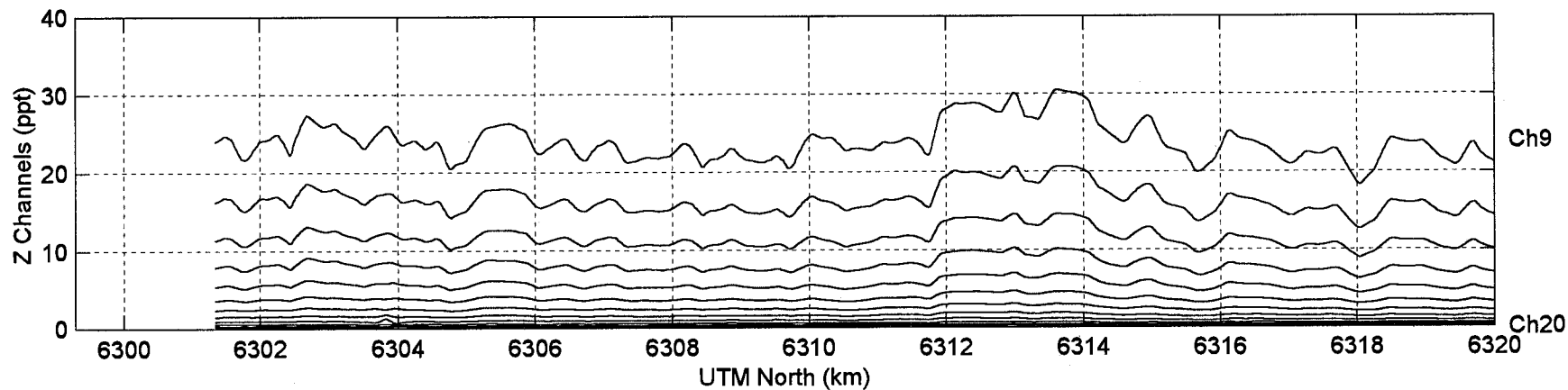
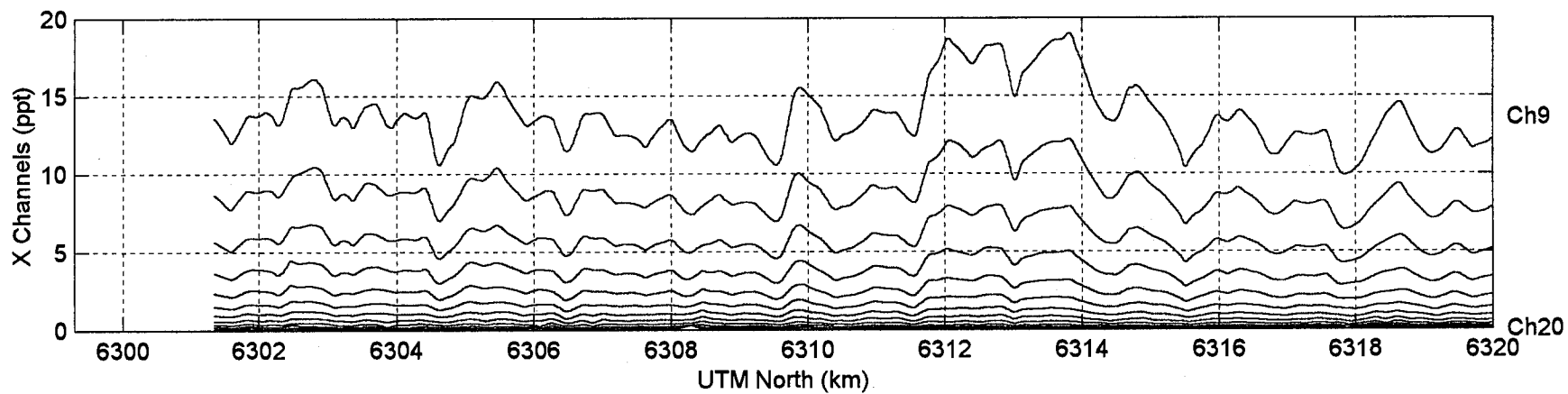
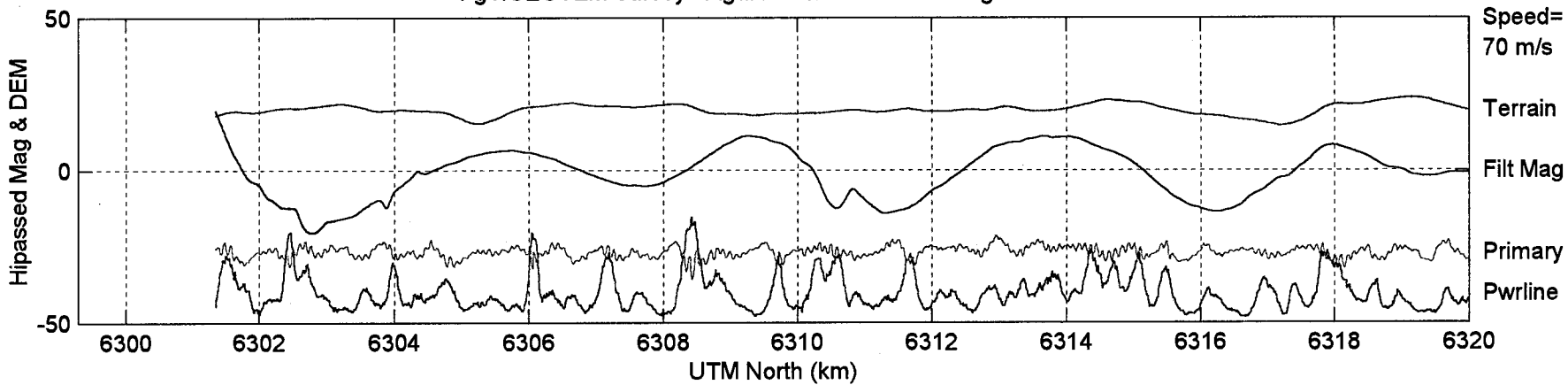
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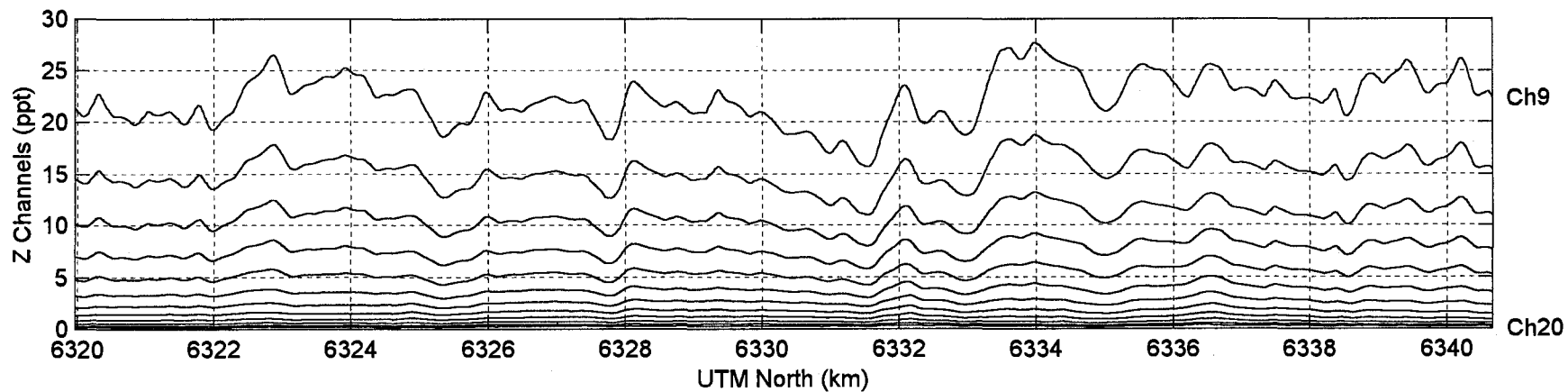
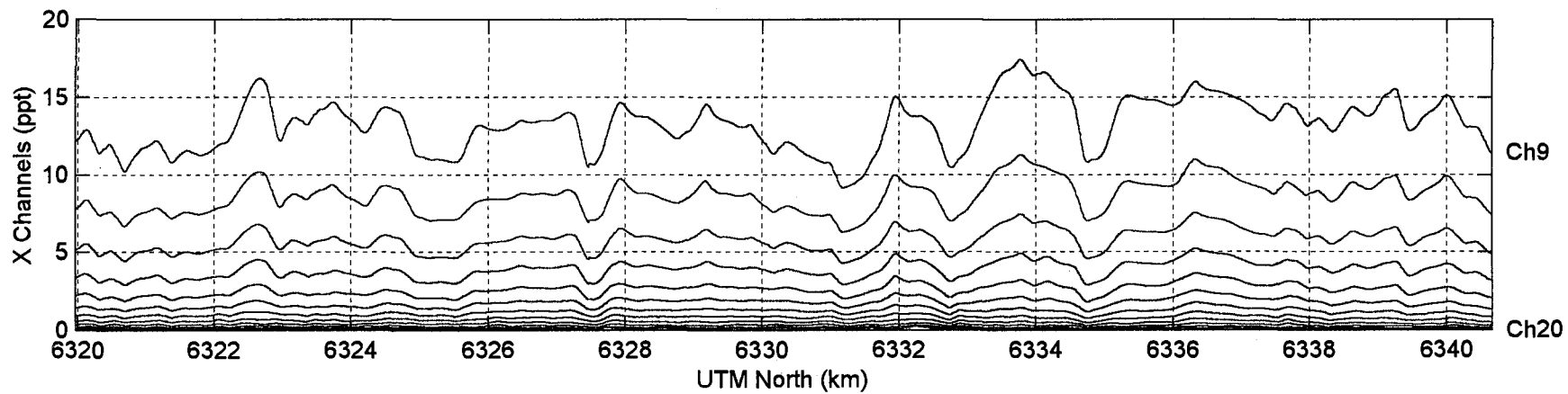
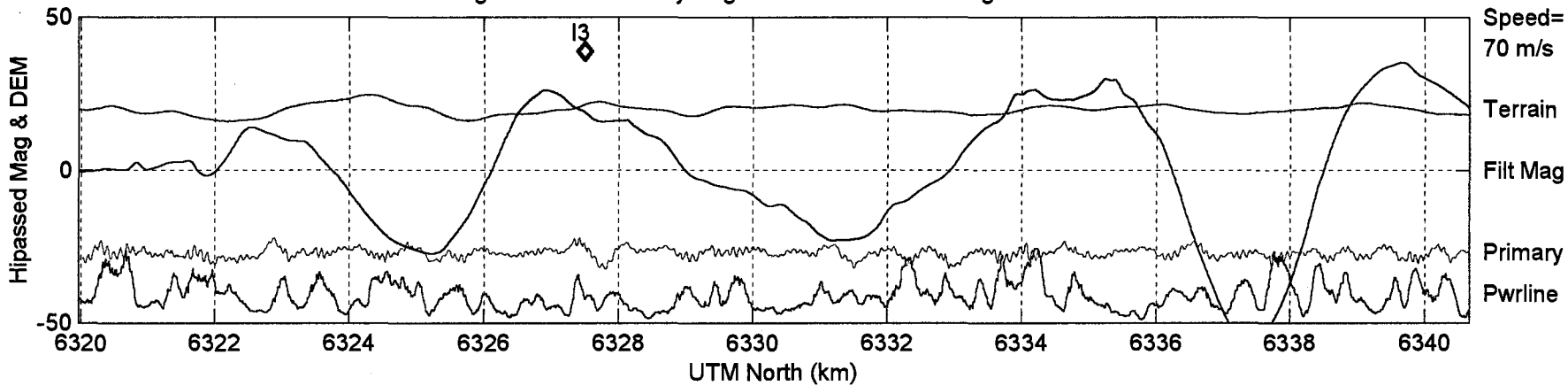


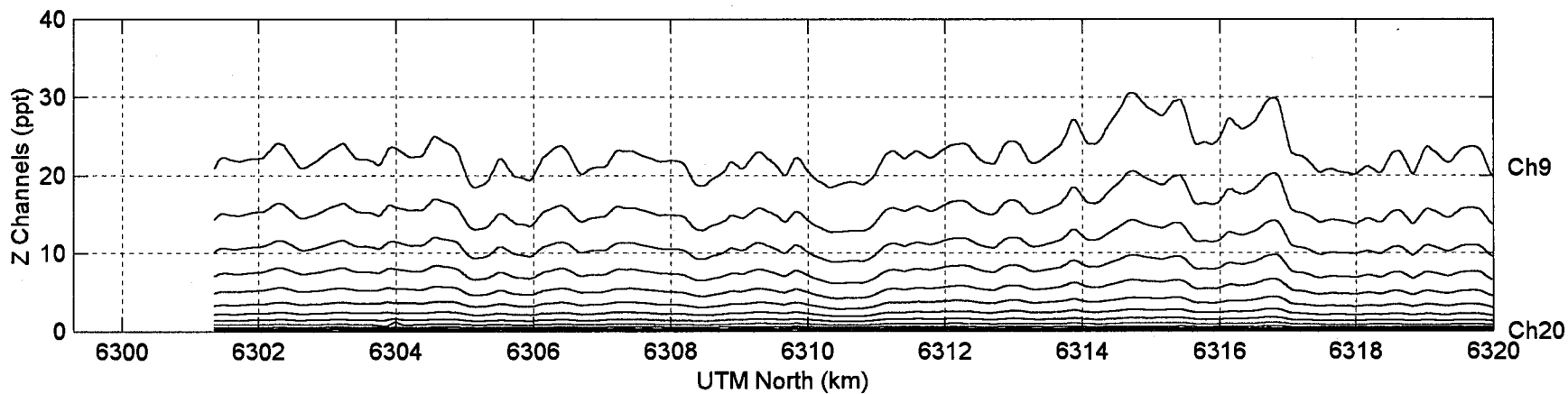
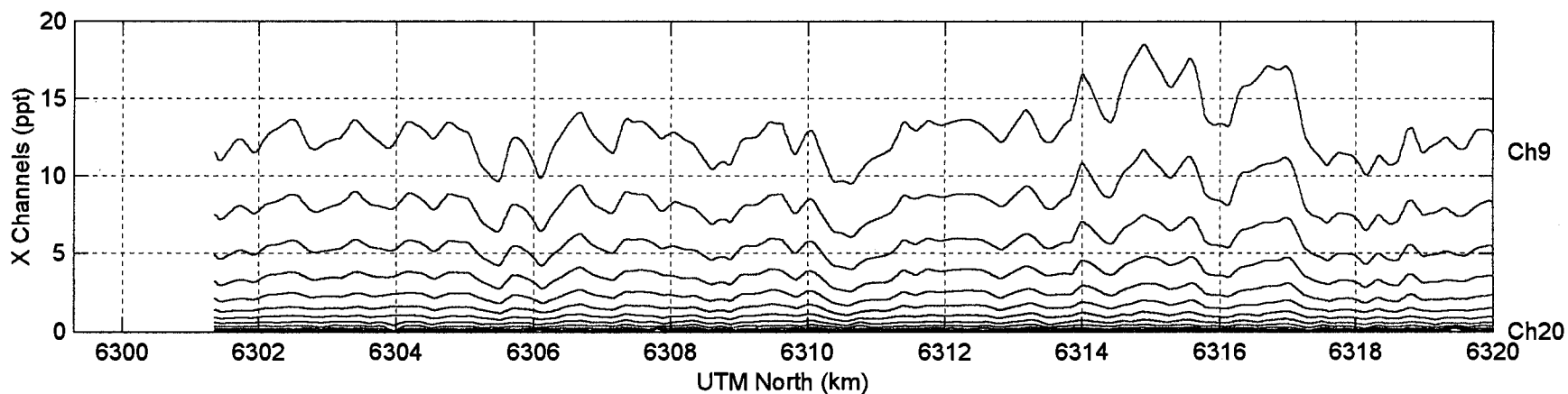
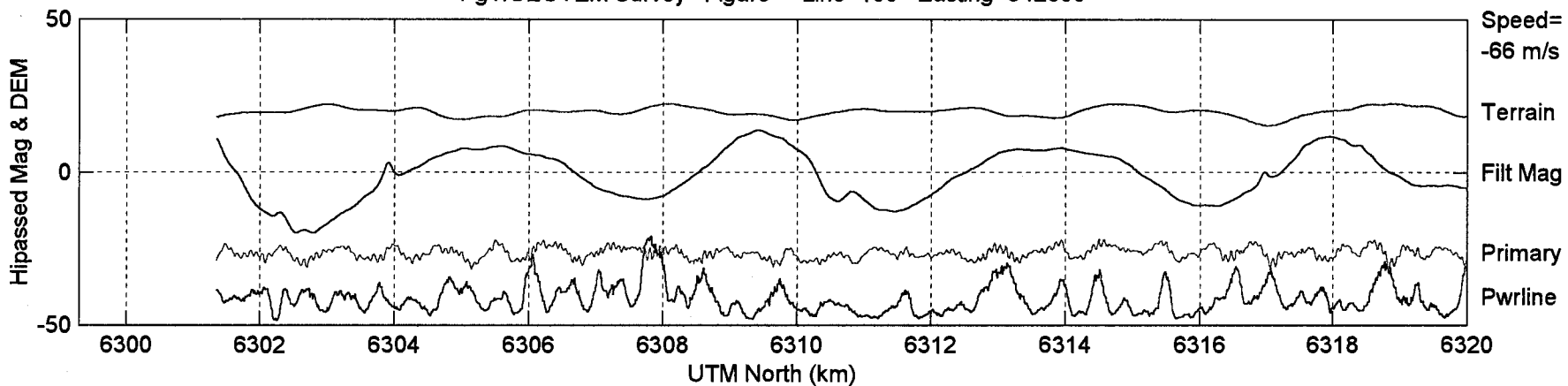


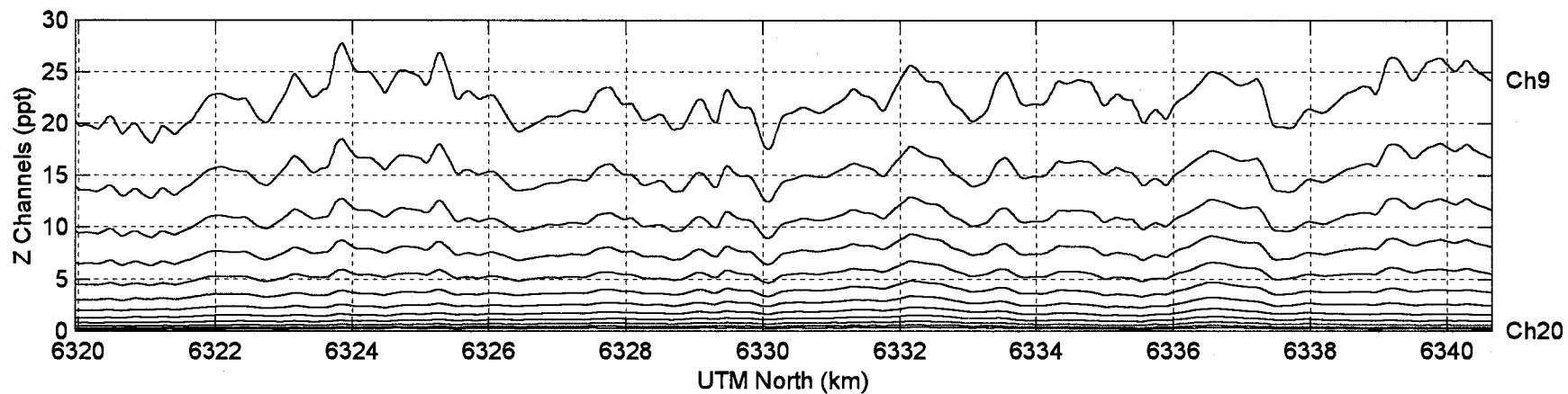
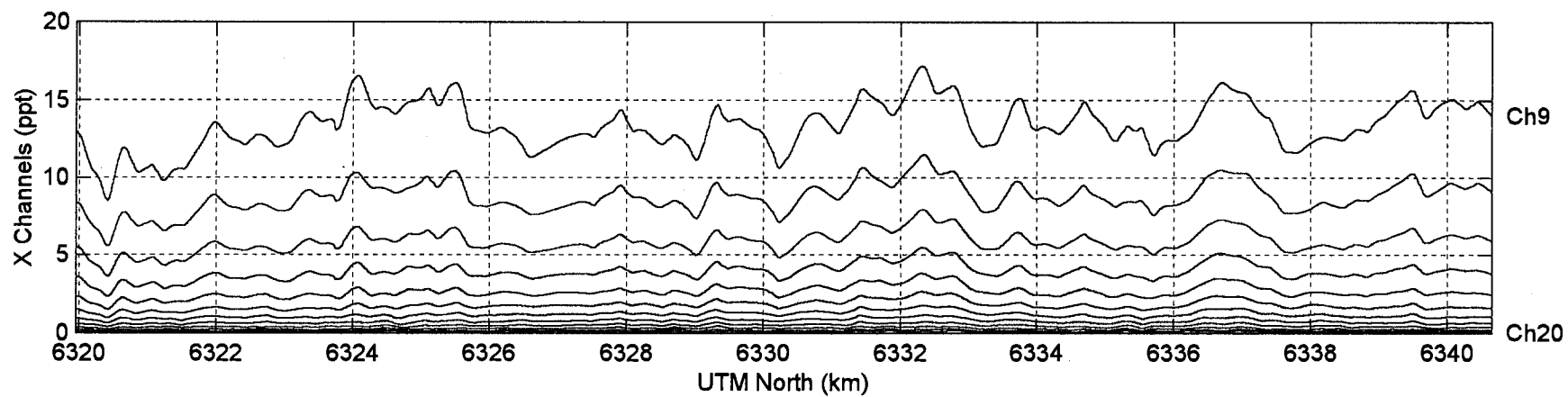
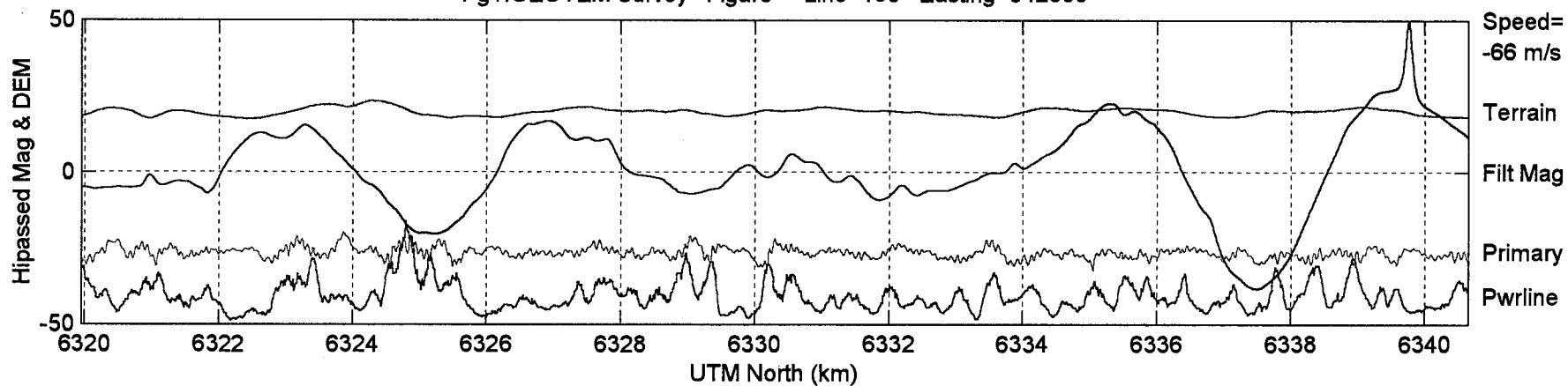




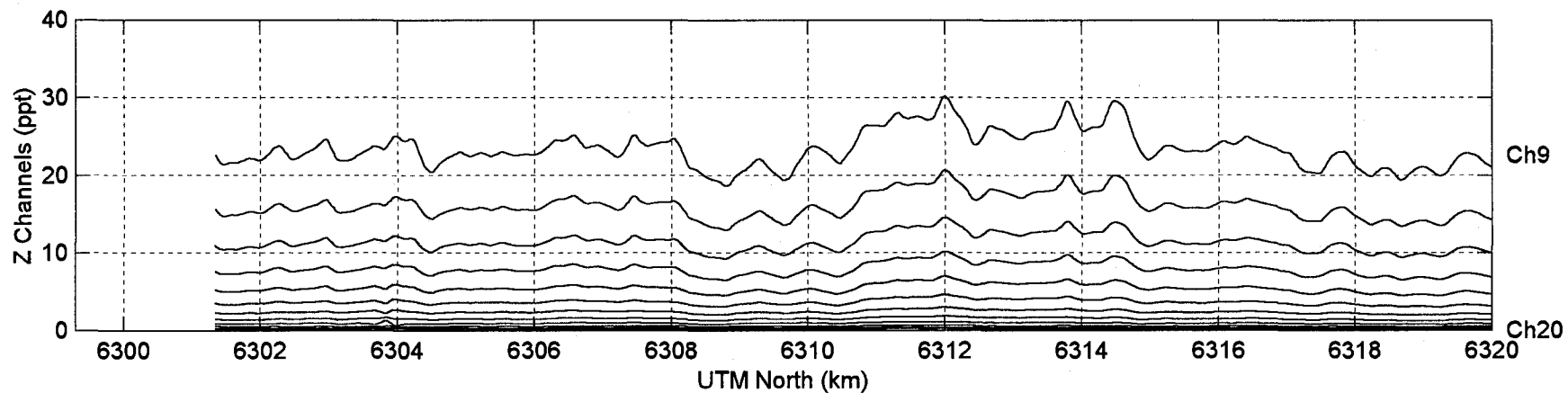
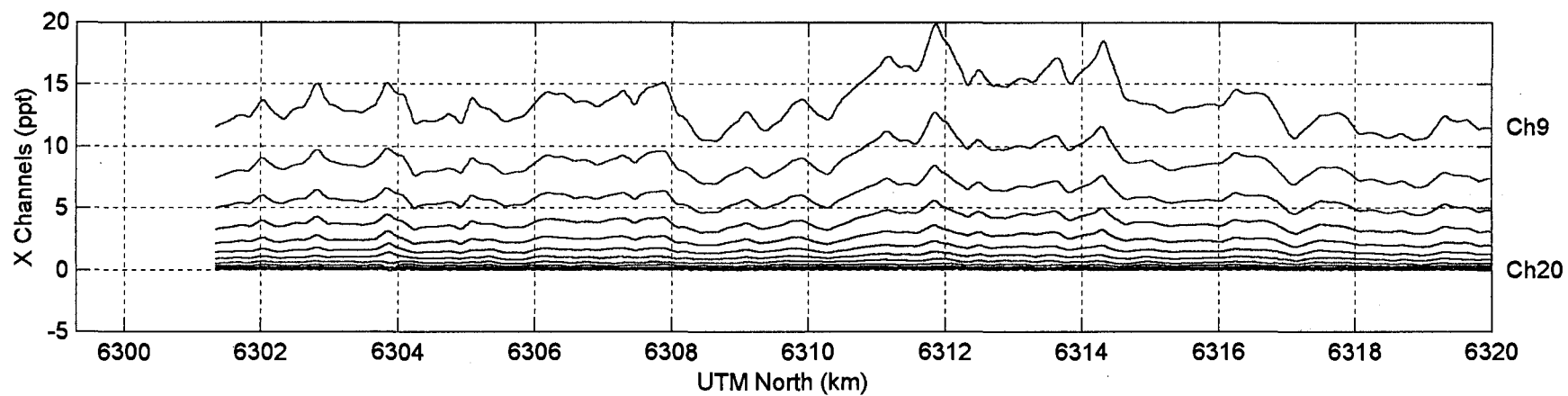
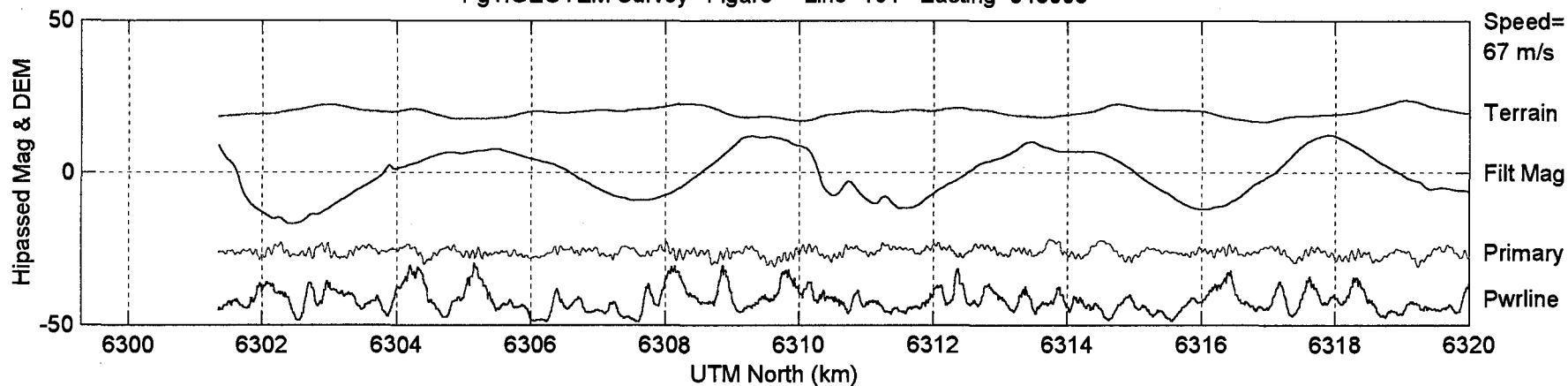


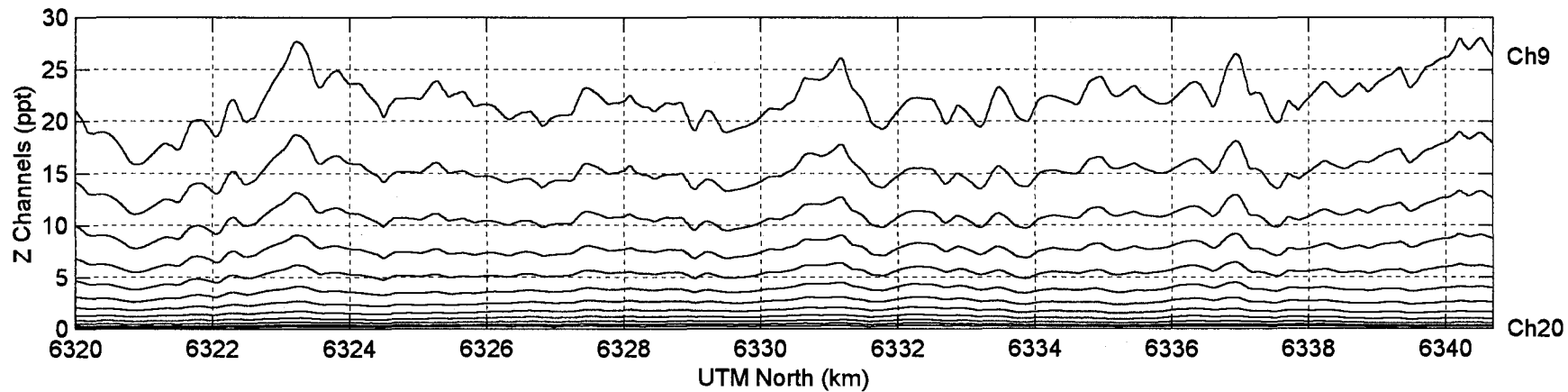
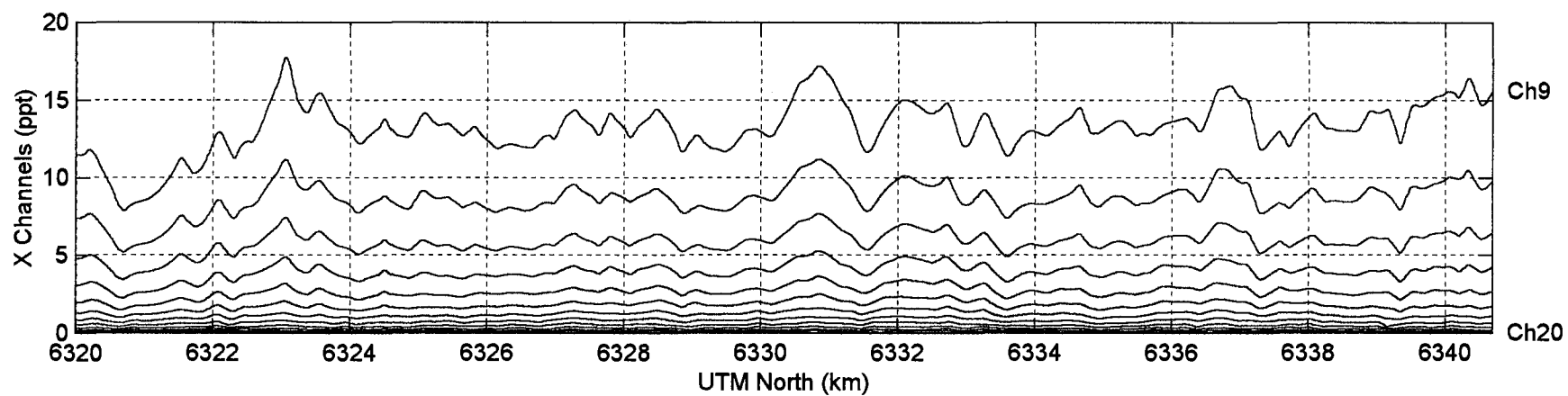
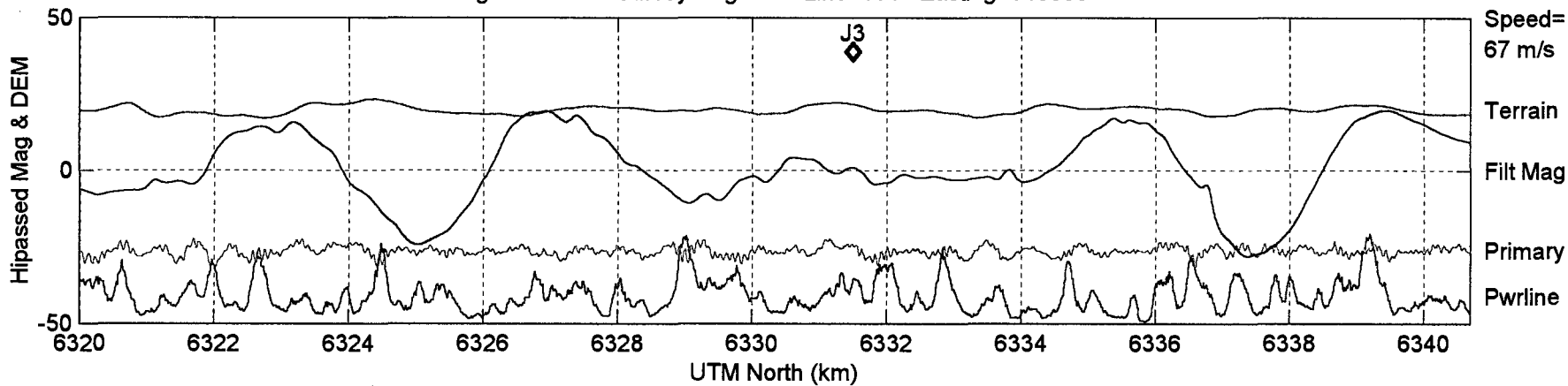


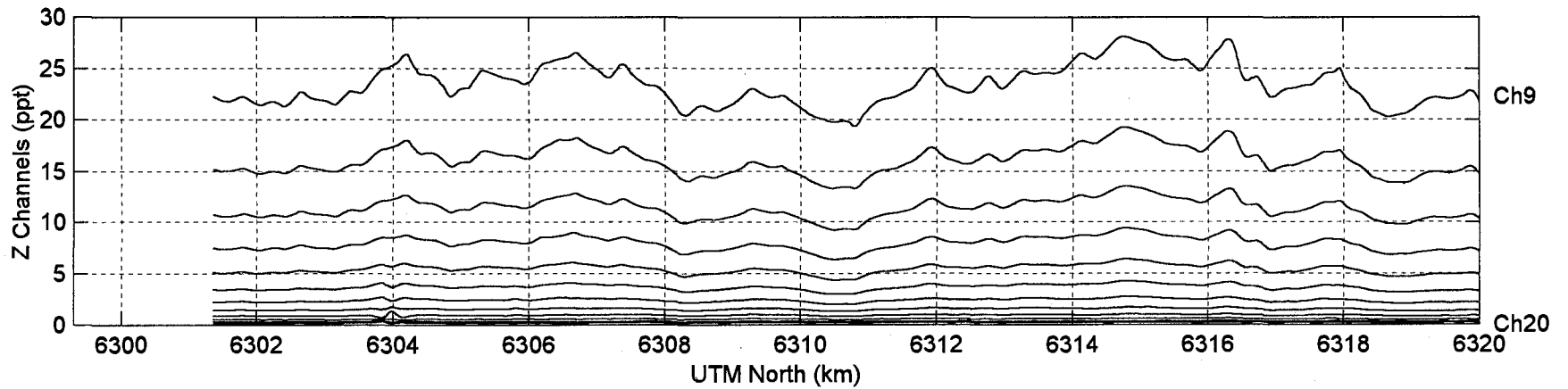
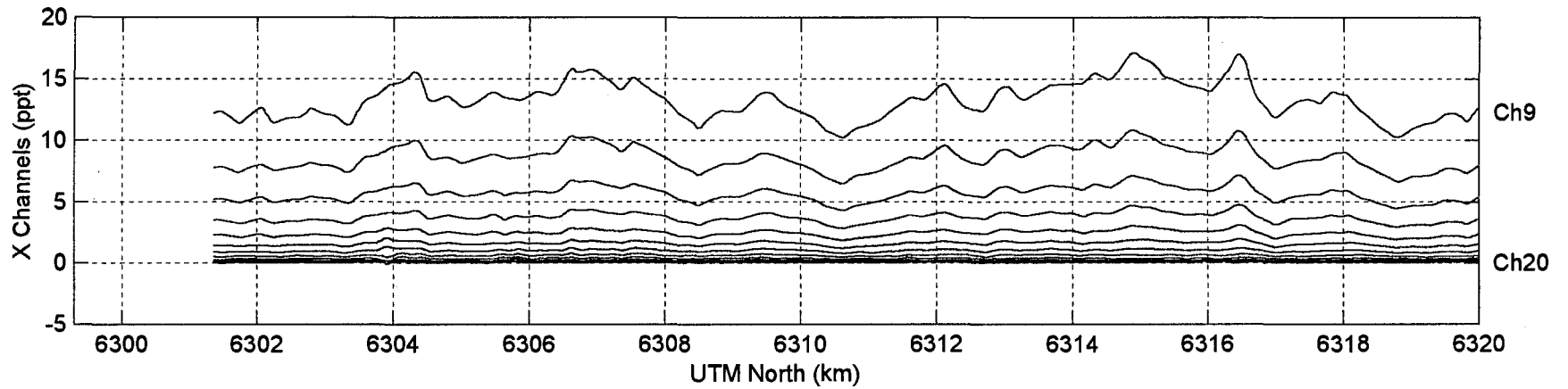
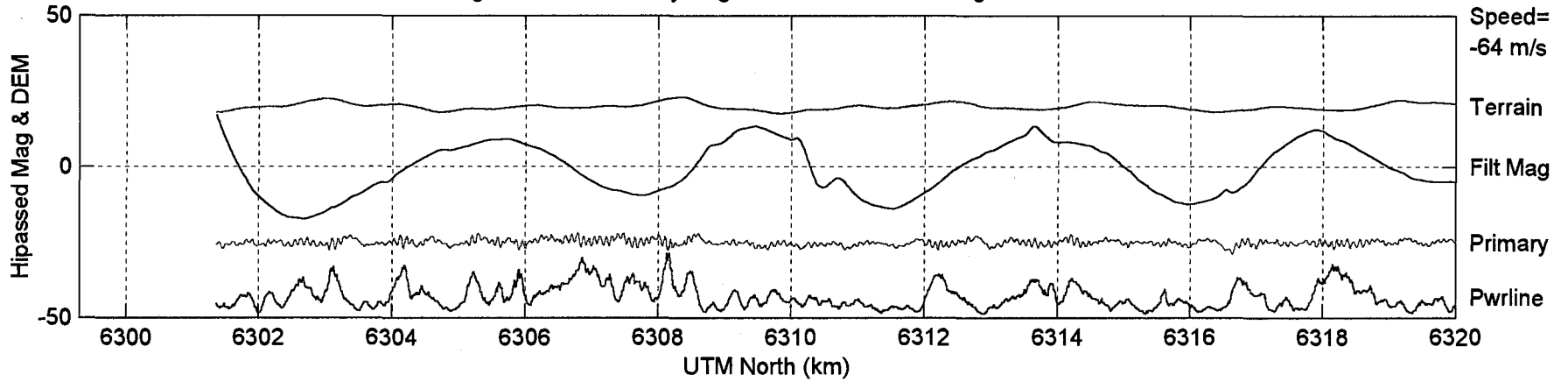


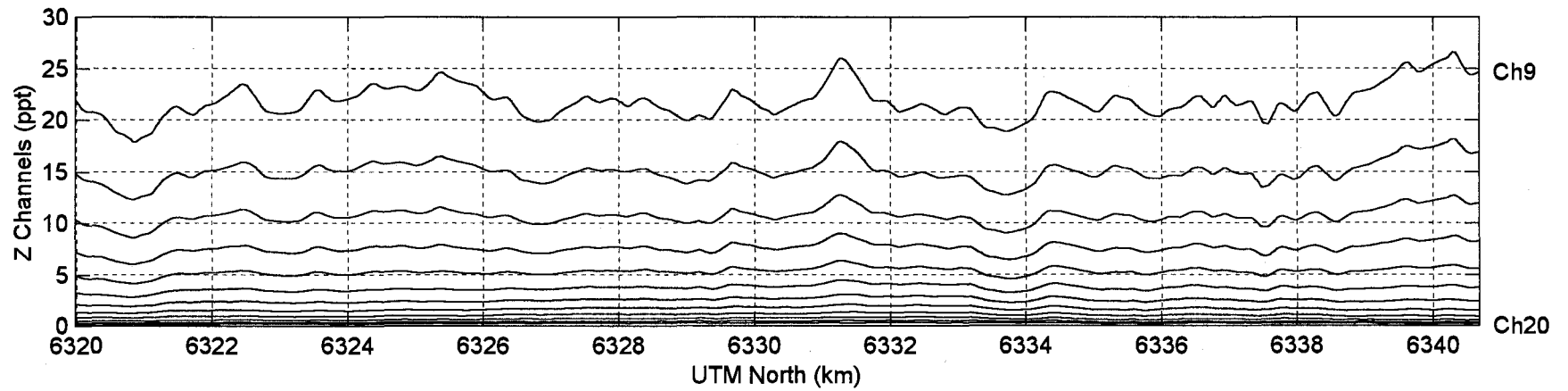
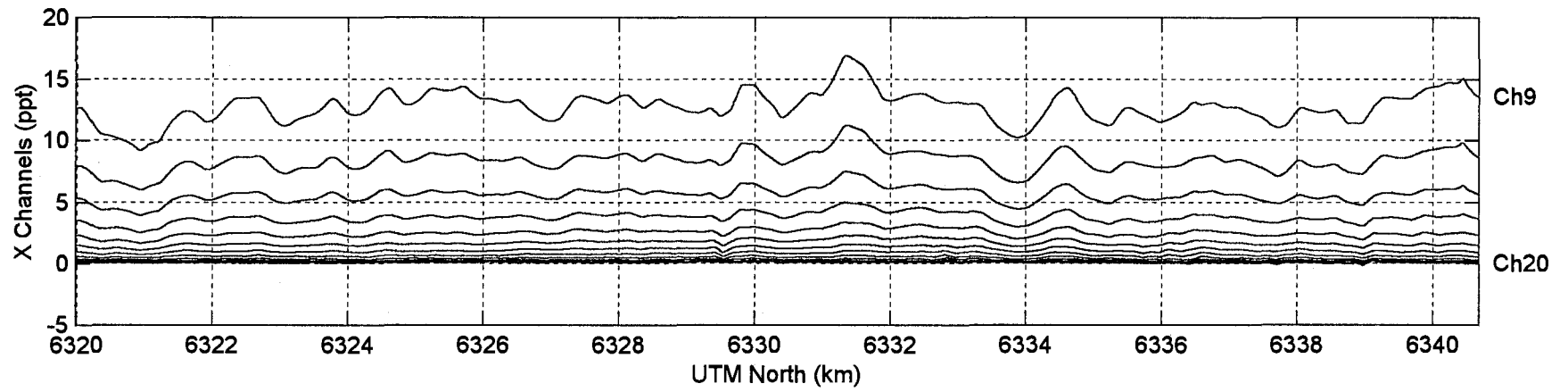
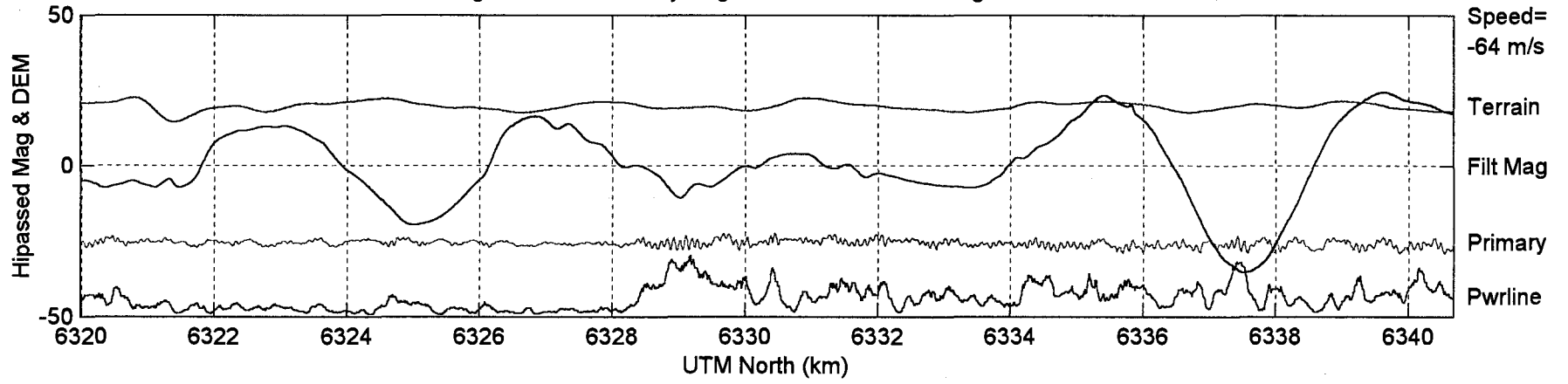


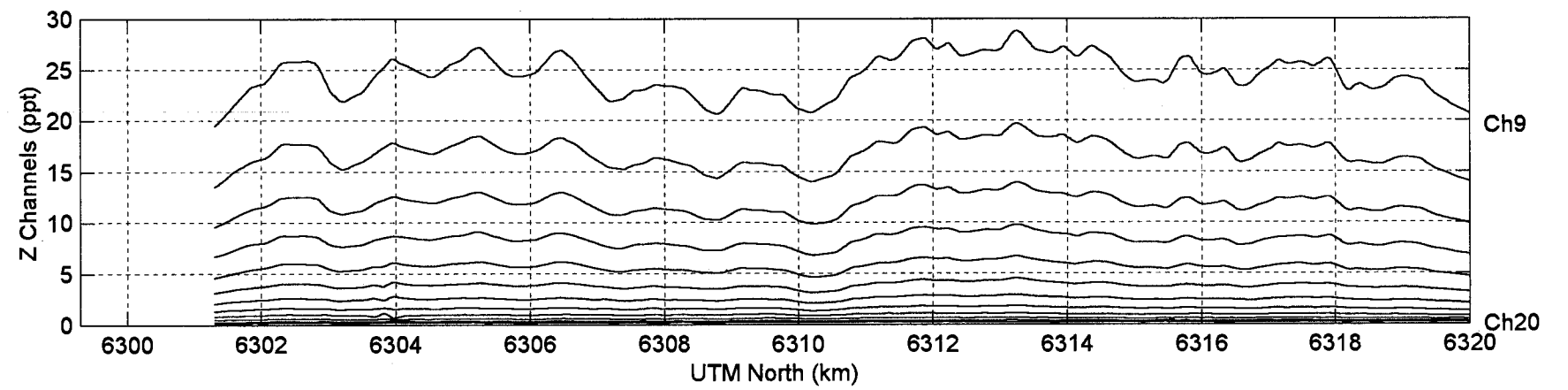
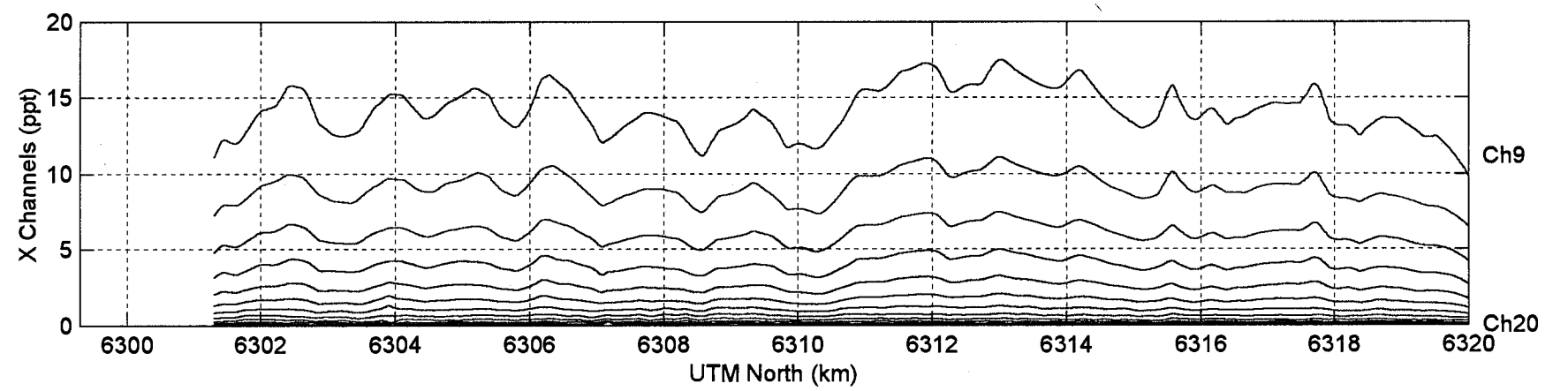
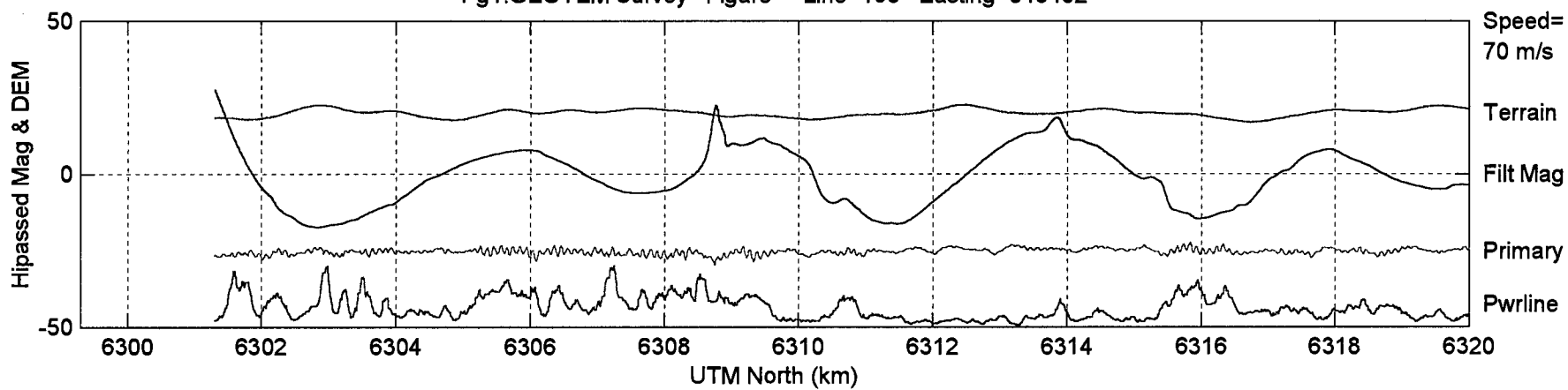
Pg1:GEOTEM Survey Figaro Line=191 Easting=543003

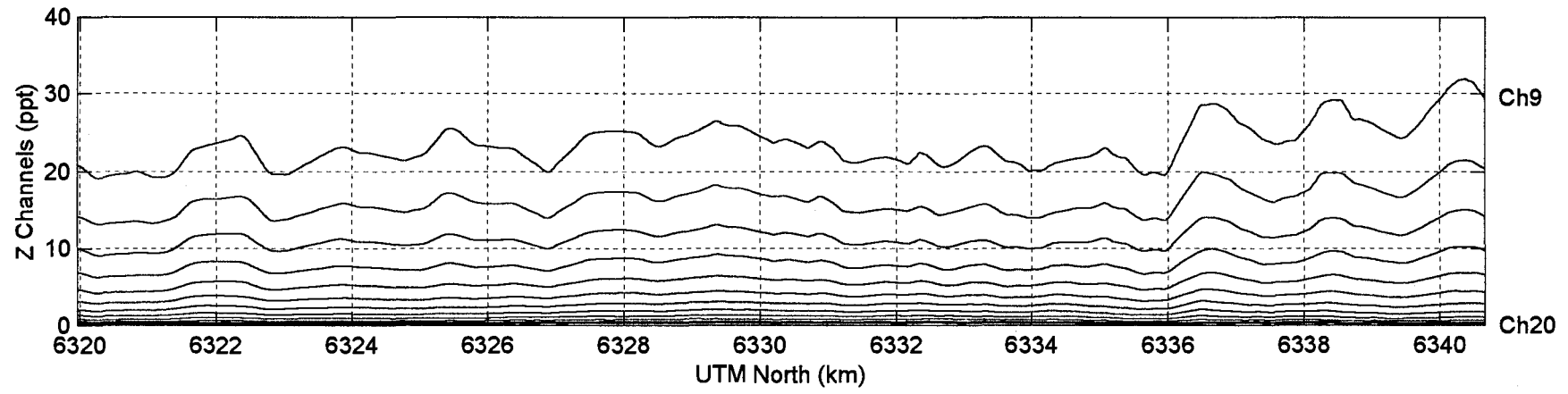
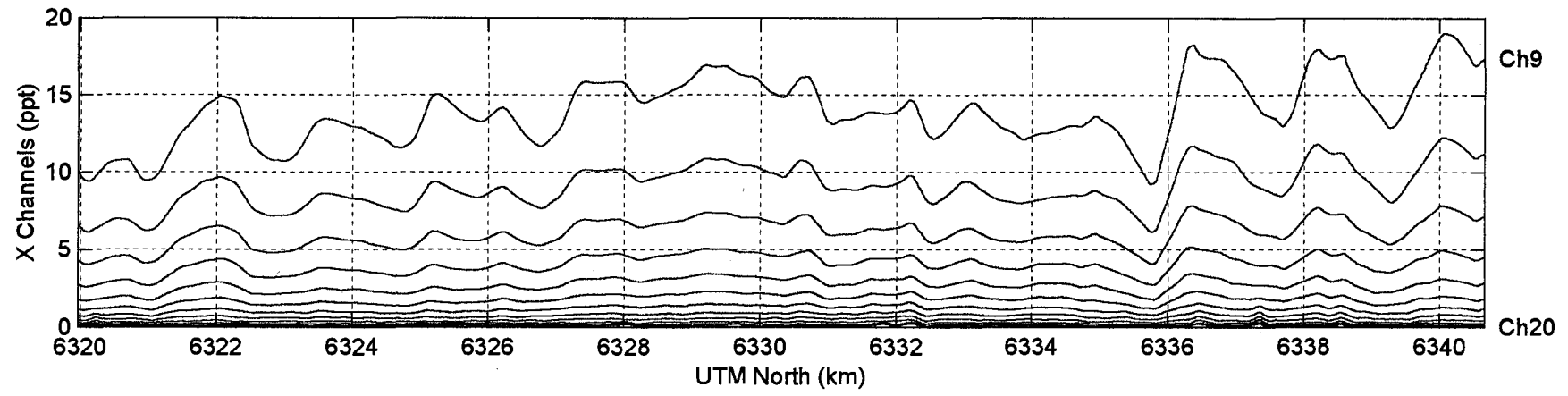
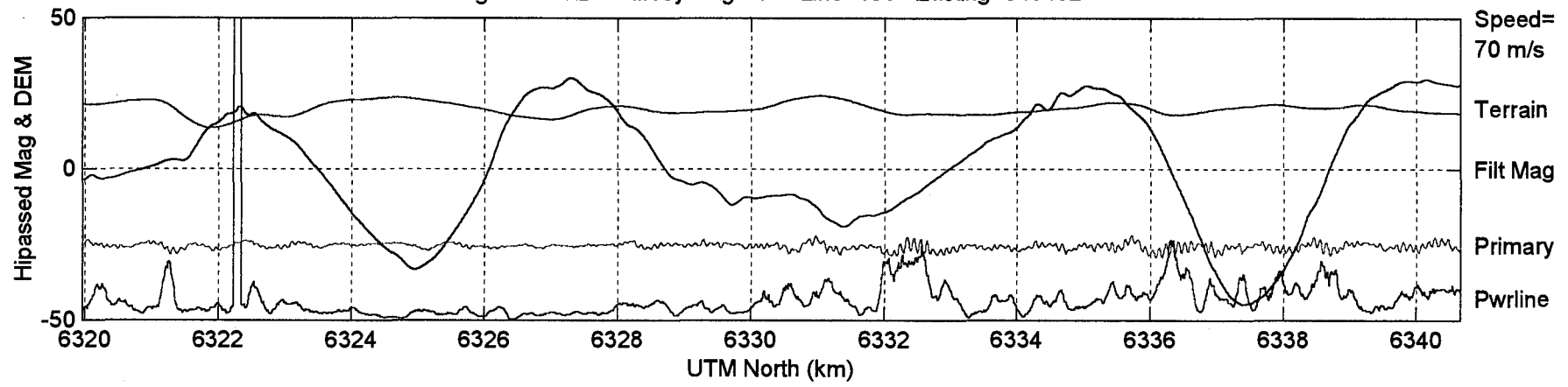


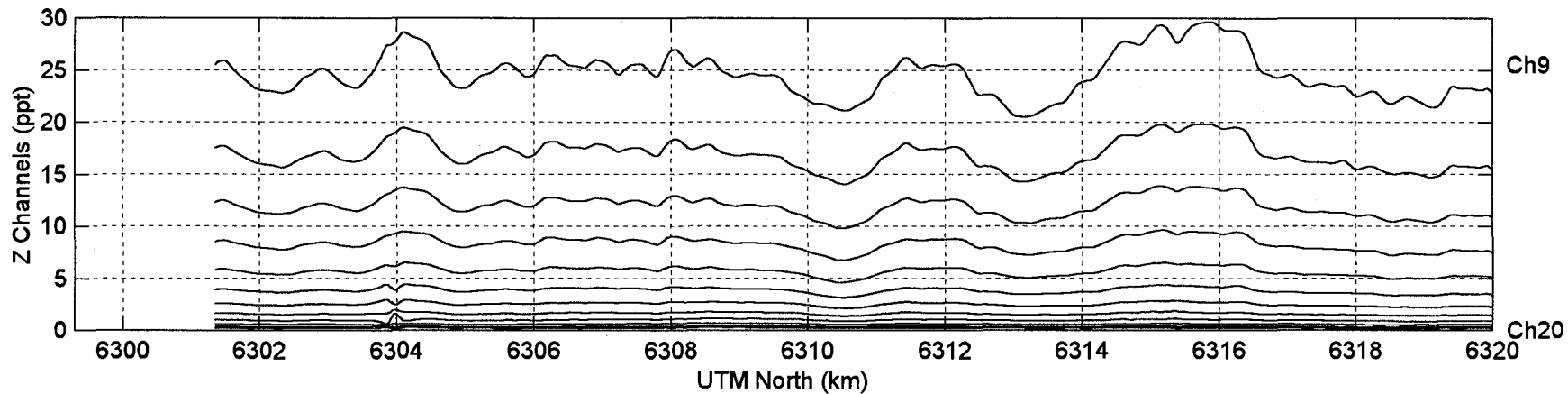
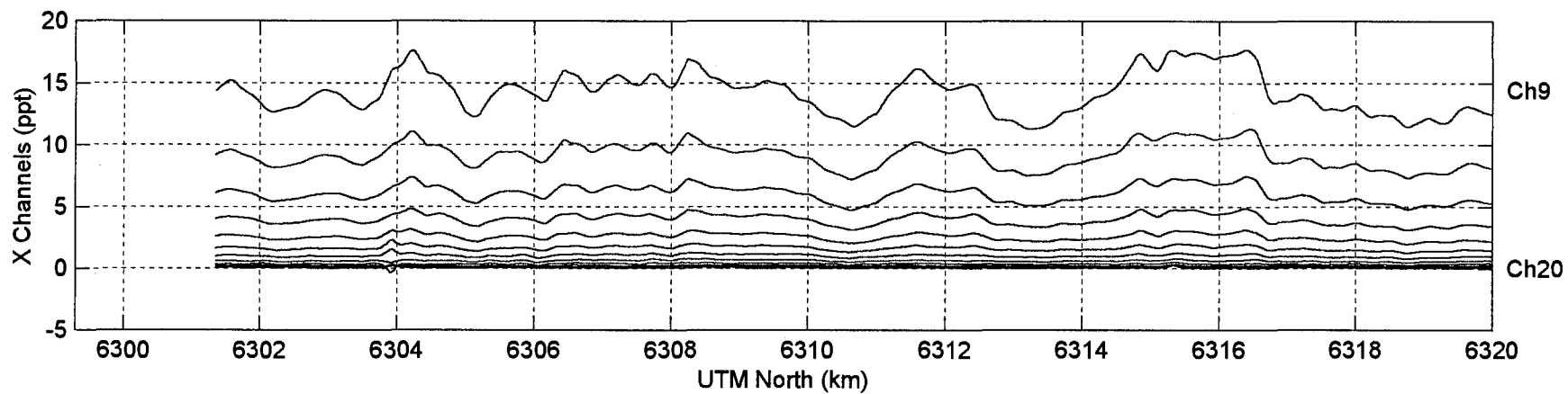
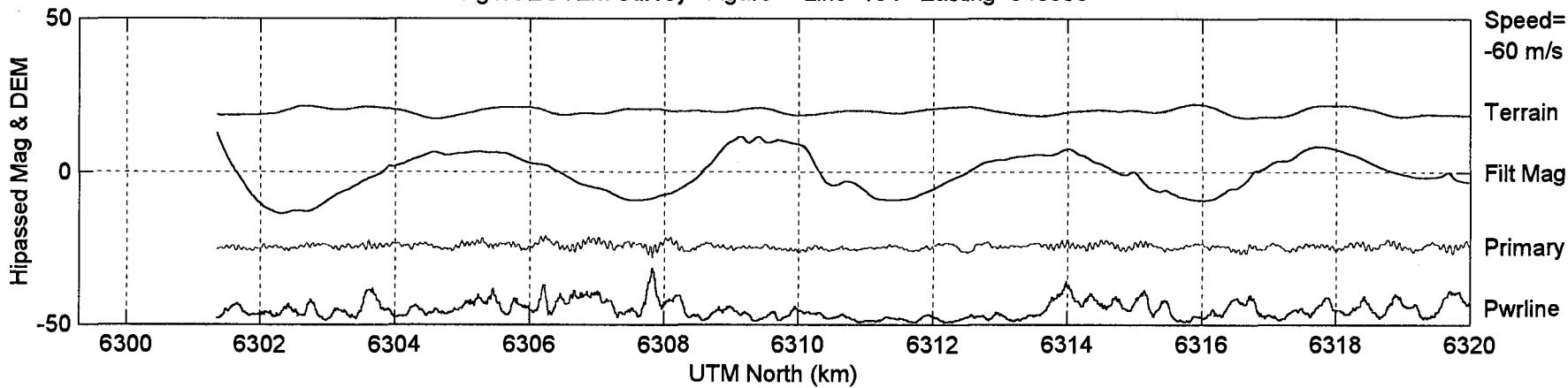


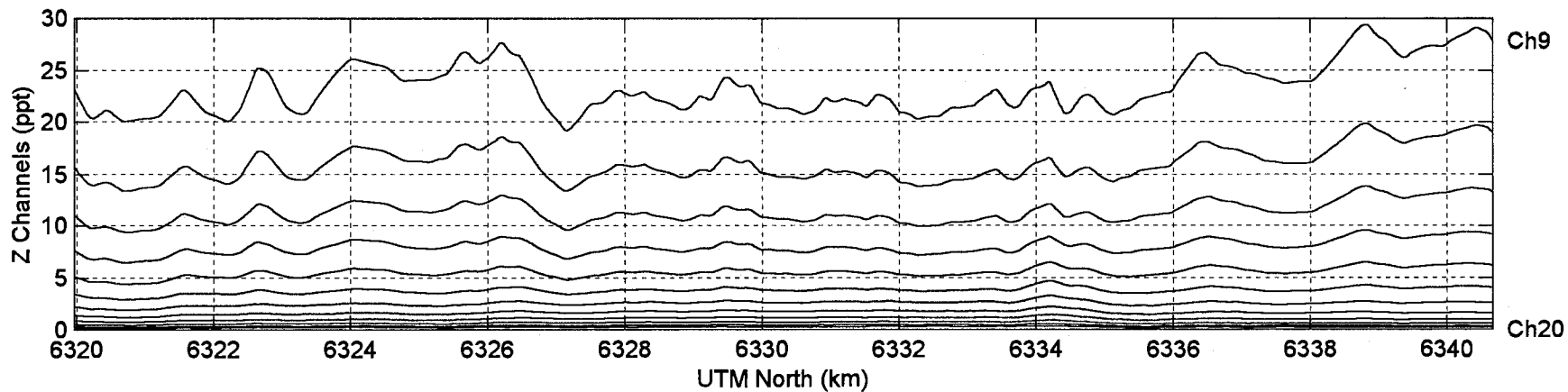
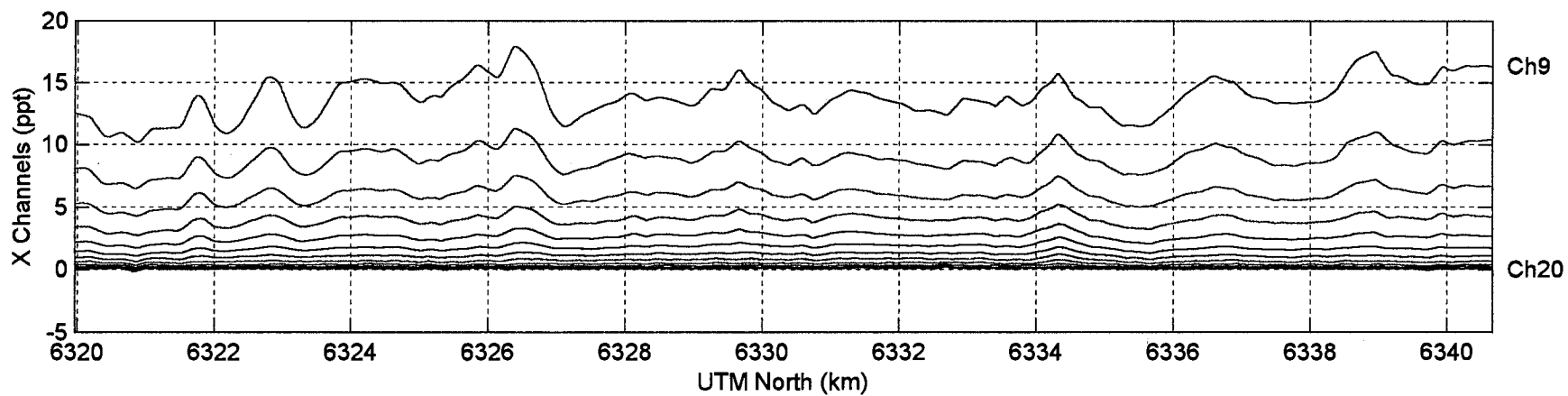
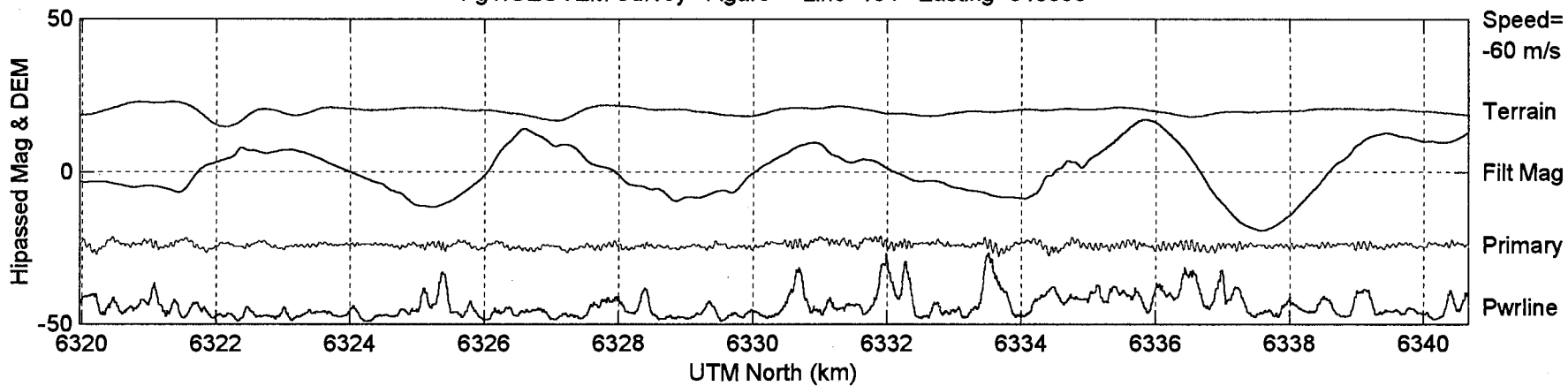


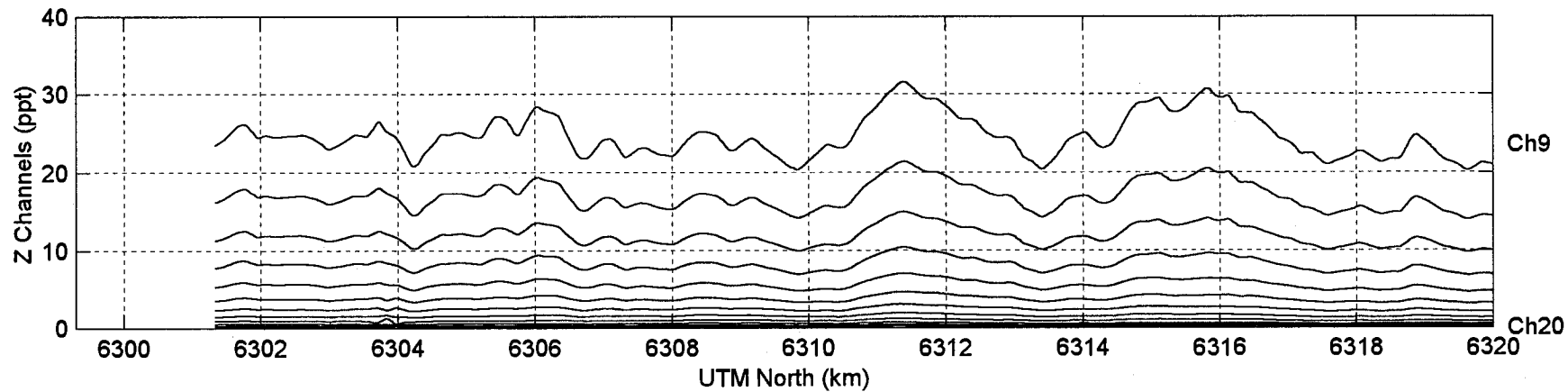
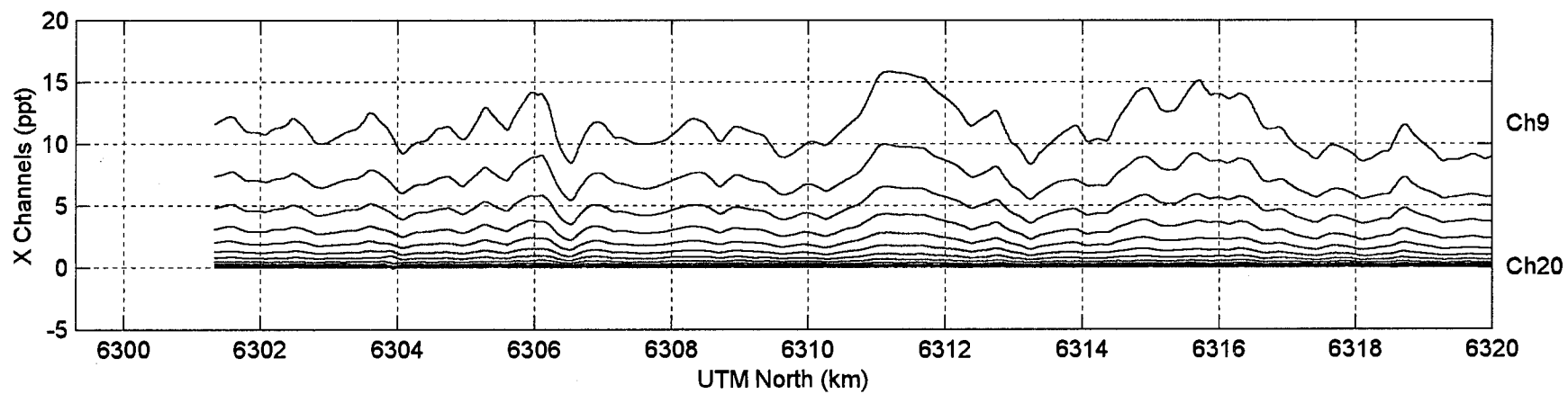
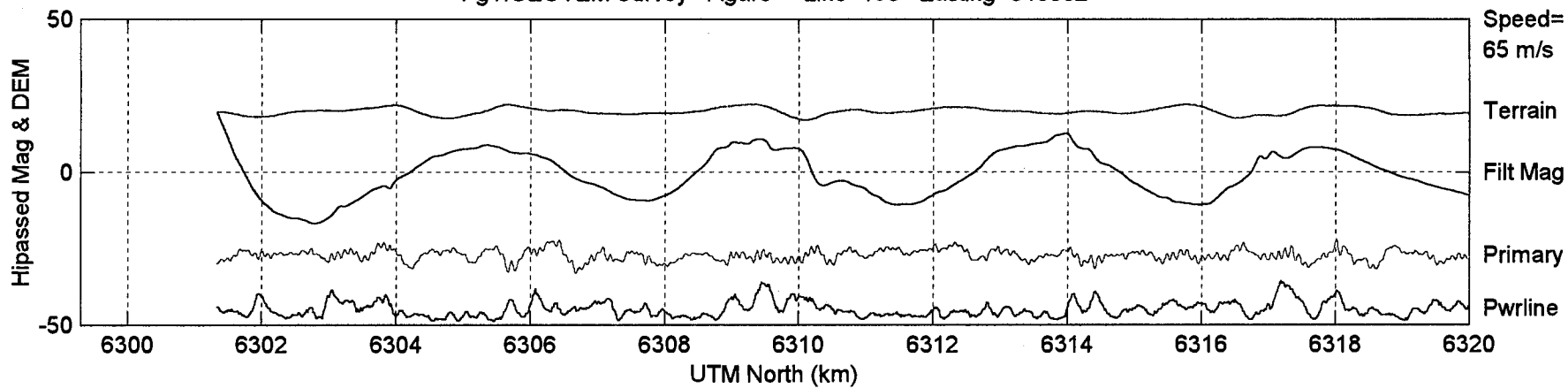


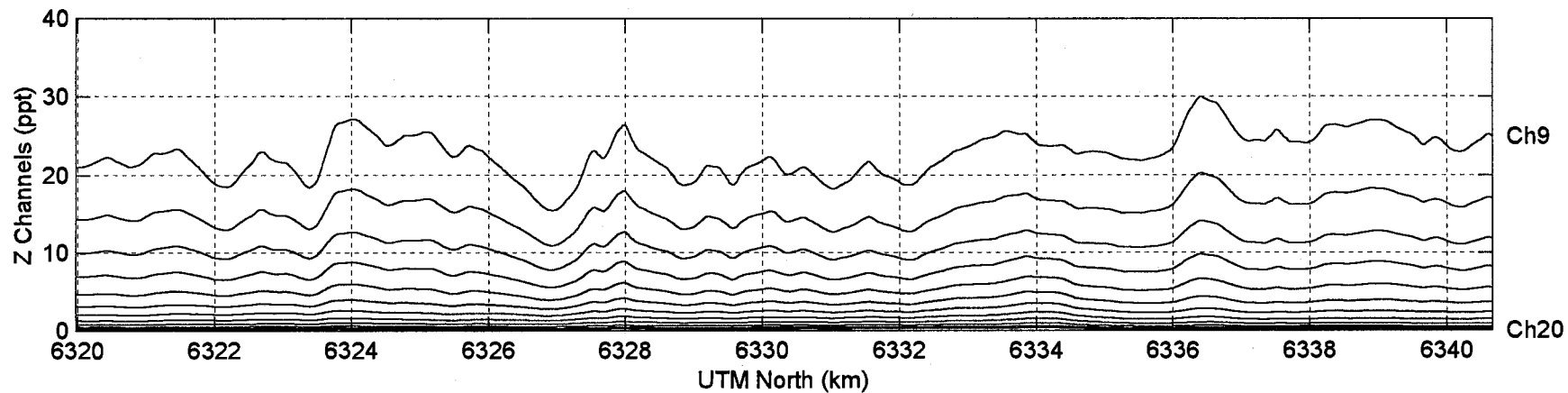
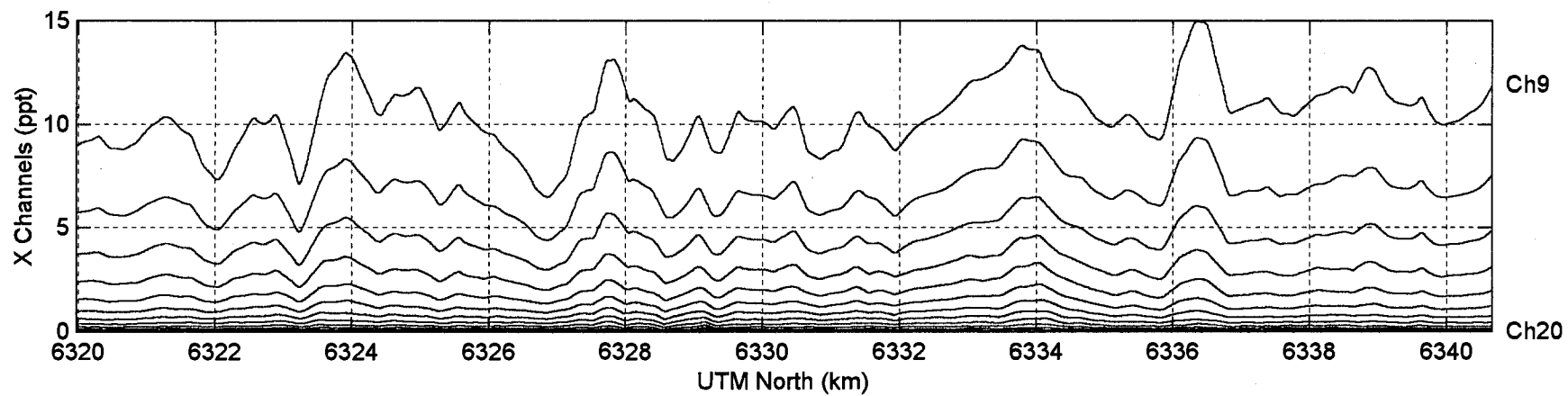
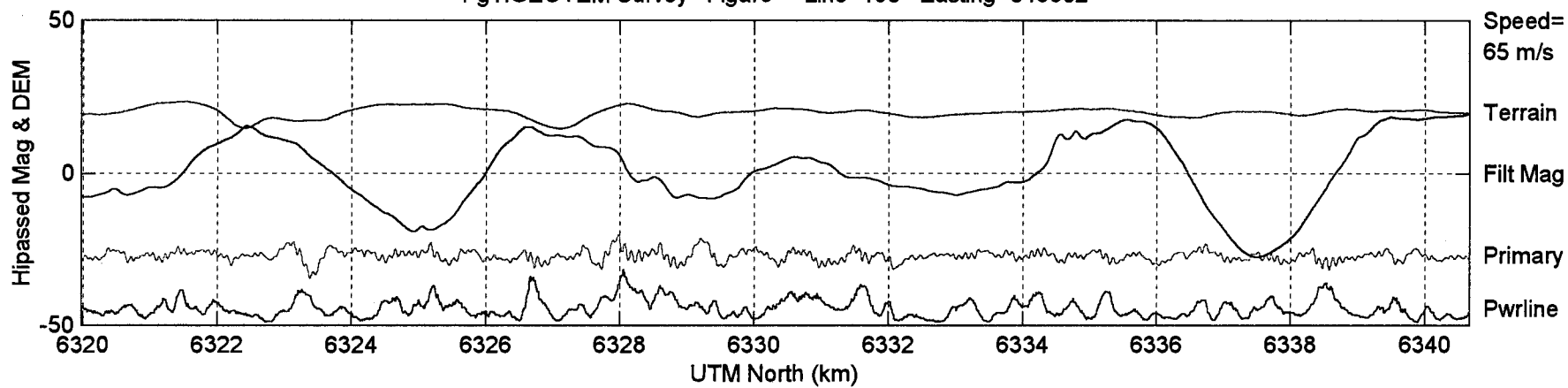


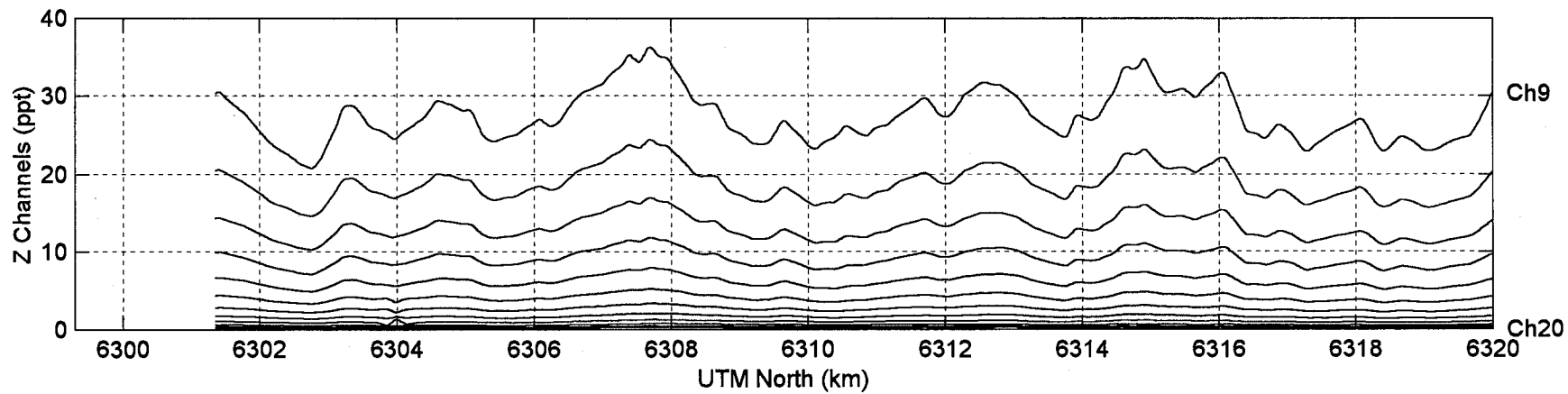
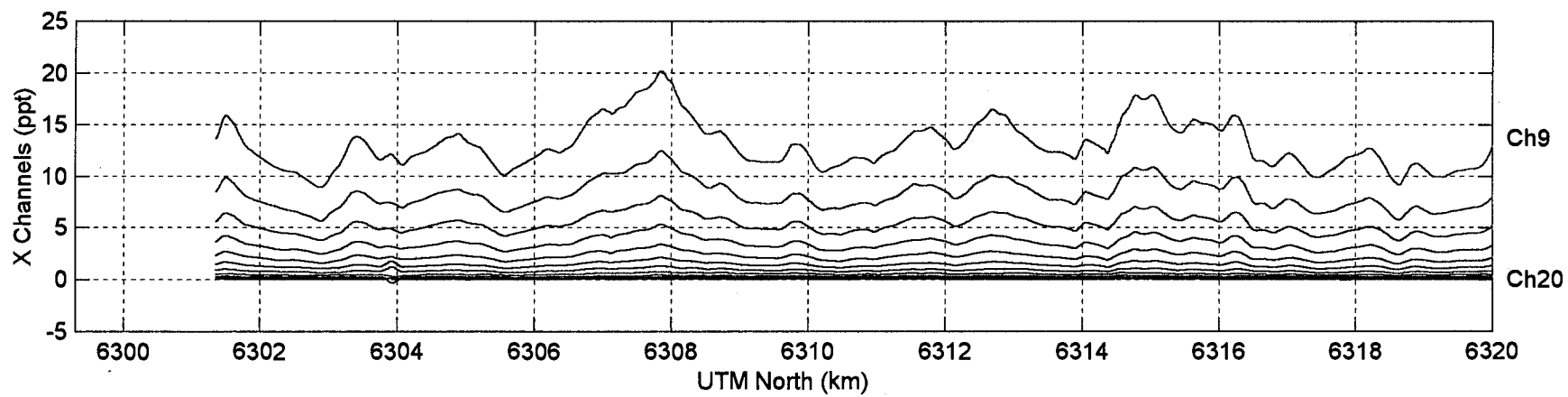
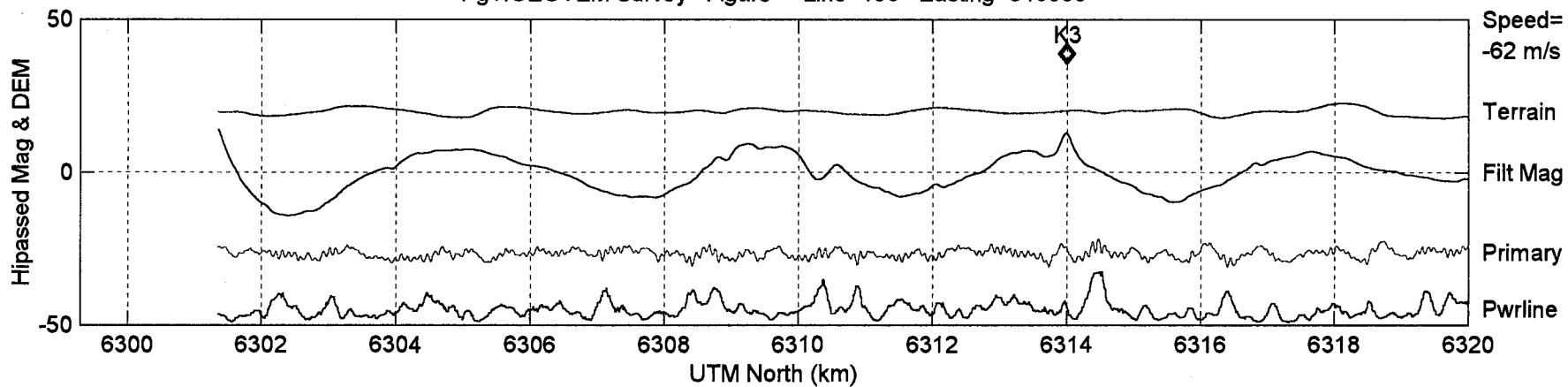


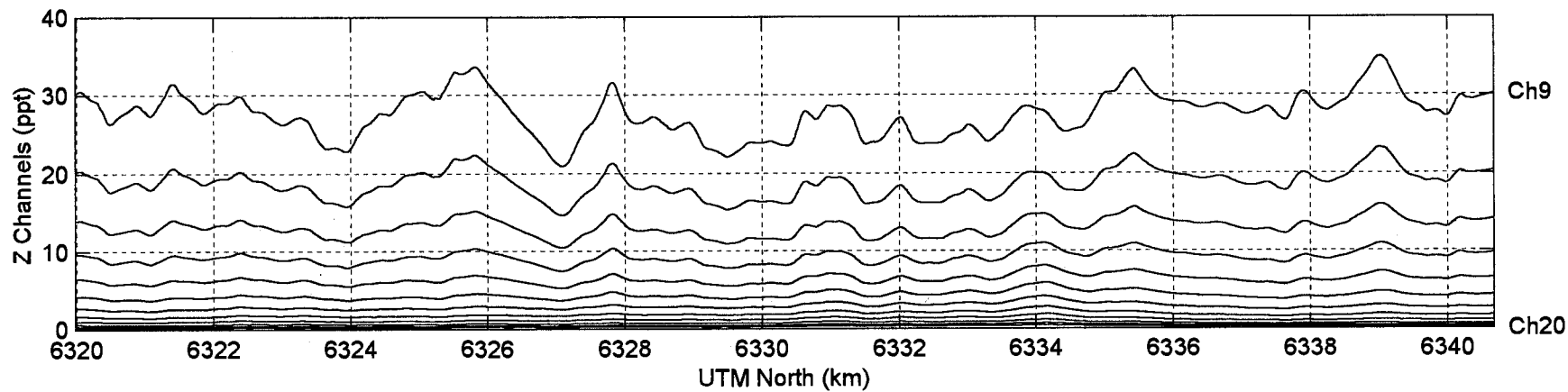
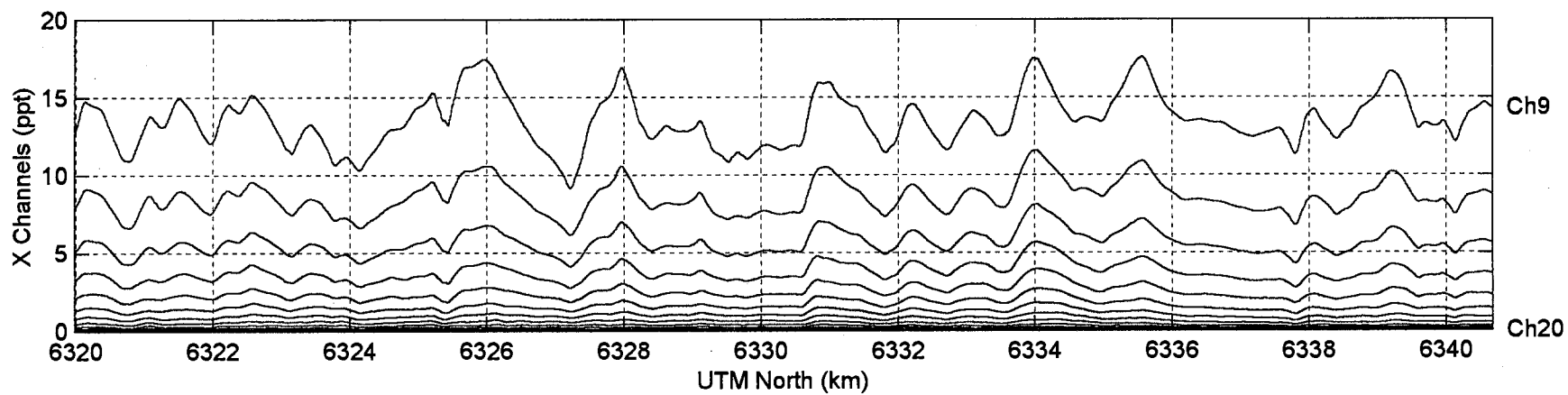
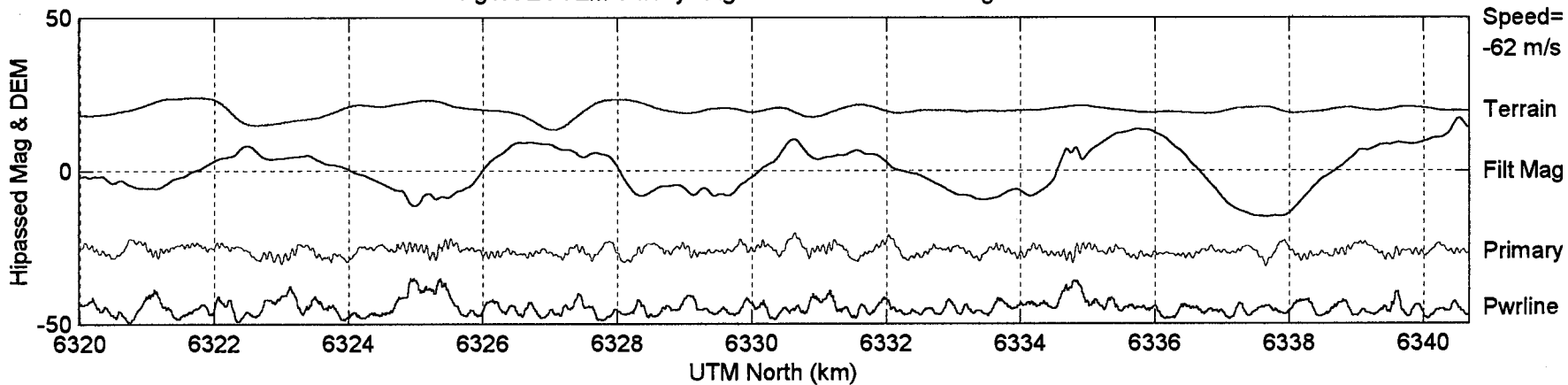


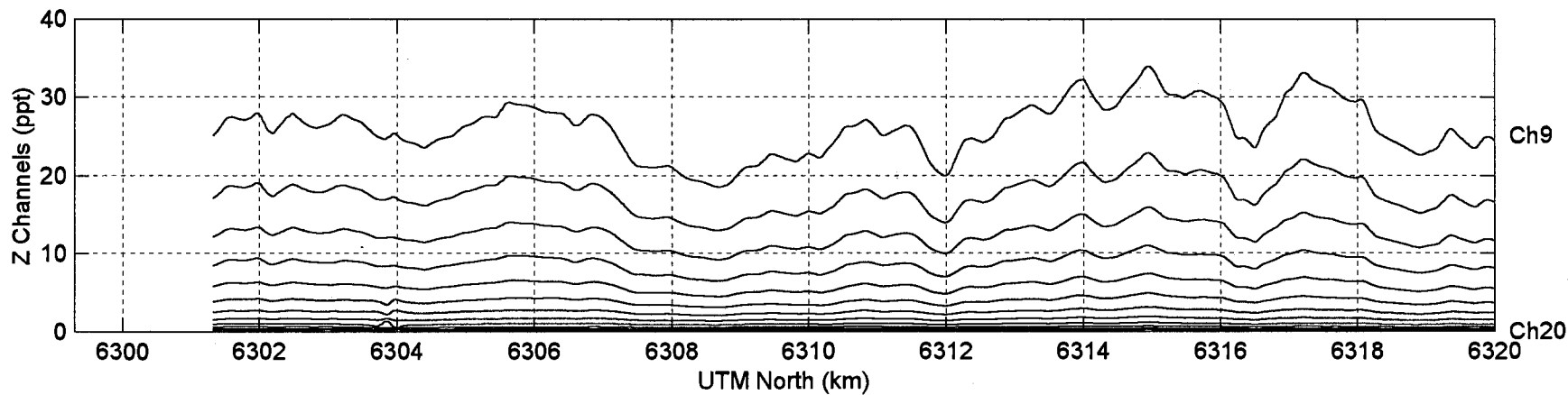
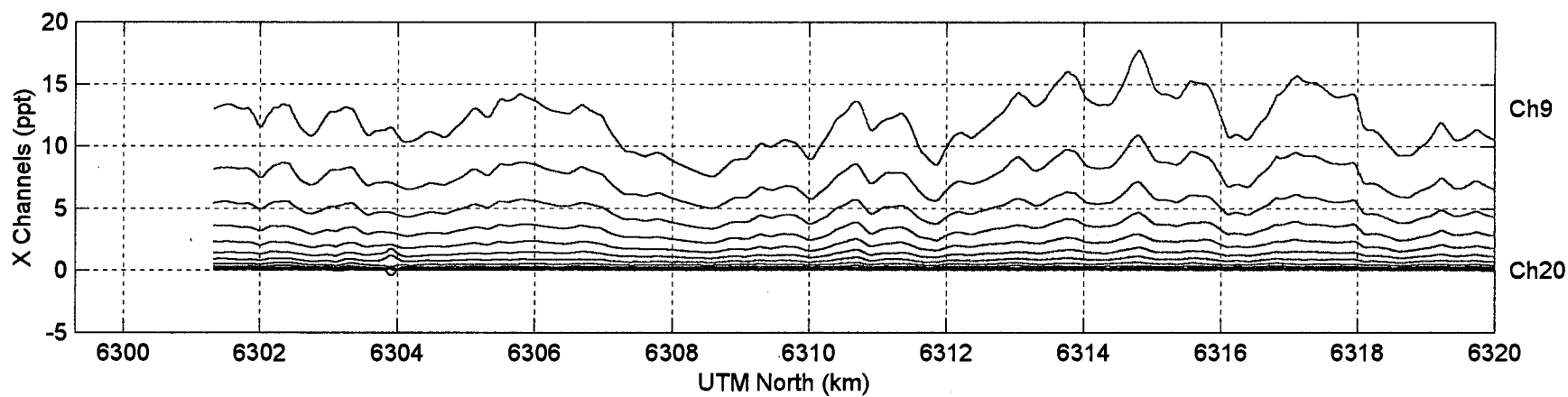
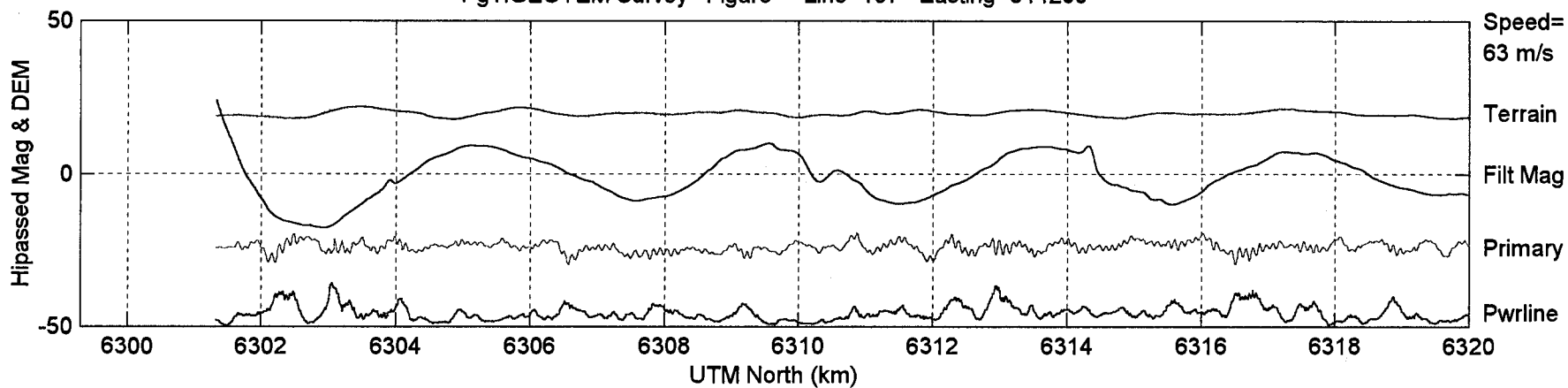


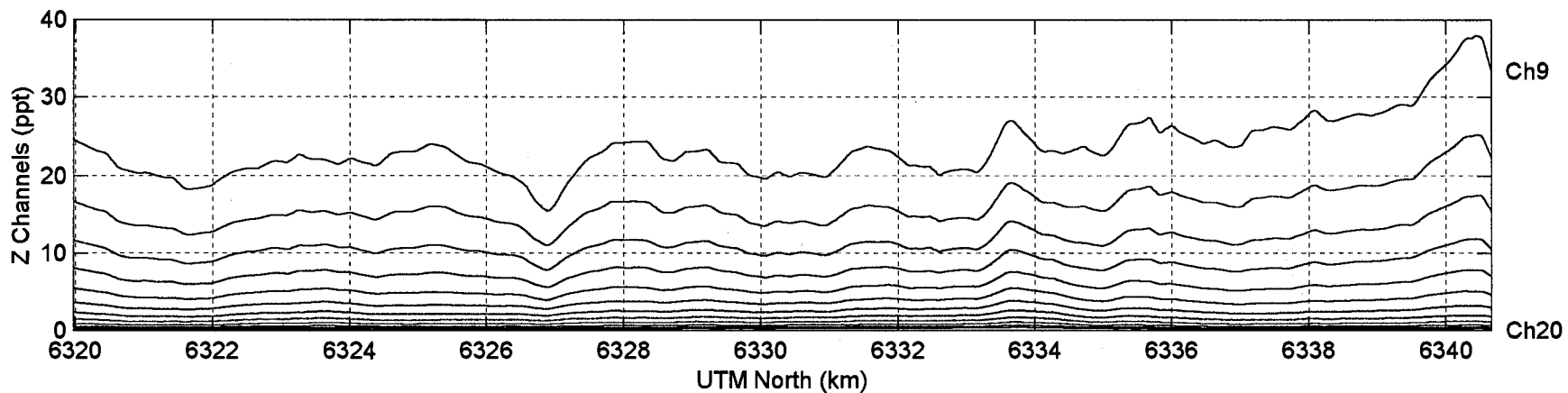
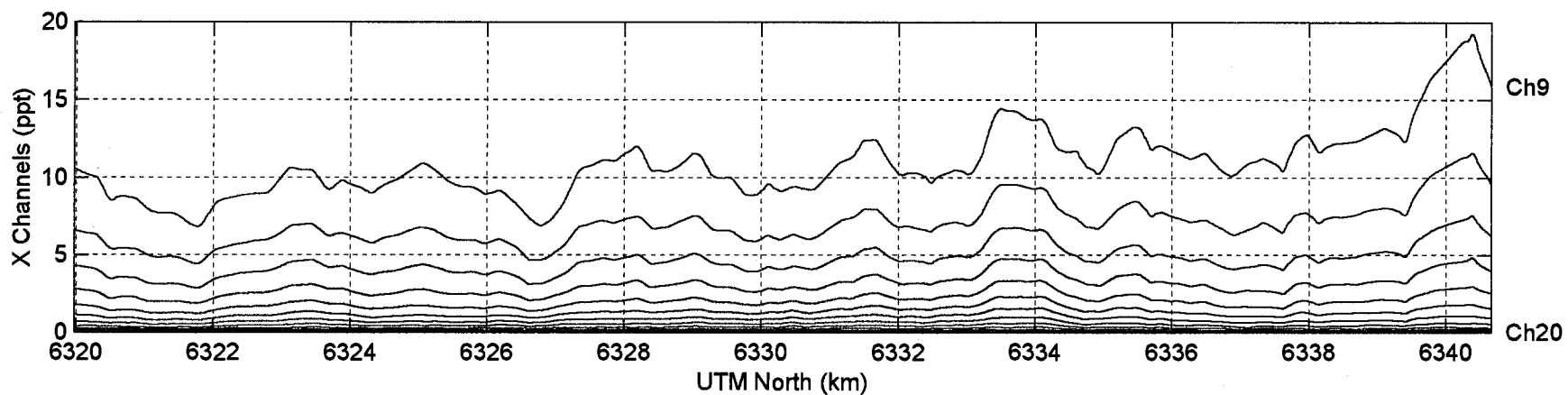
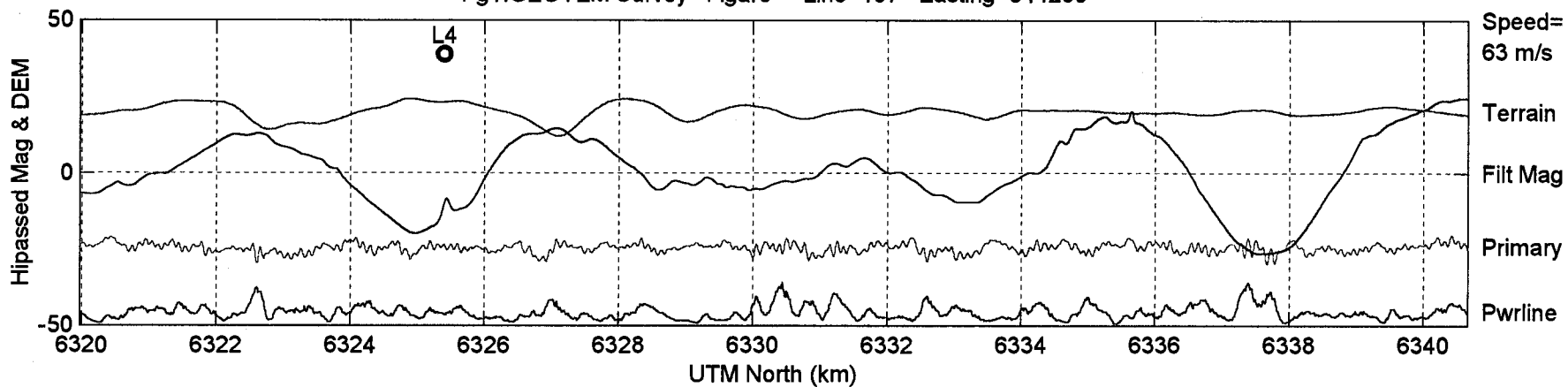


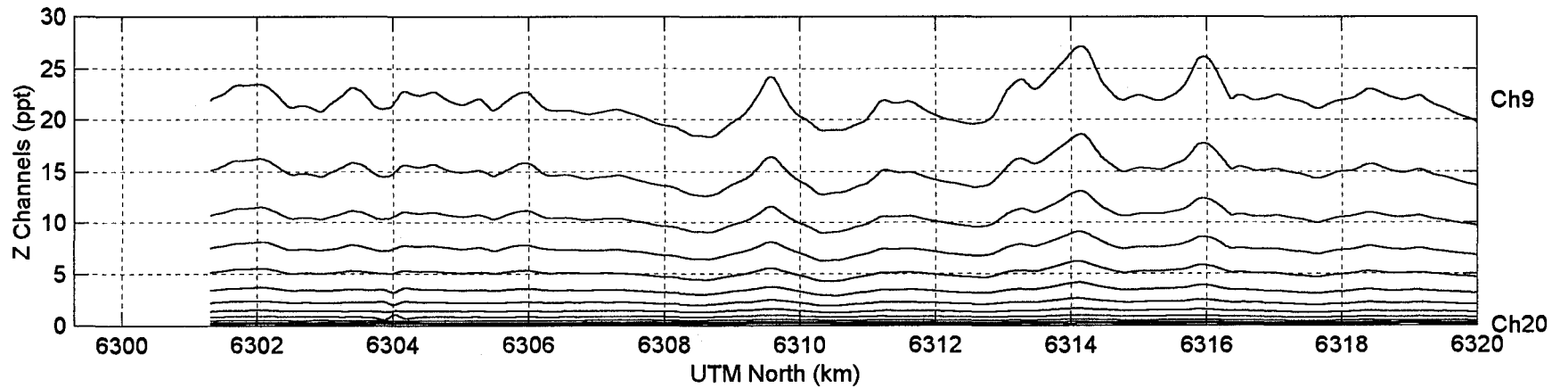
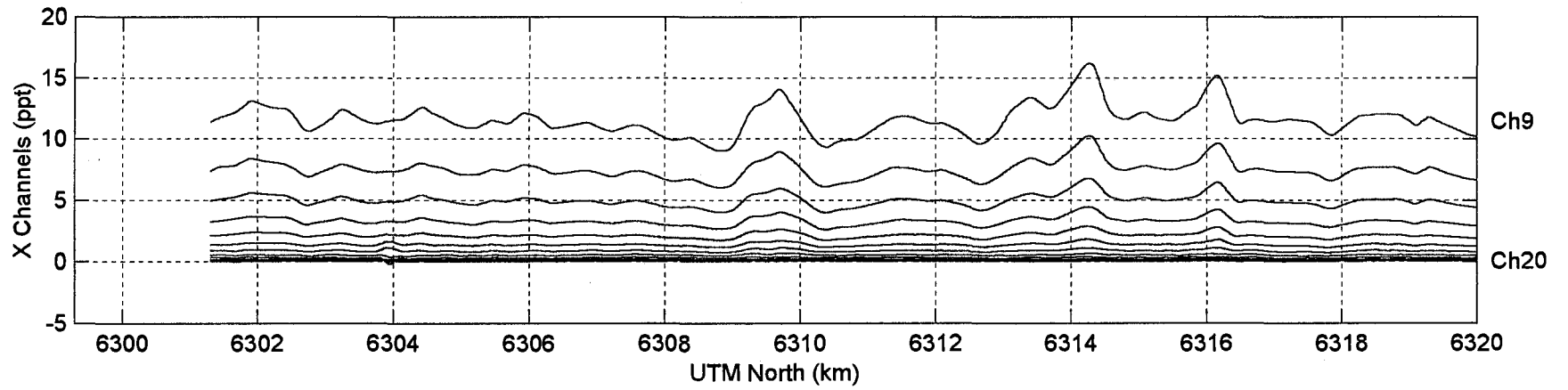
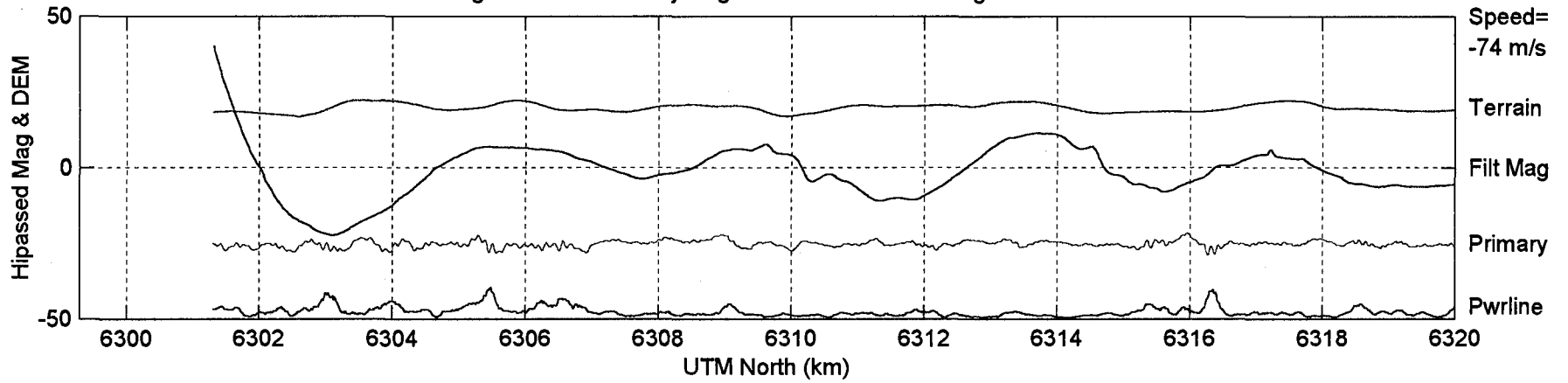


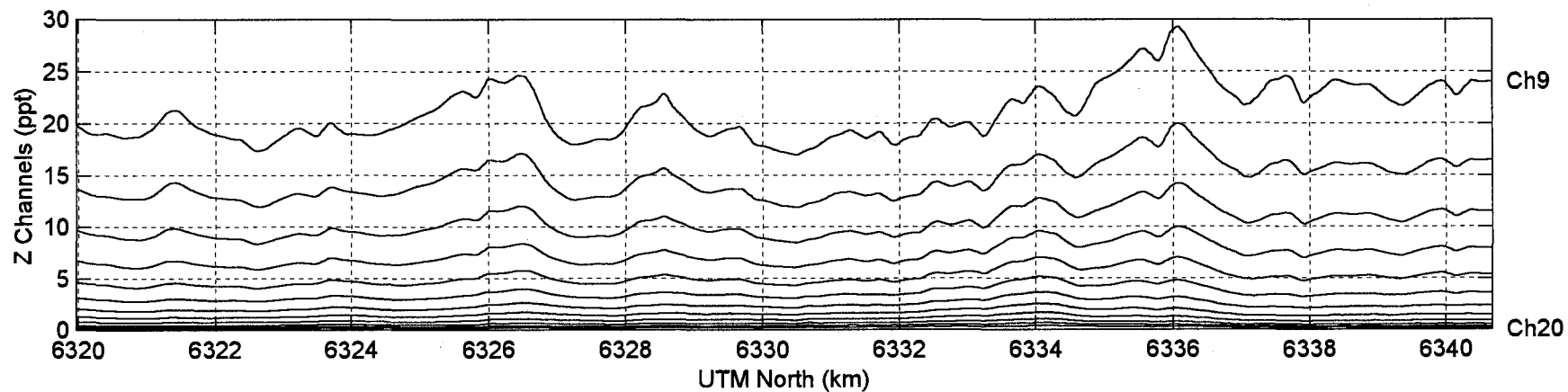
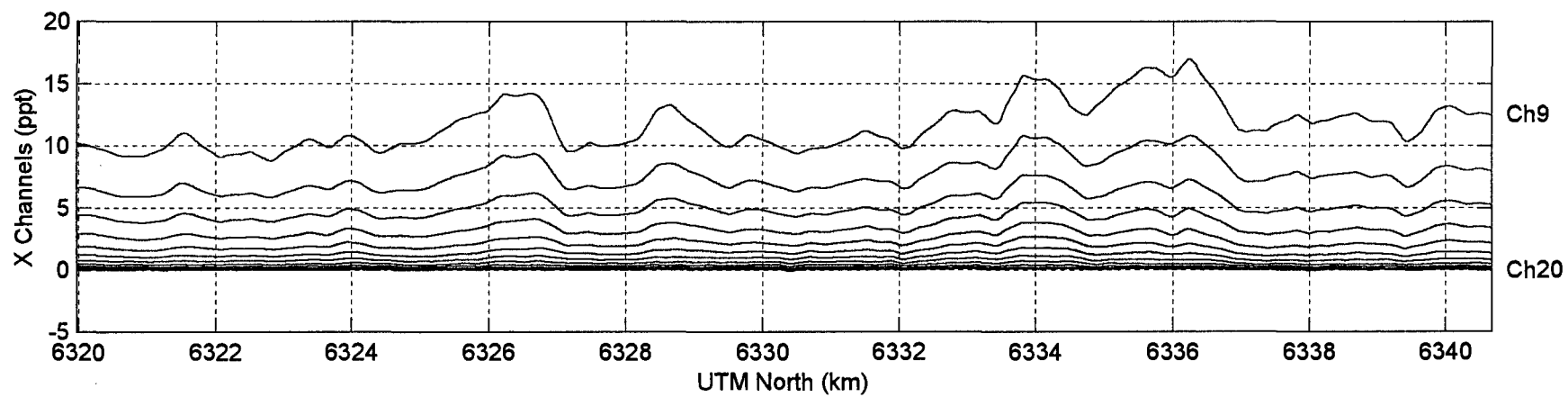
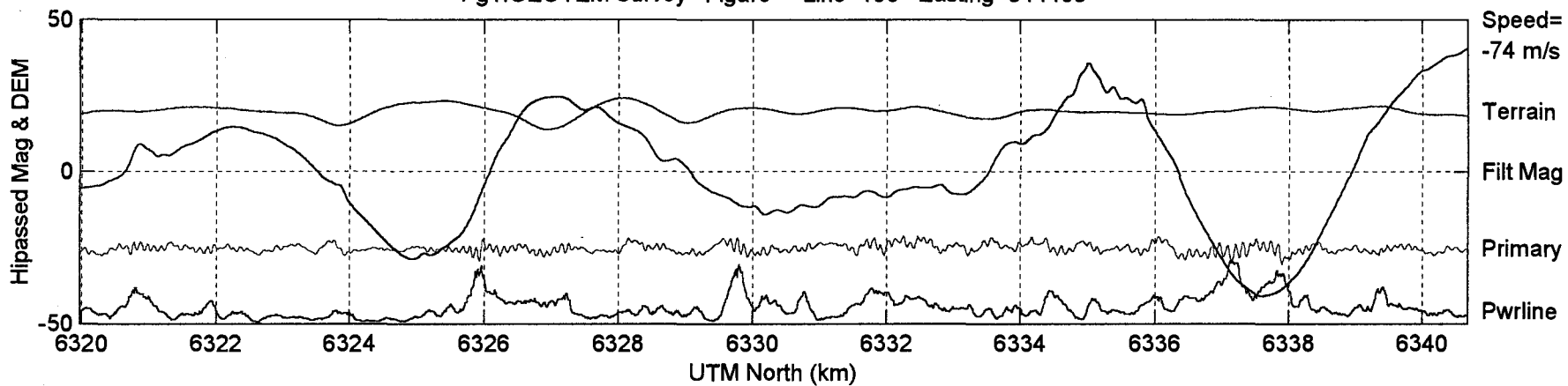


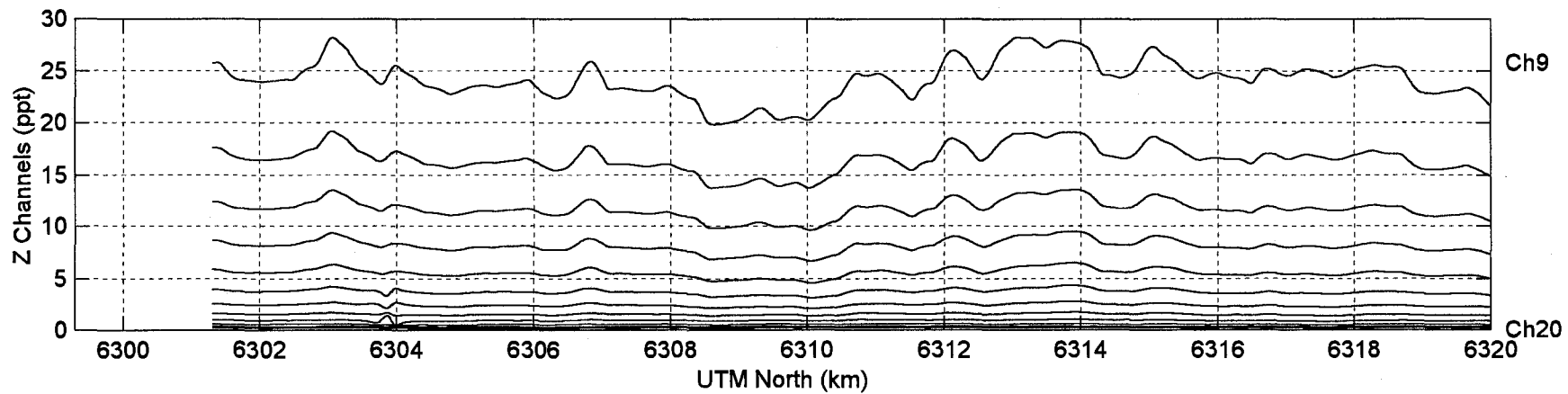
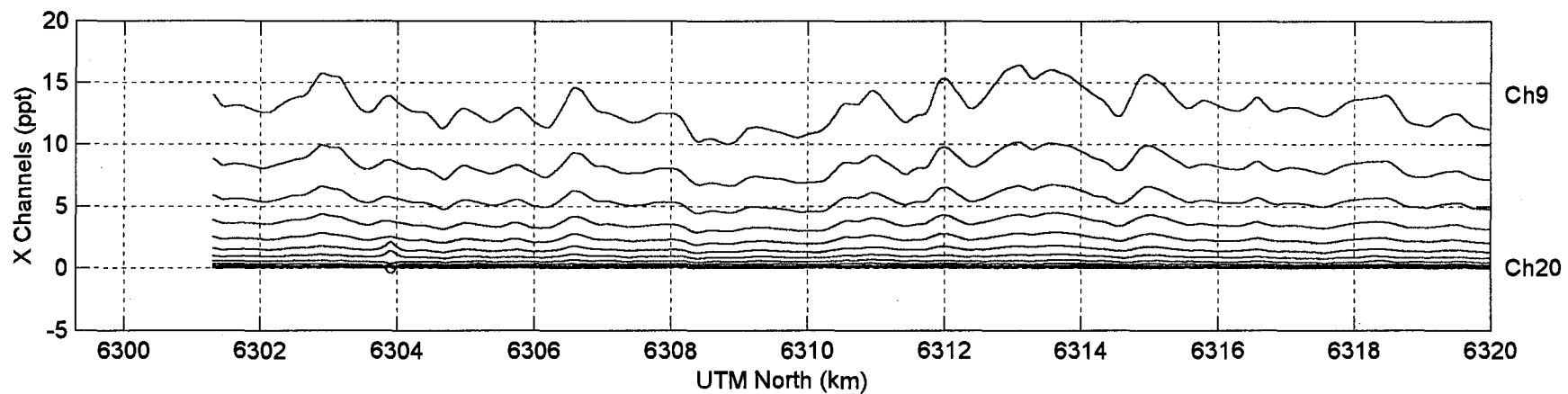
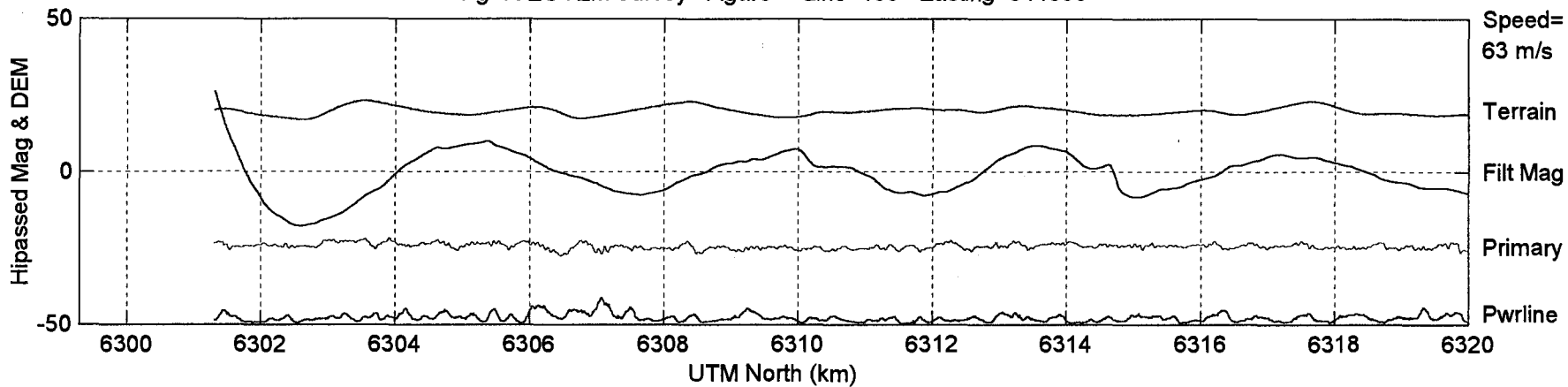


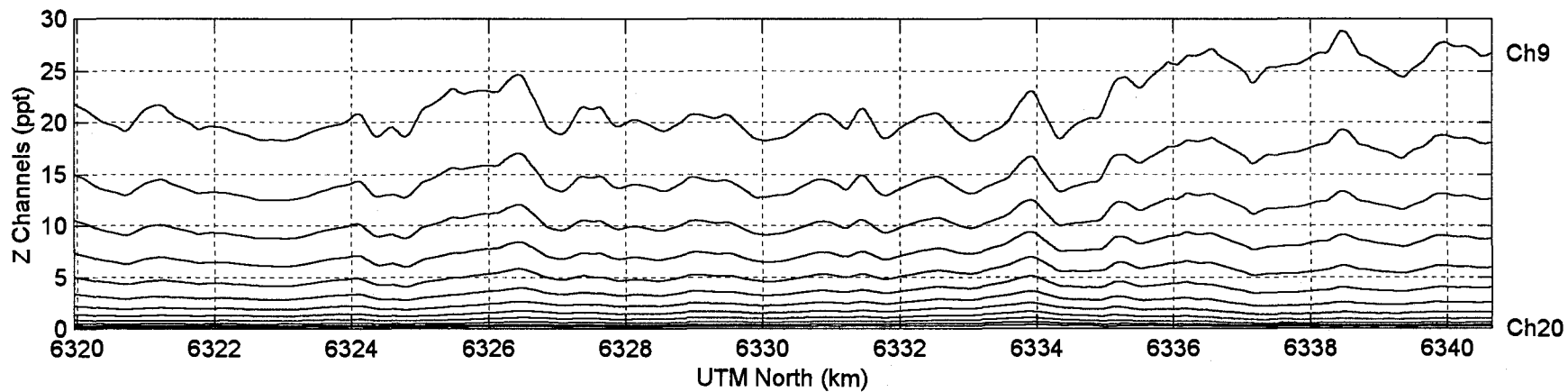
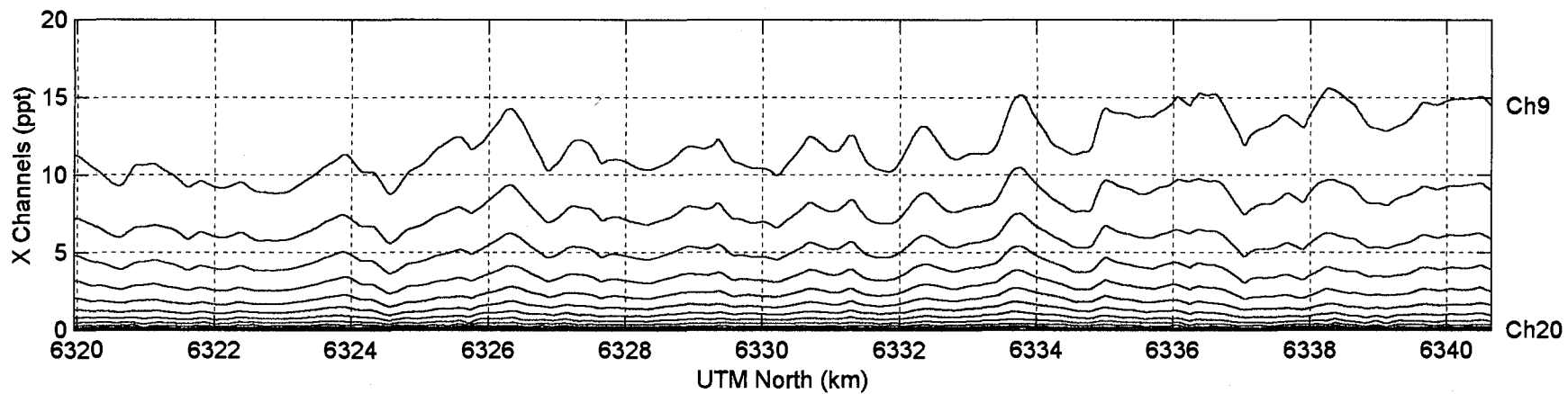
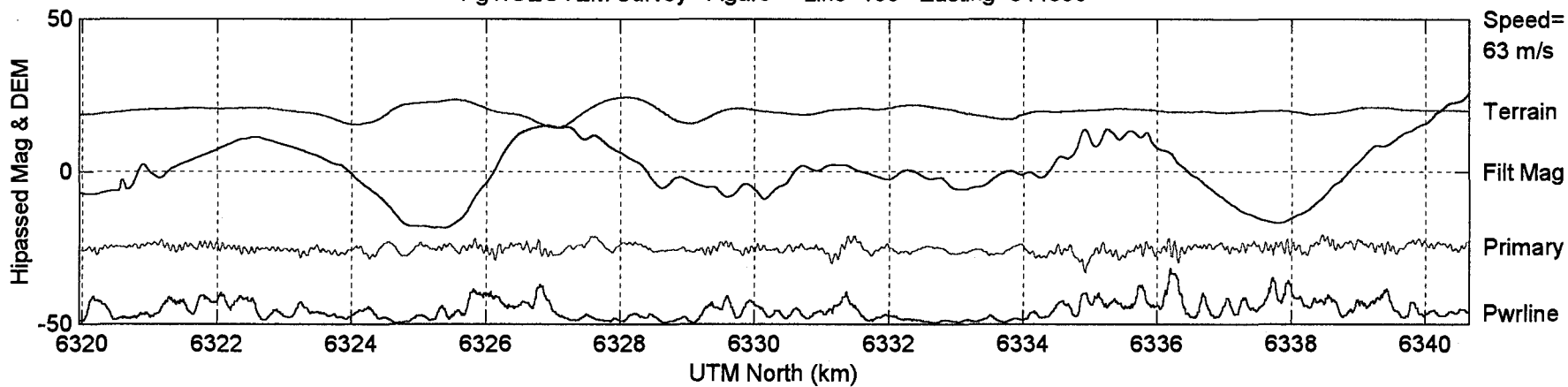


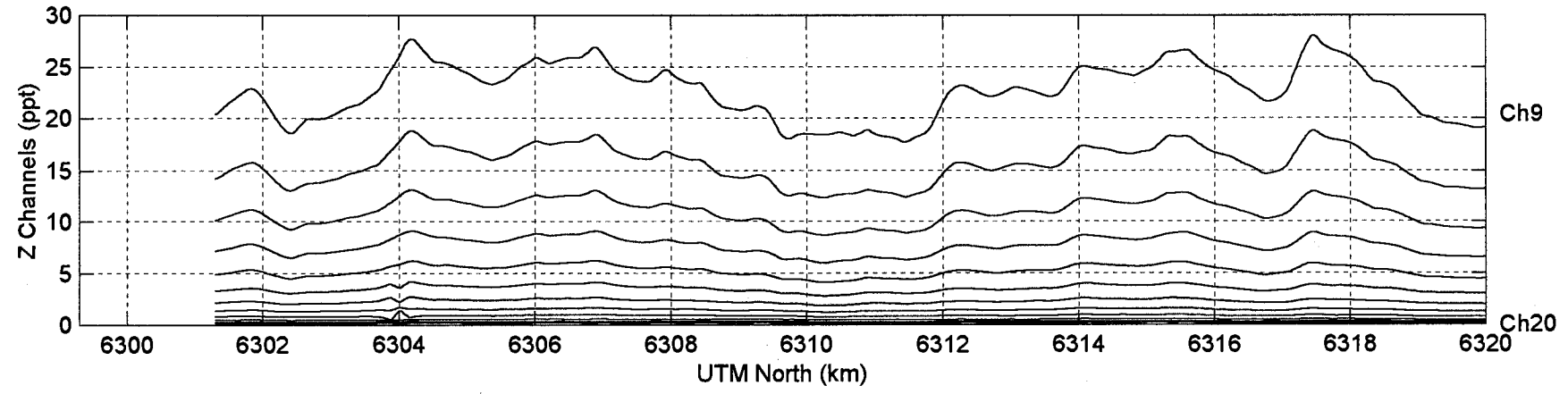
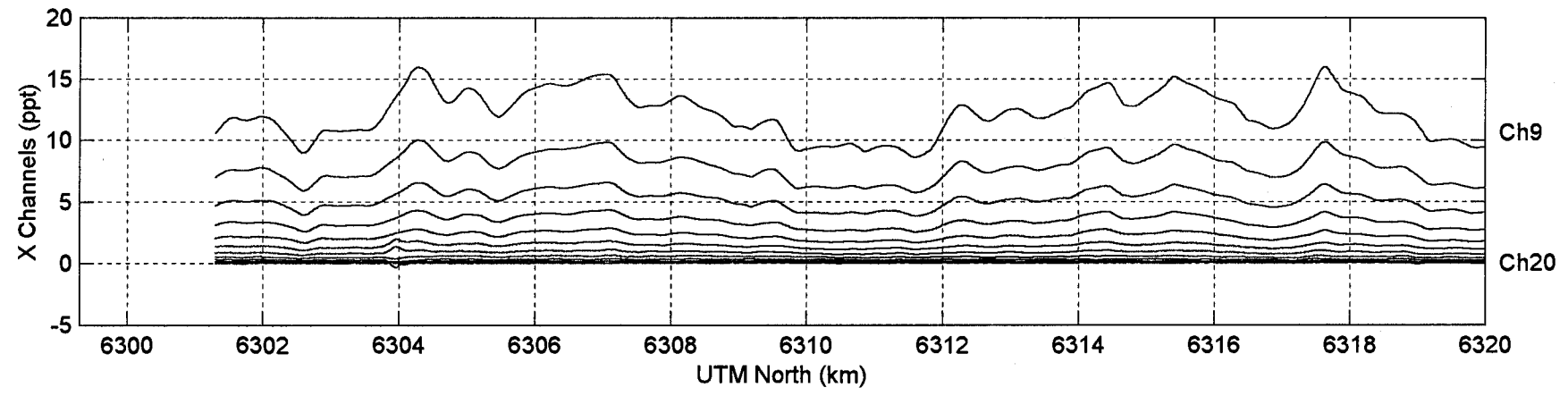
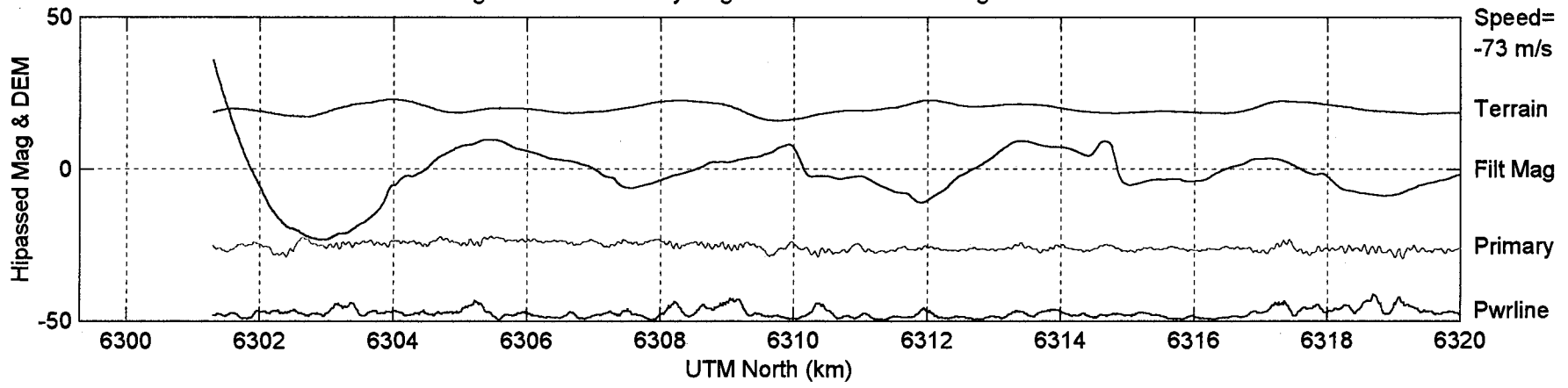


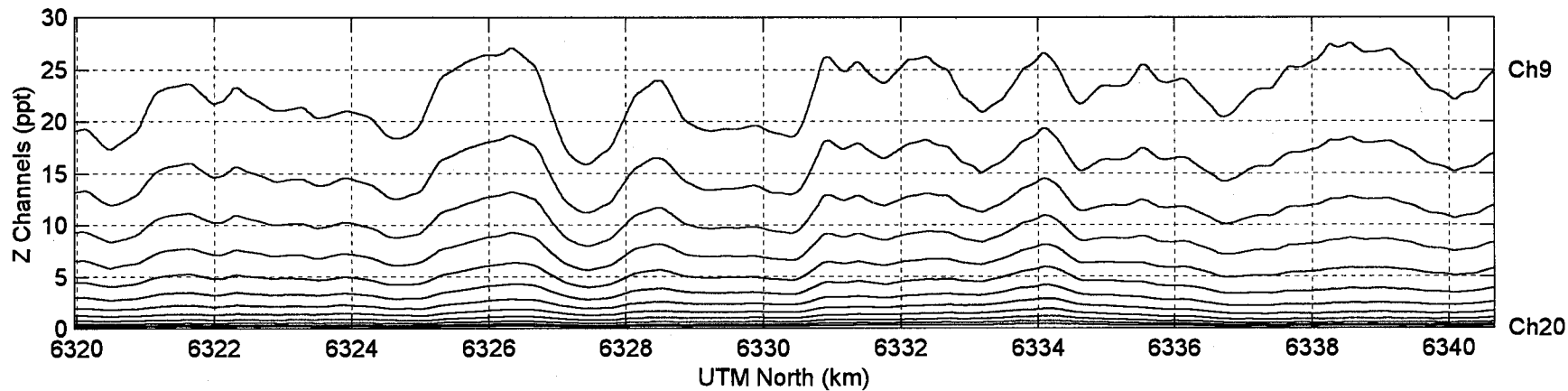
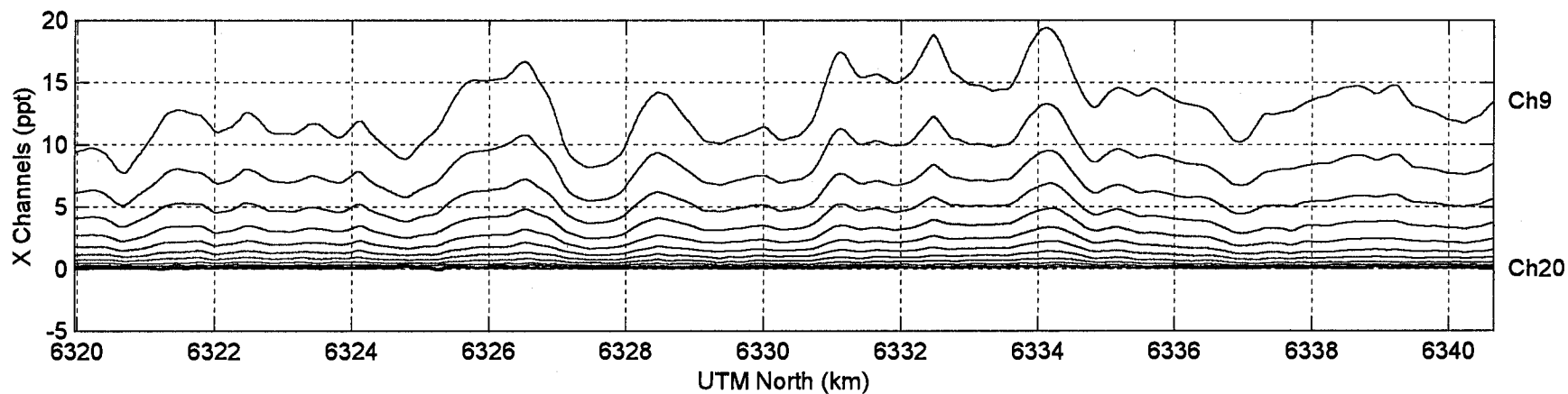
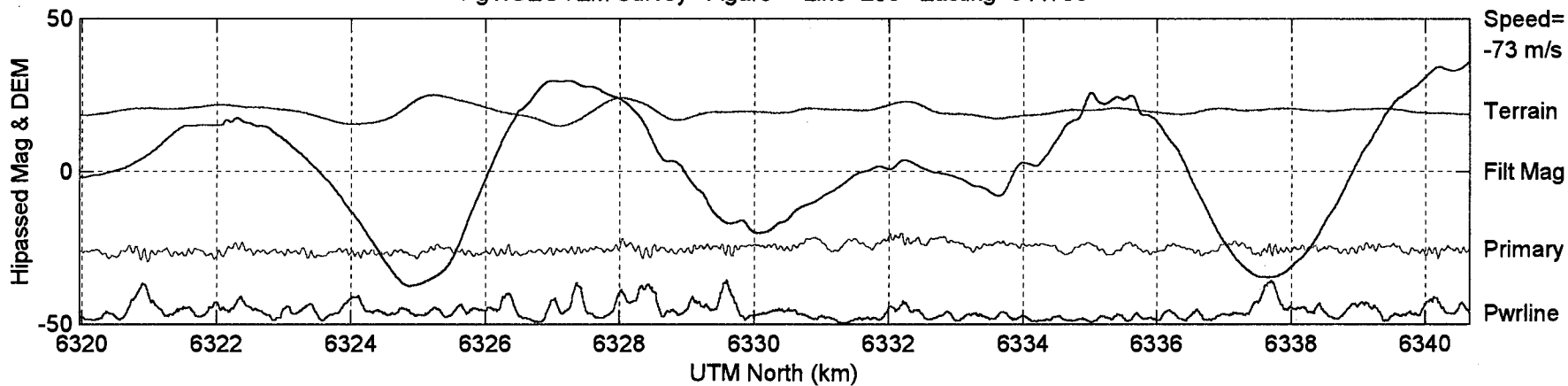


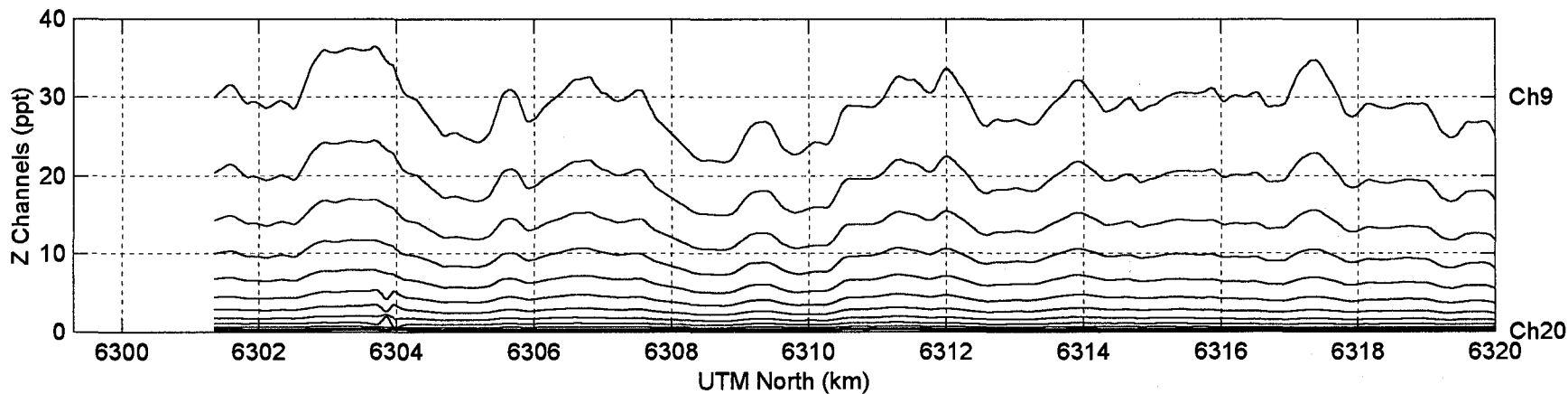
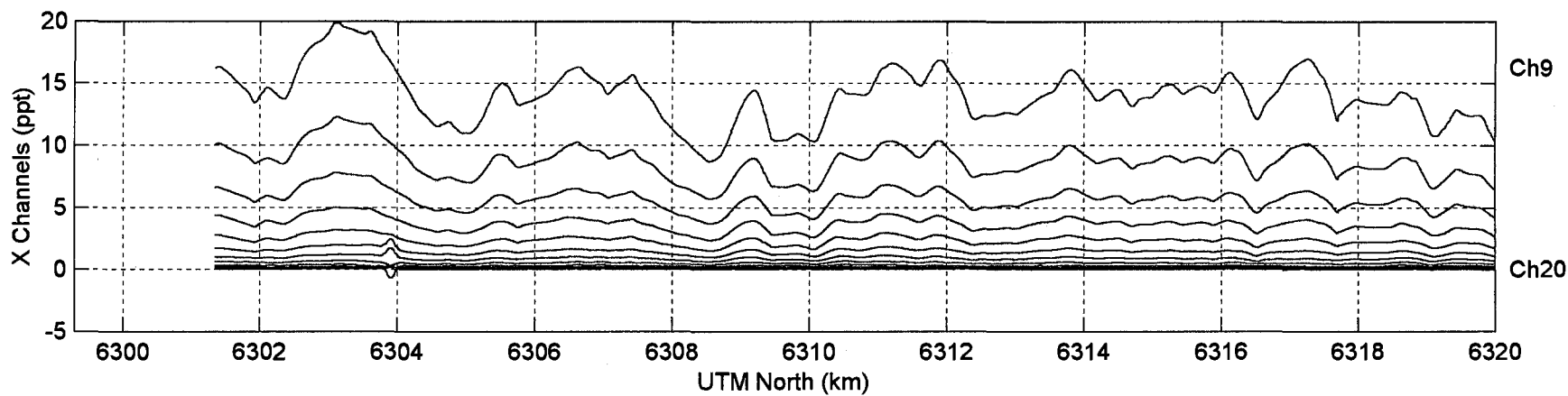
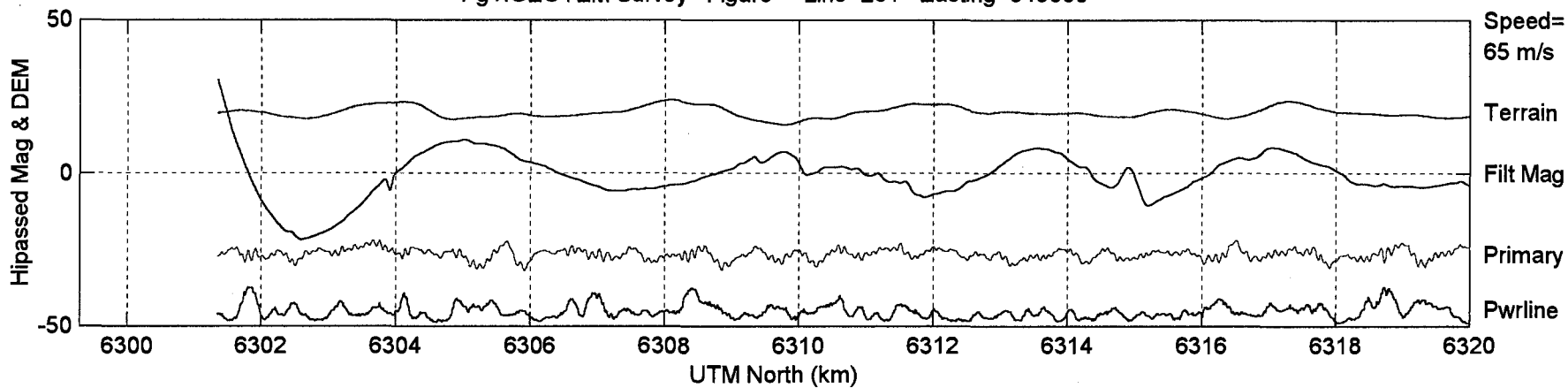


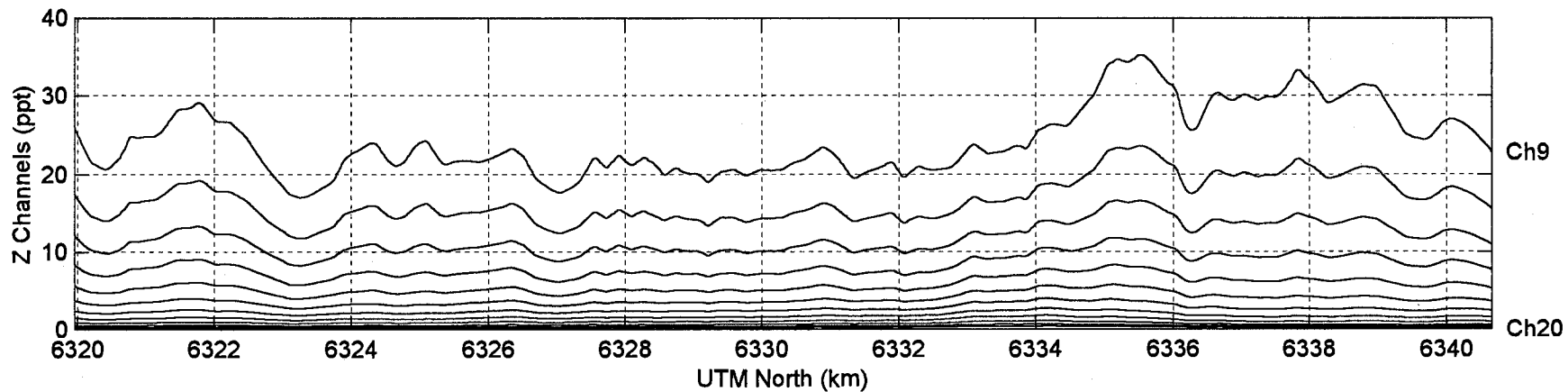
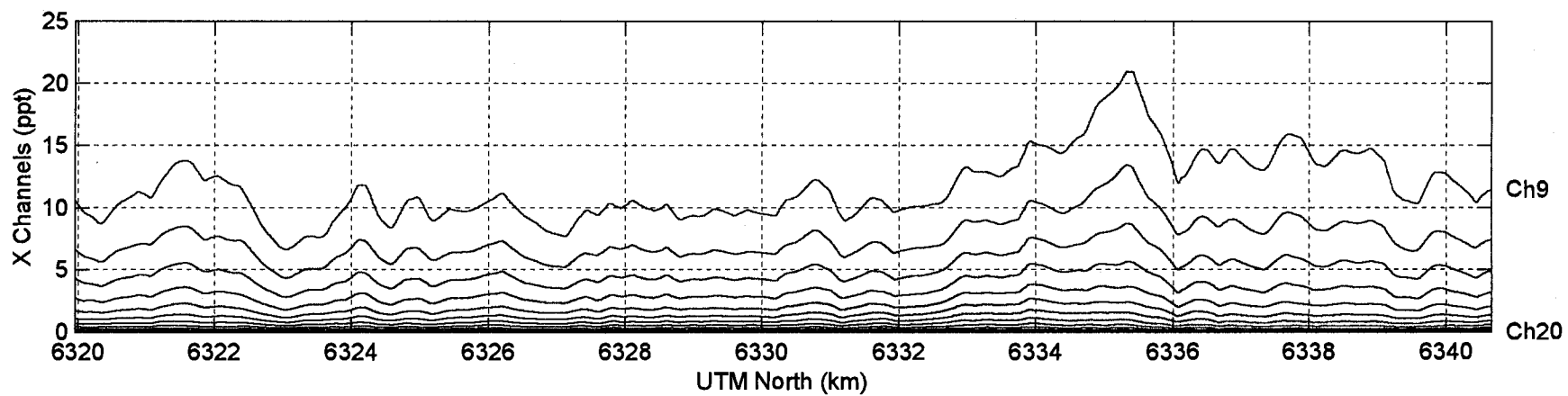
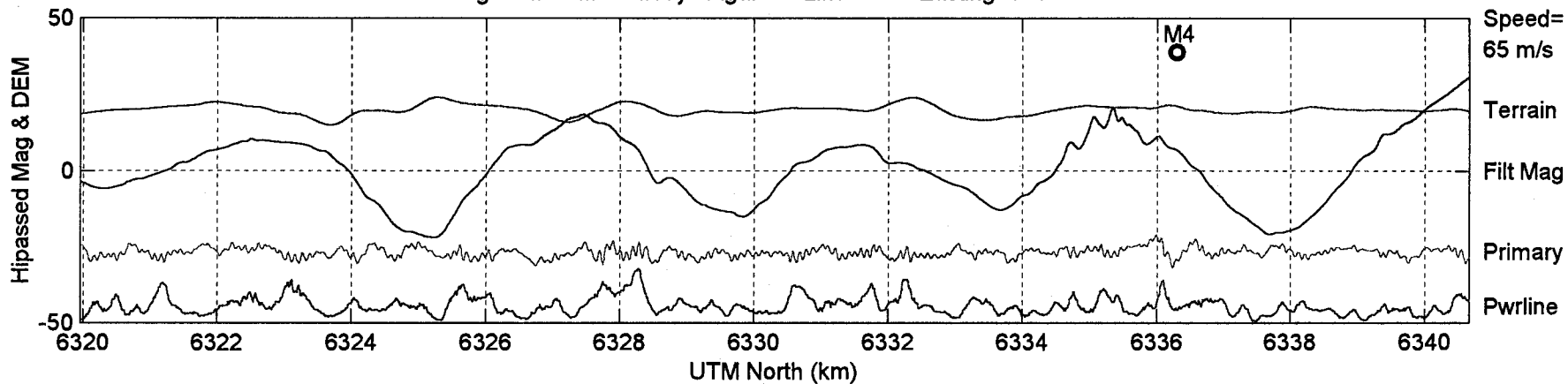


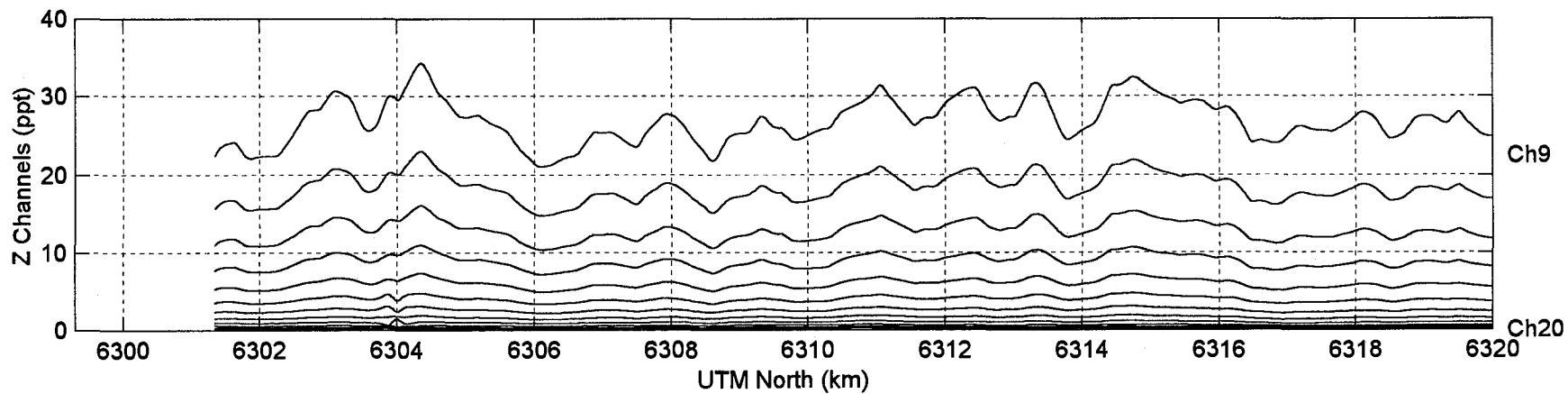
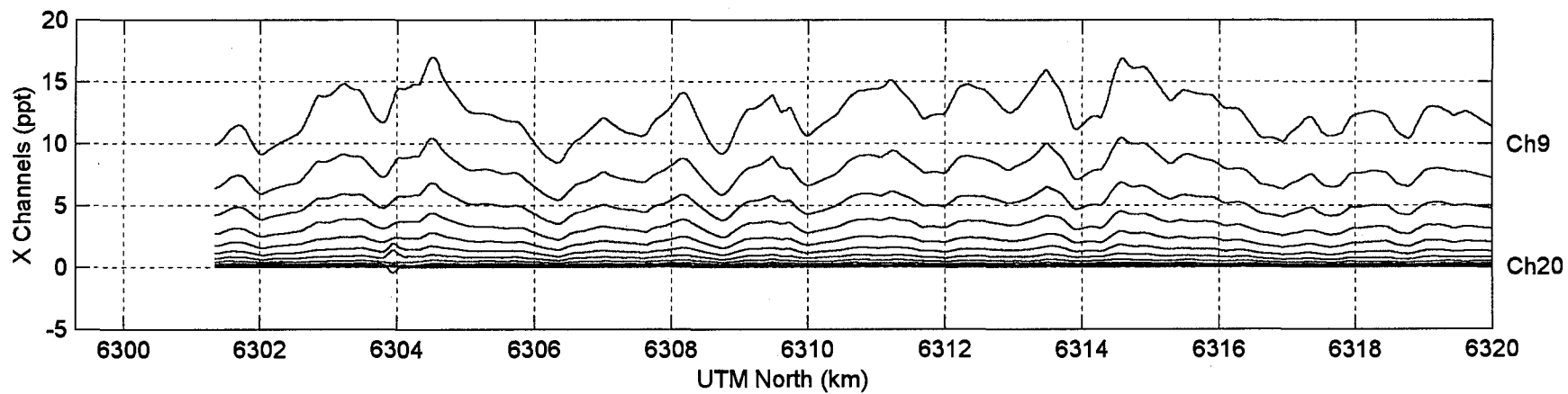
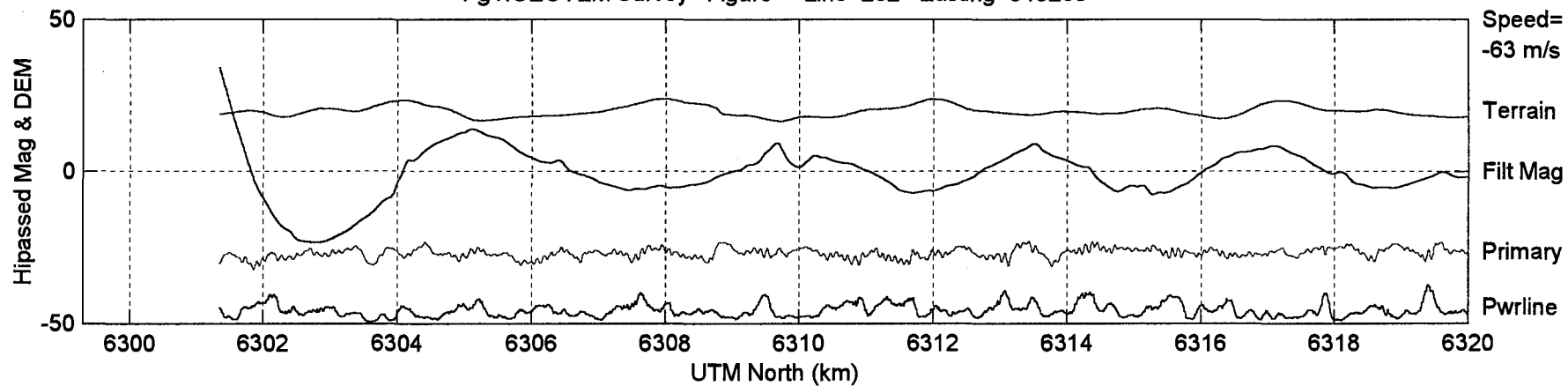




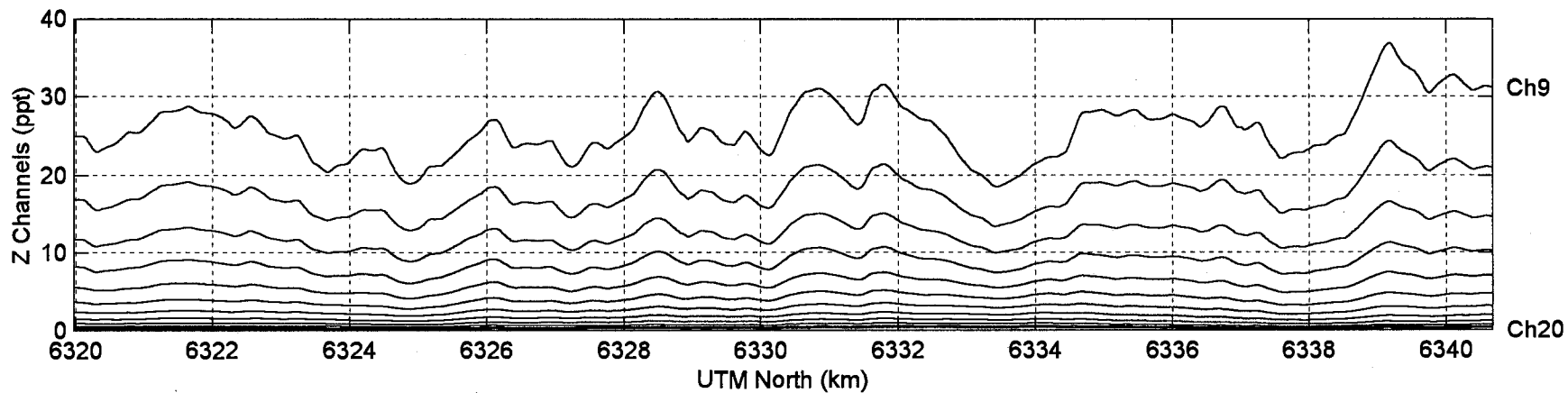
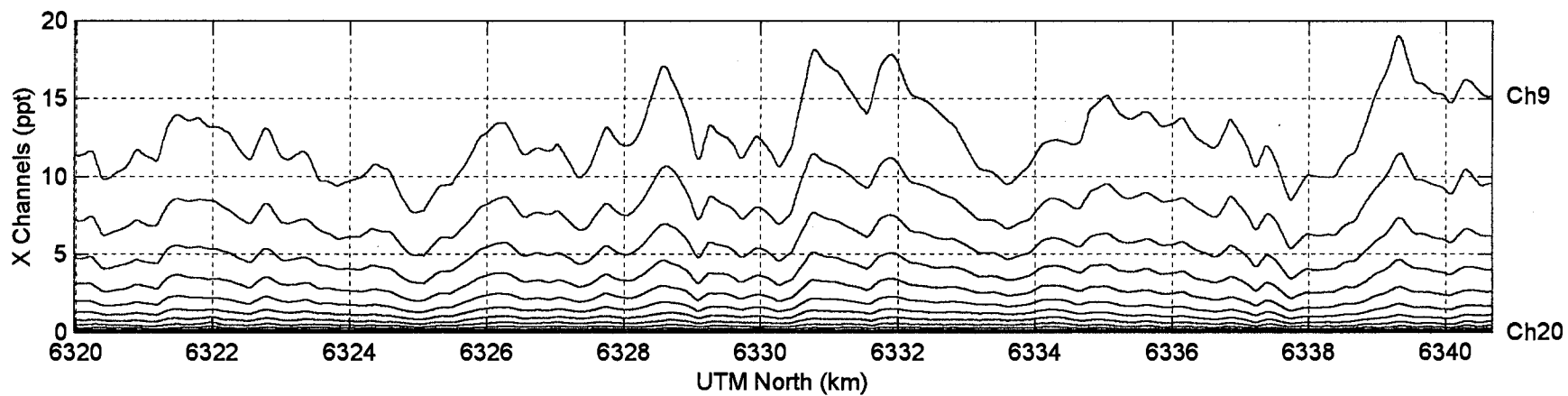
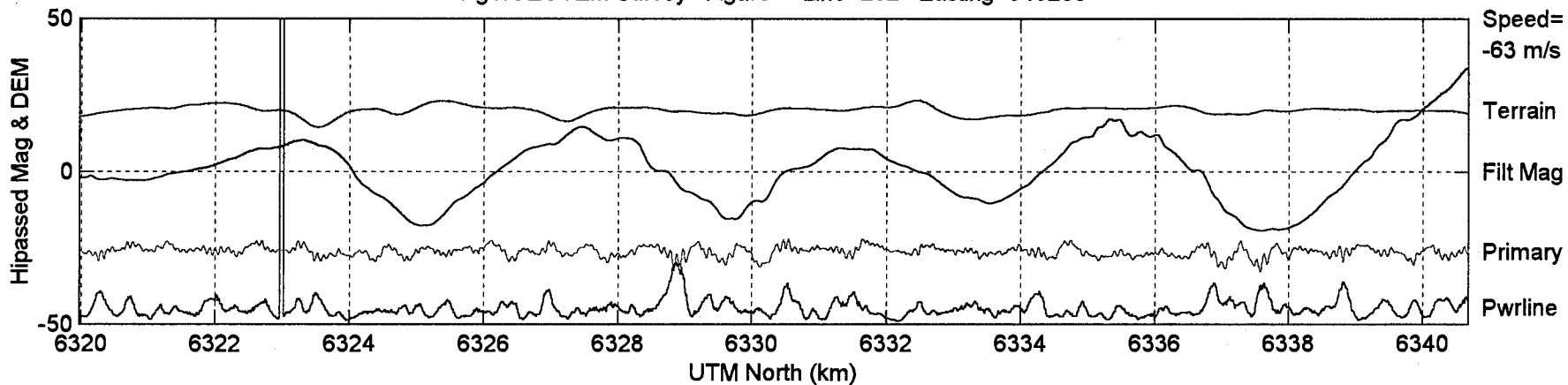


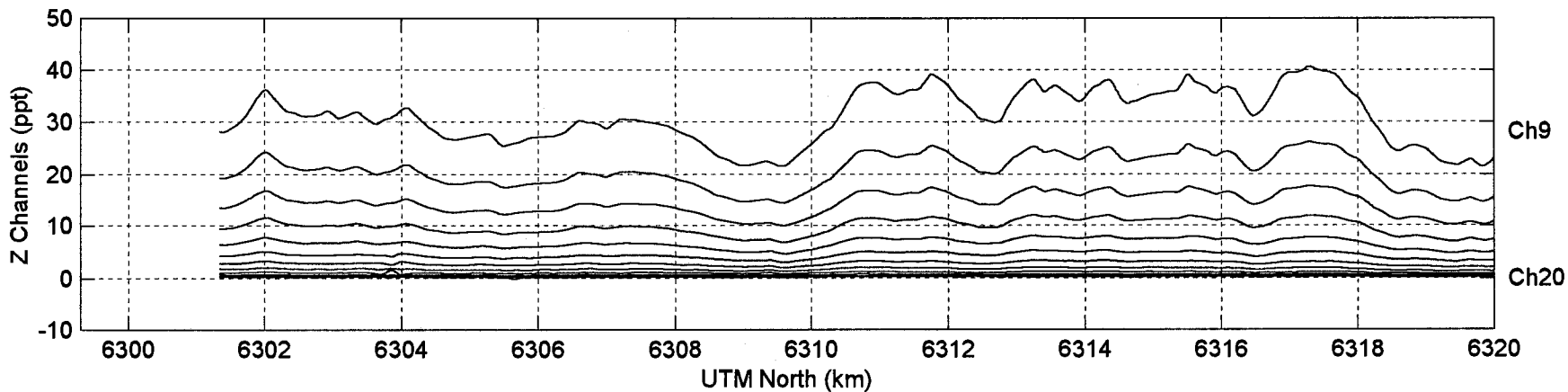
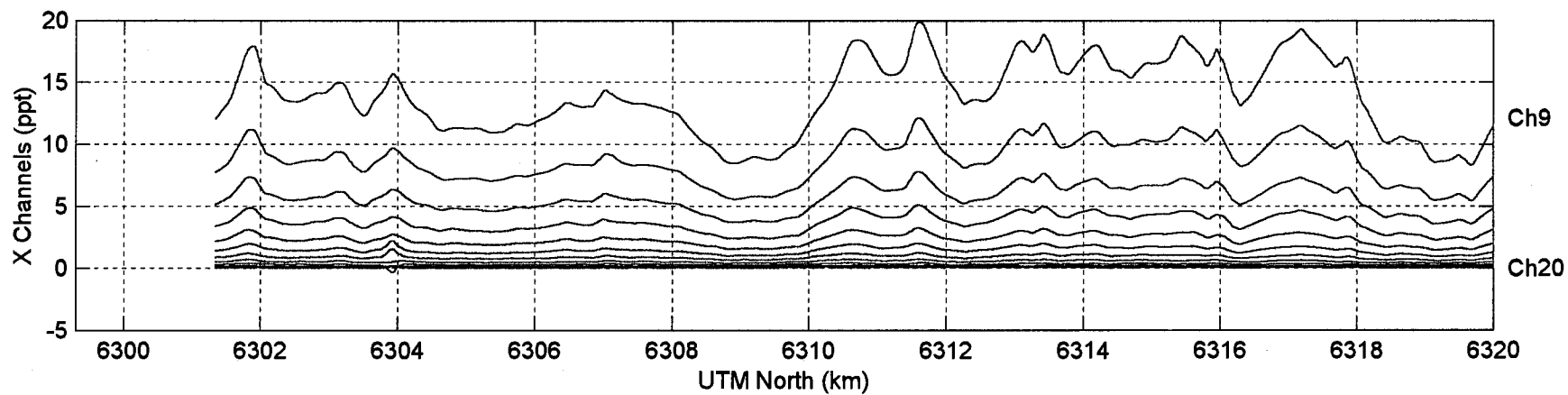
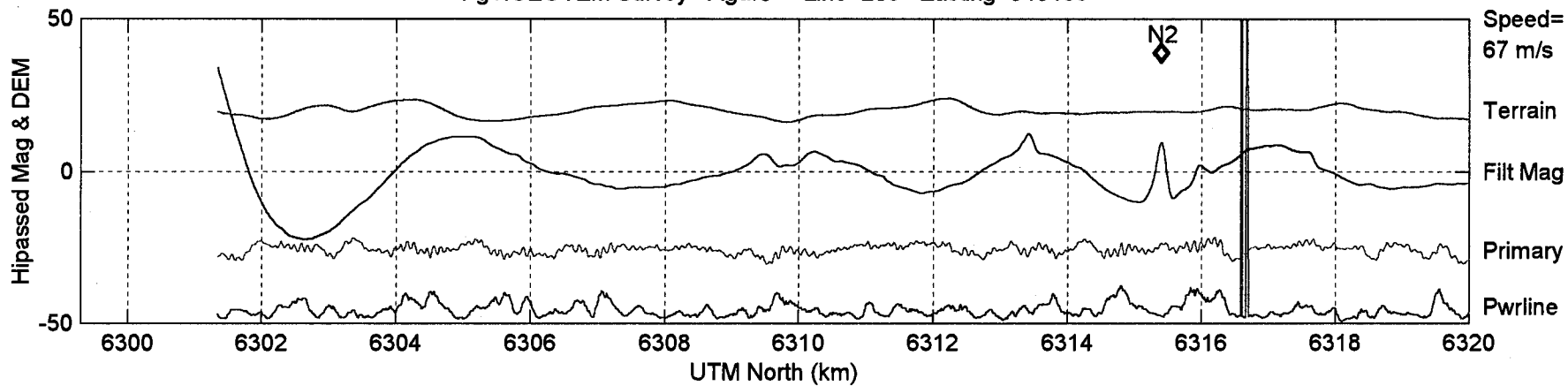


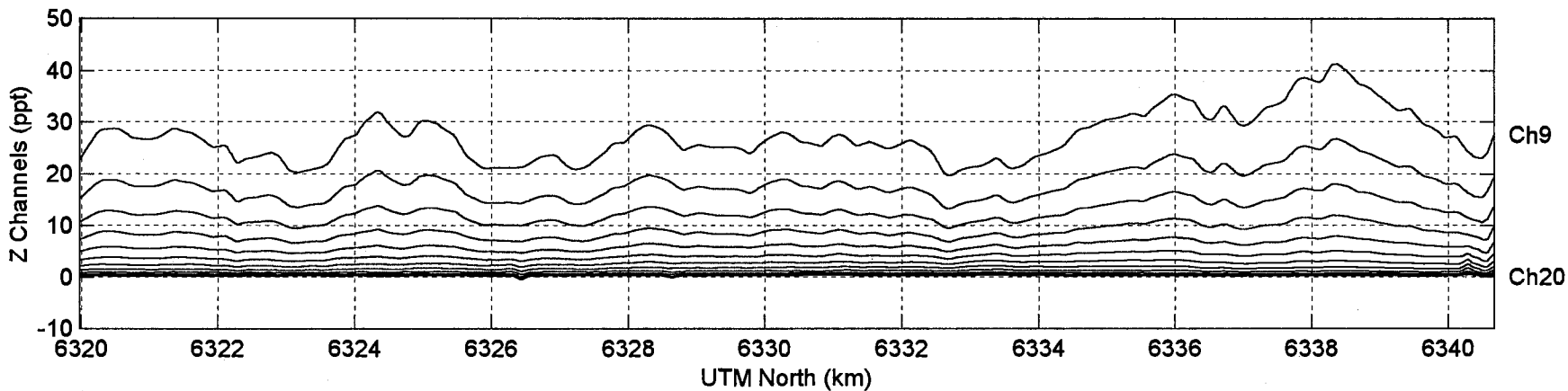
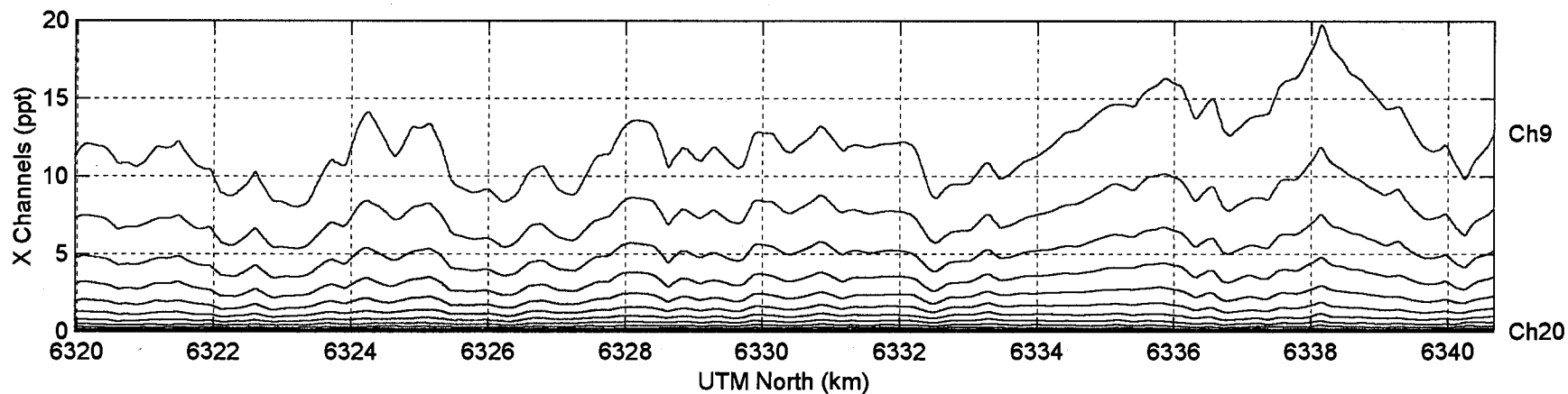
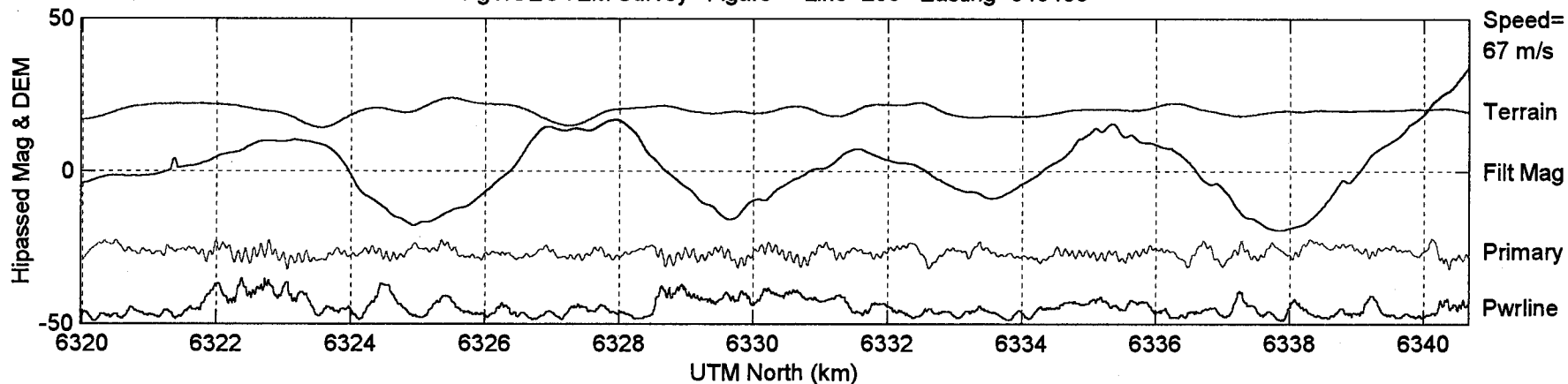




Pg1:GEOTEM Survey Figaro Line=202 Easting=545200



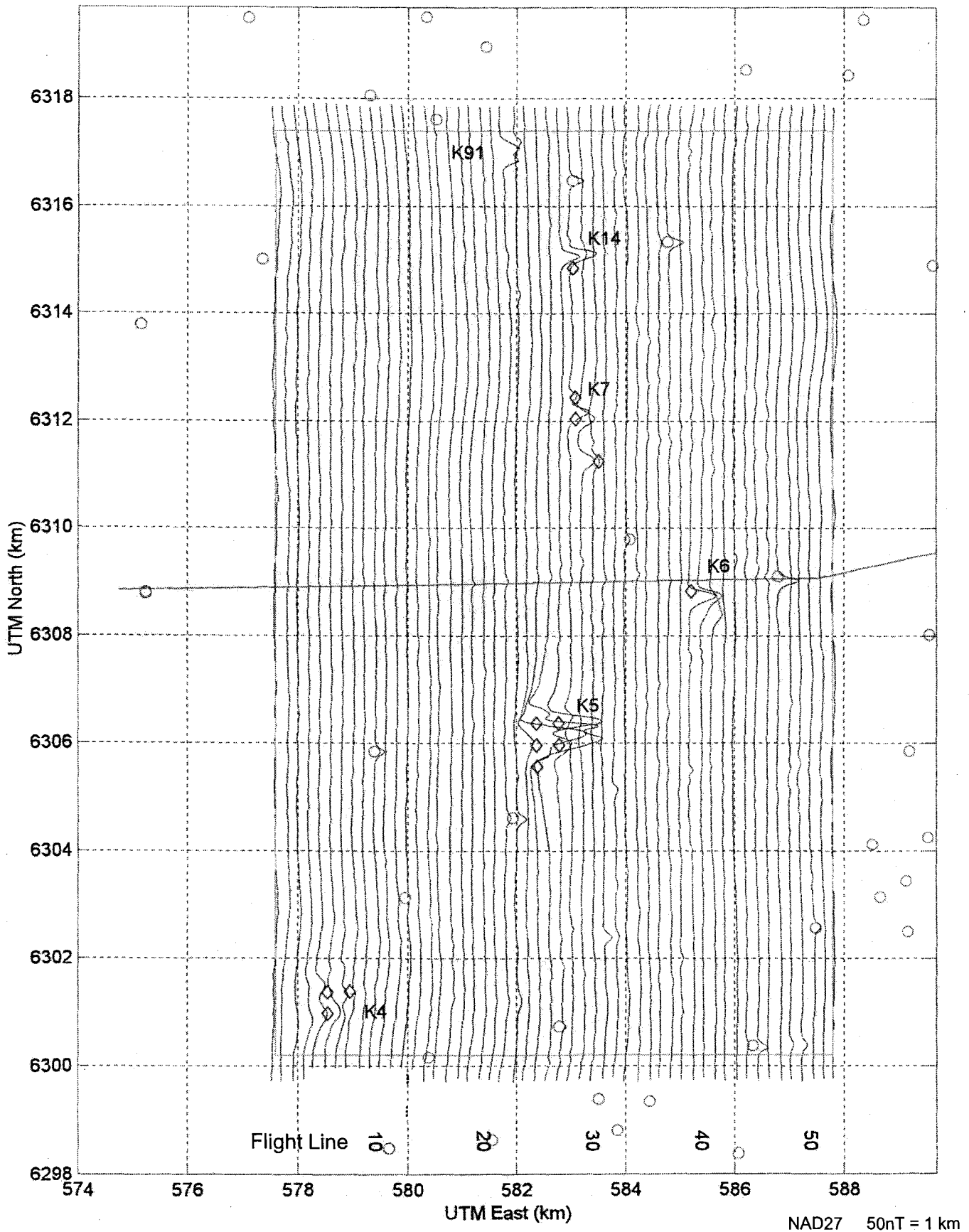




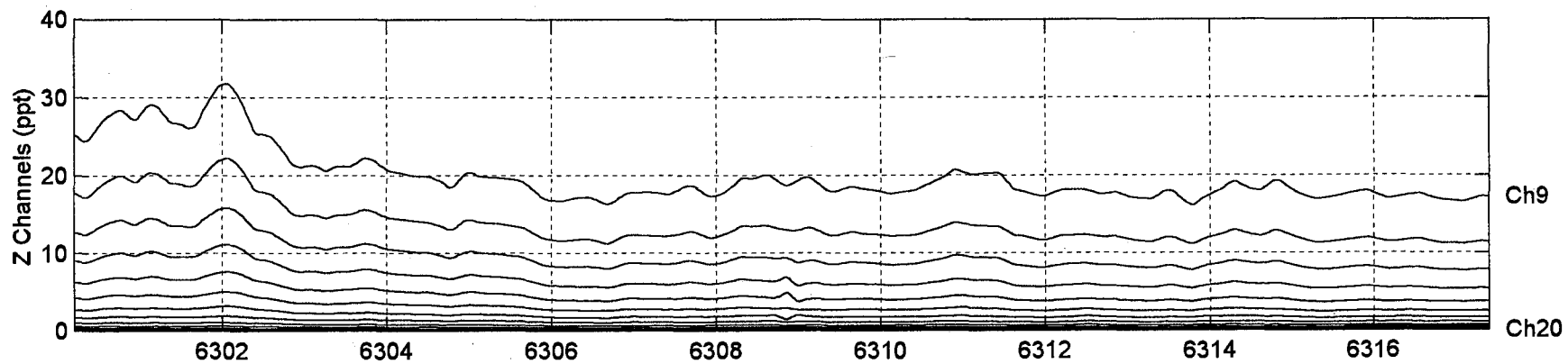
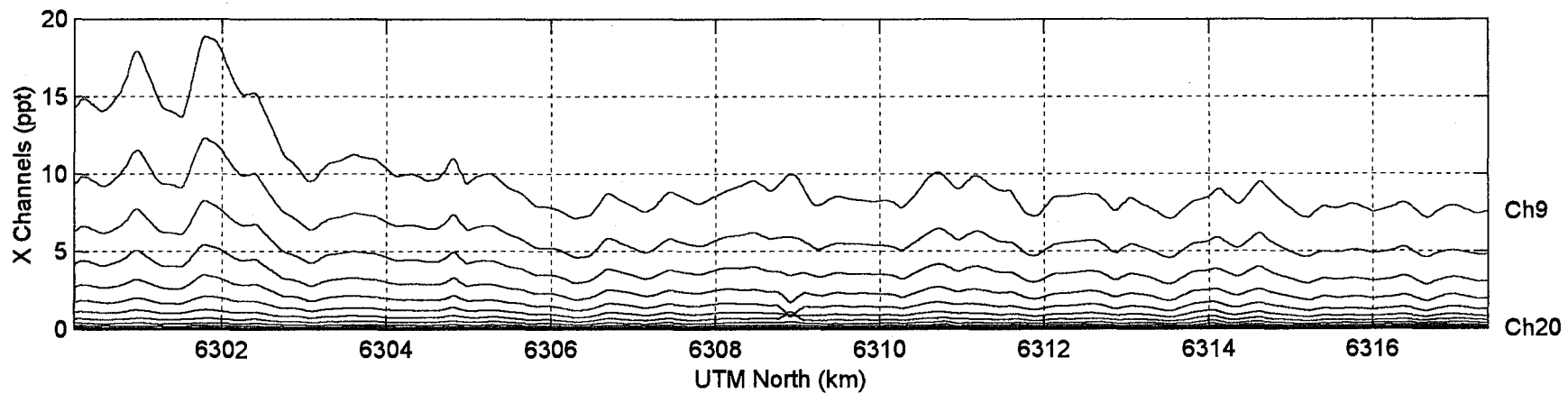
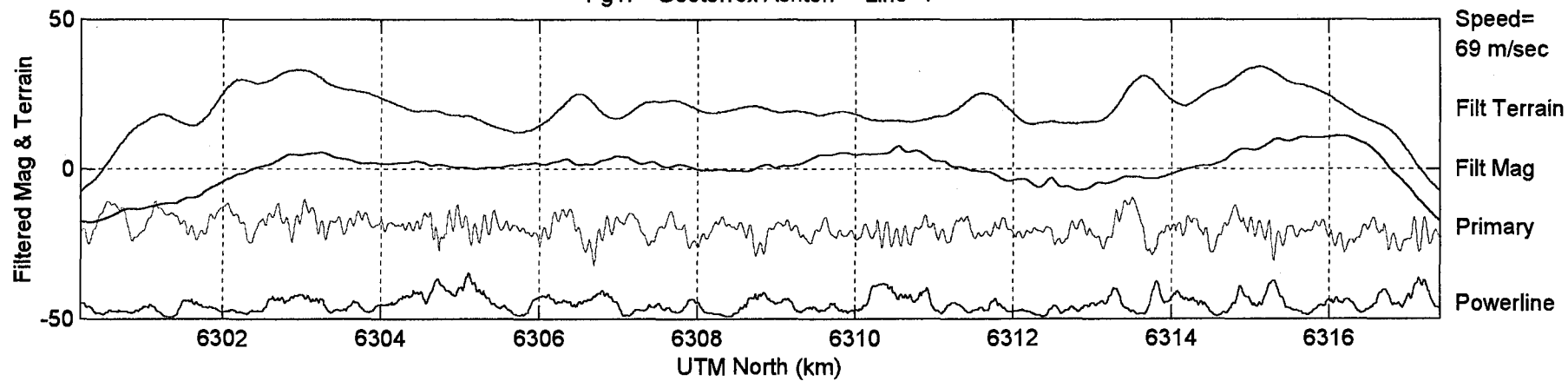
APPENDIX 5

GEOTEM MAGNETIC AND ELECTROMAGNETIC SURVEY
FLIGHT LINE PROFILES – BUFFALO HEAD KIMBERLITES

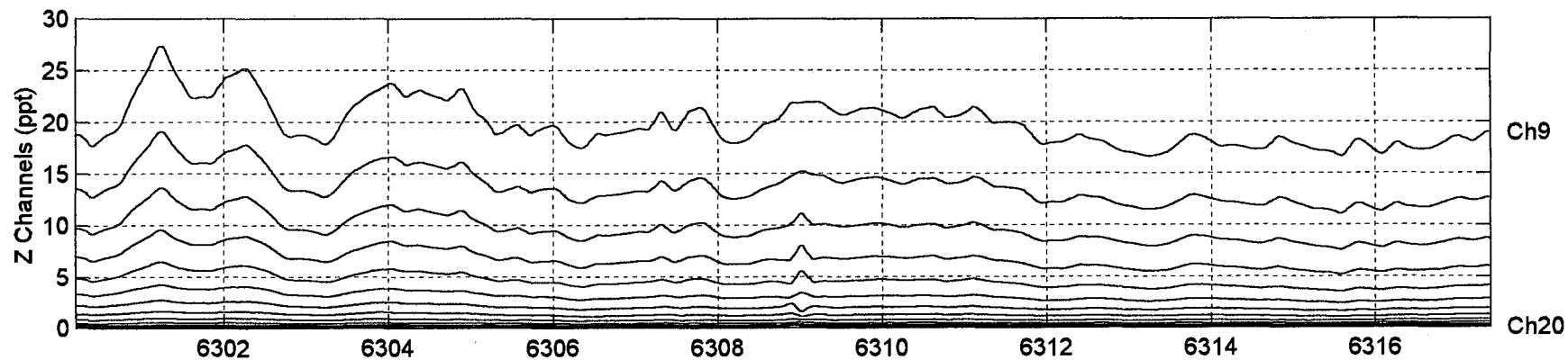
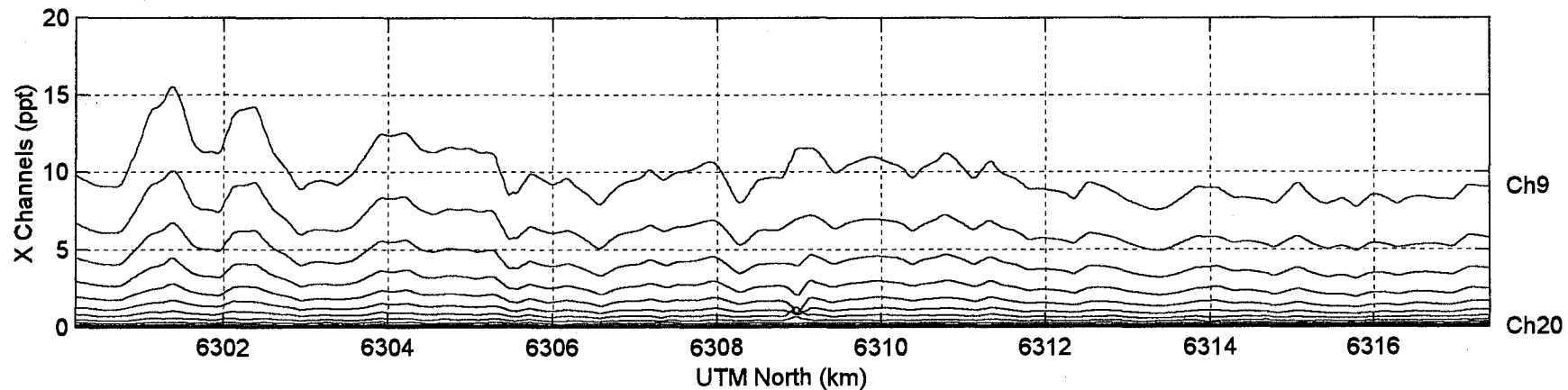
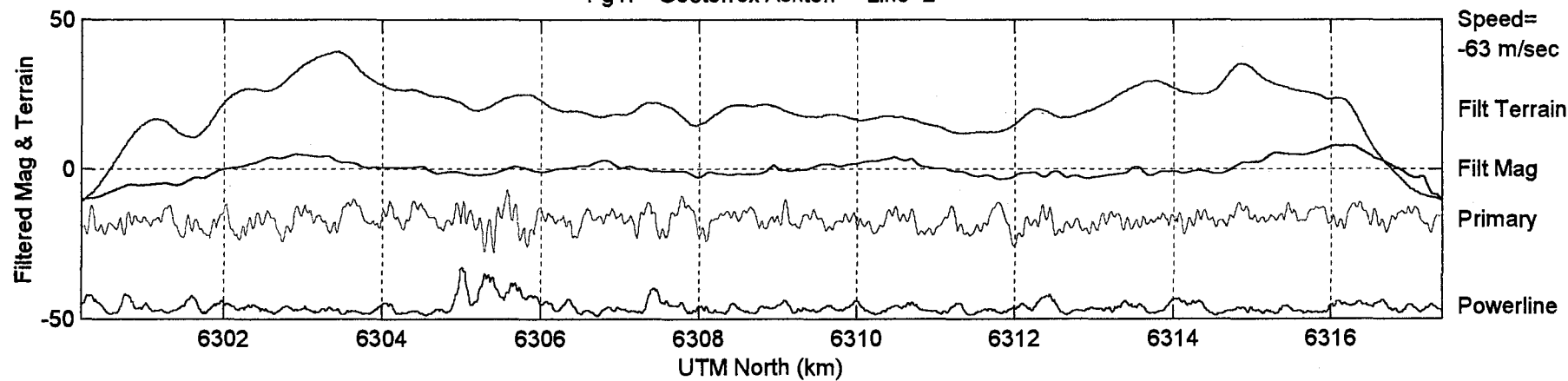
Geotrex Survey of Buffalo Head Kimberlites
Total Magnetic Field Stack Plot,
Flight Line Reference For GEOTEM Survey



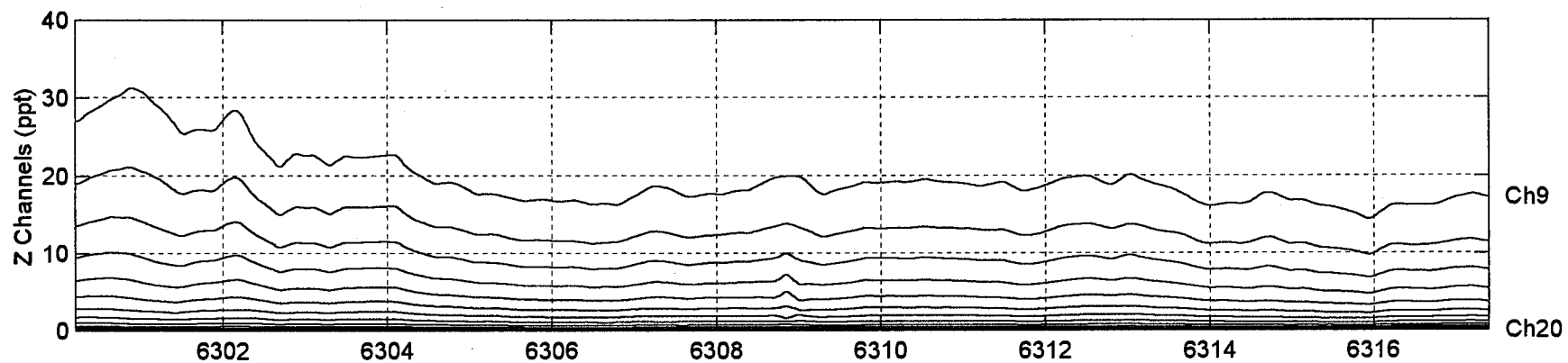
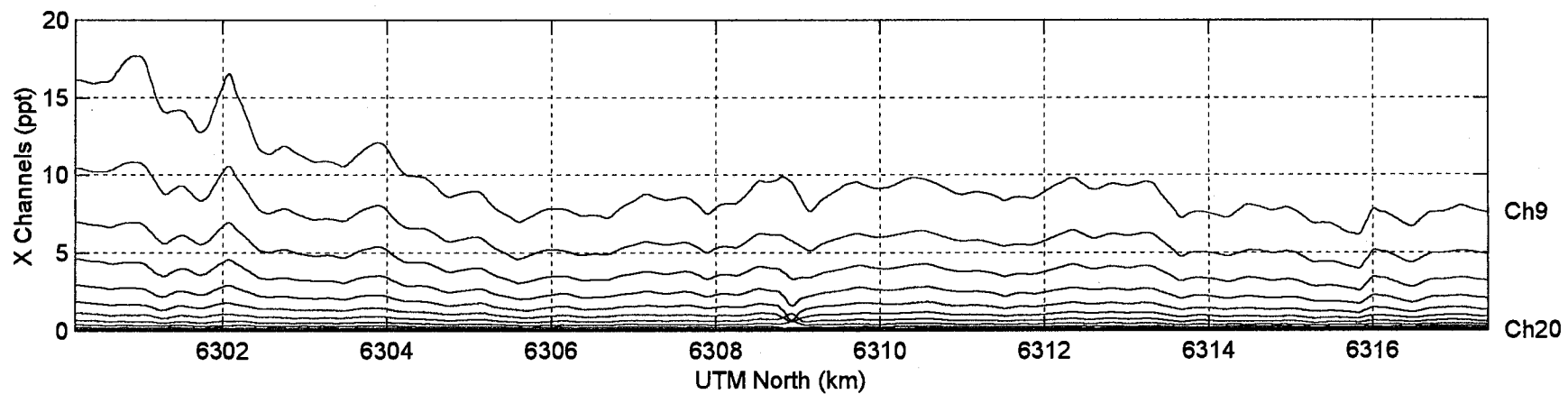
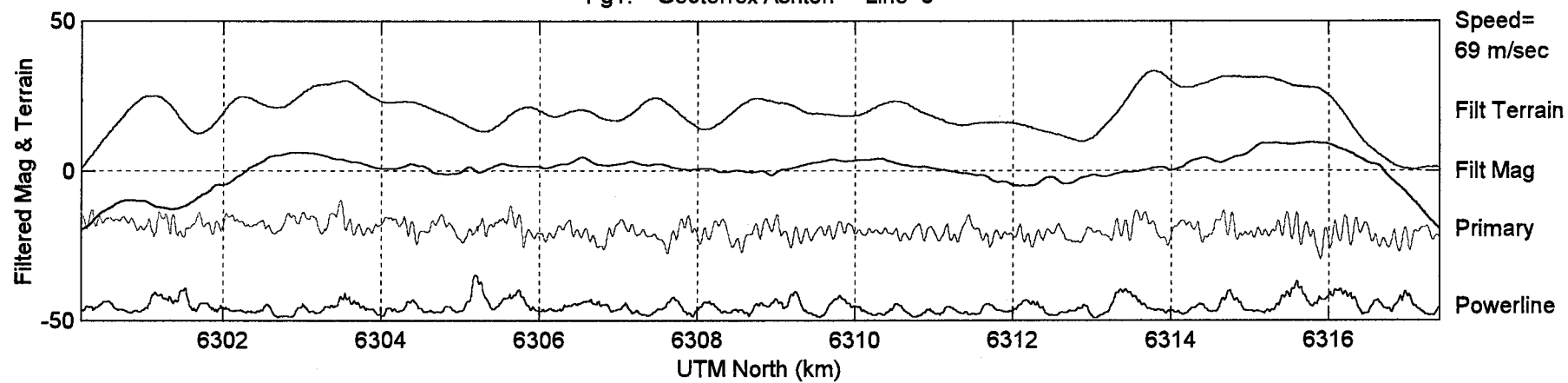
Pg1: Geoterrex Ashton Line=1



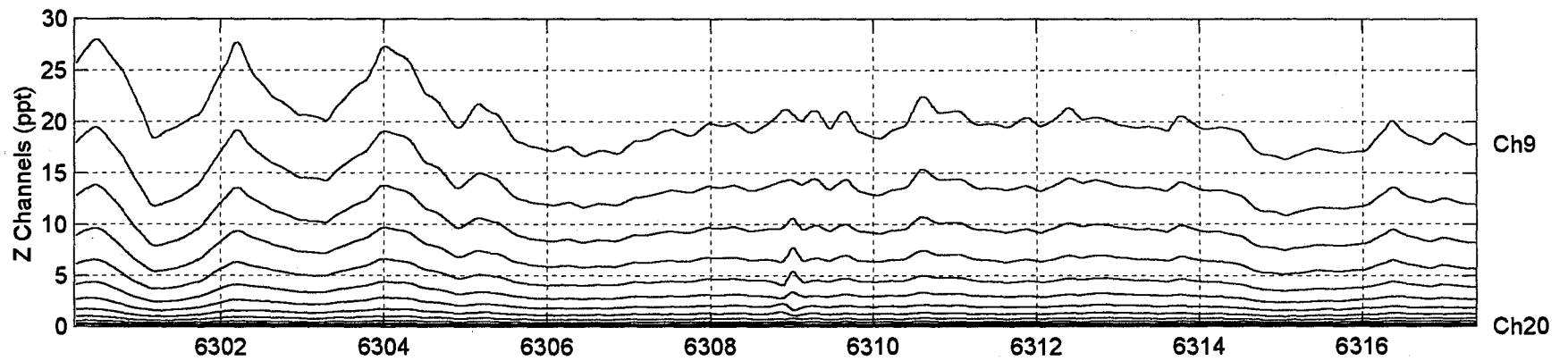
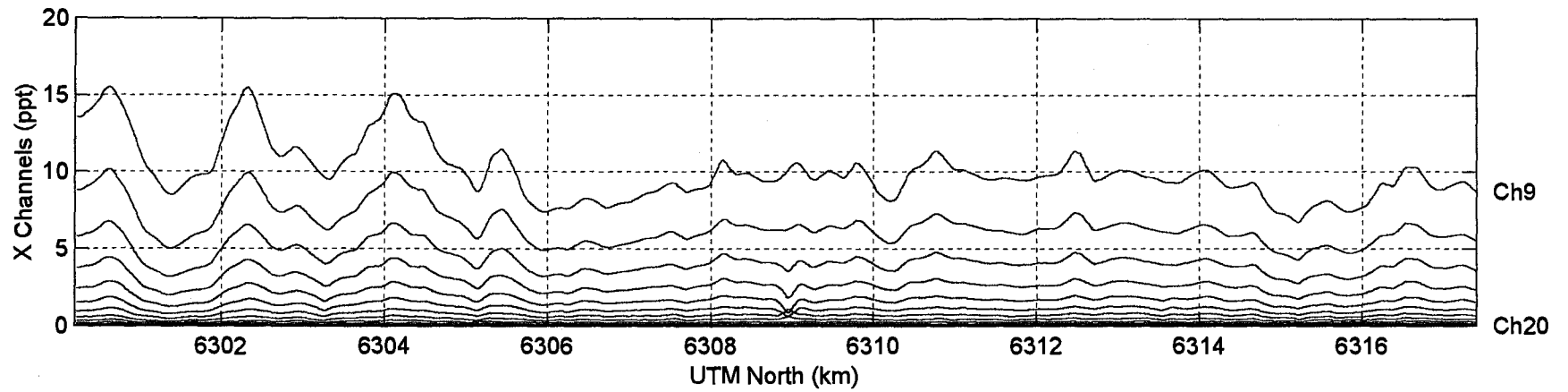
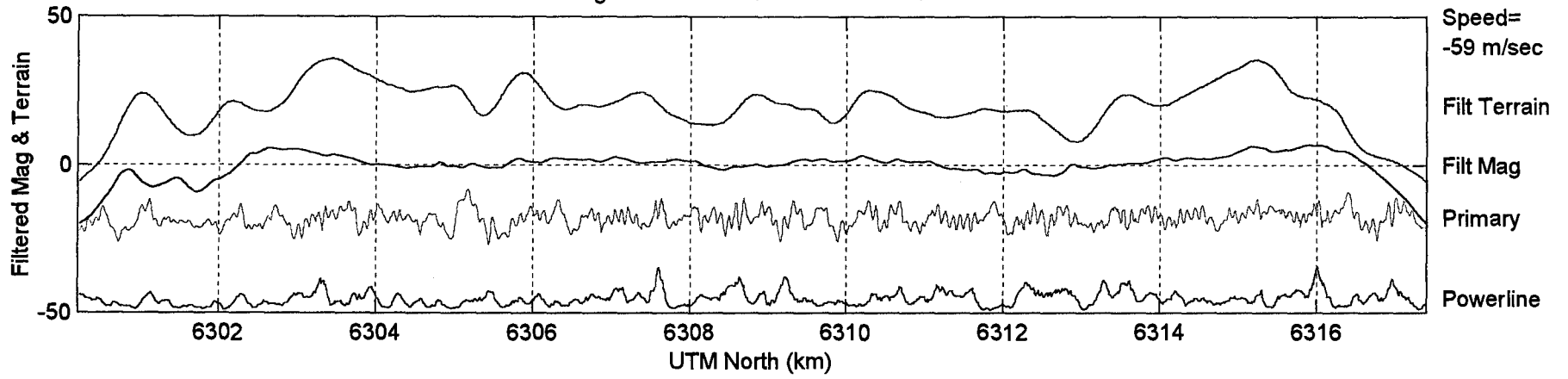
Pg1: Geotrex Ashton Line=2



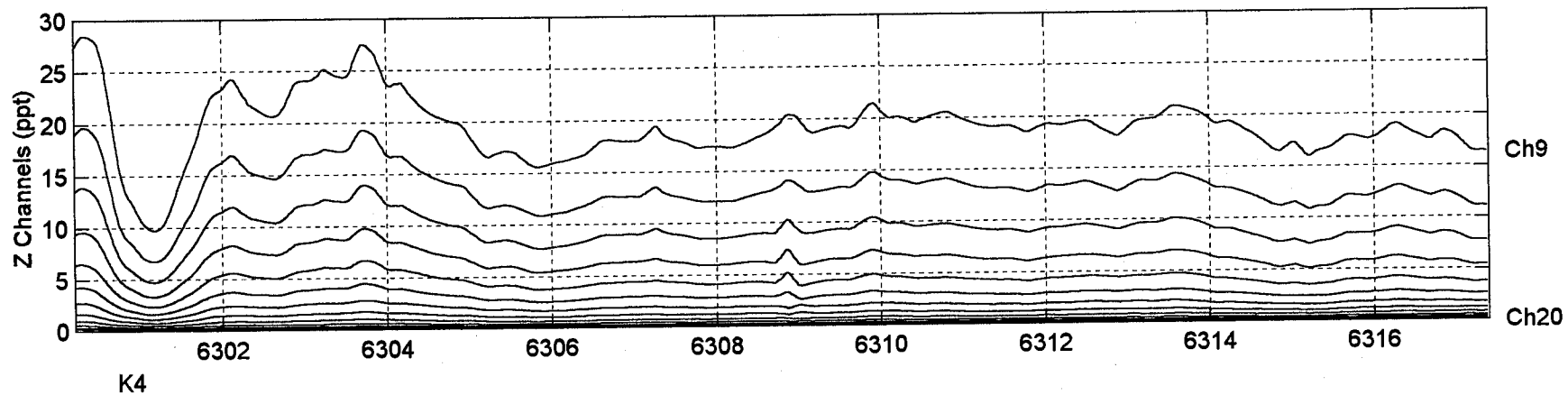
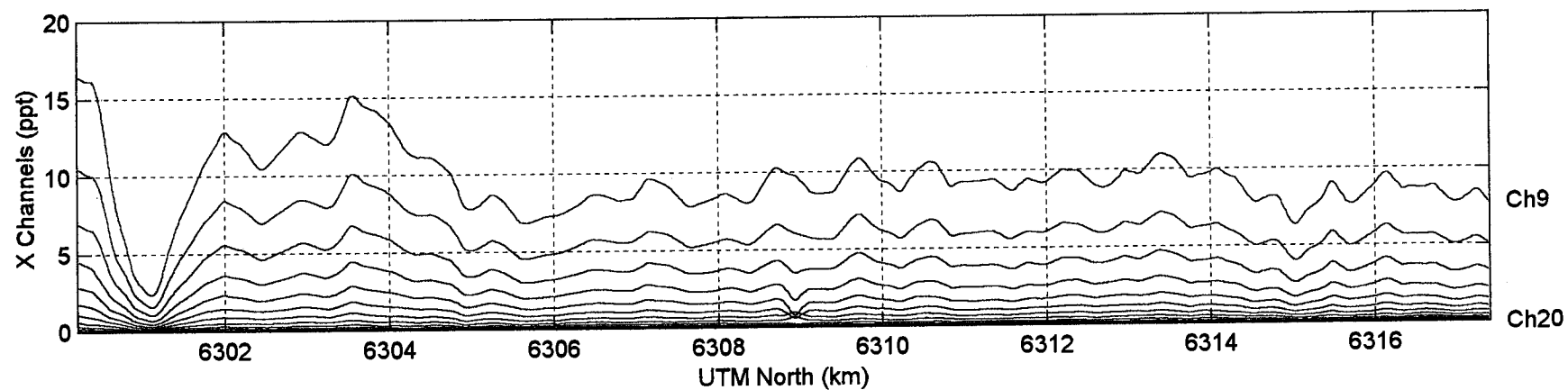
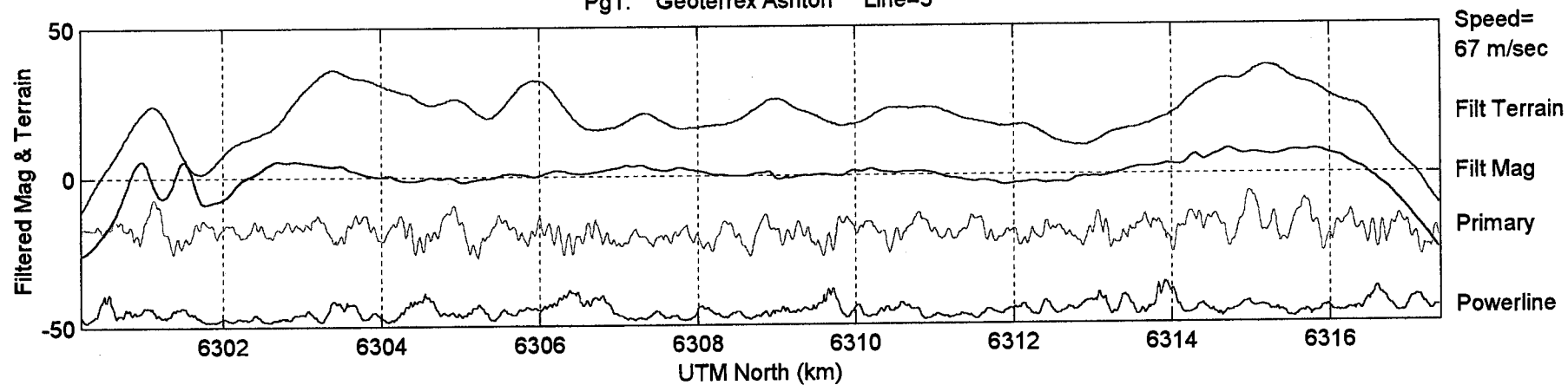
Pg1: Geoterrex Ashton Line=3



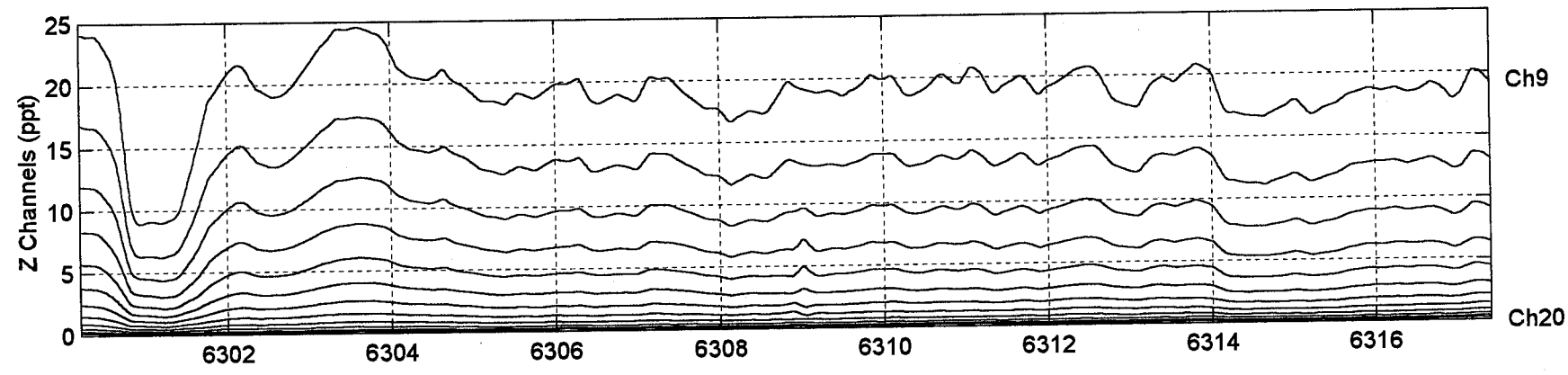
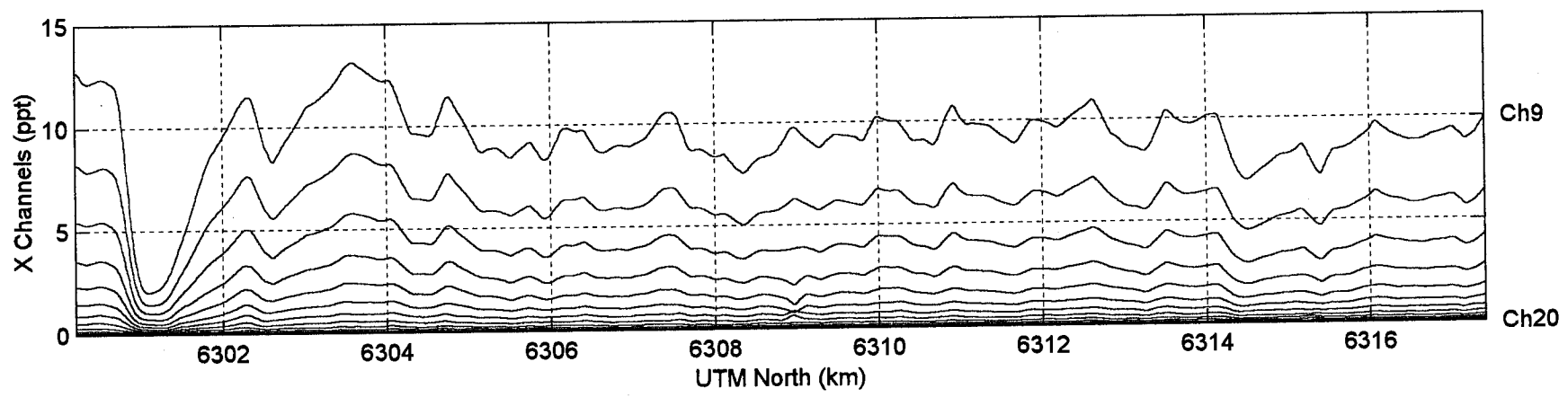
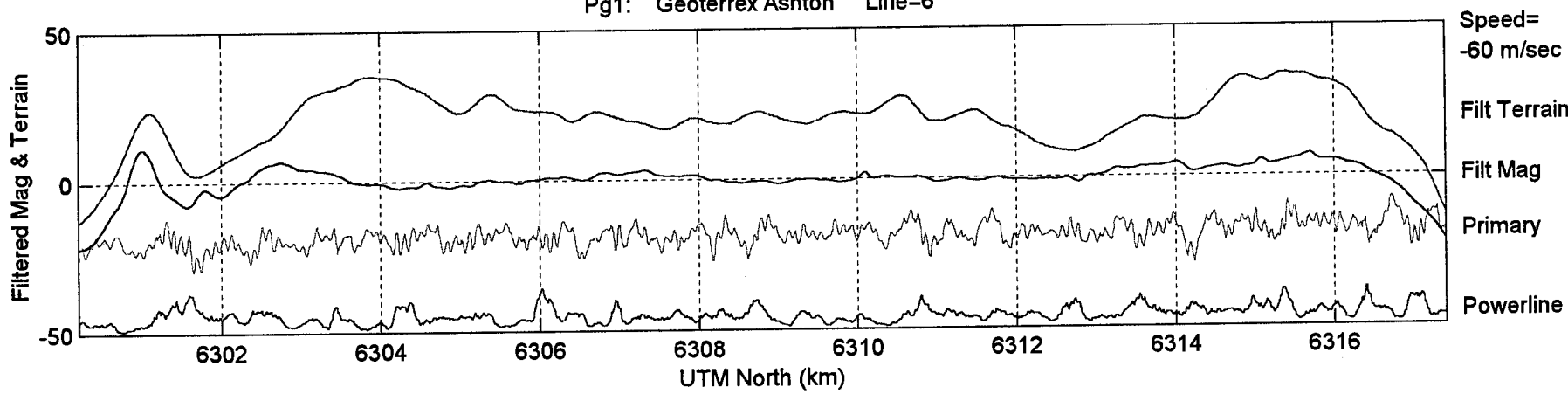
Pg1: Geoterrex Ashton Line=4

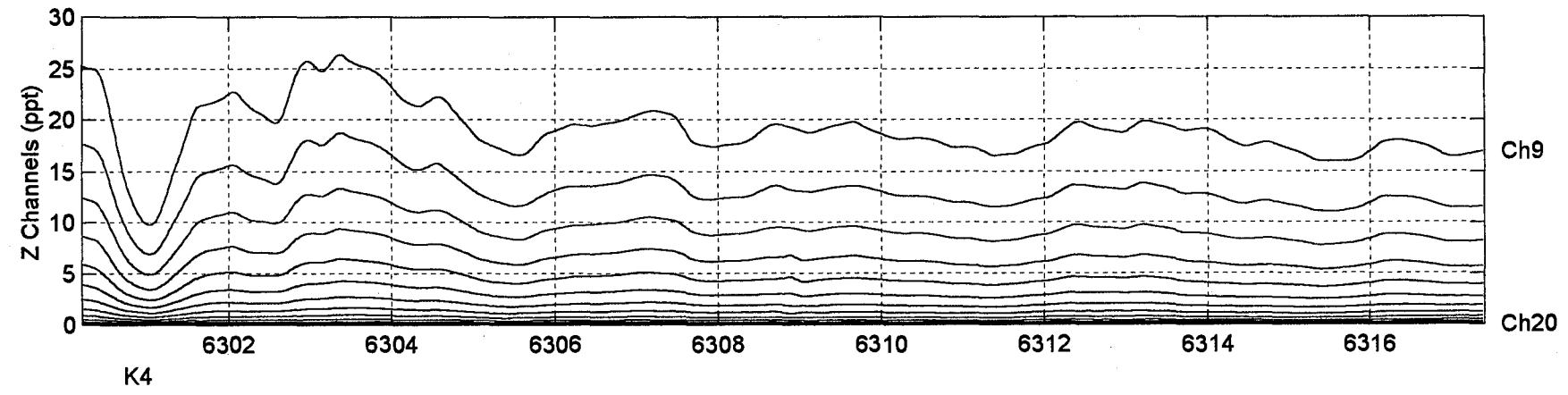
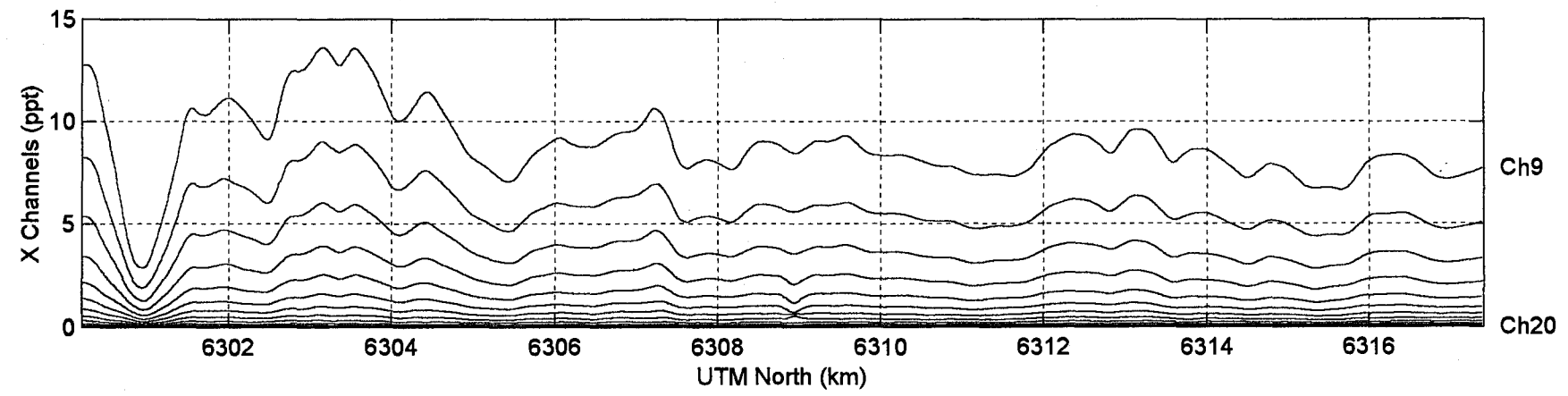
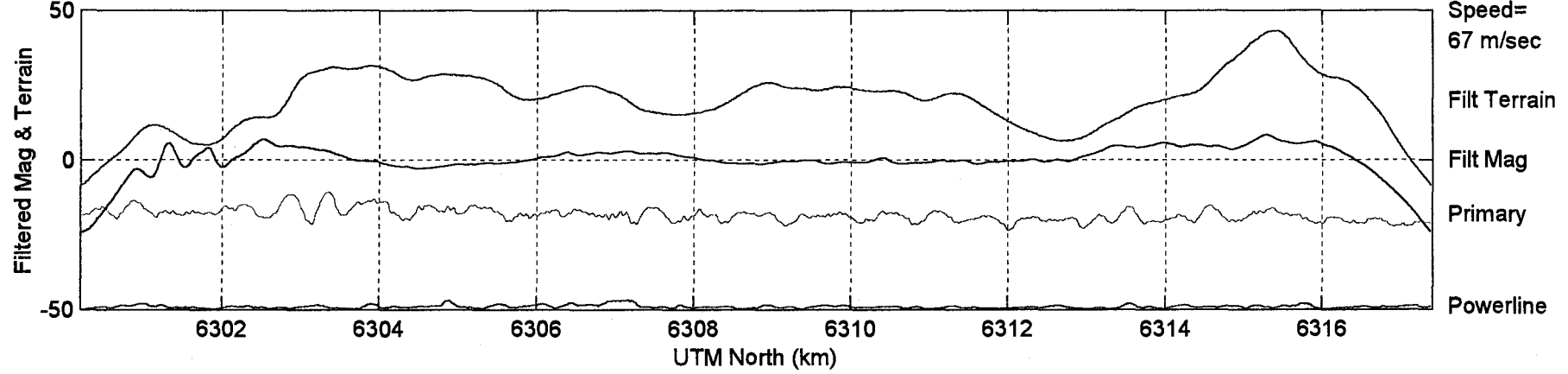


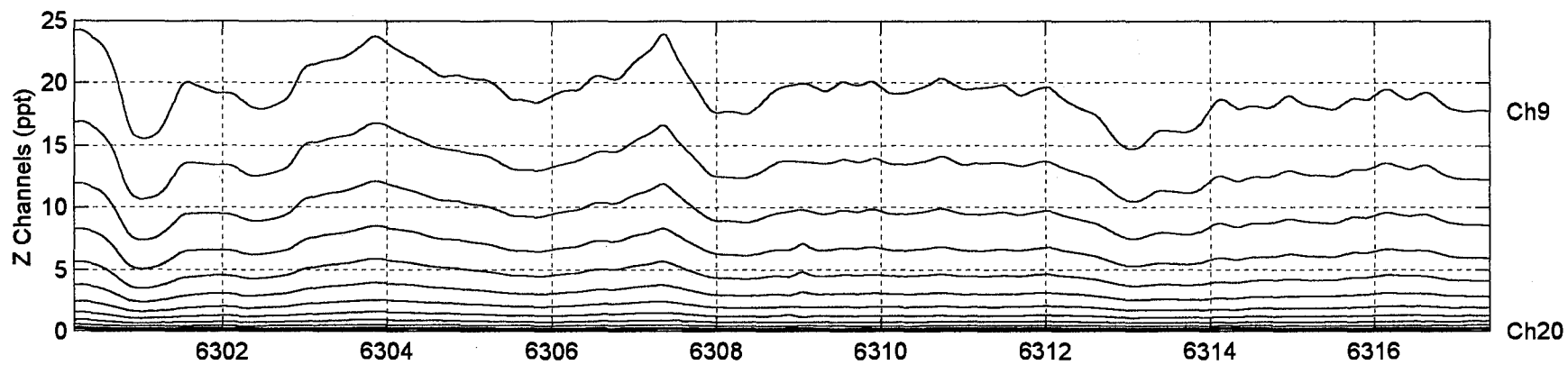
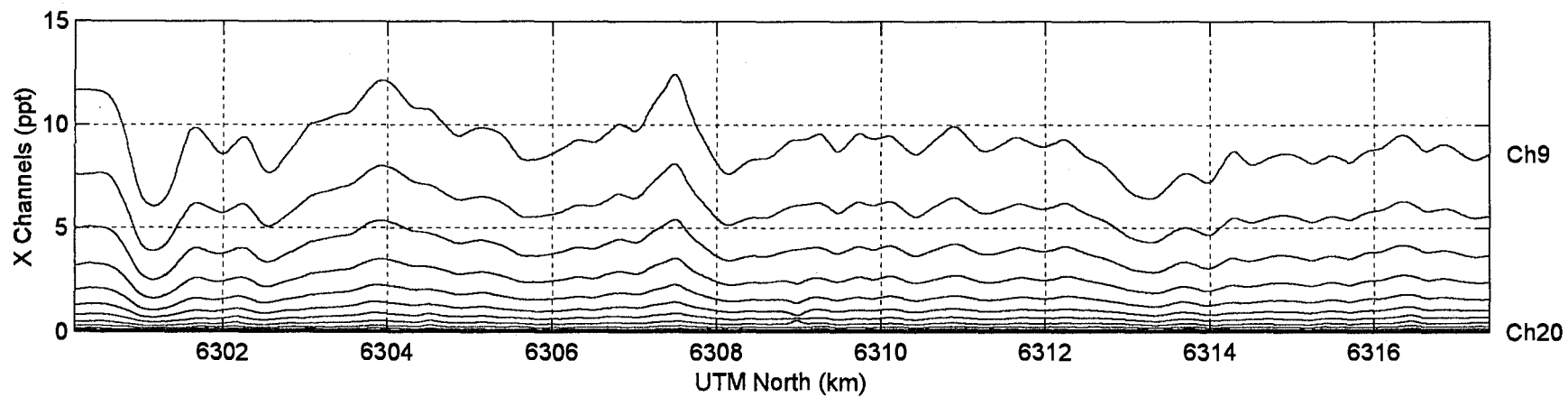
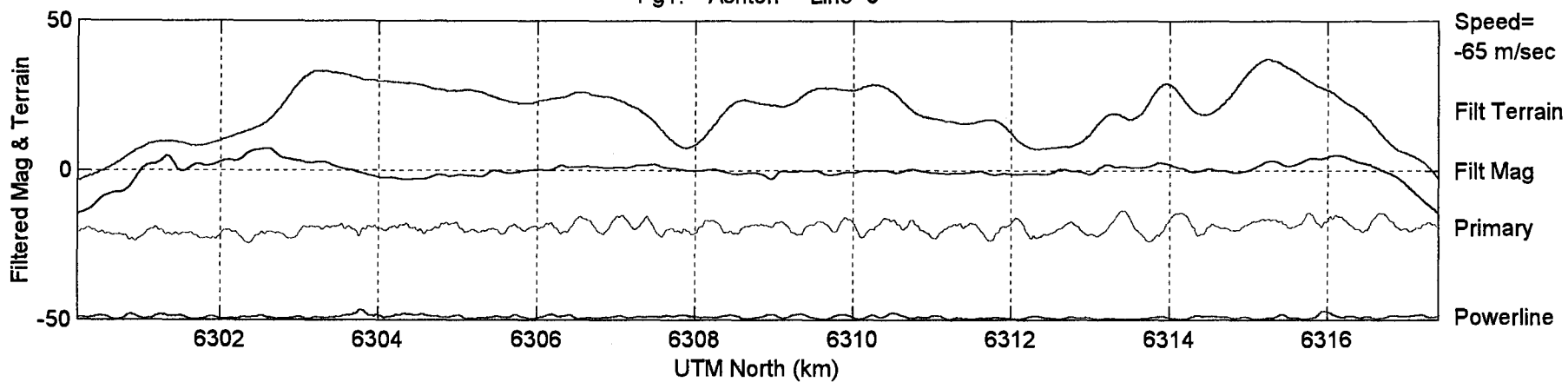
Pg1: Geotrex Ashton Line=5

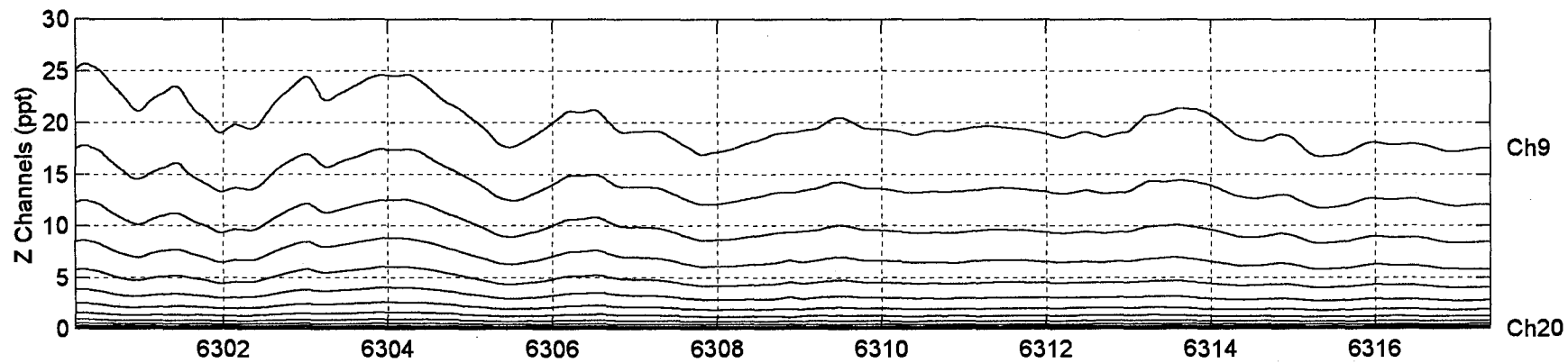
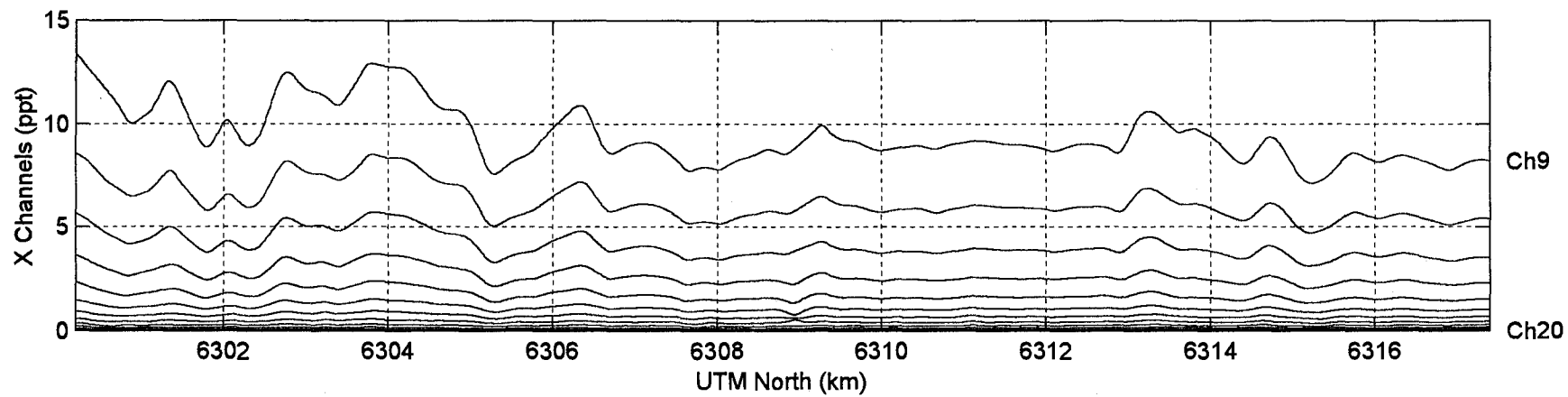
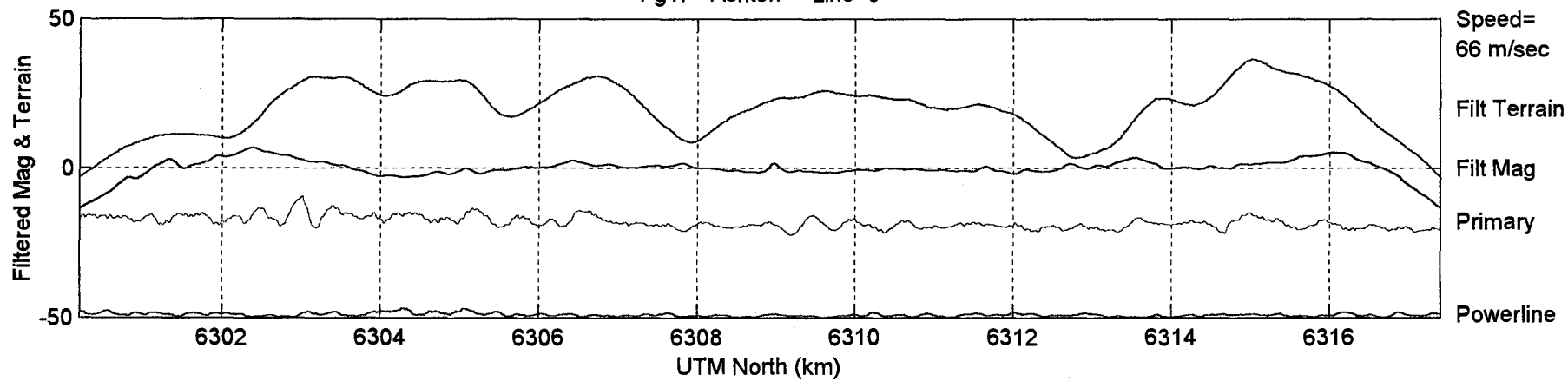


Pg1: Geoterrex Ashton Line=6

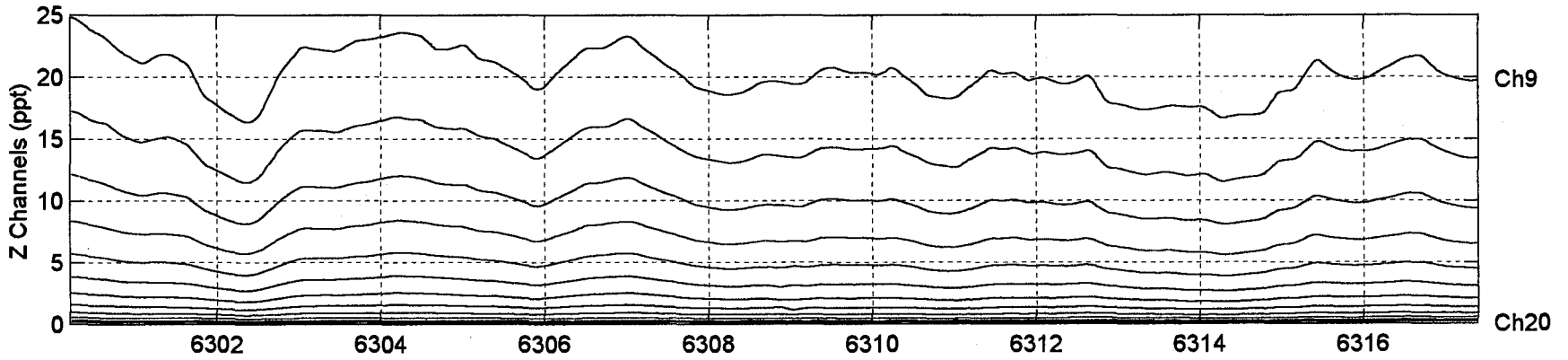
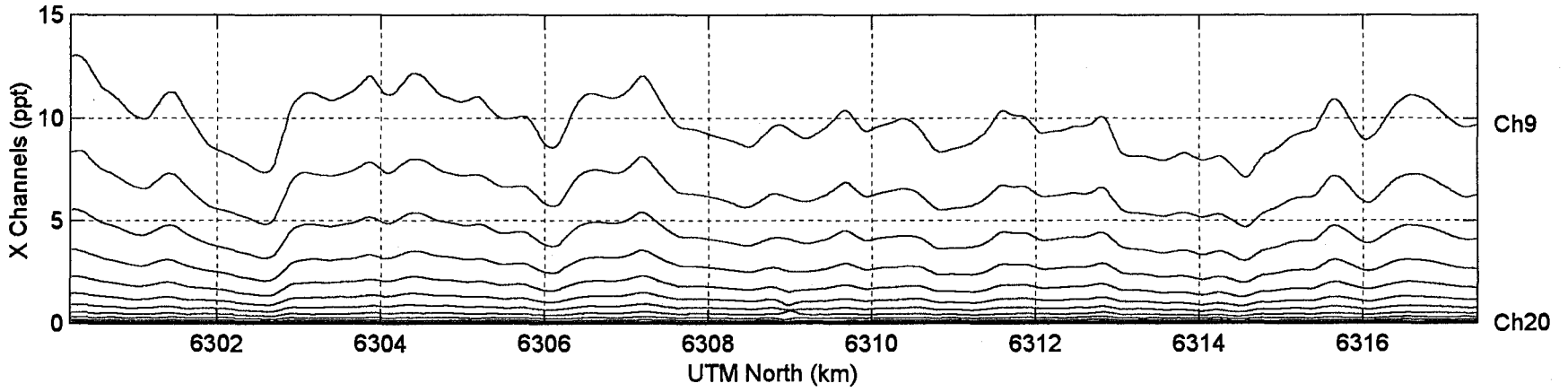
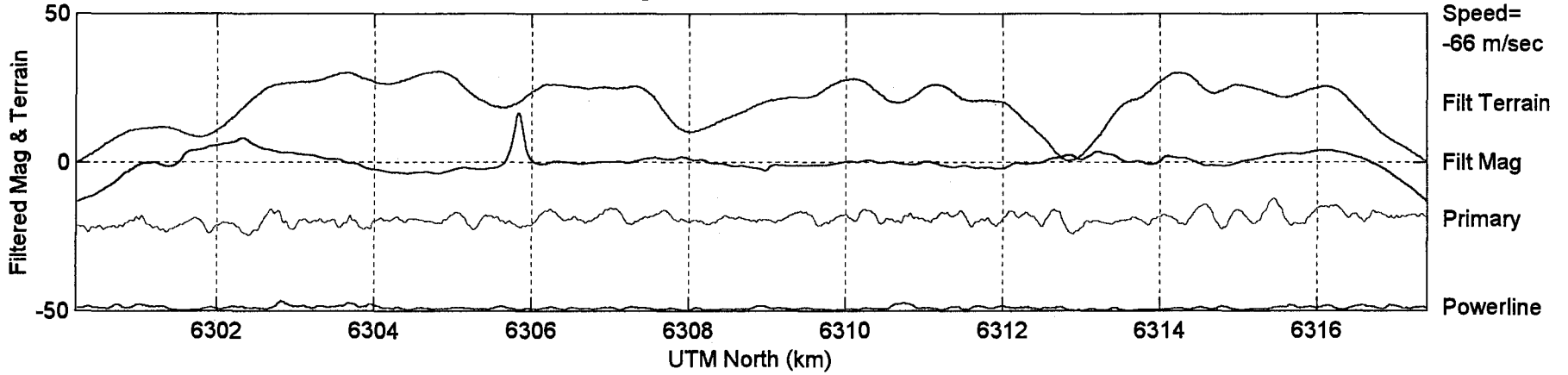


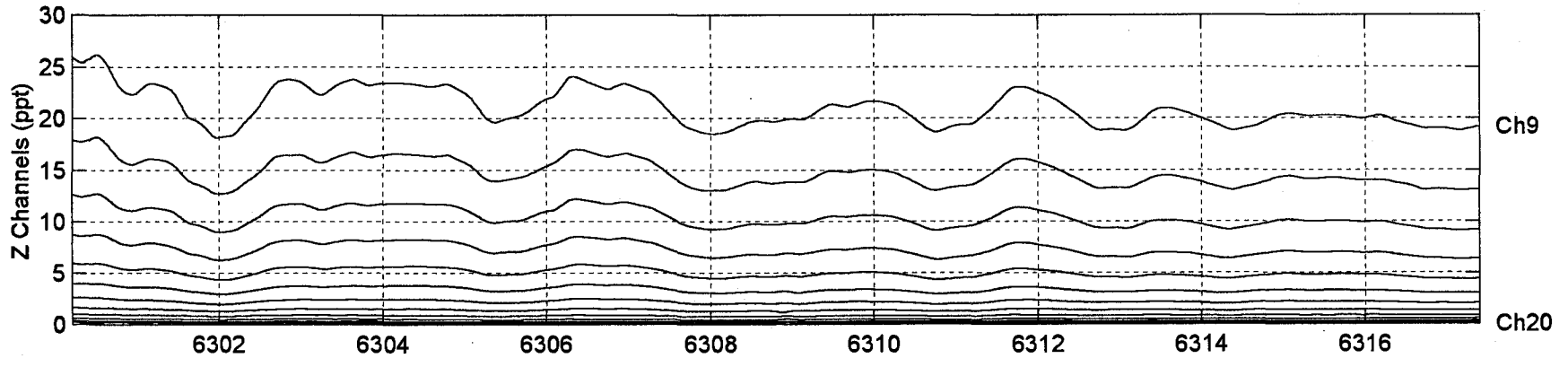
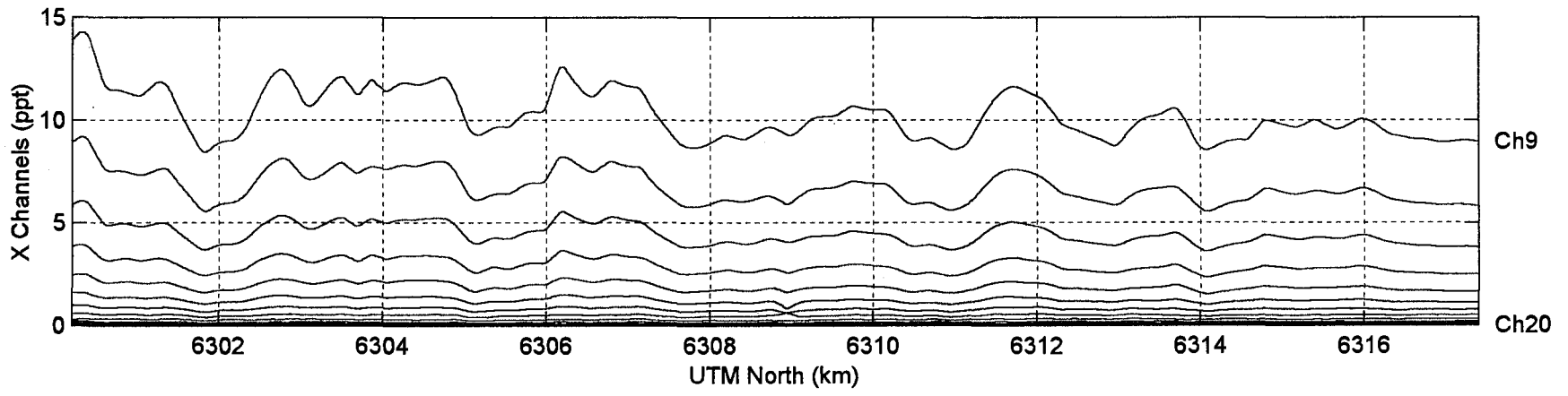
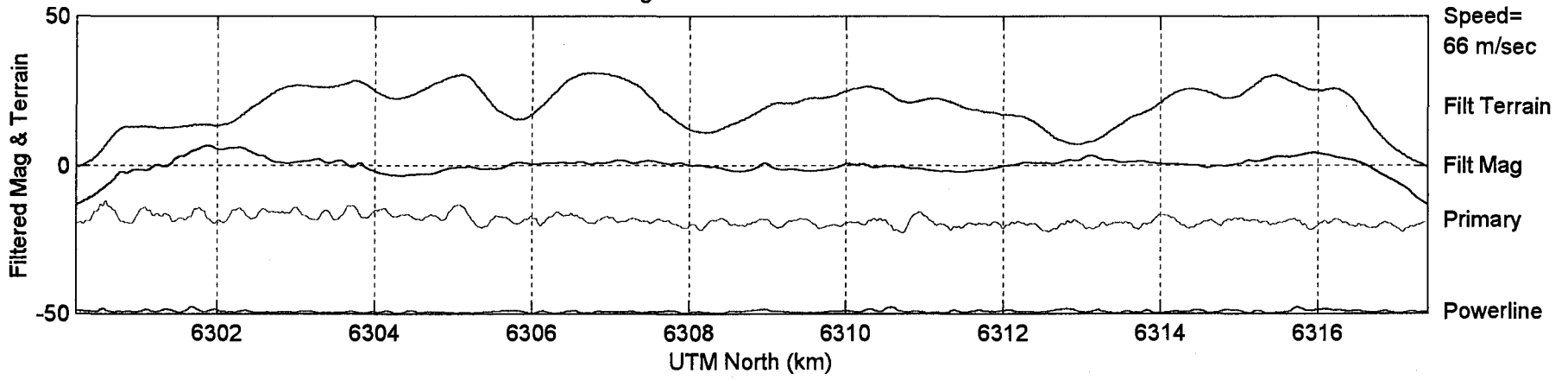


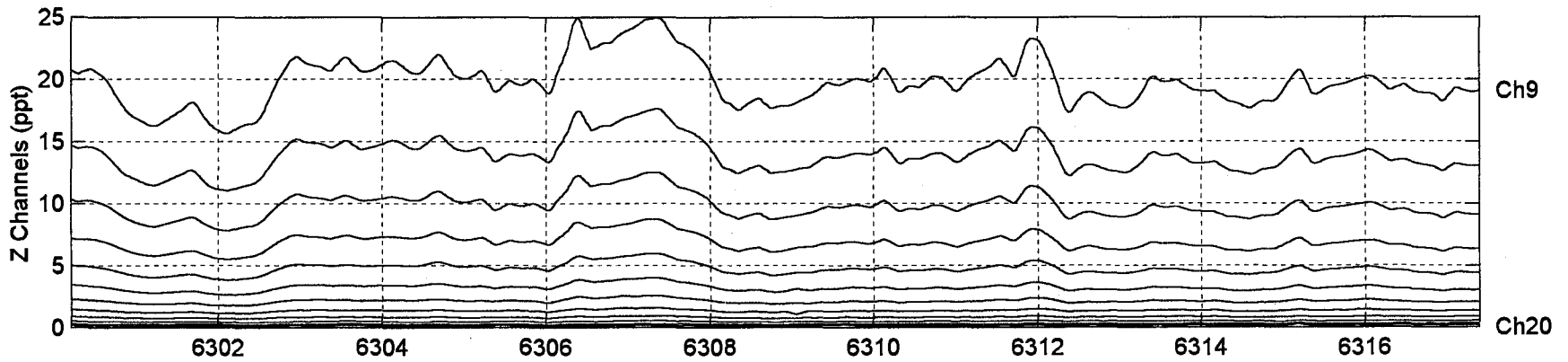
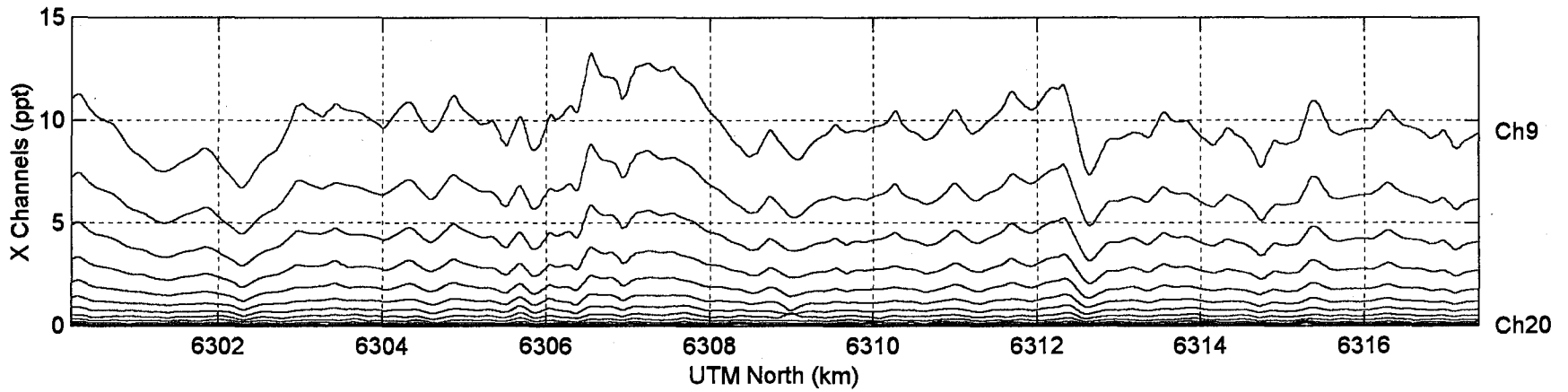
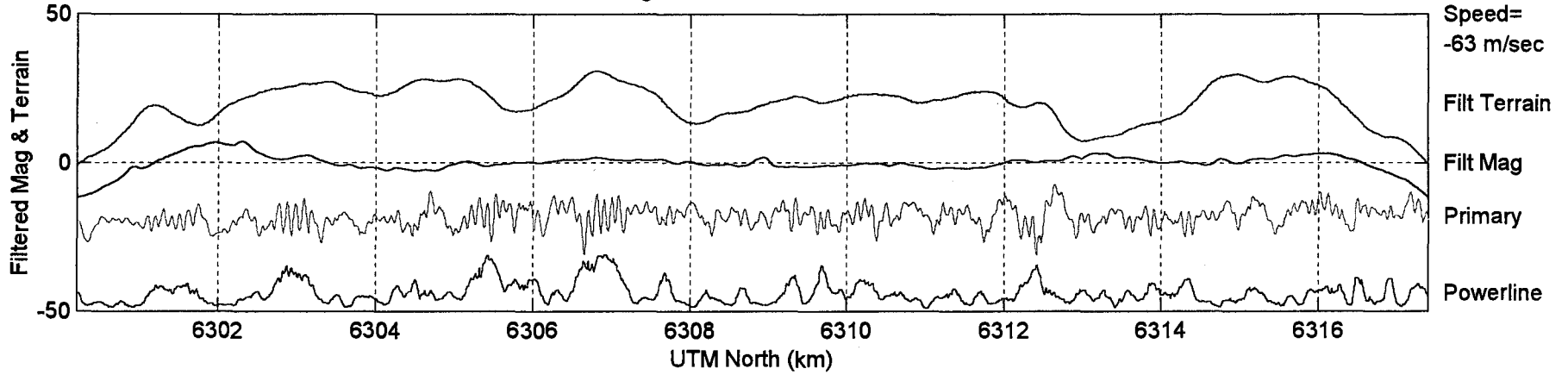


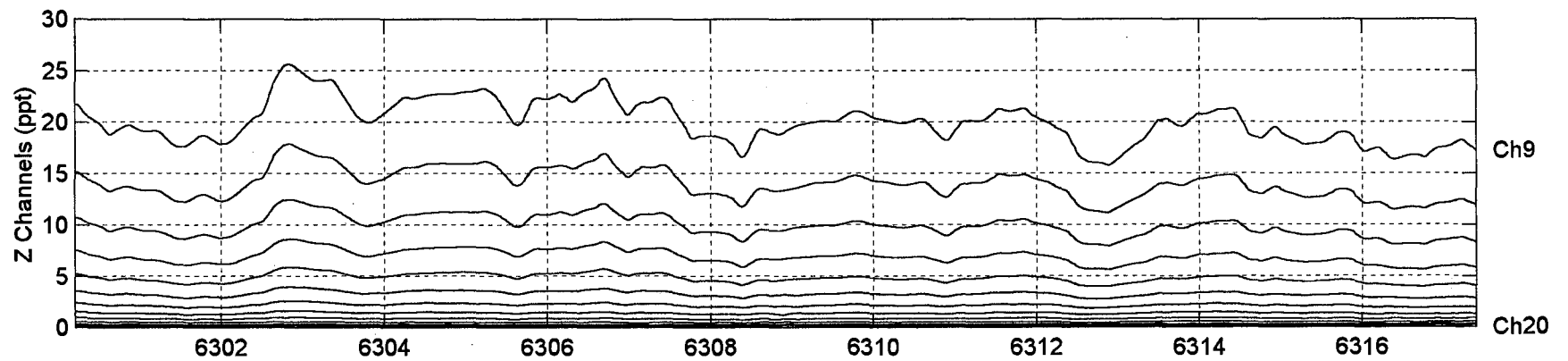
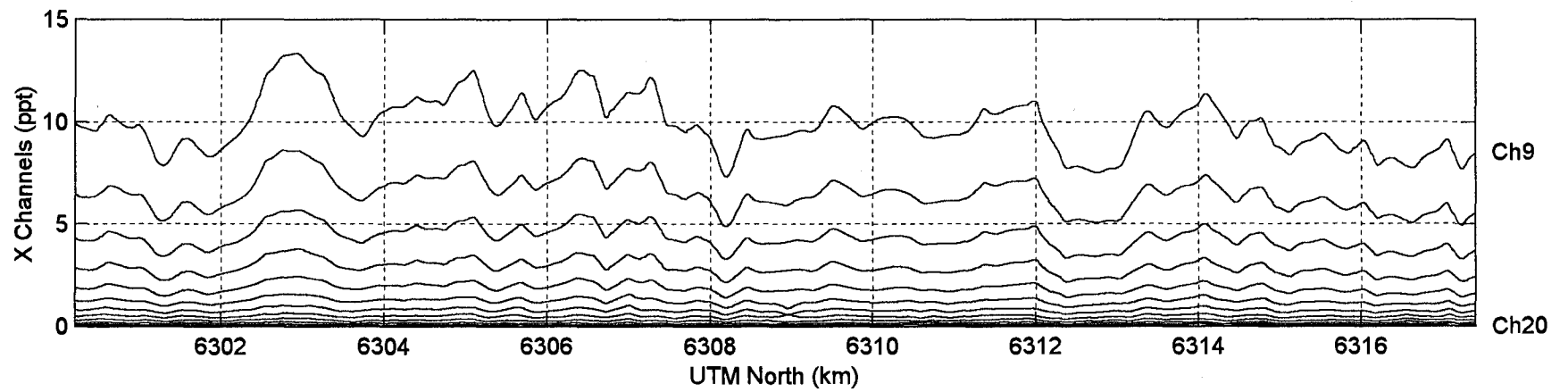
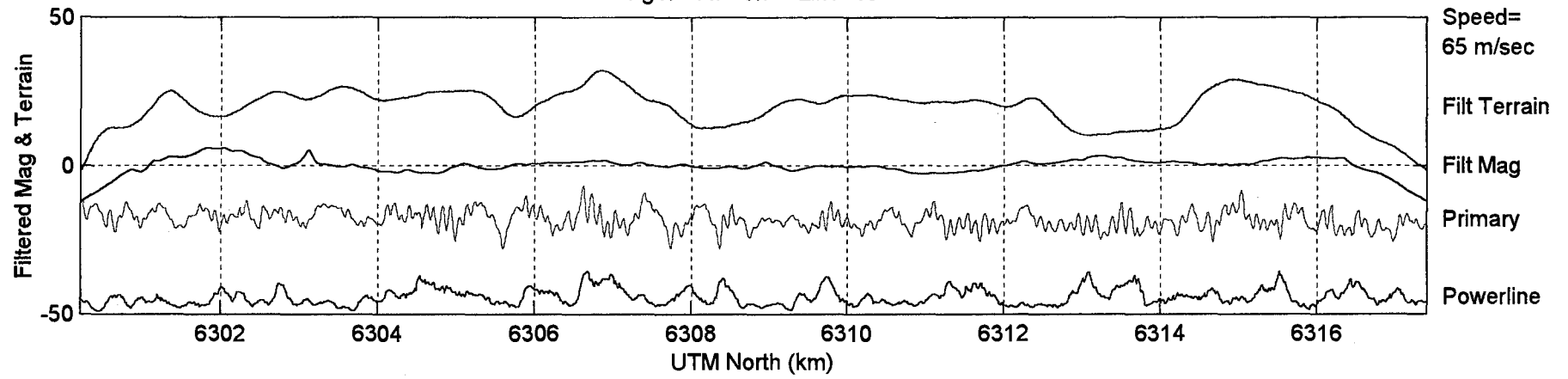


Pg1: Ashton Line=10

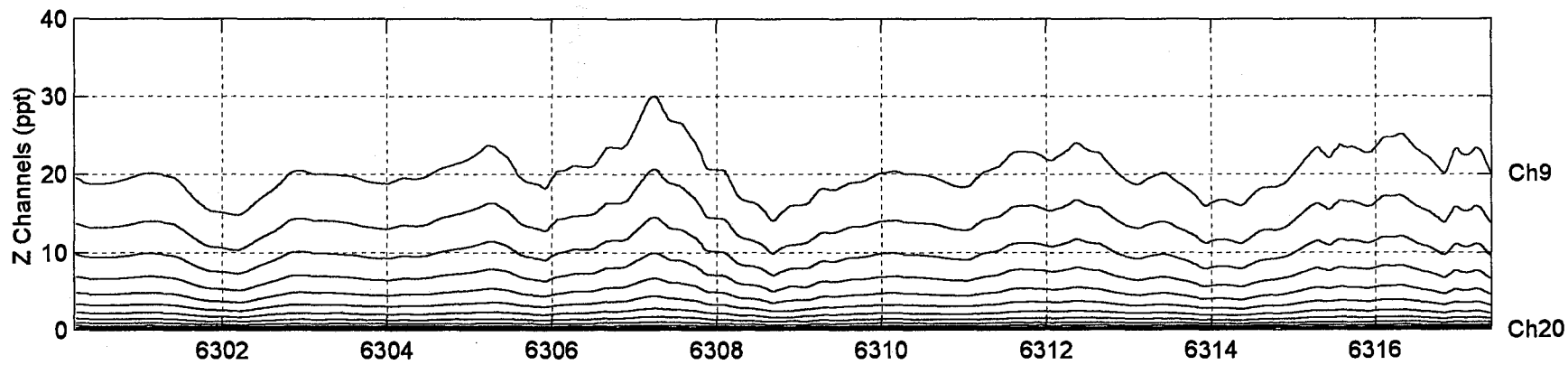
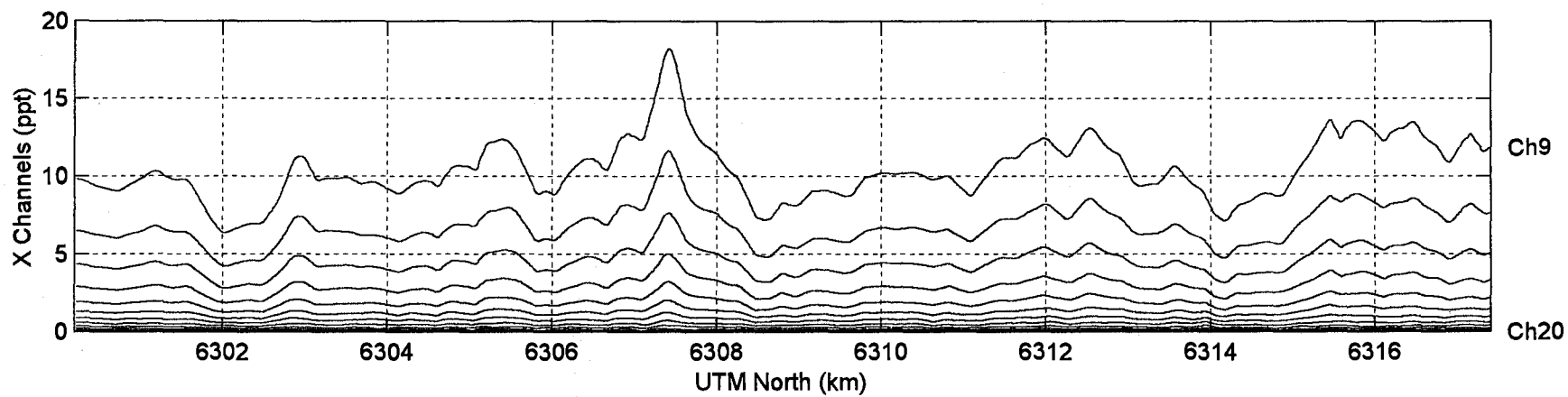
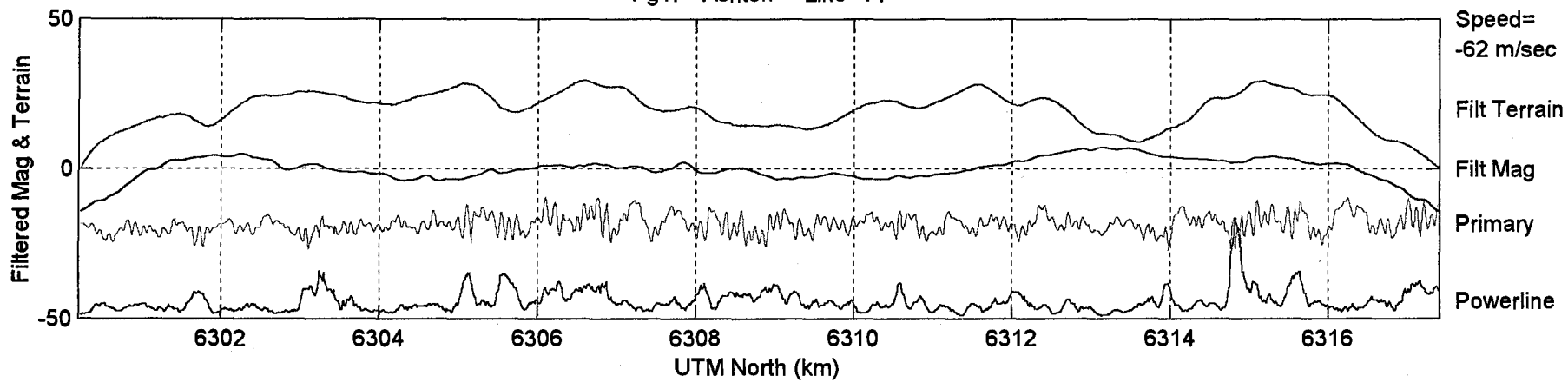


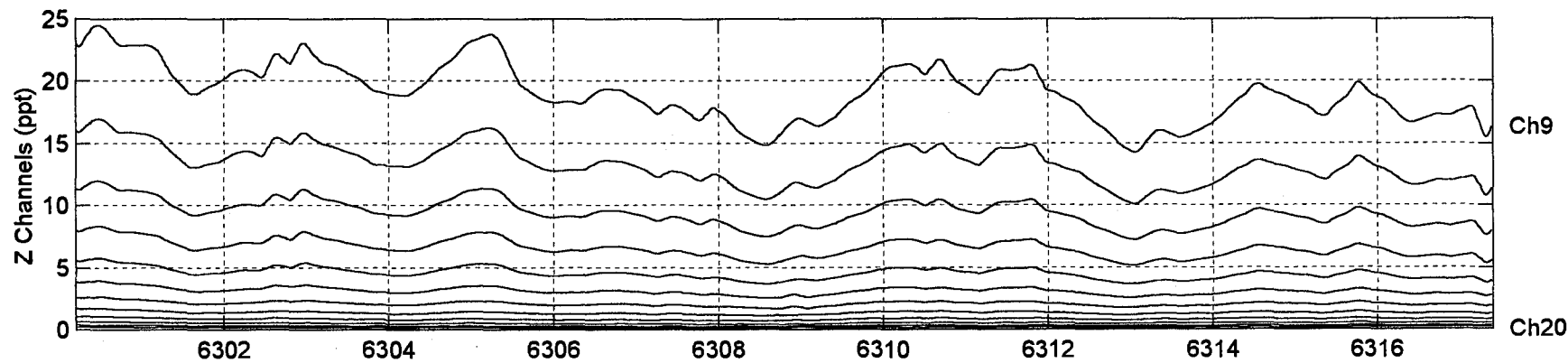
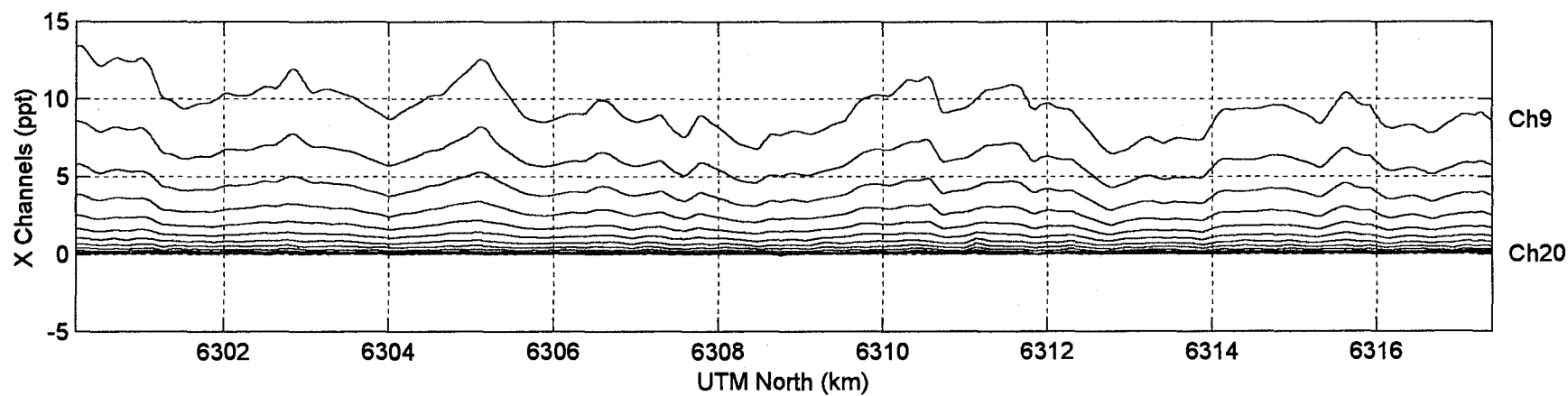
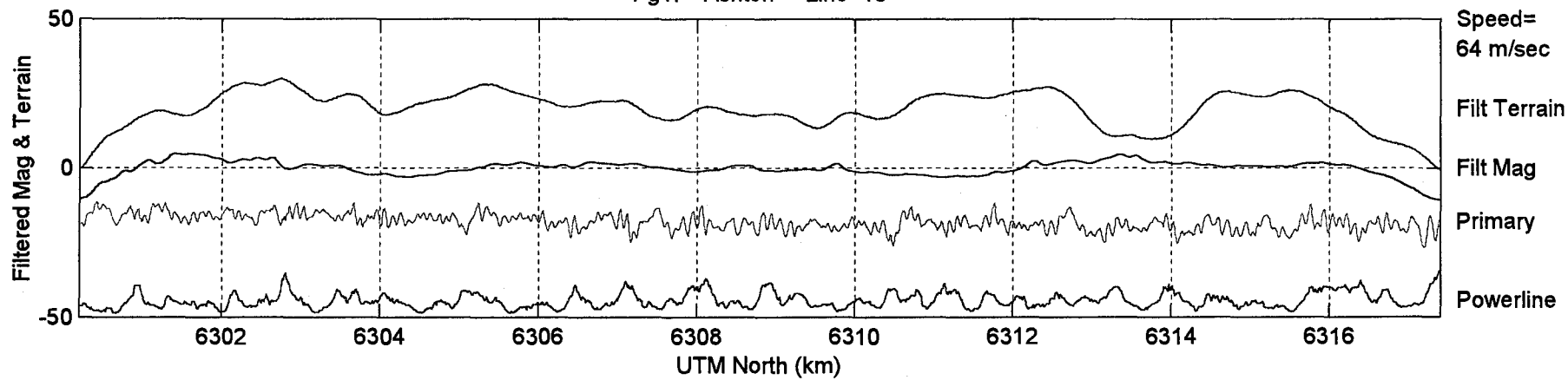


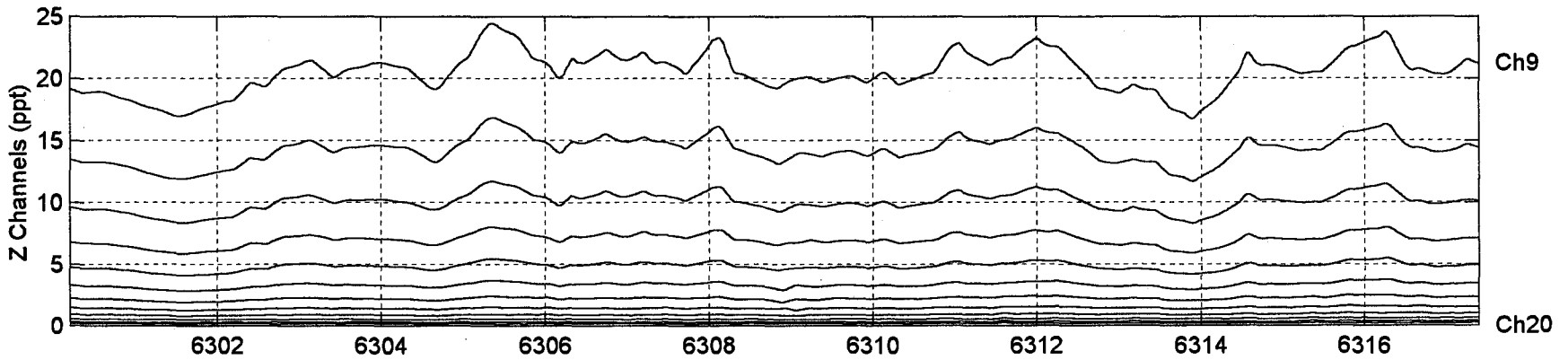
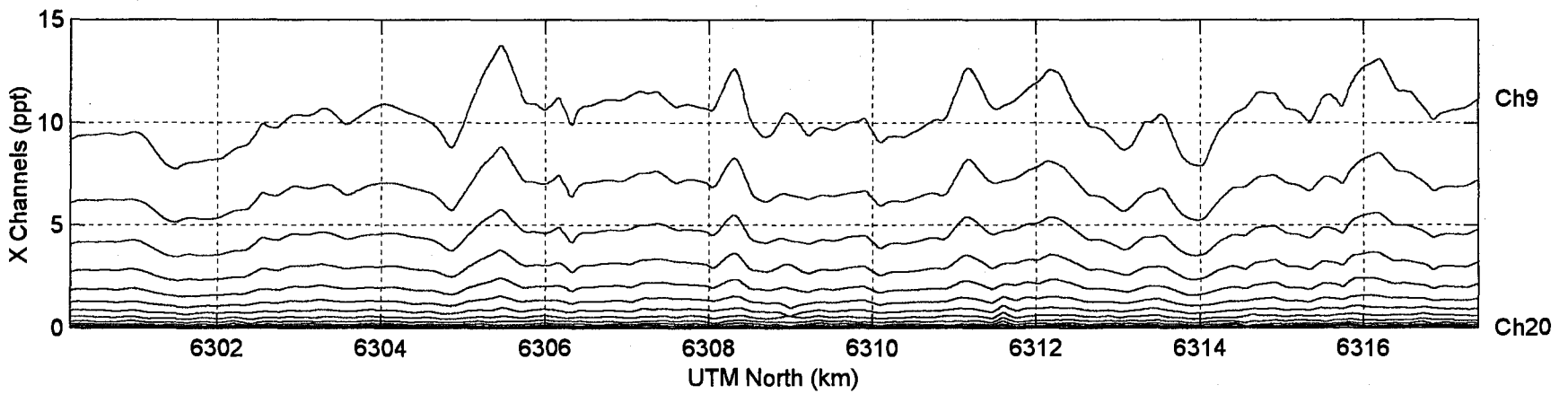
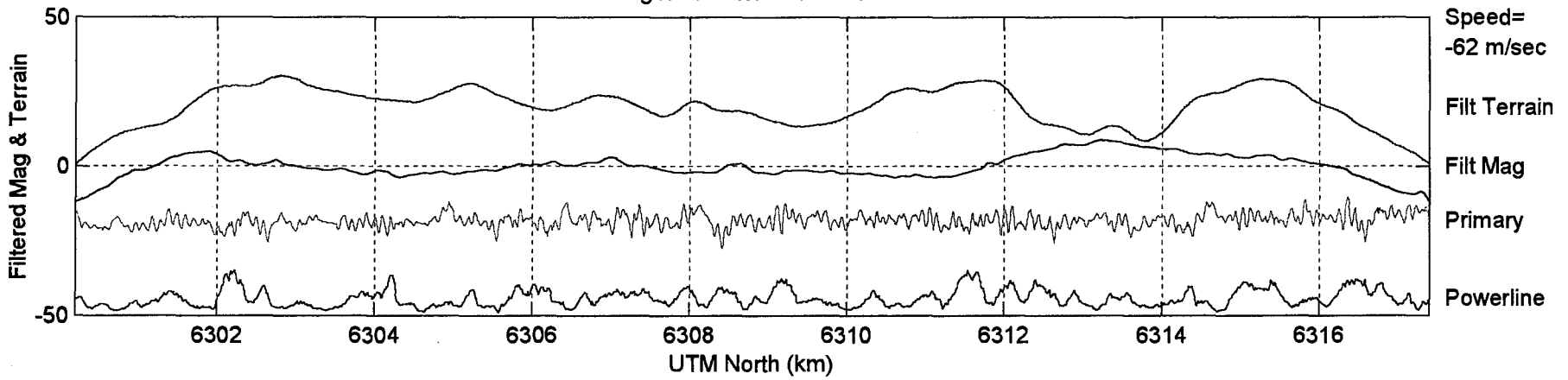


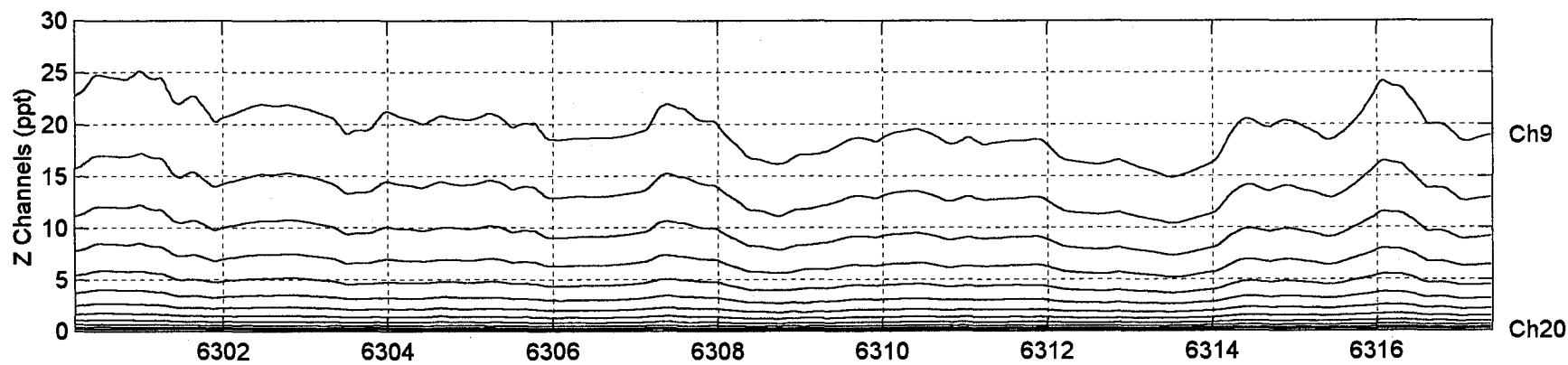
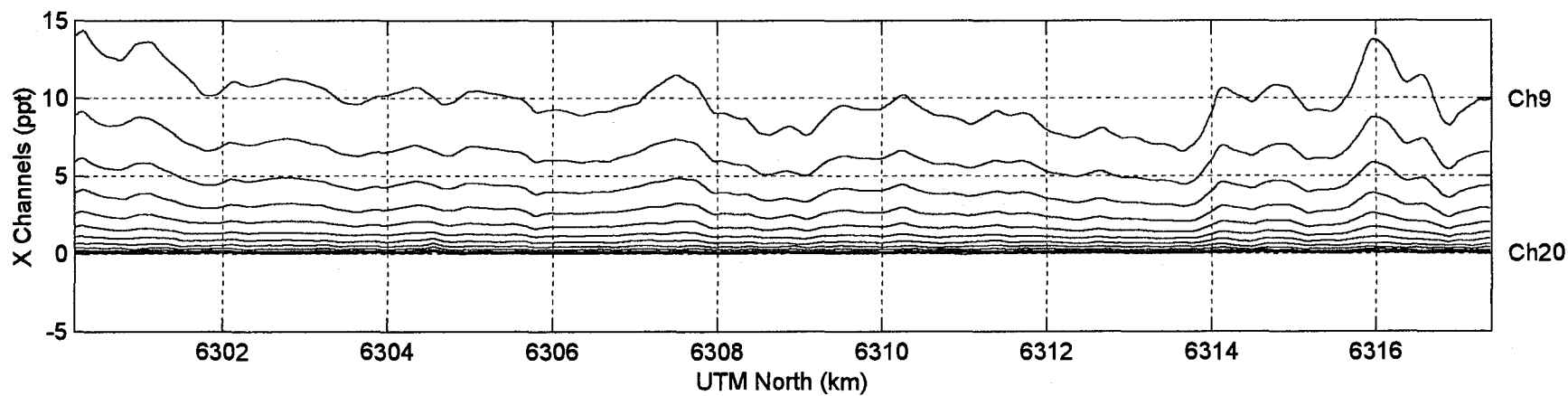
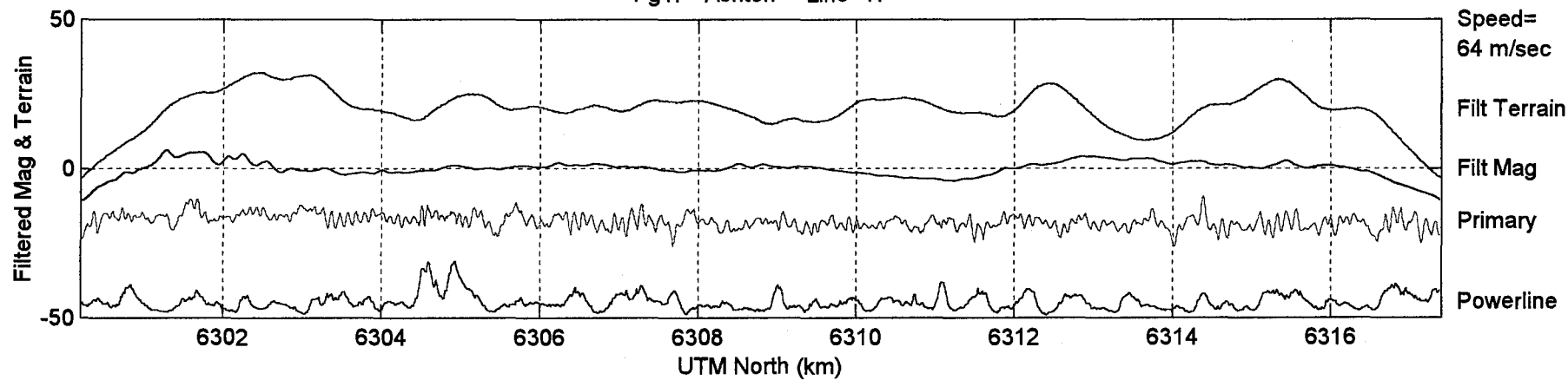


Pg1: Ashton Line=14

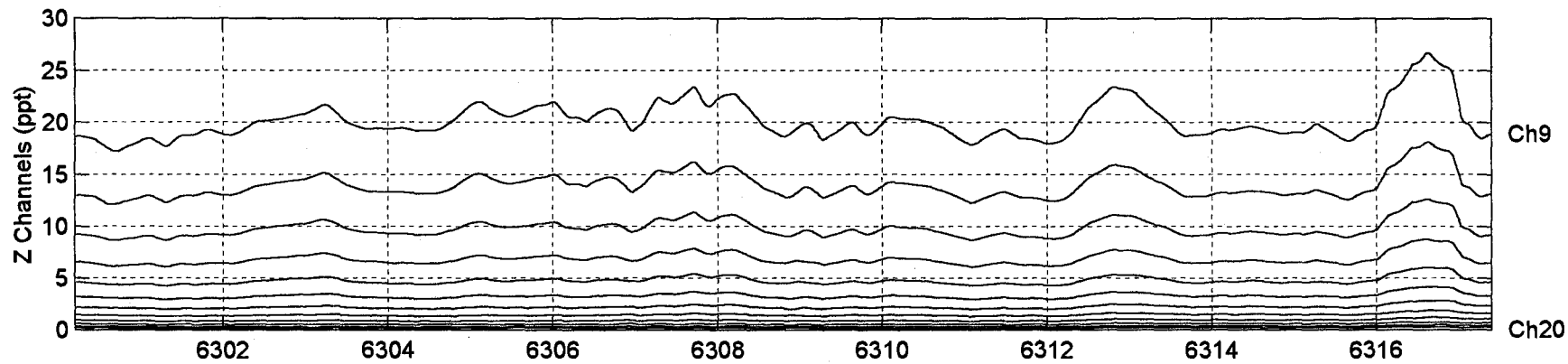
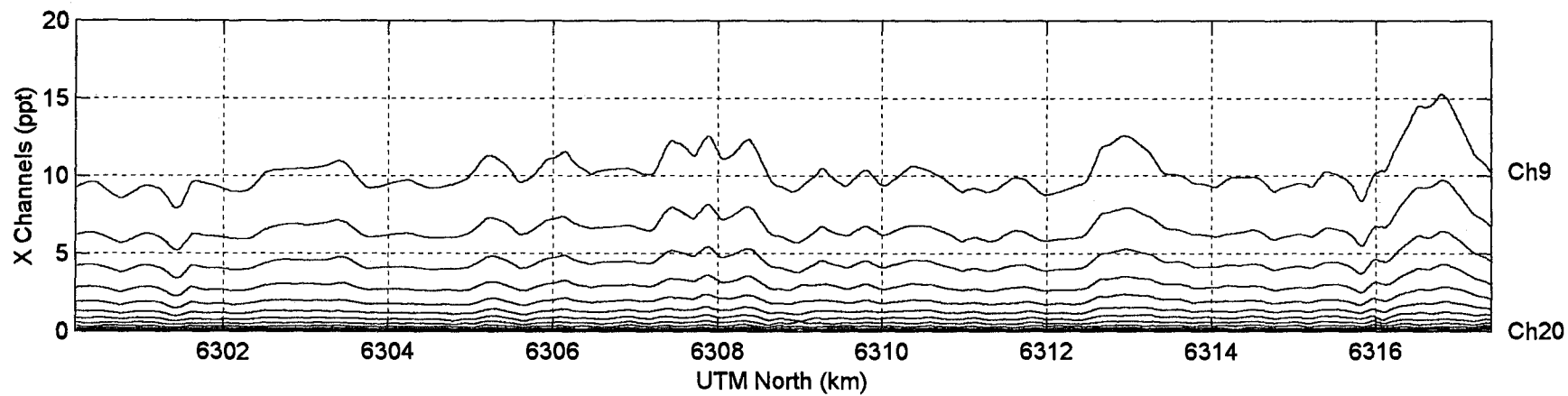
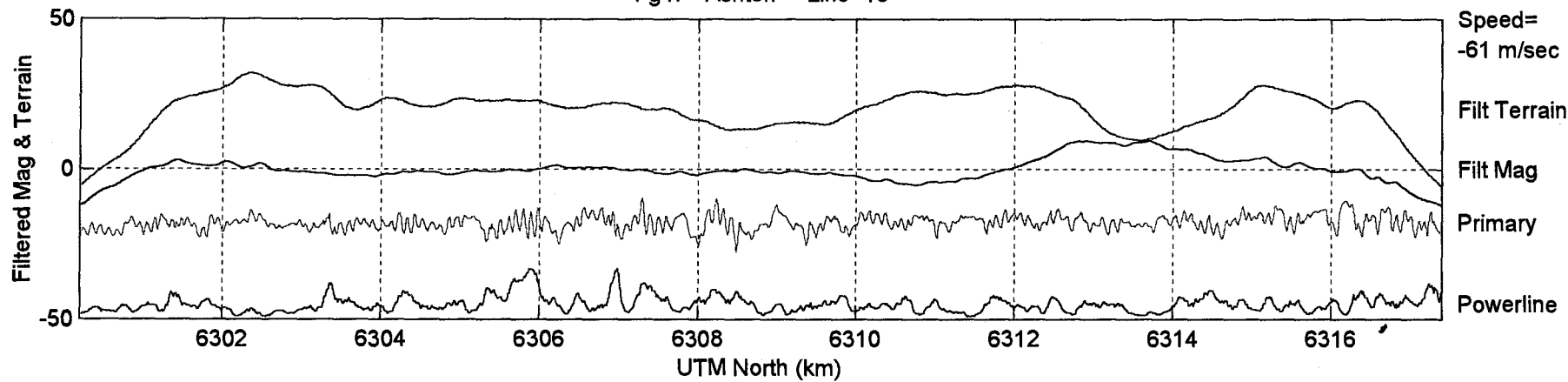


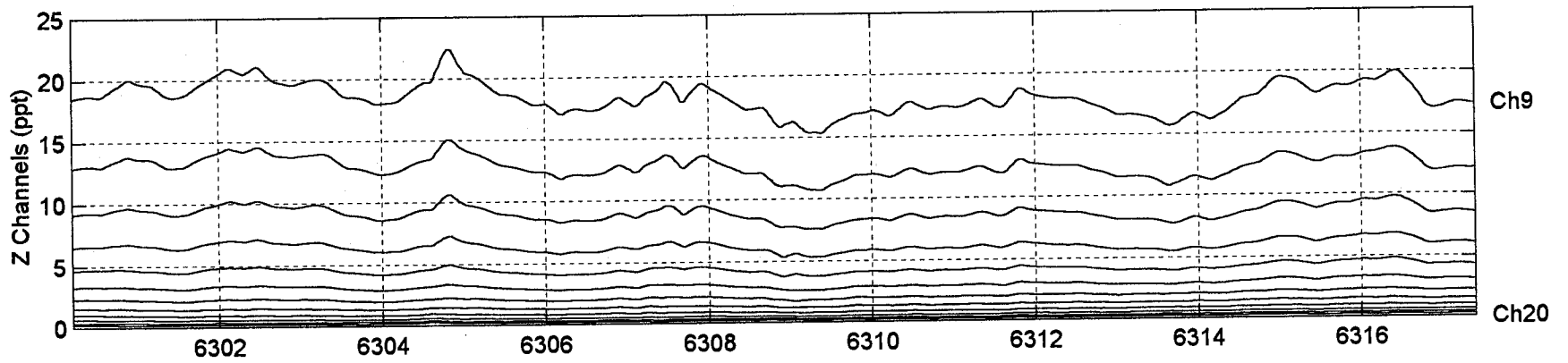
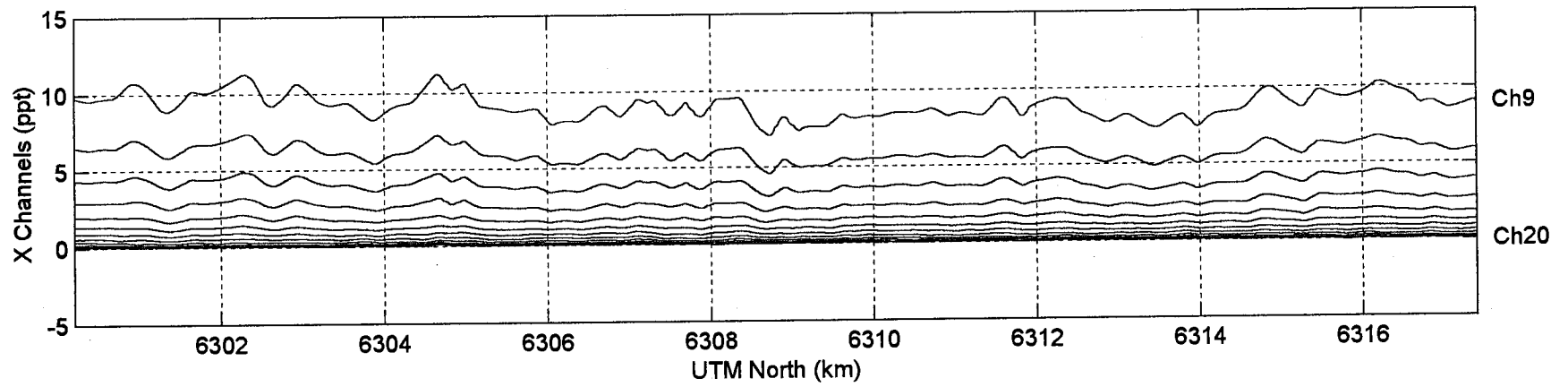
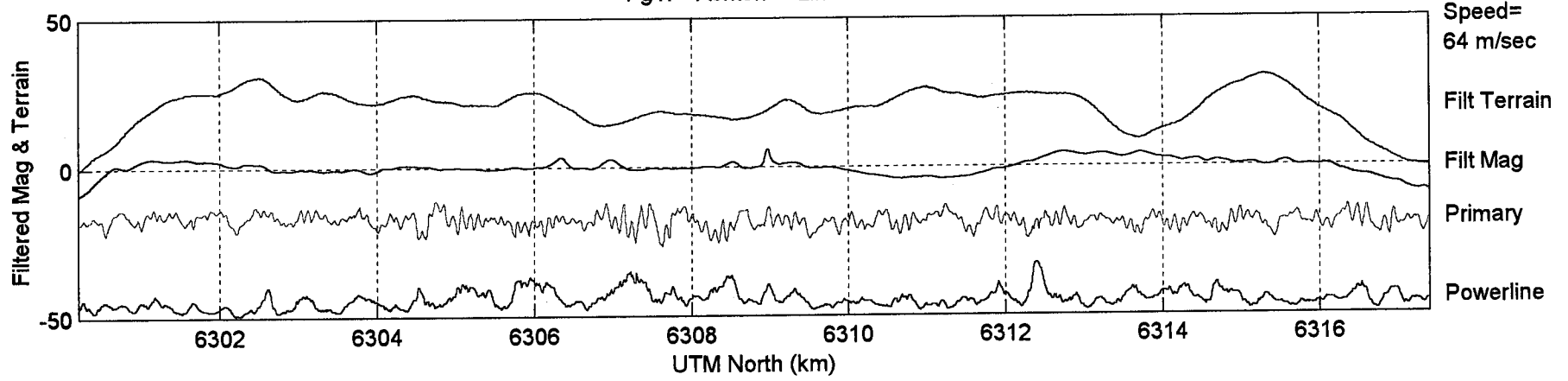


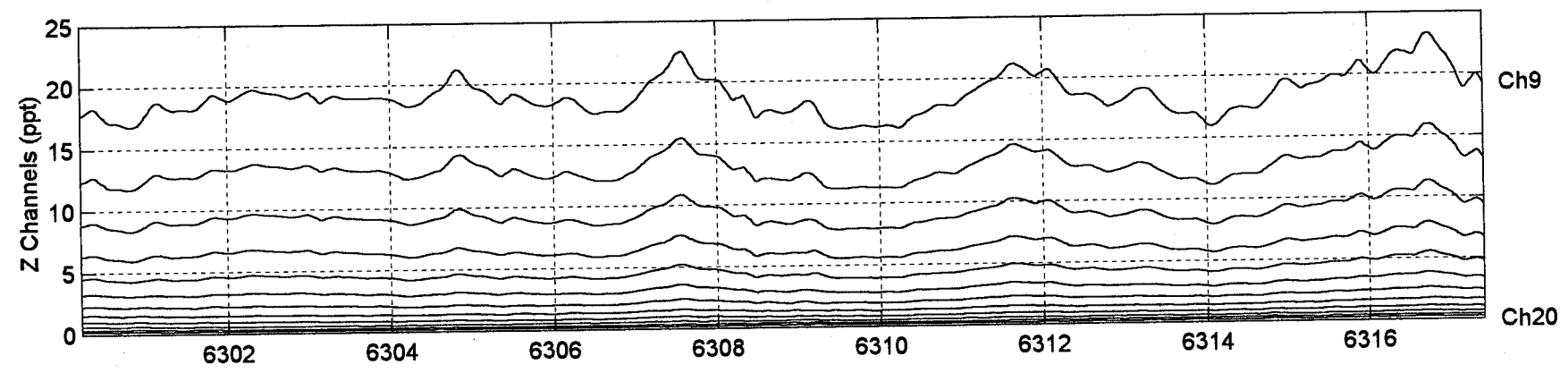
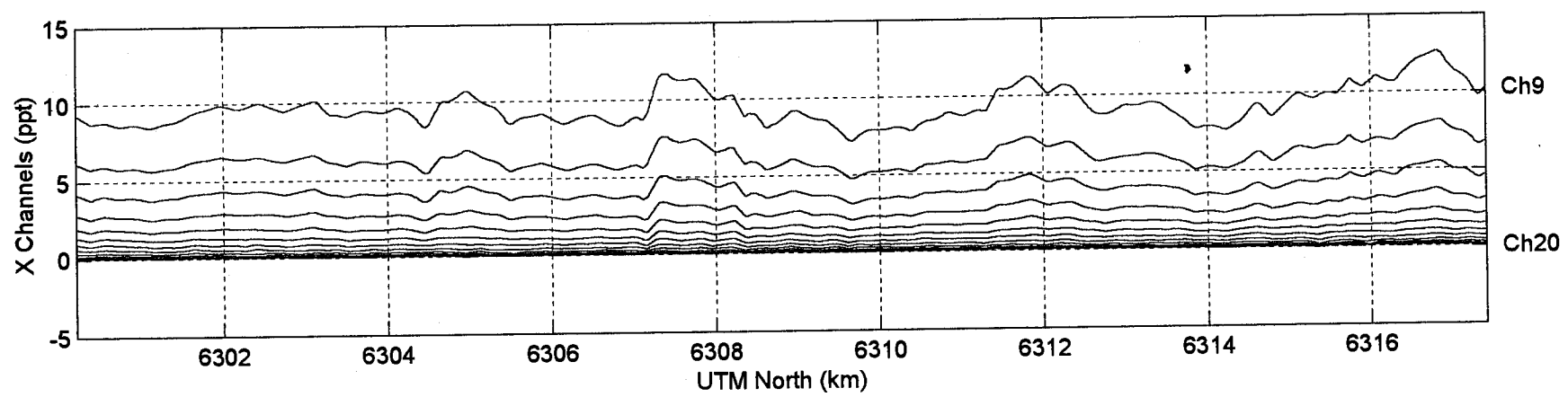
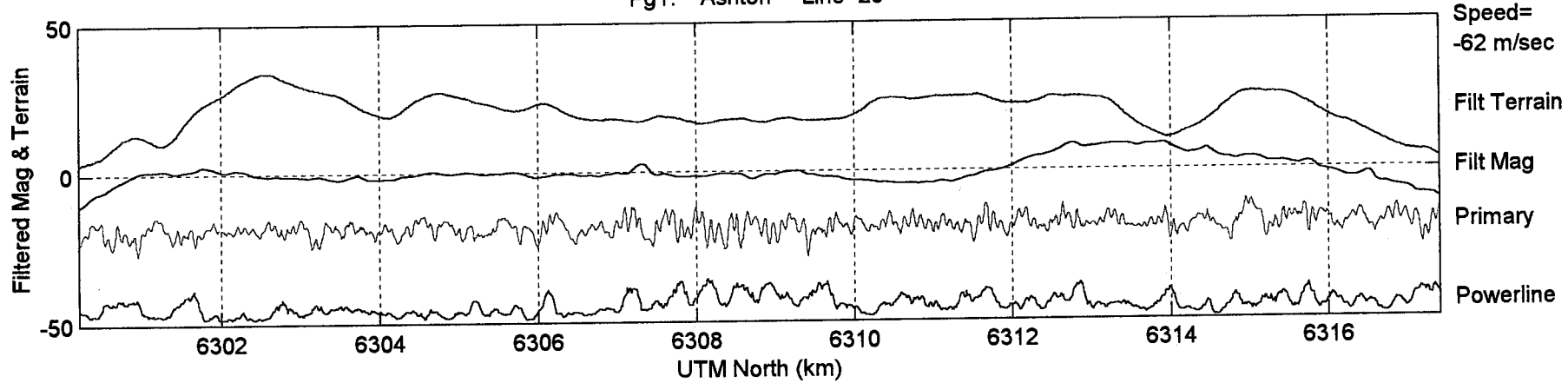


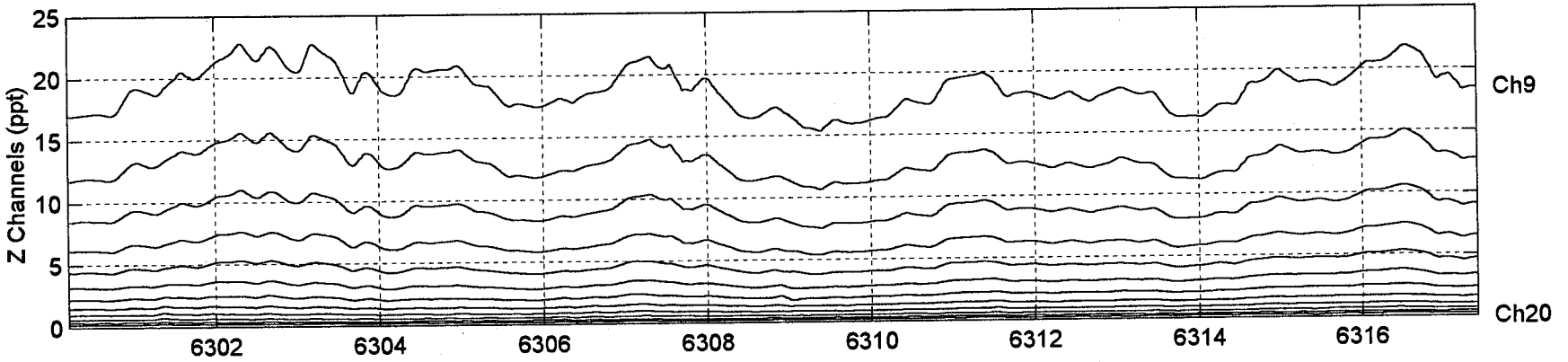
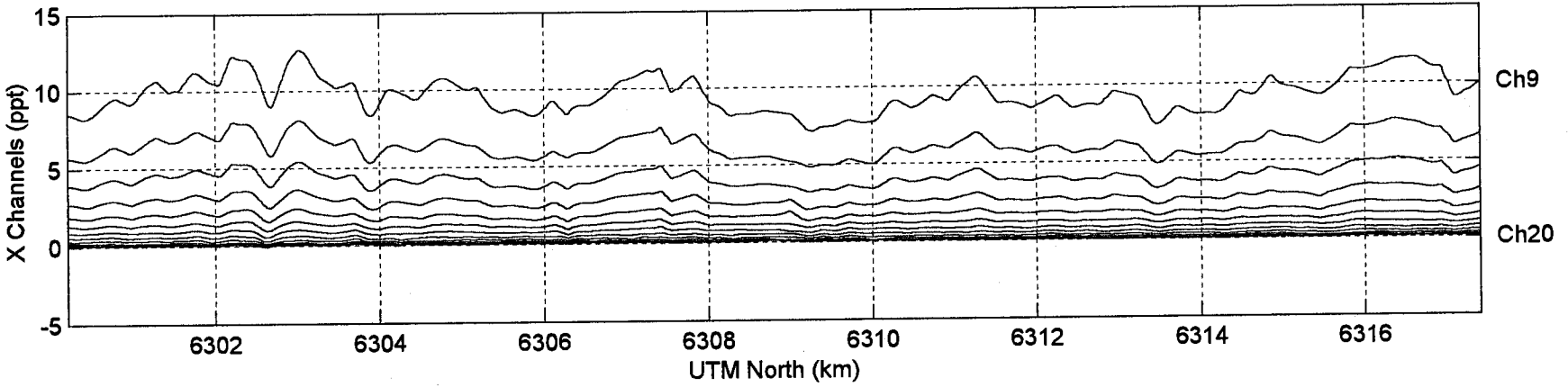
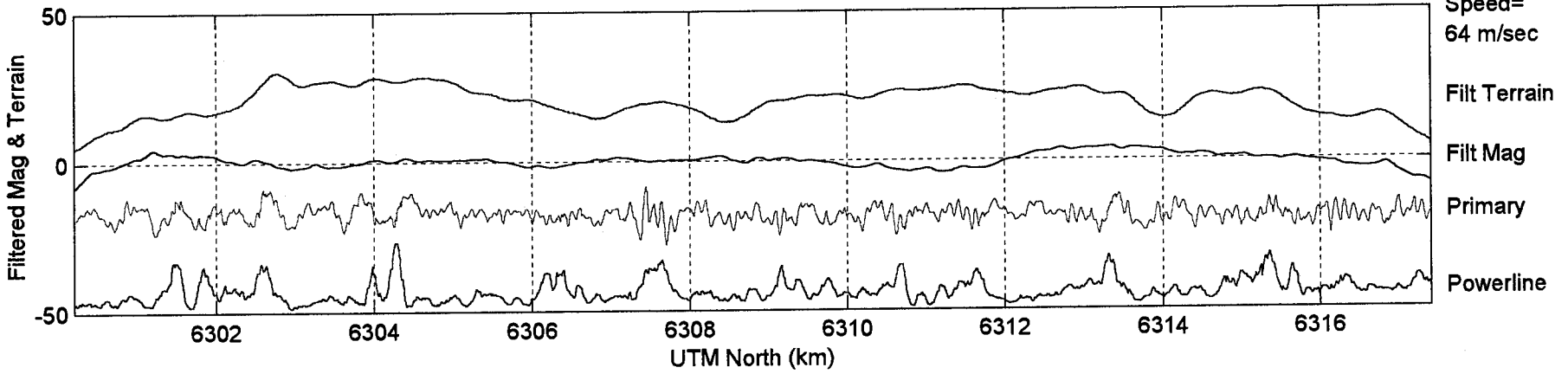


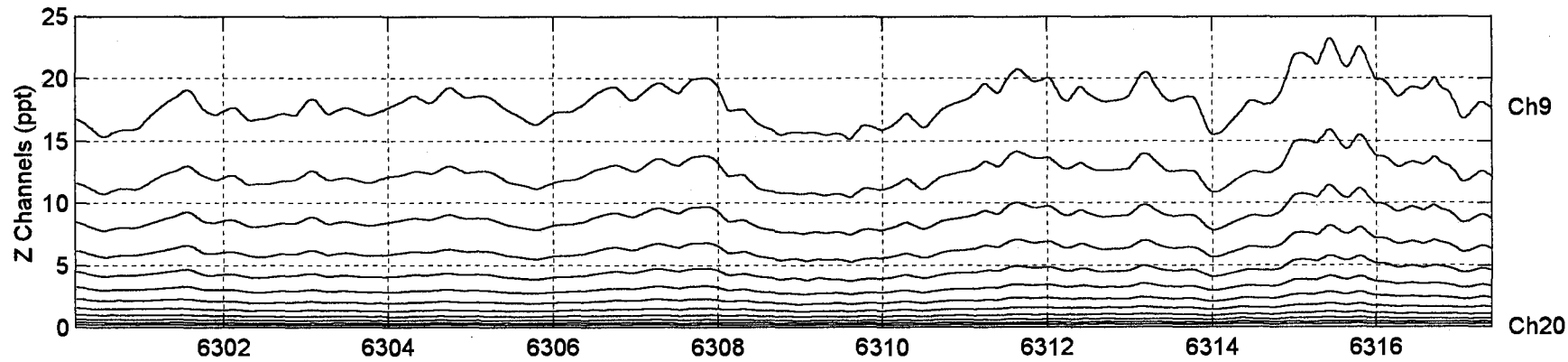
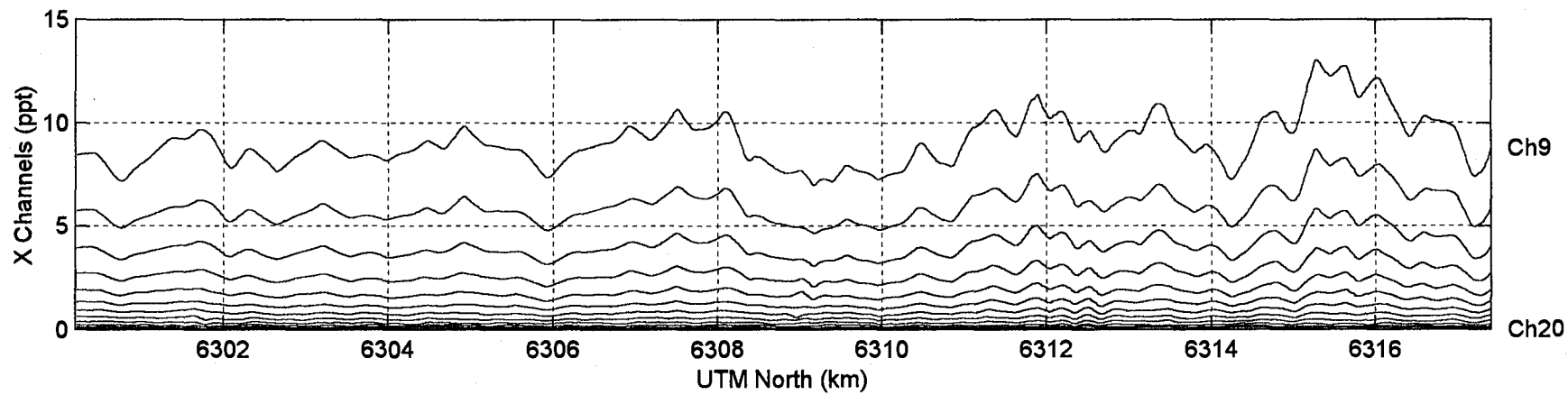
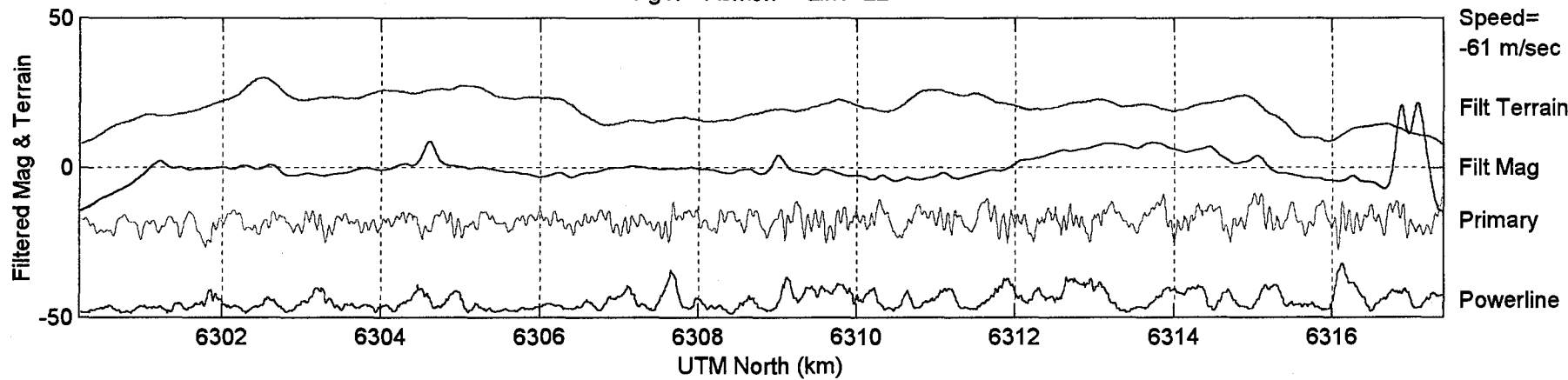
Pg1: Ashton Line=18

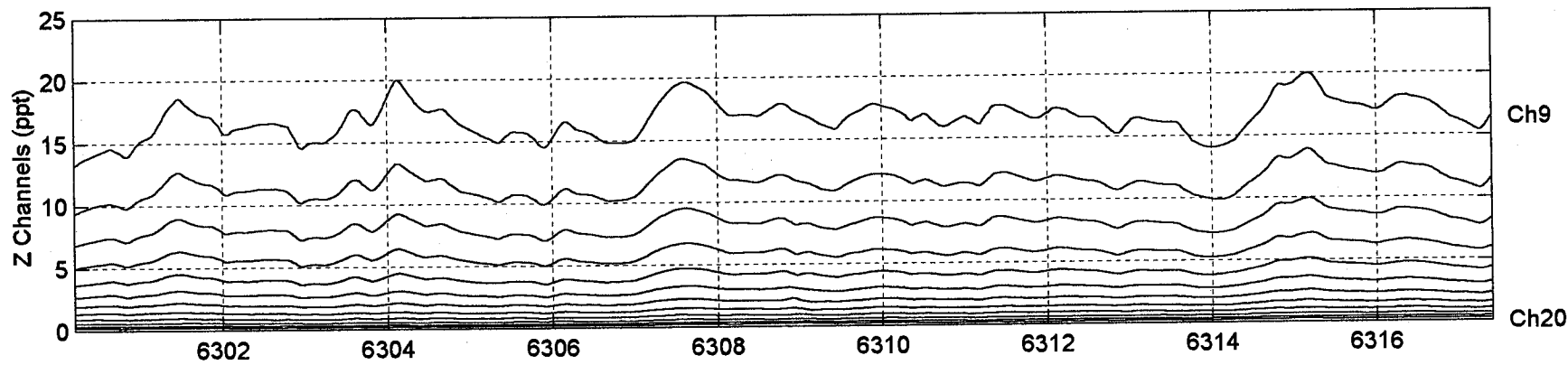
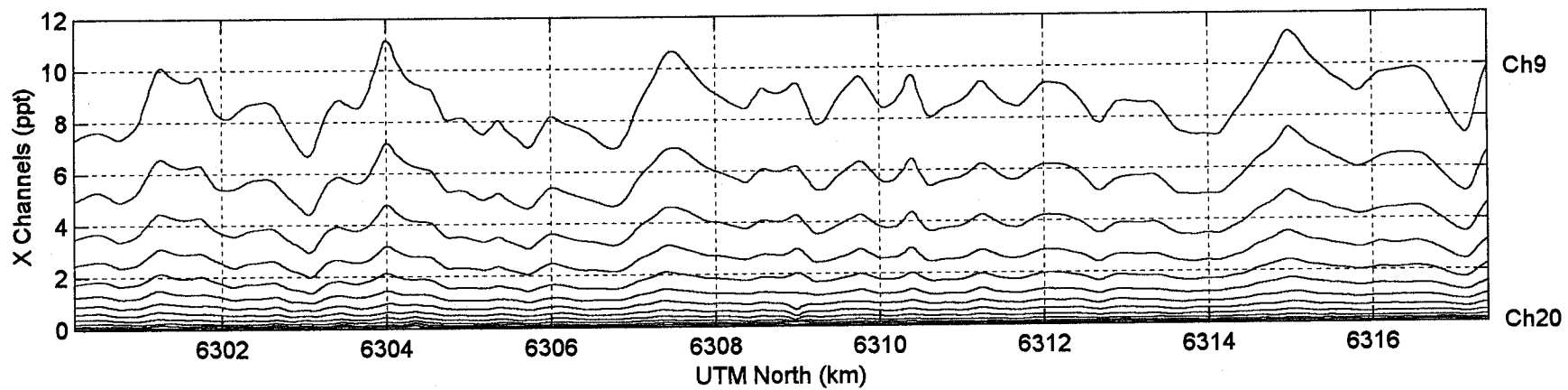
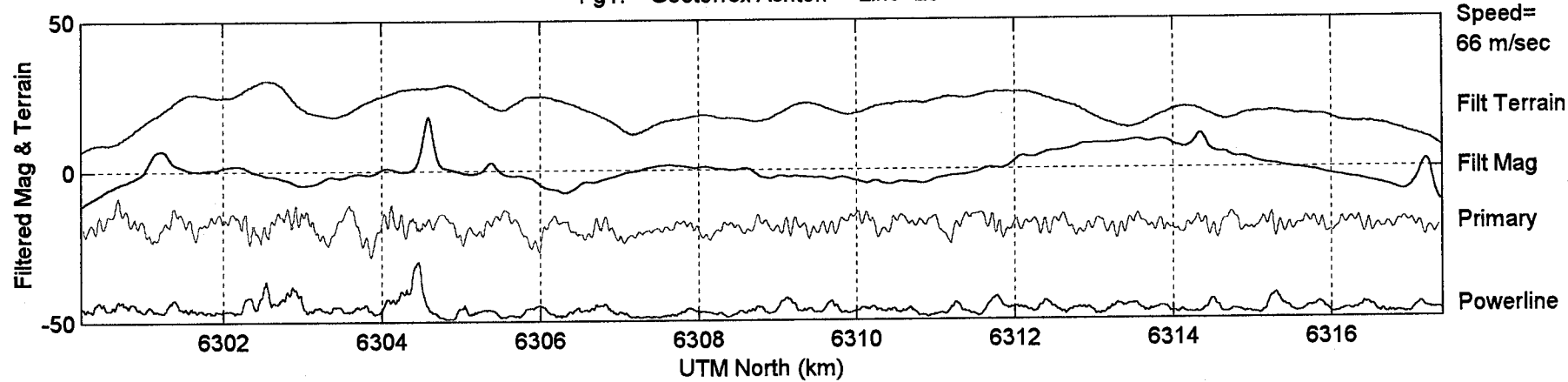


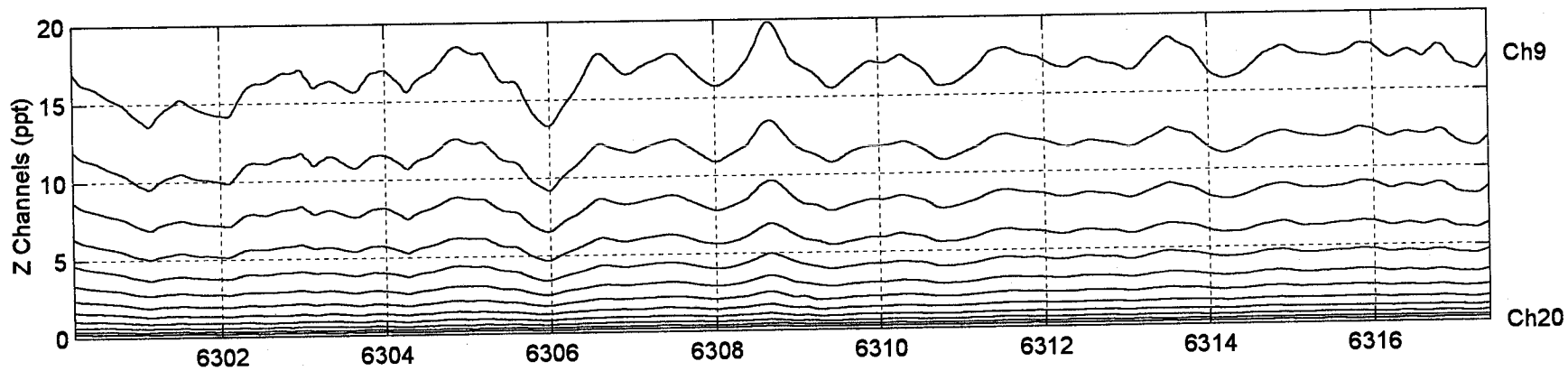
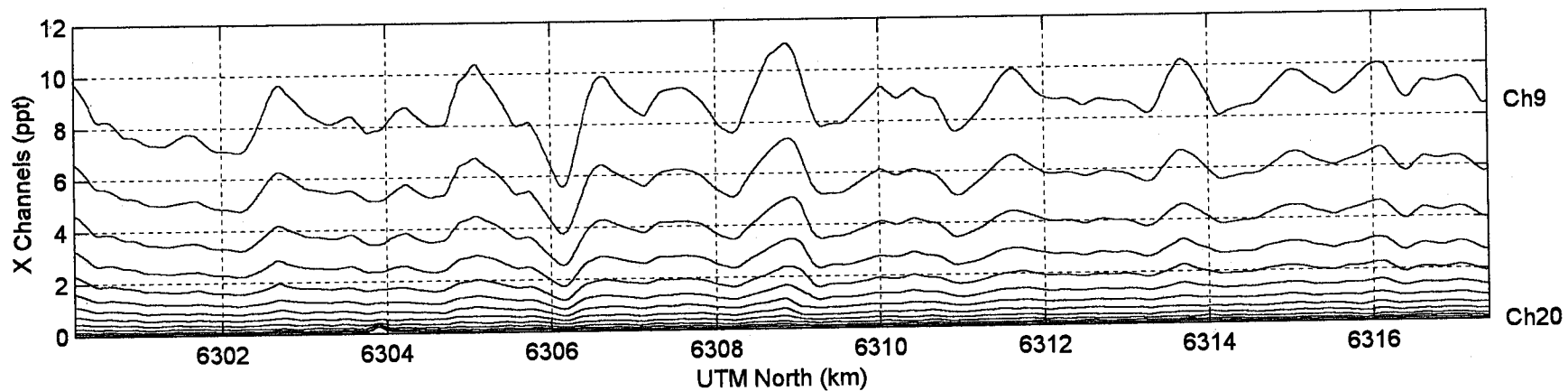
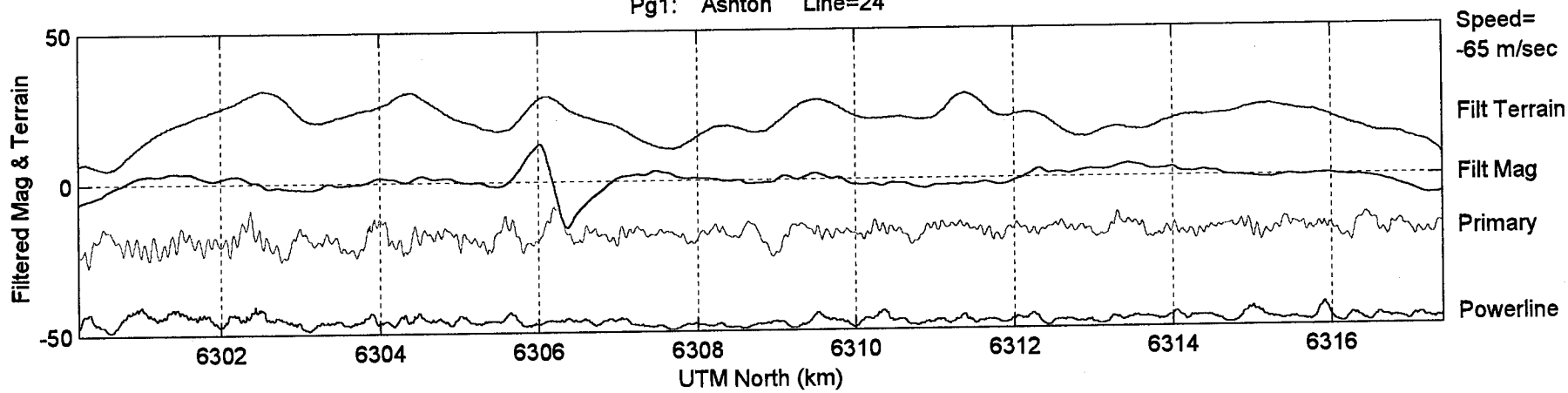




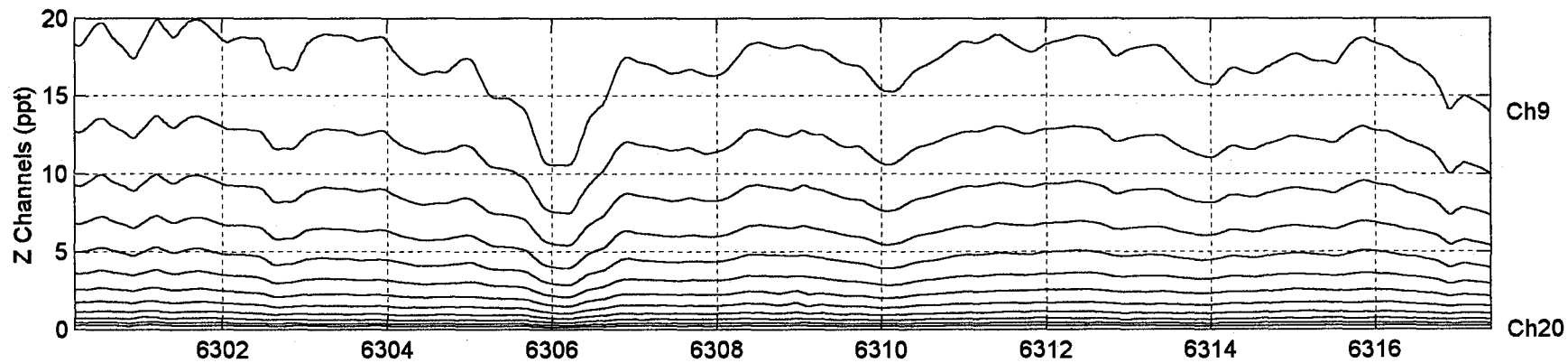
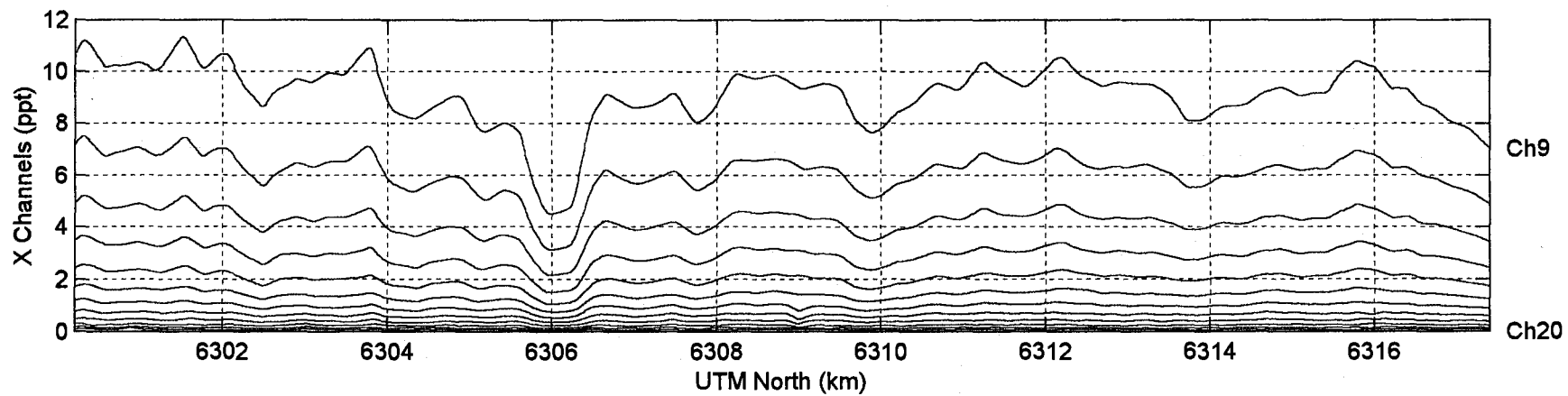
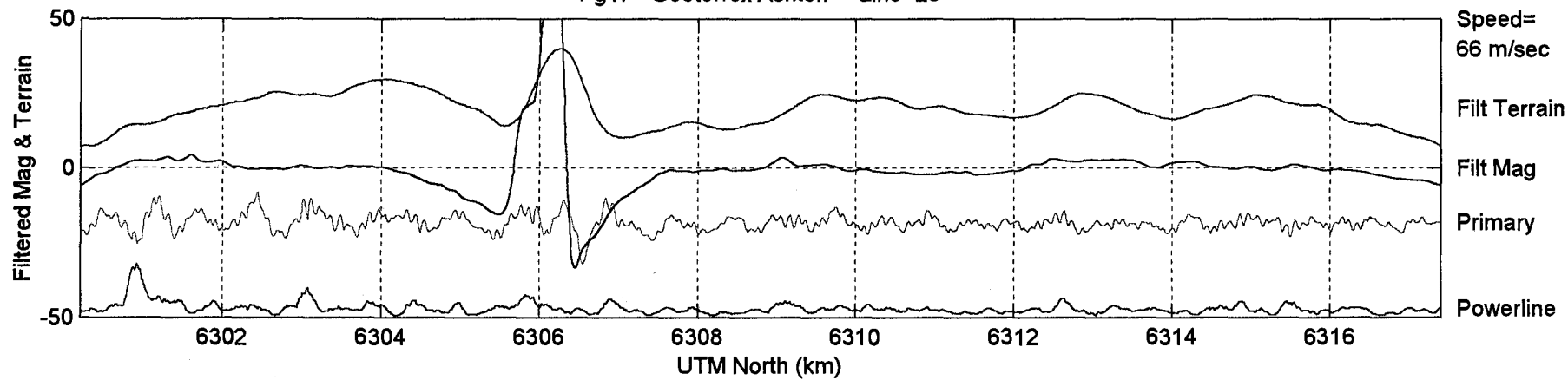




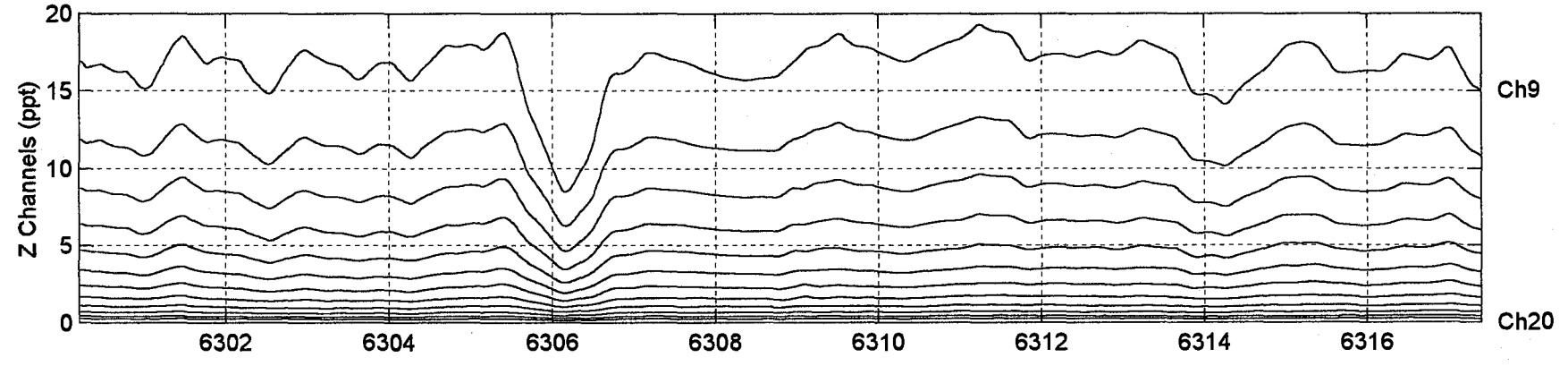
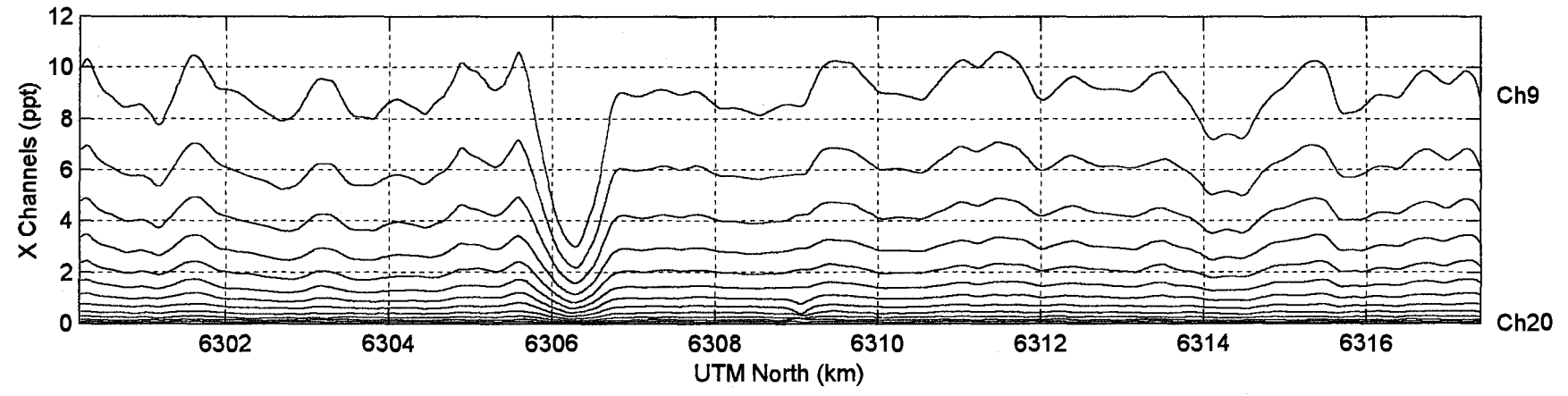
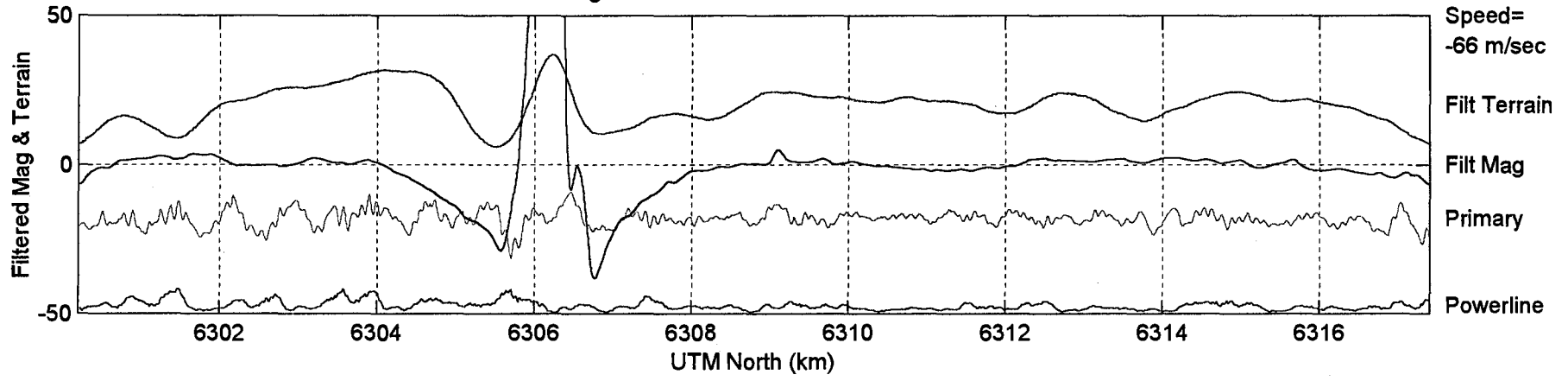




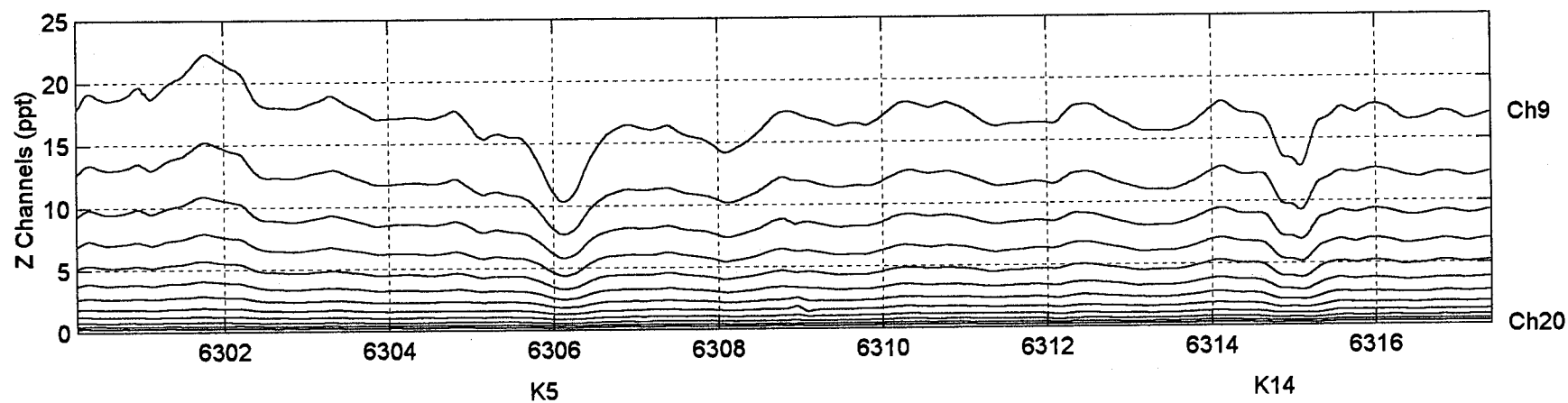
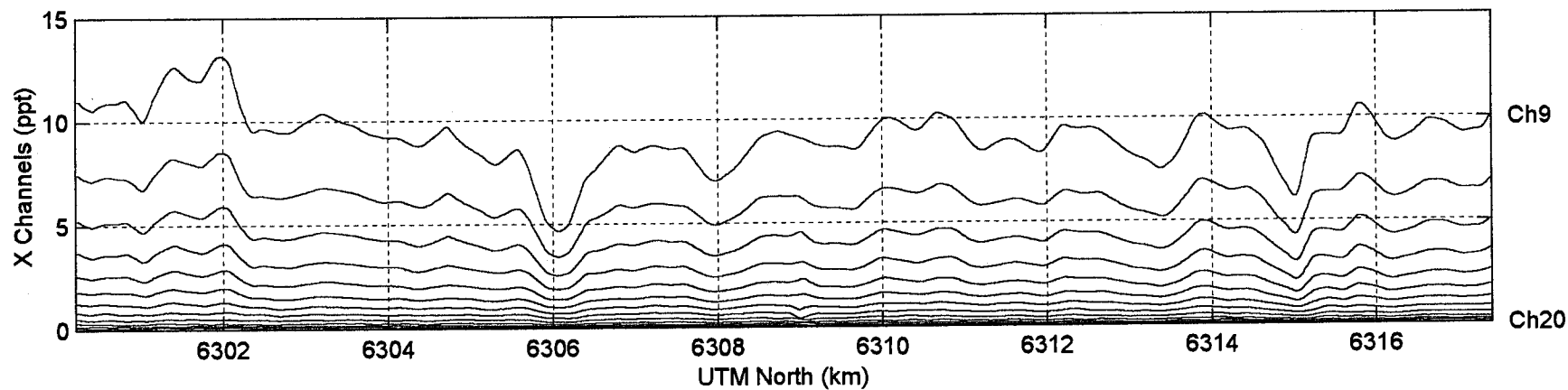
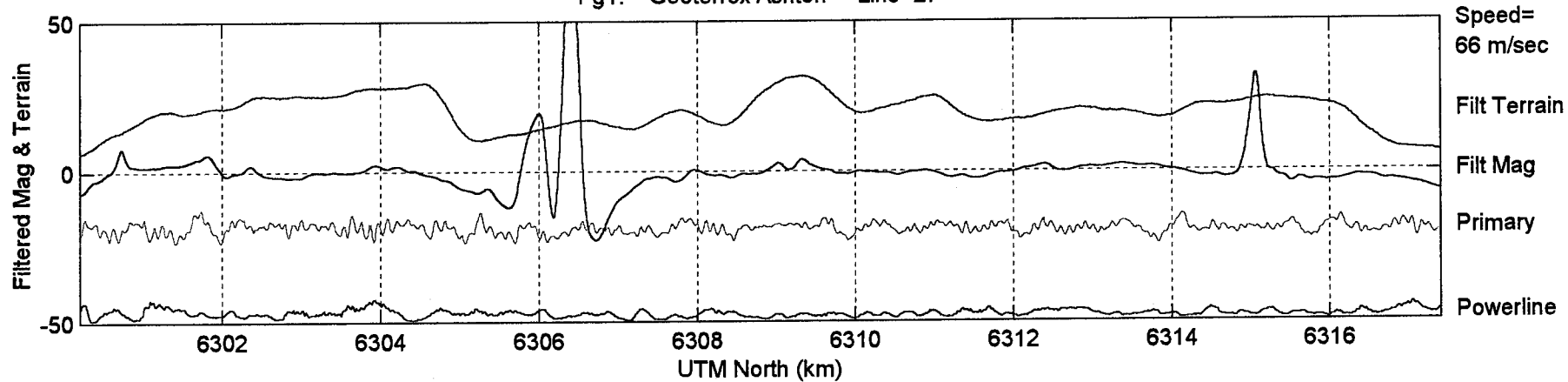
Pg1: Geotrex Ashton Line=25



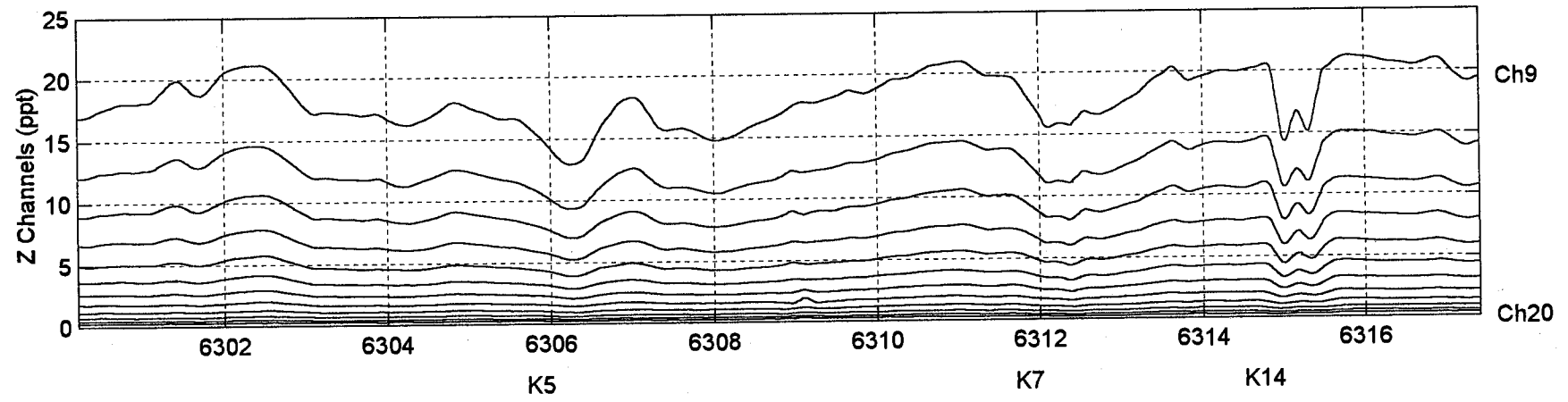
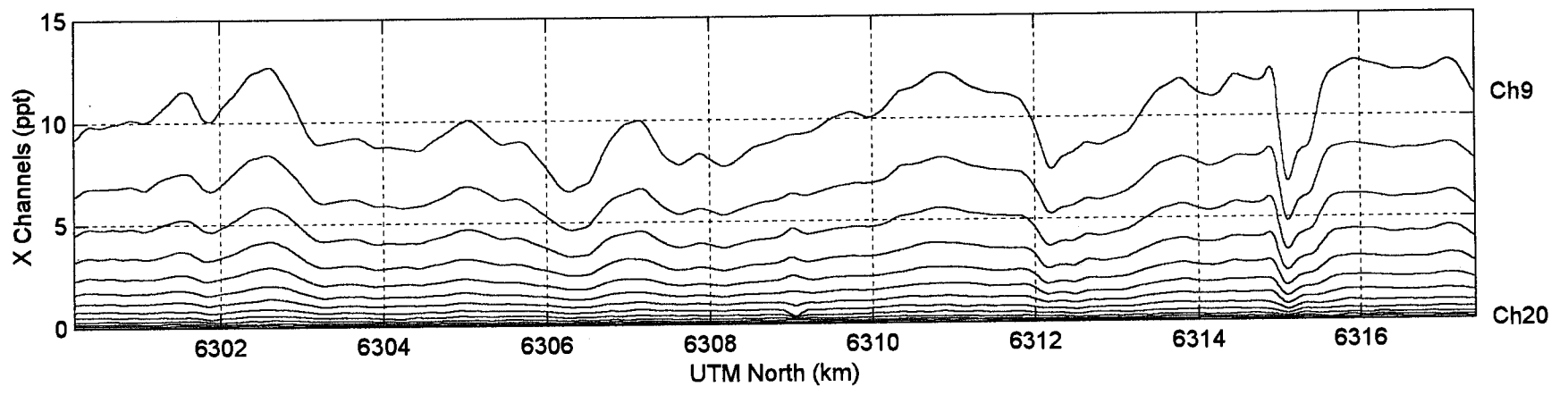
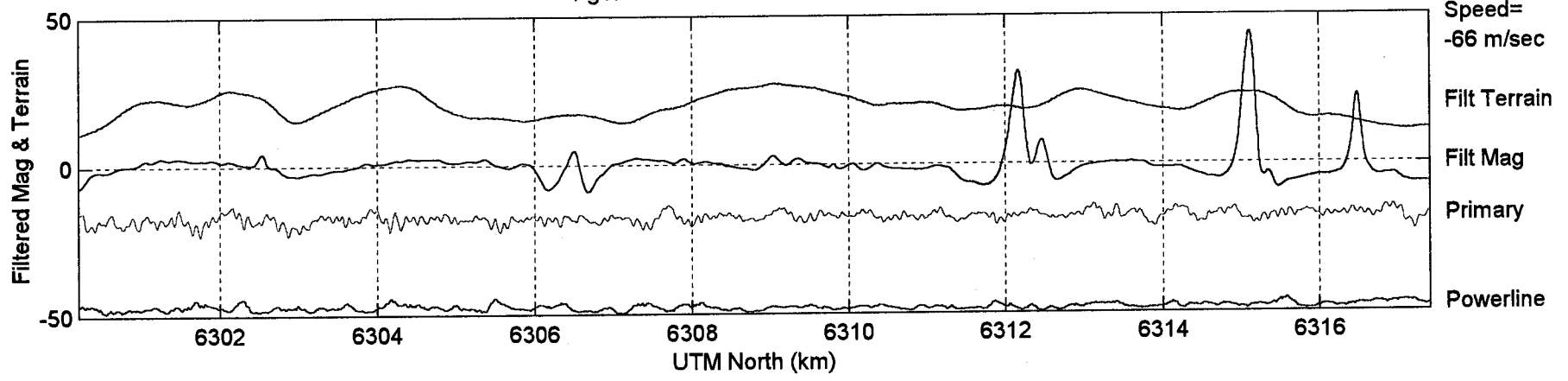
Pg1: Geoterrex Ashton Line=26



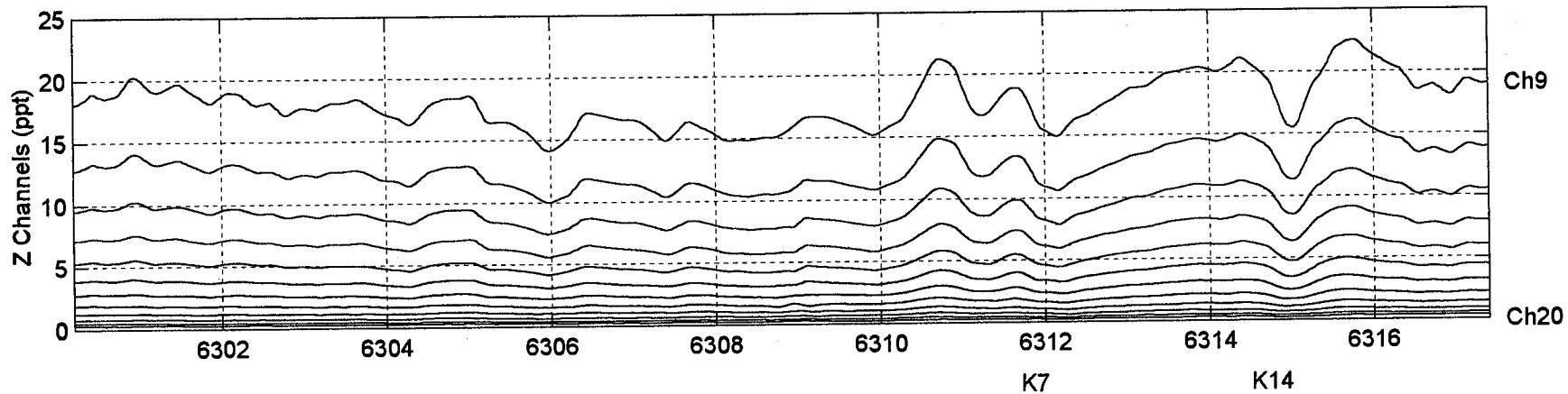
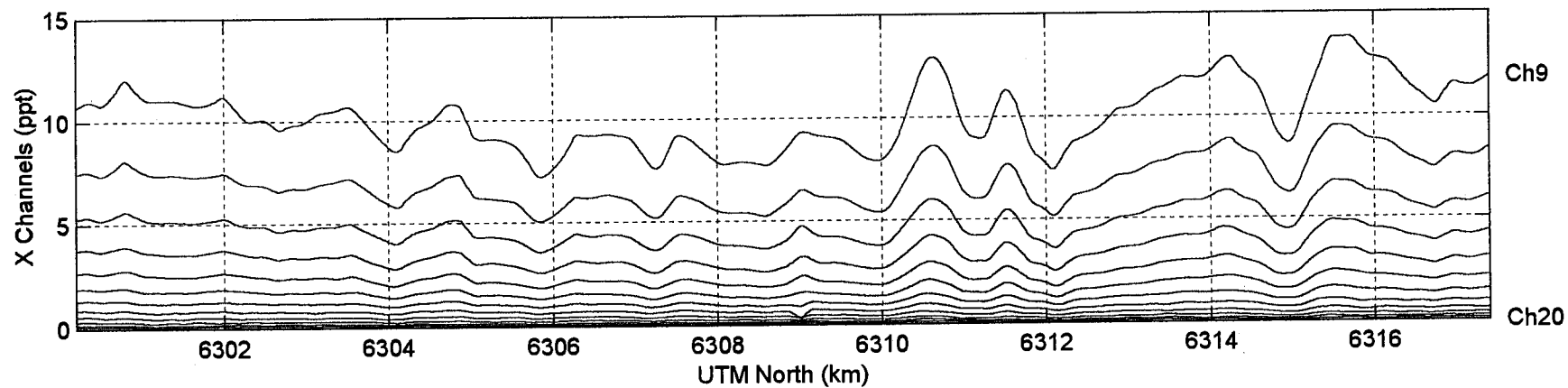
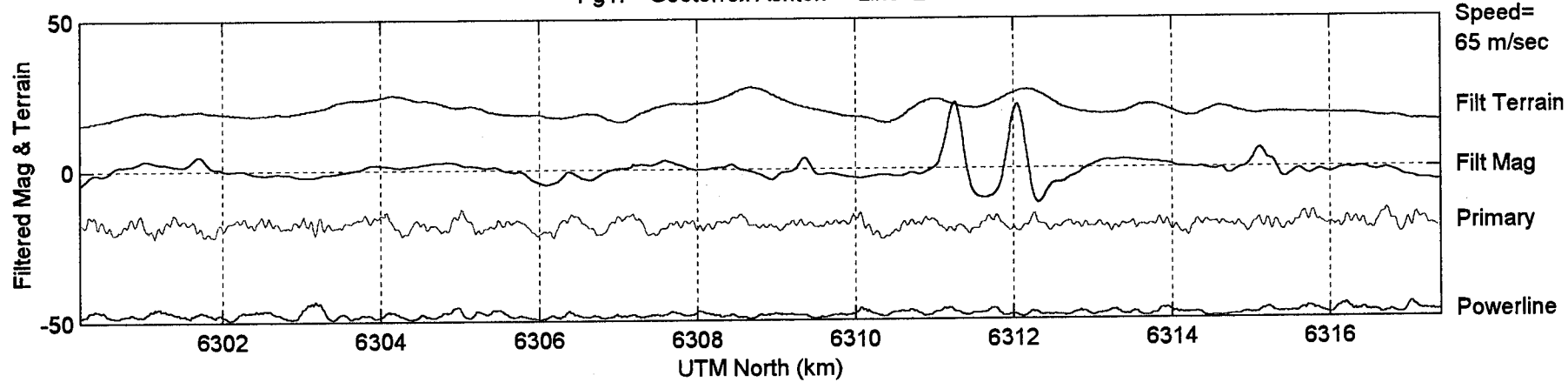
Pg1: Geoterrex Ashton Line=27

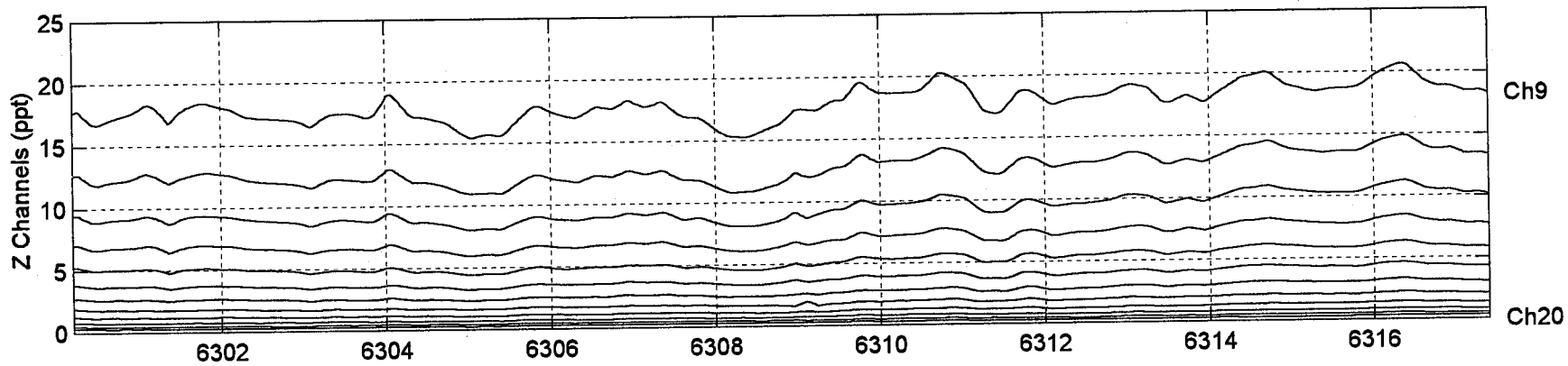
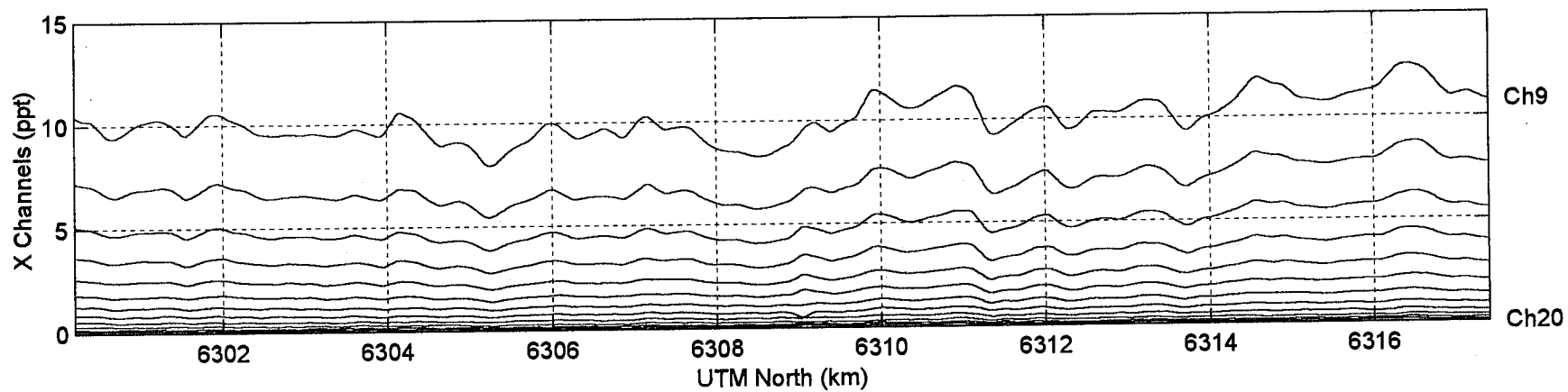
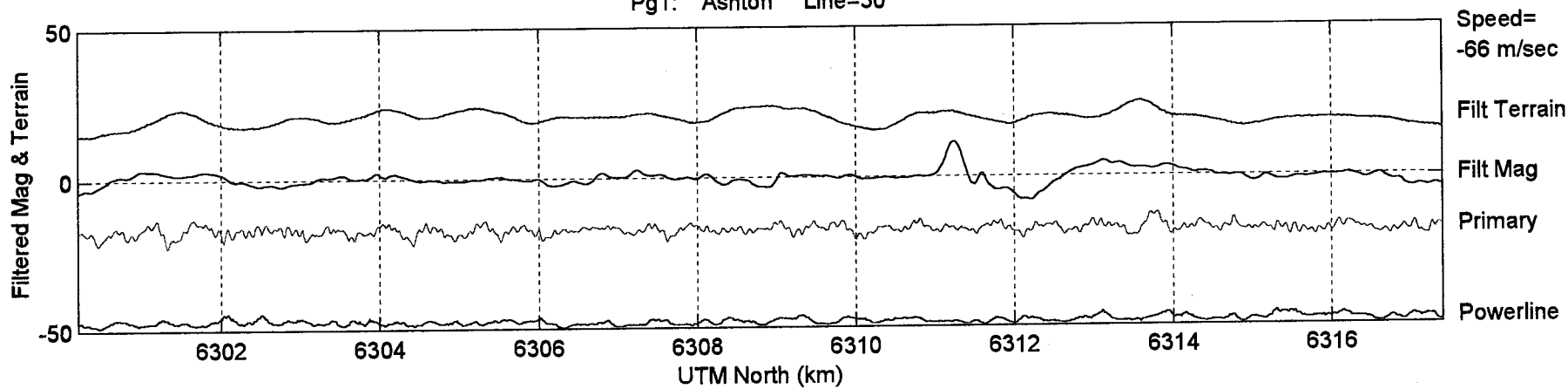


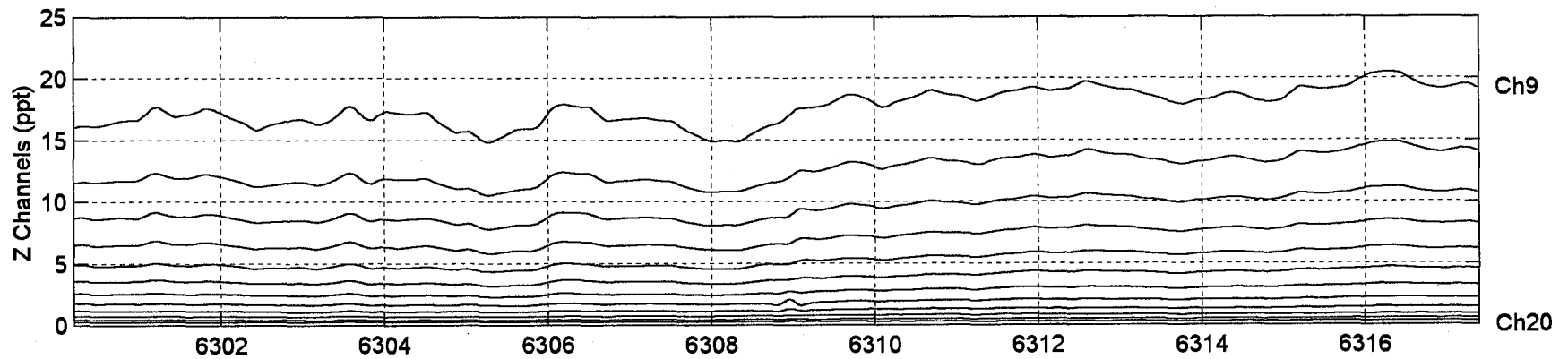
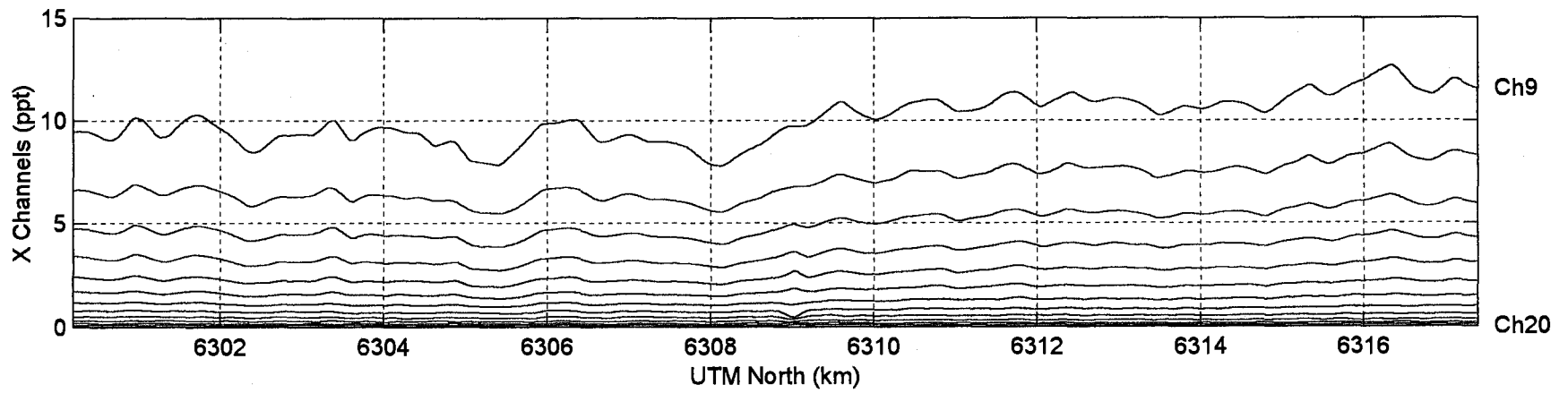
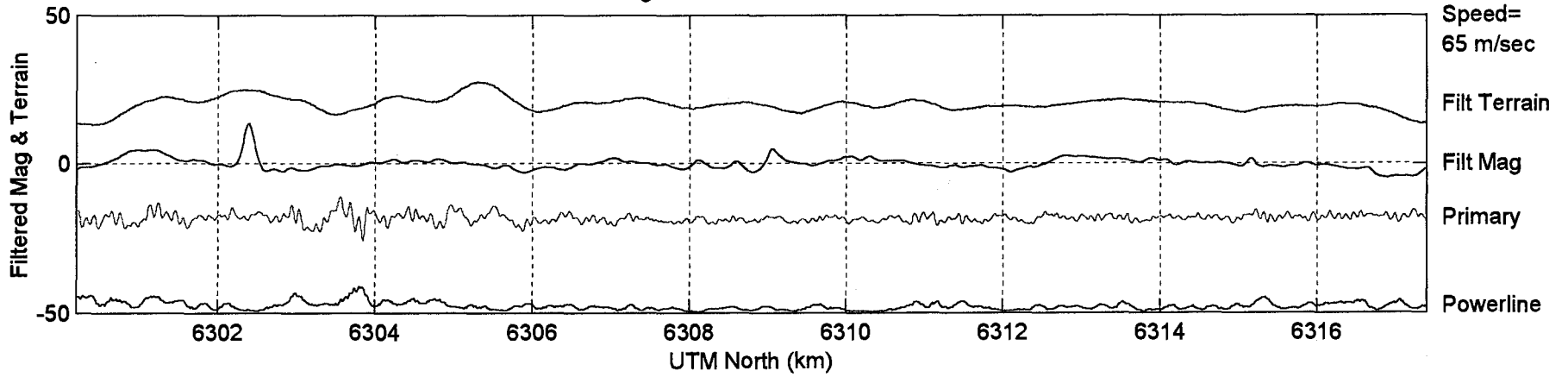
Pg1: Geoterrex Ashton Line=28

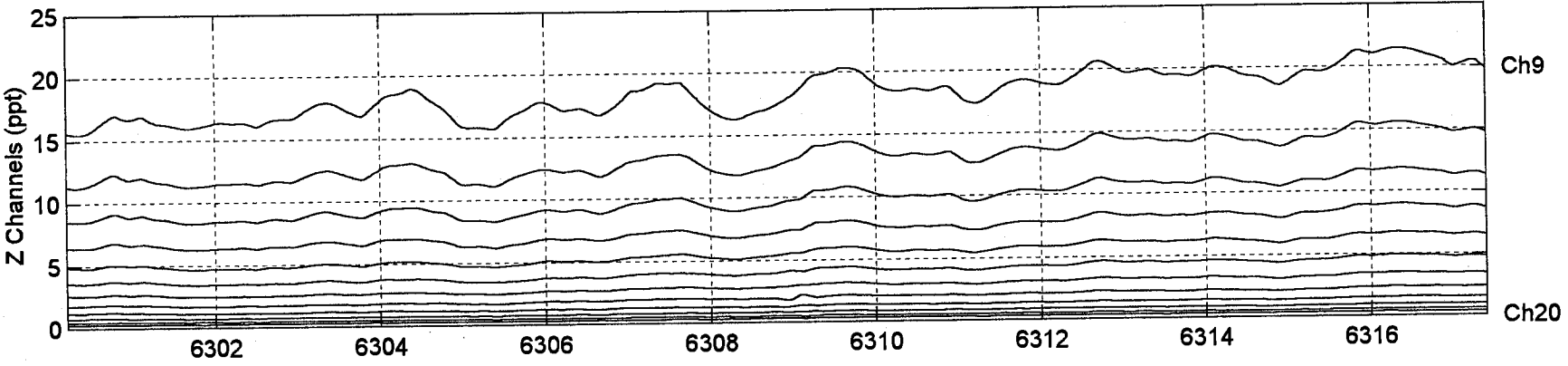
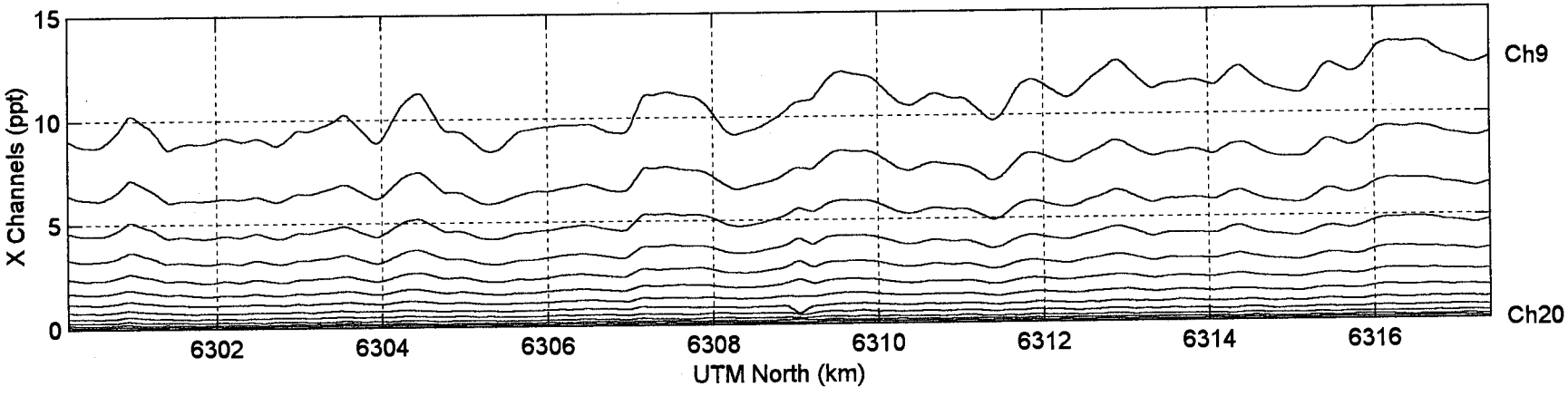
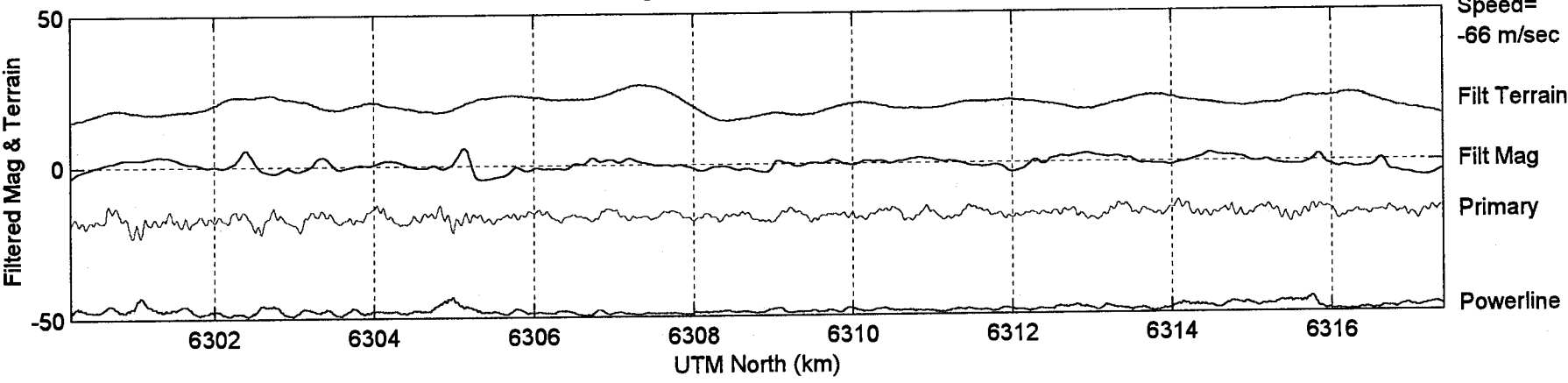


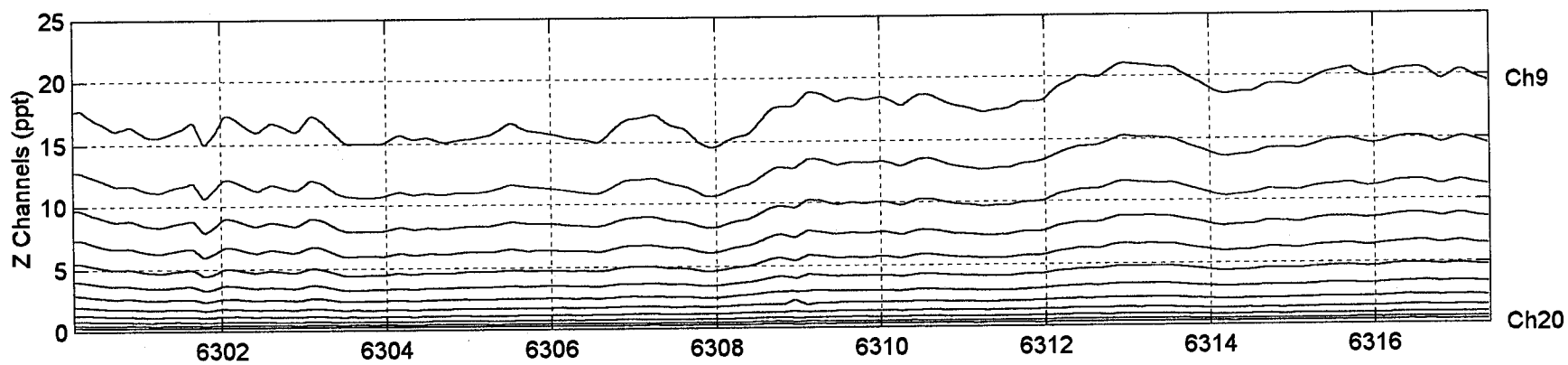
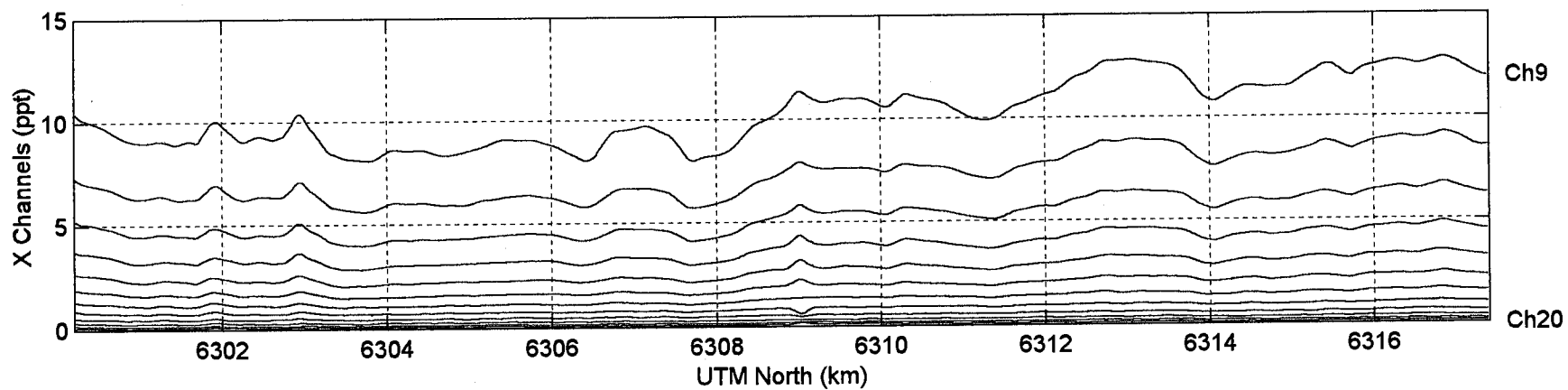
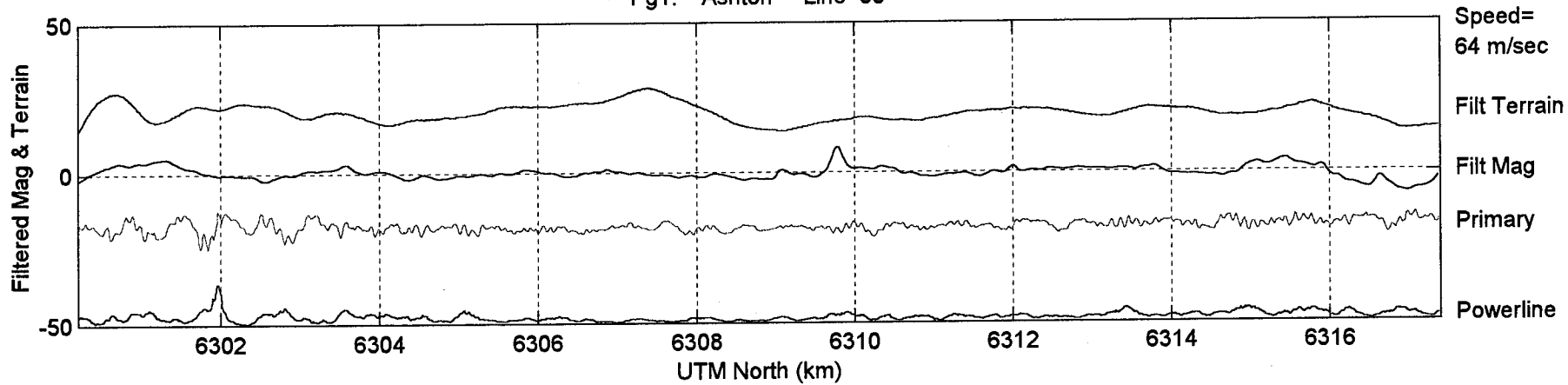
Pg1: Geoterrex Ashton Line=29

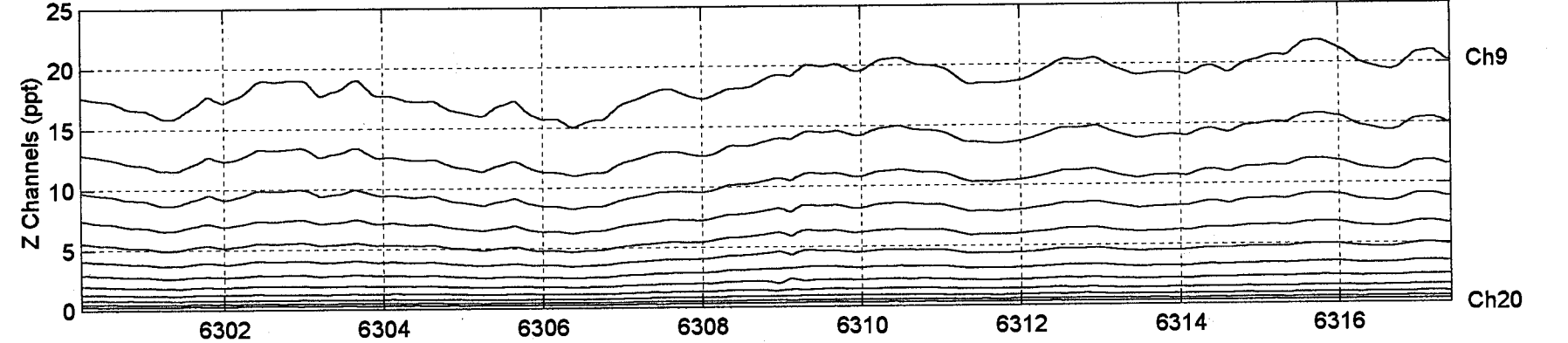
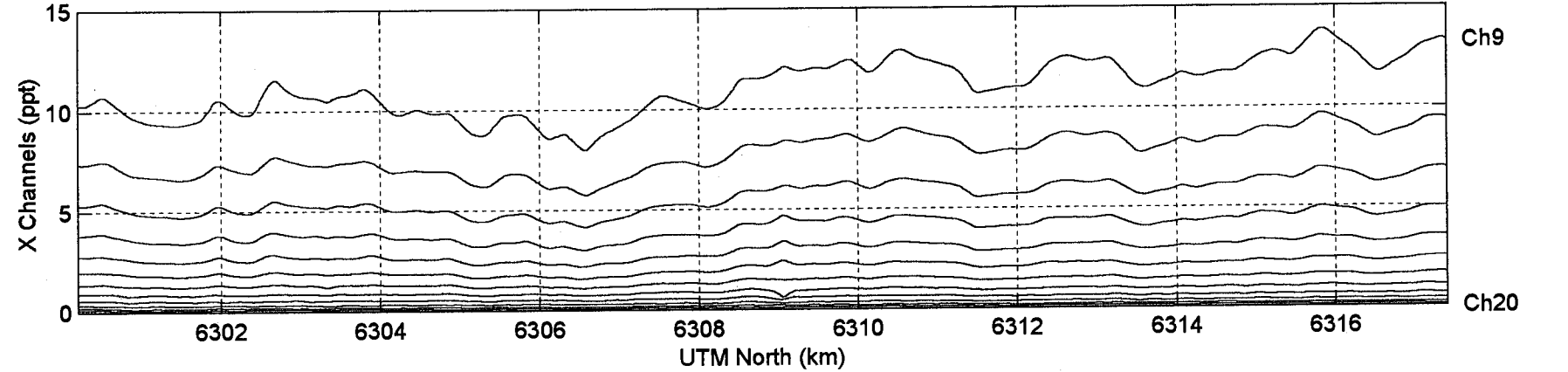
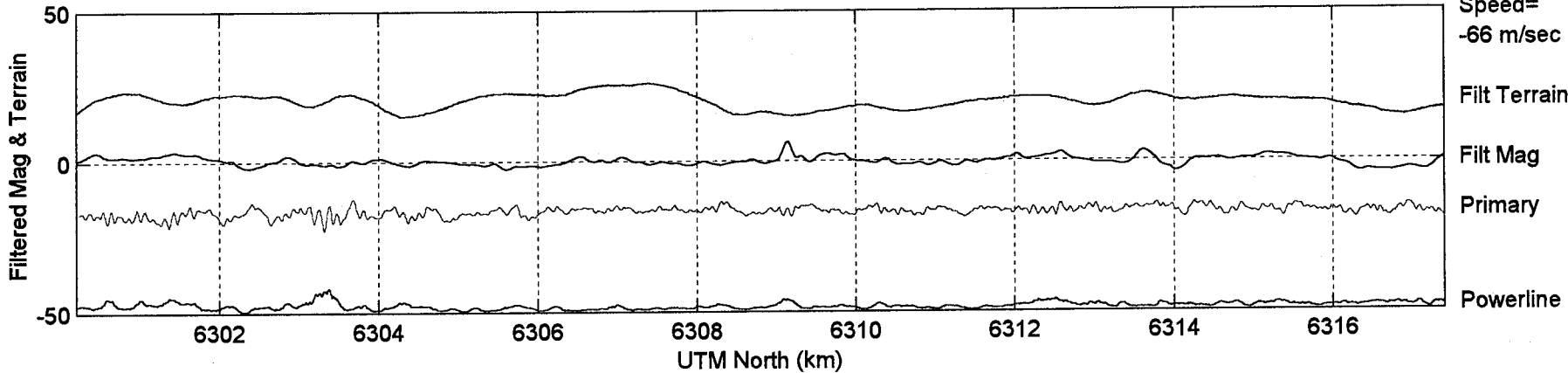


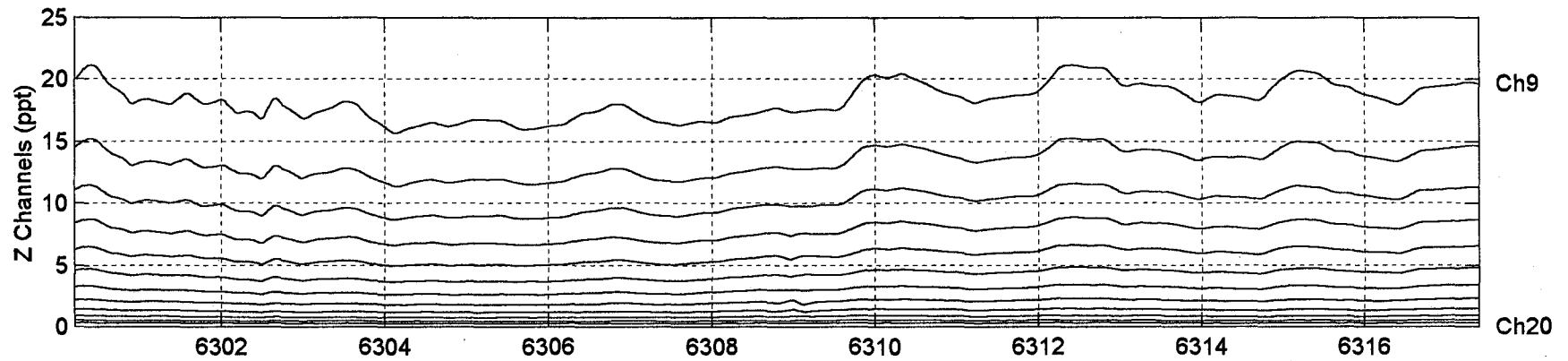
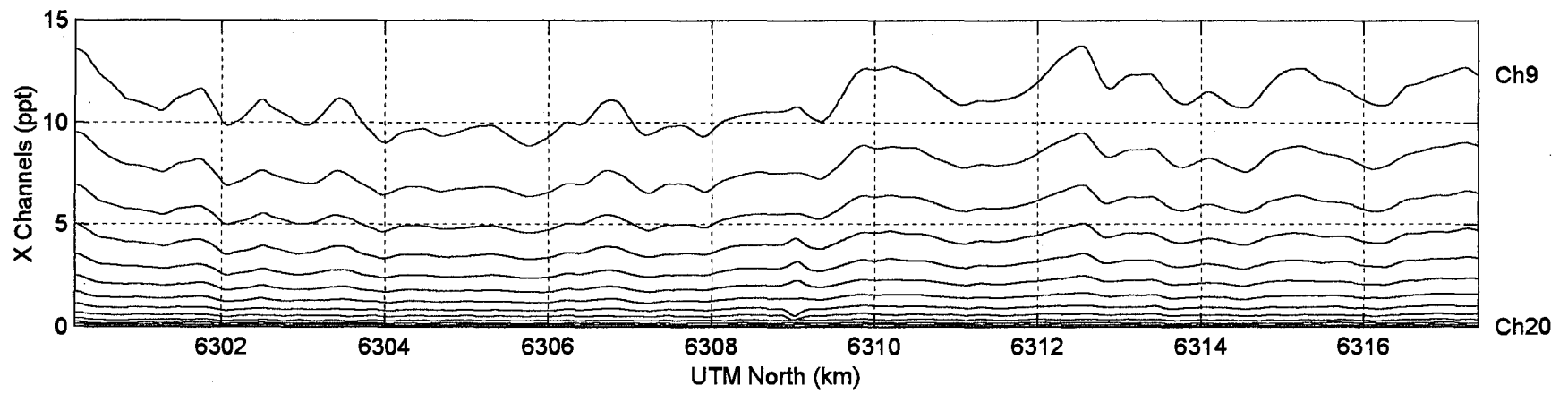
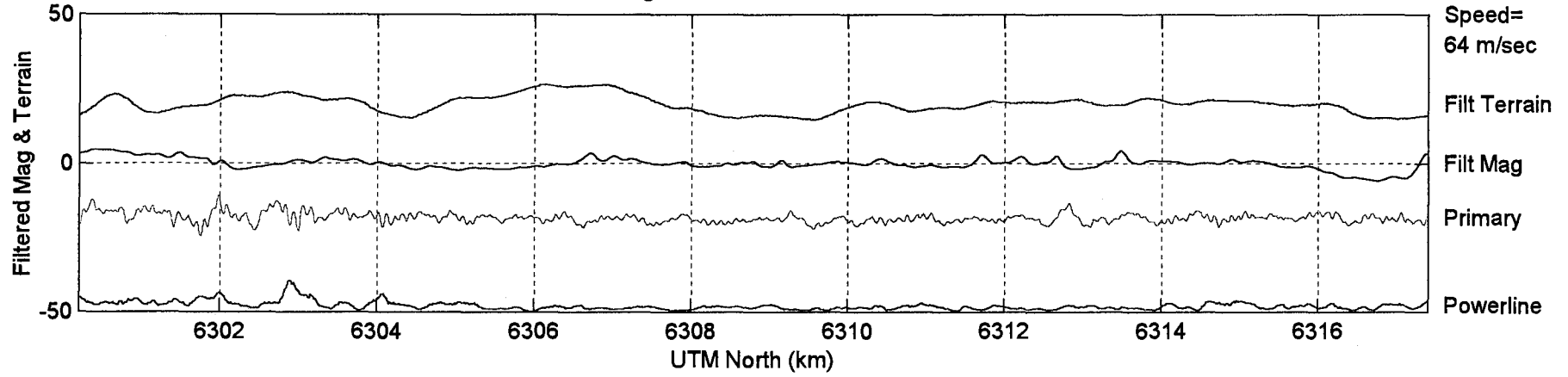


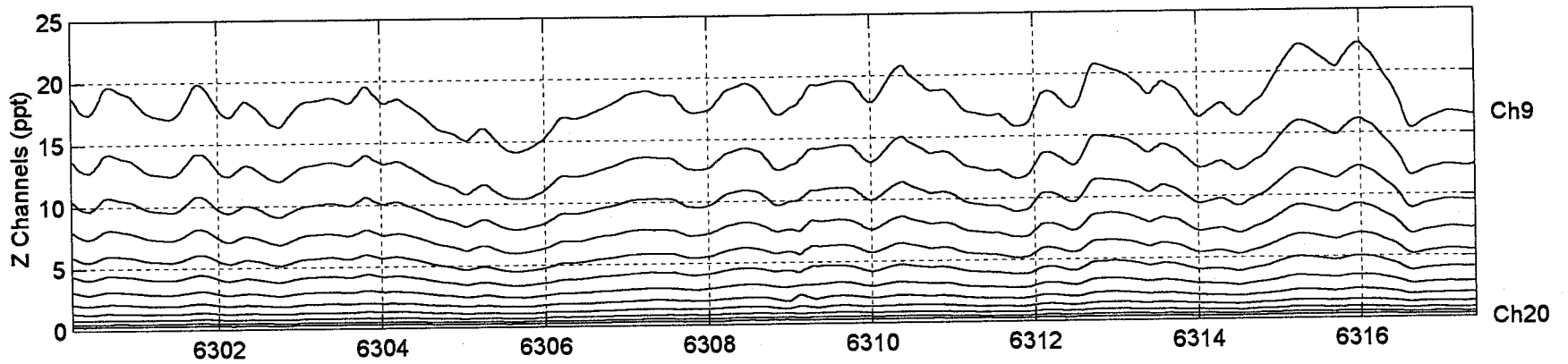
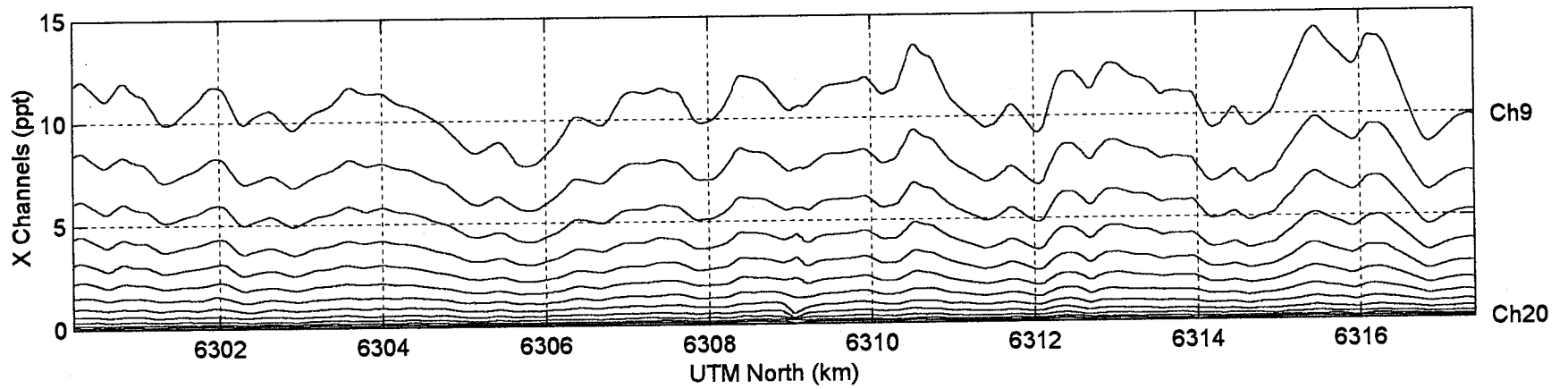
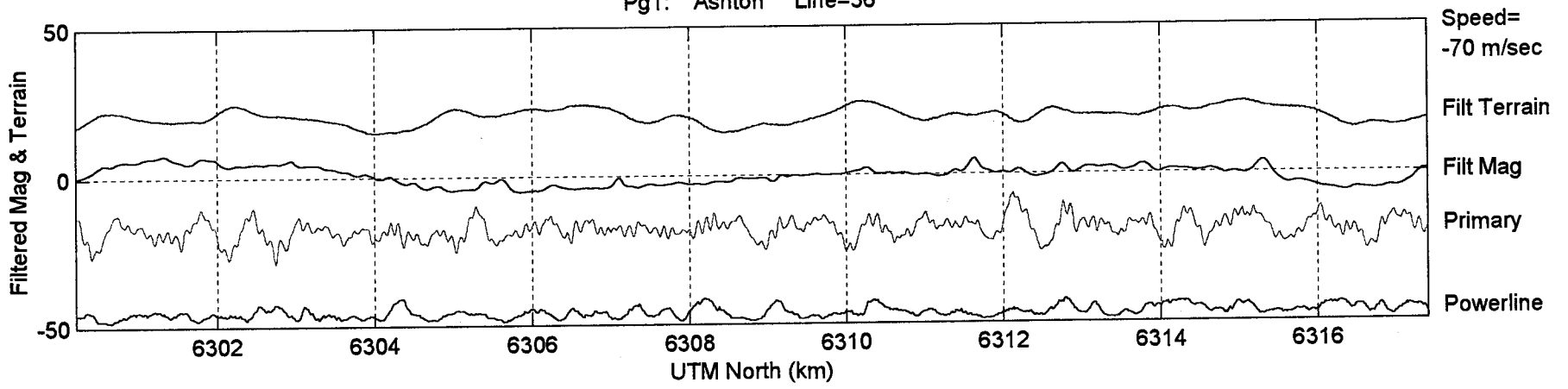




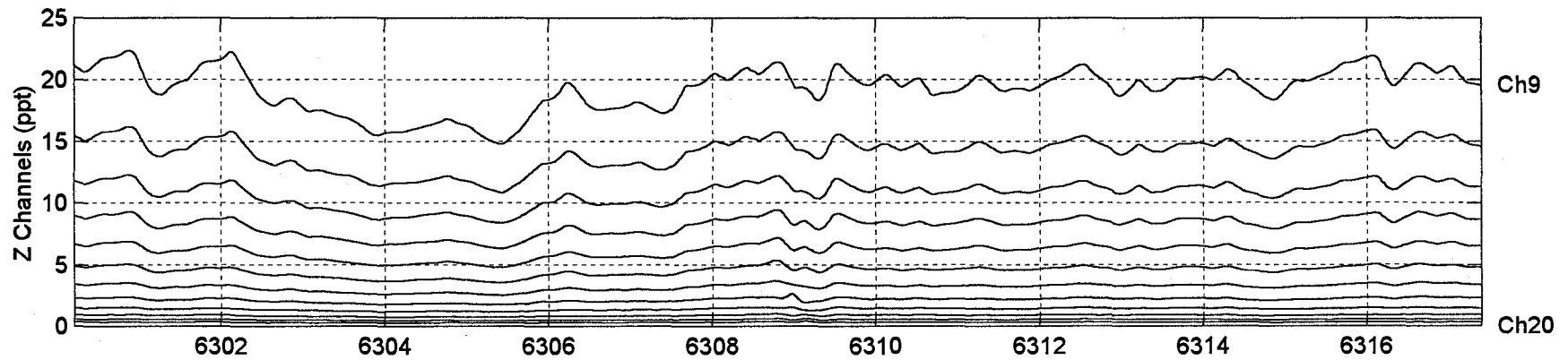
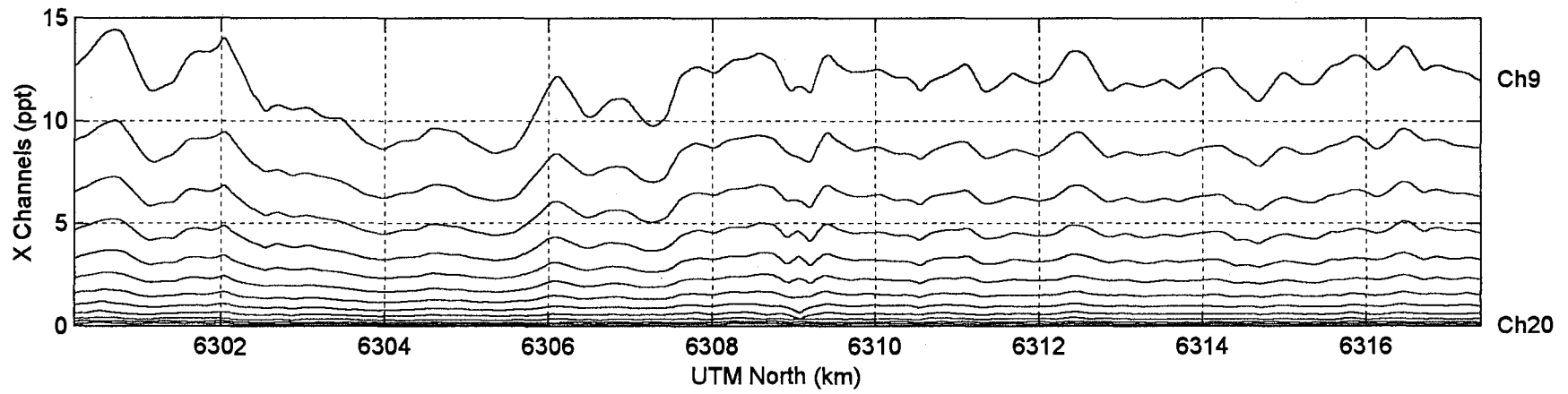
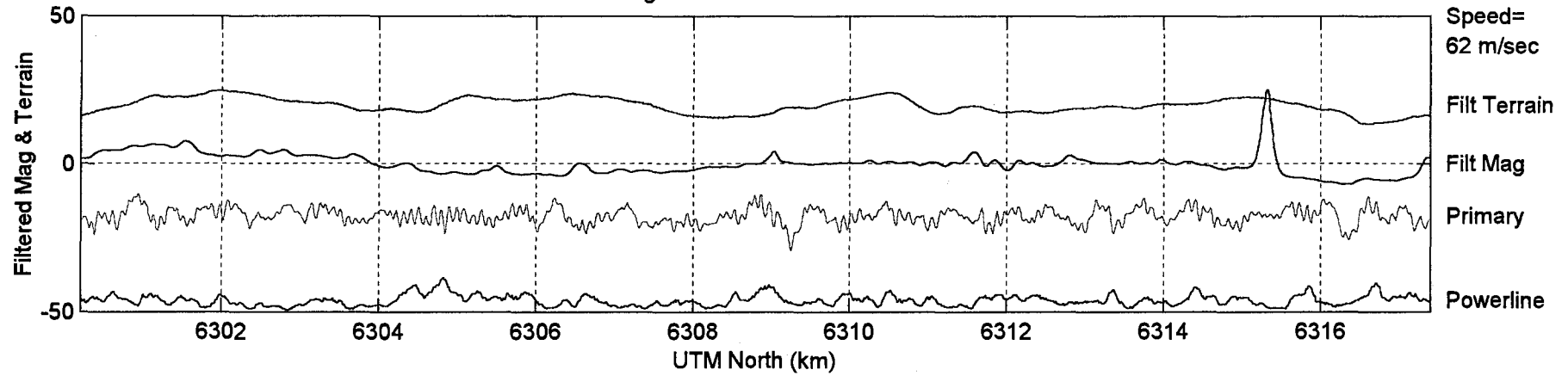




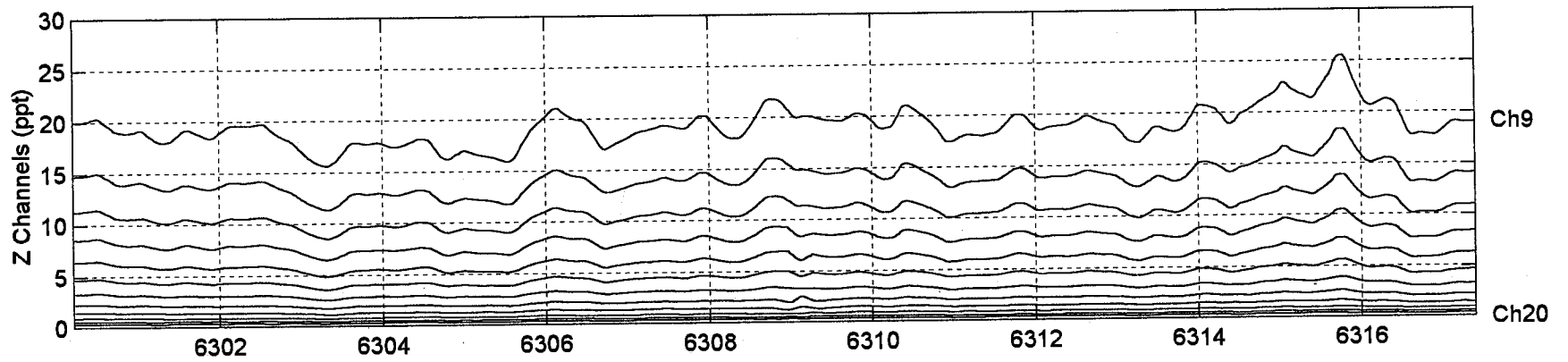
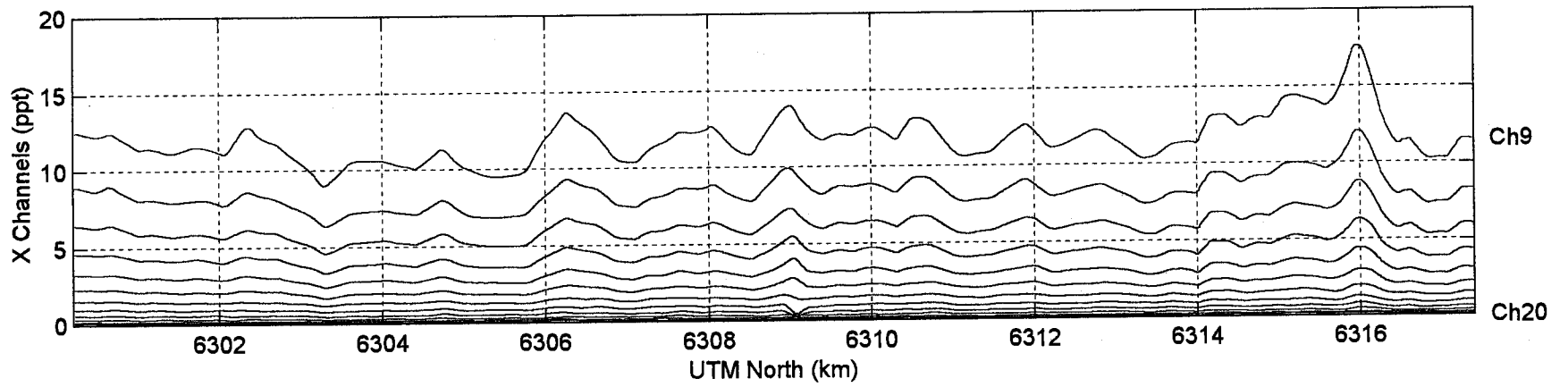
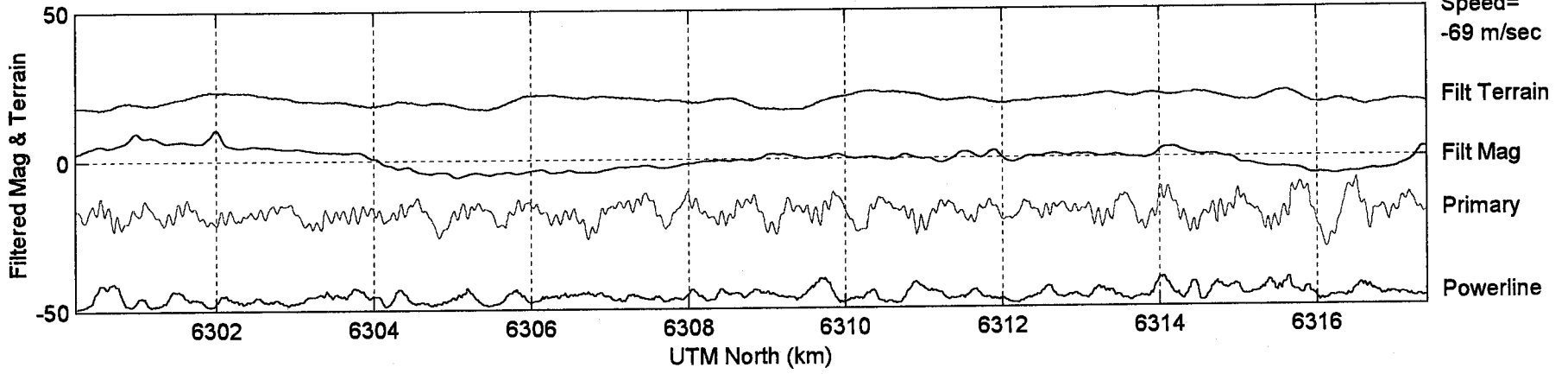




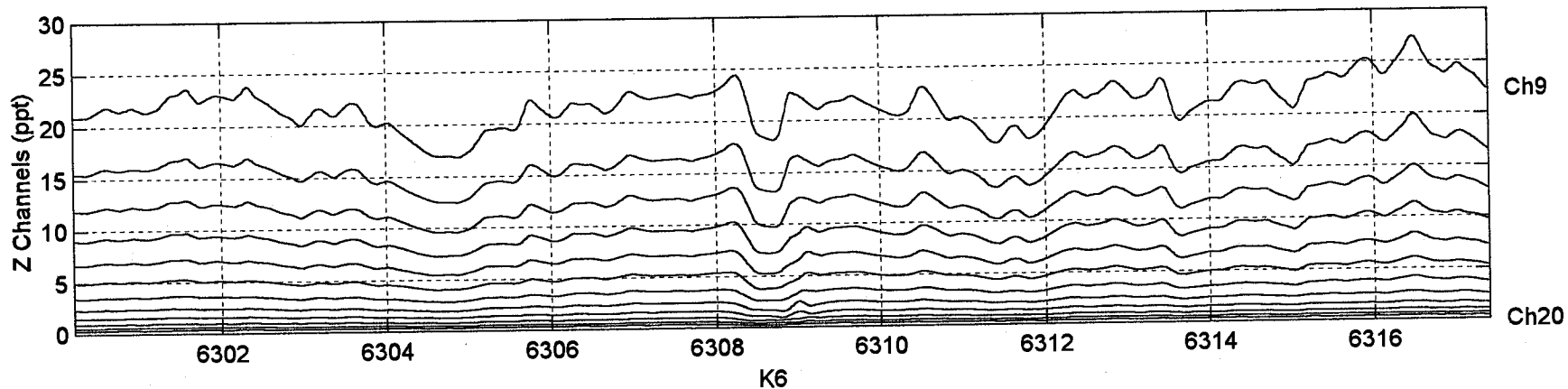
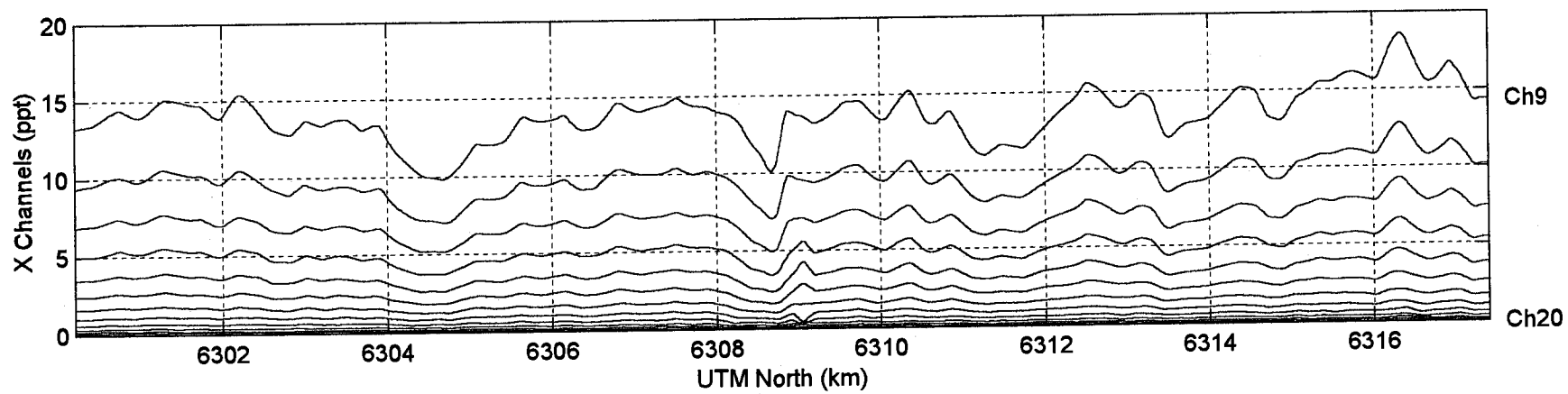
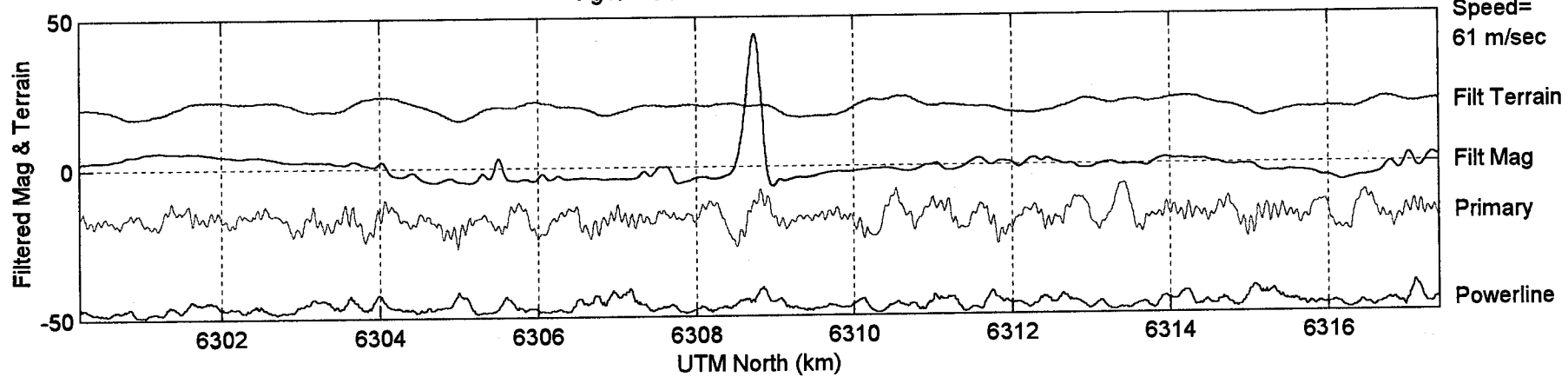
Pg1: Ashton Line=37



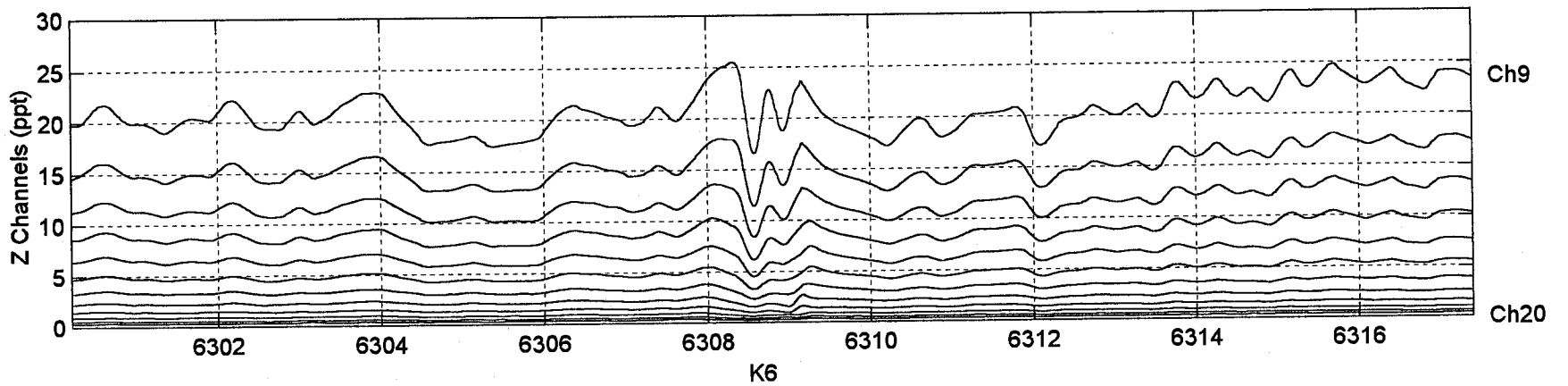
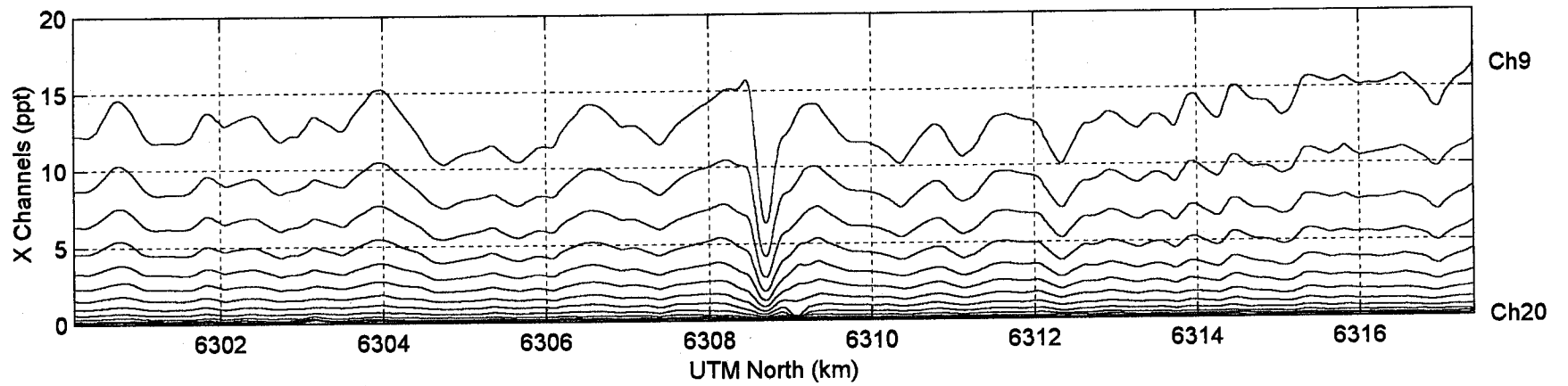
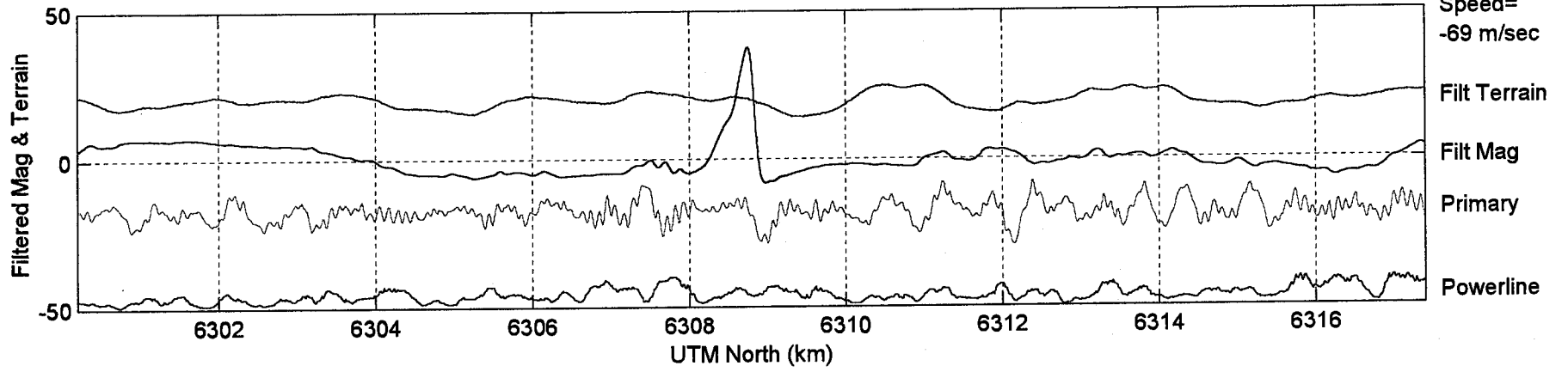
Pg1: Ashton Line=38



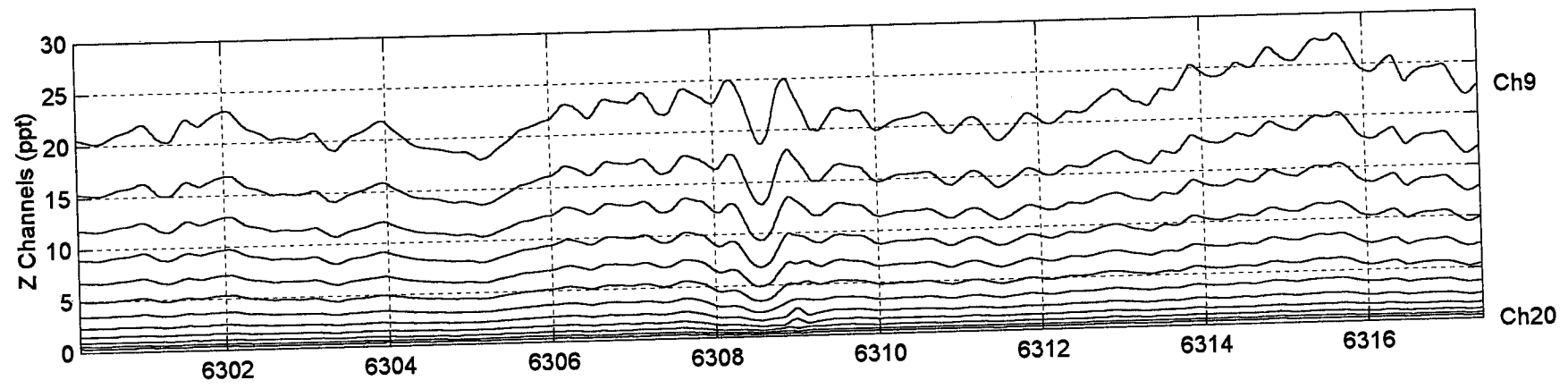
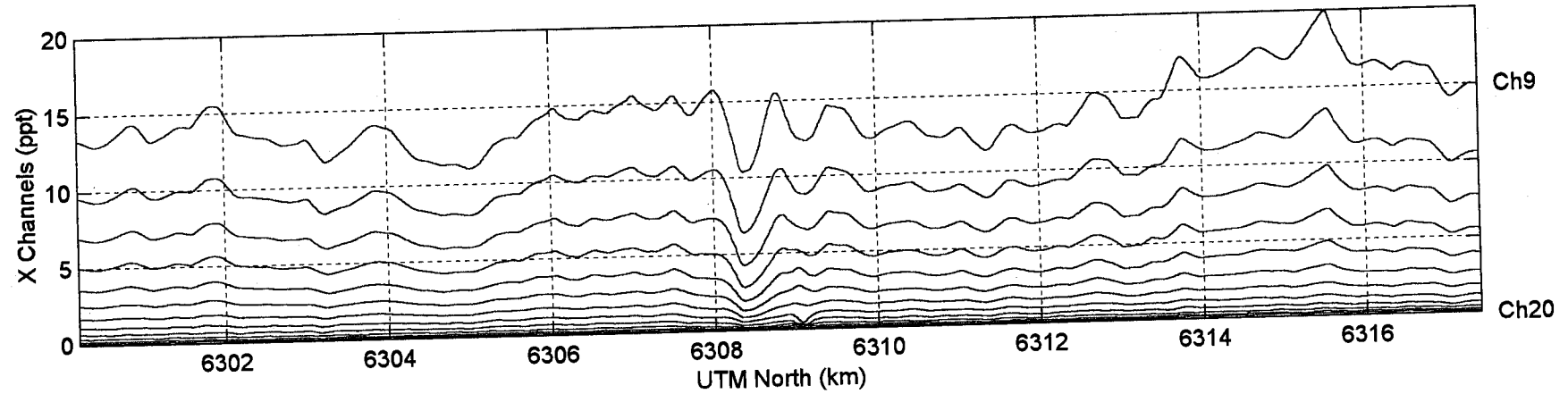
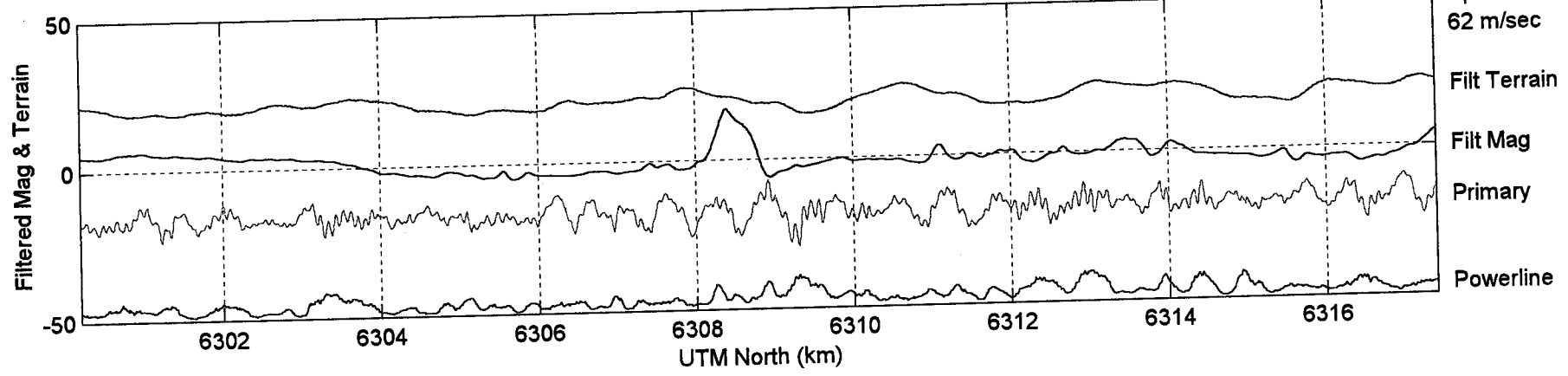
Pg1: Geoterrex Ashton Line=39



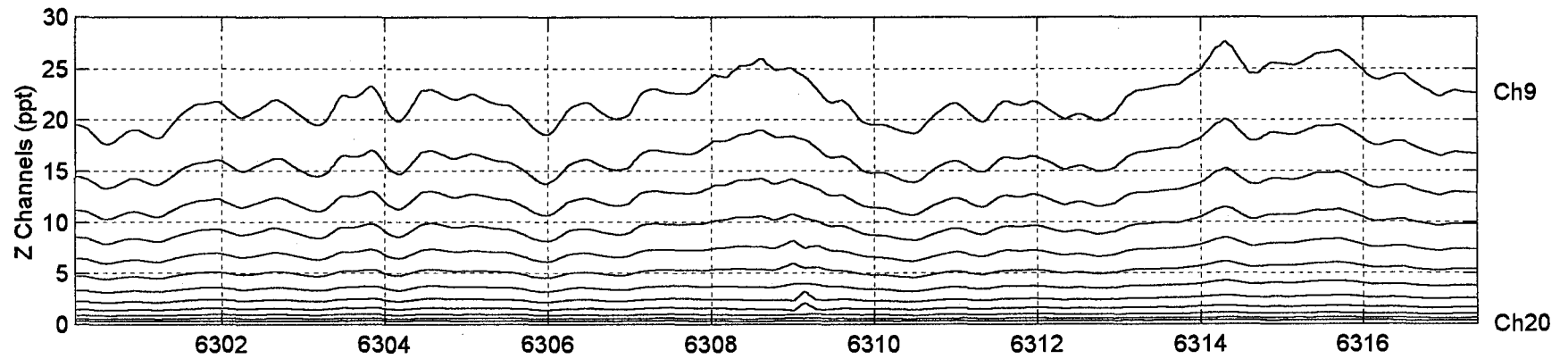
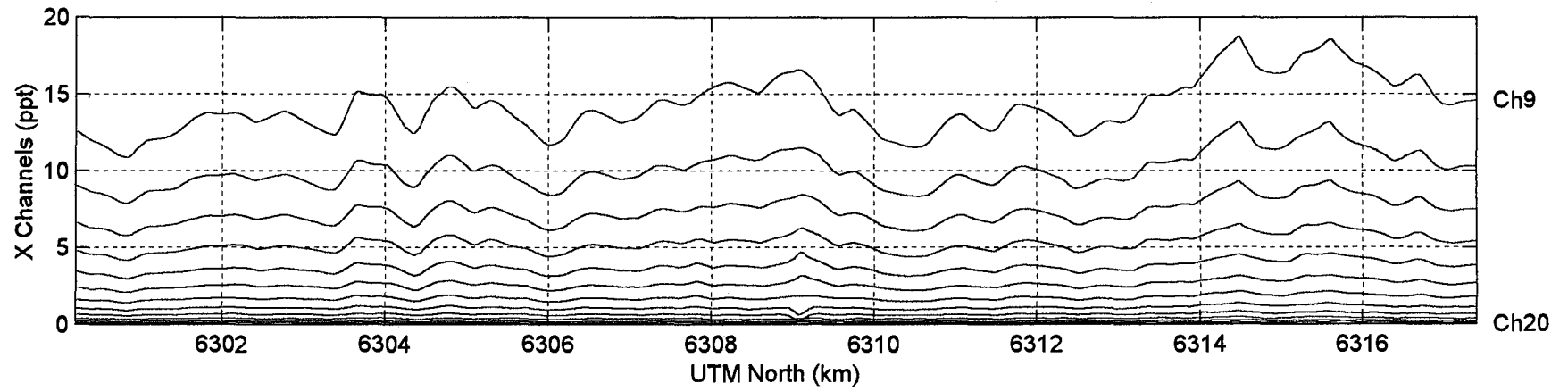
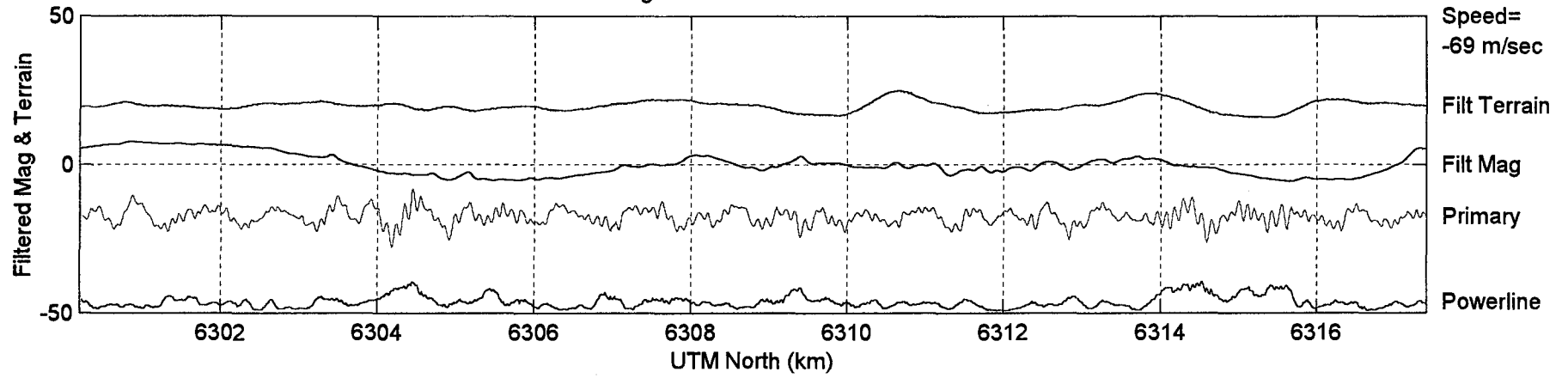
Pg1: Geoterrex Ashton Line=40

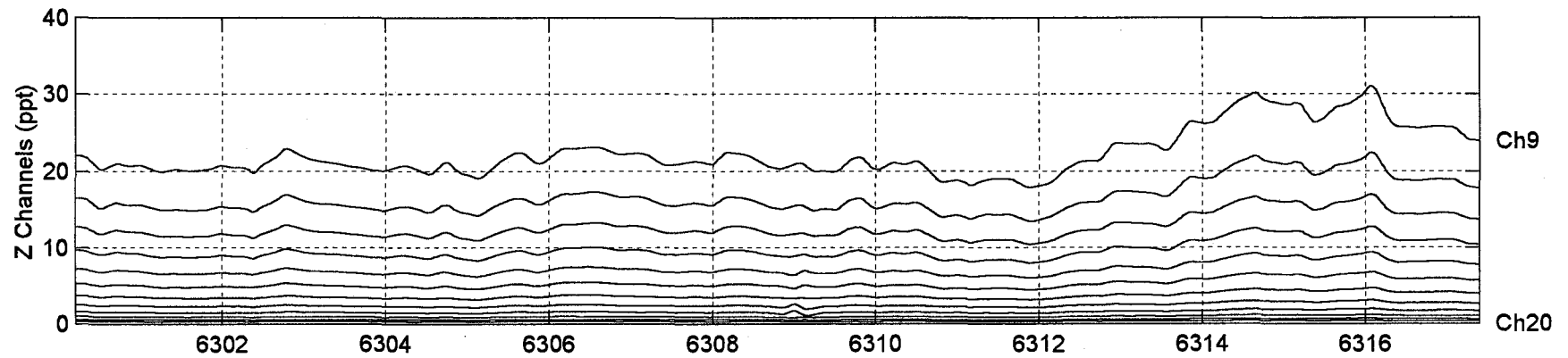
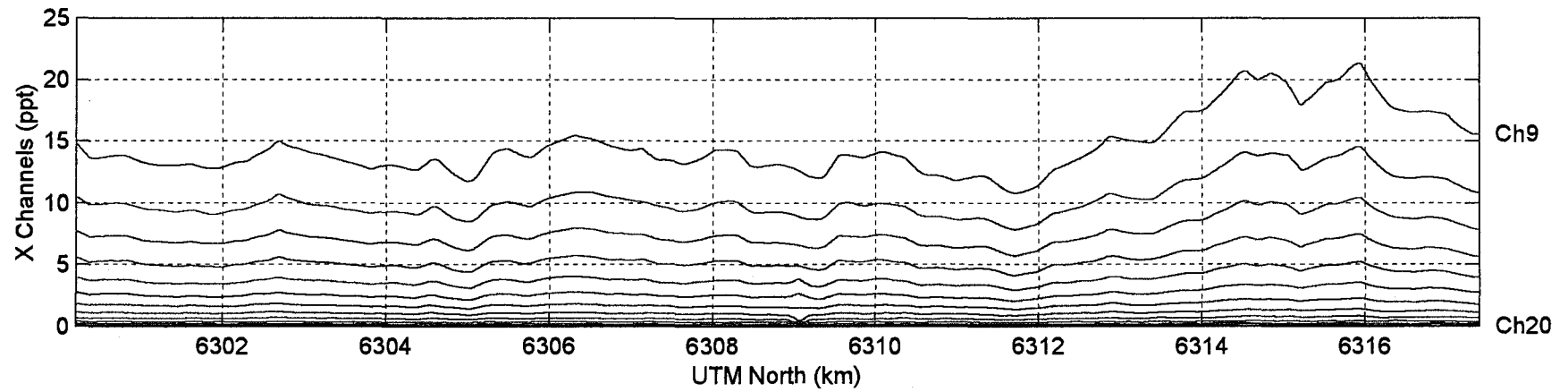
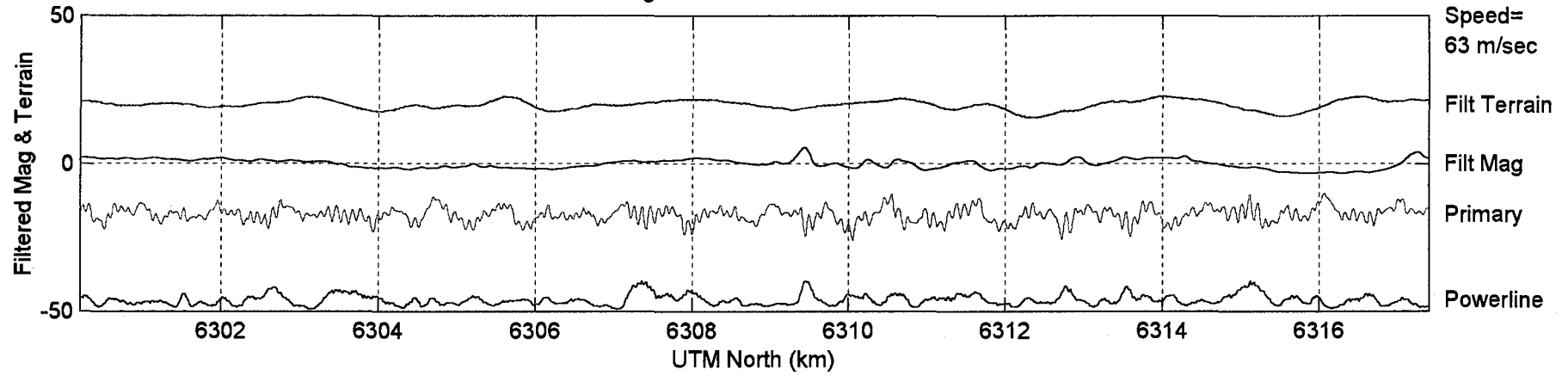


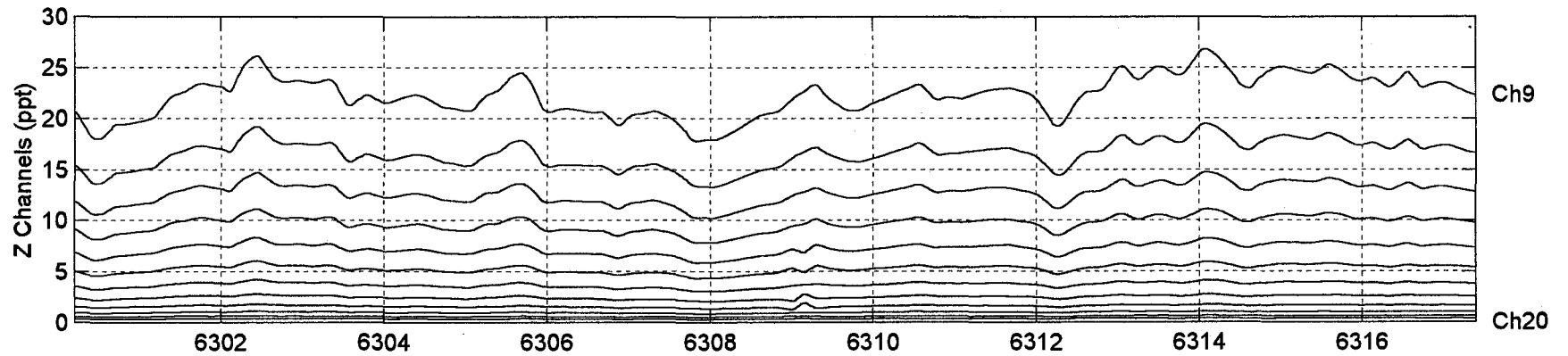
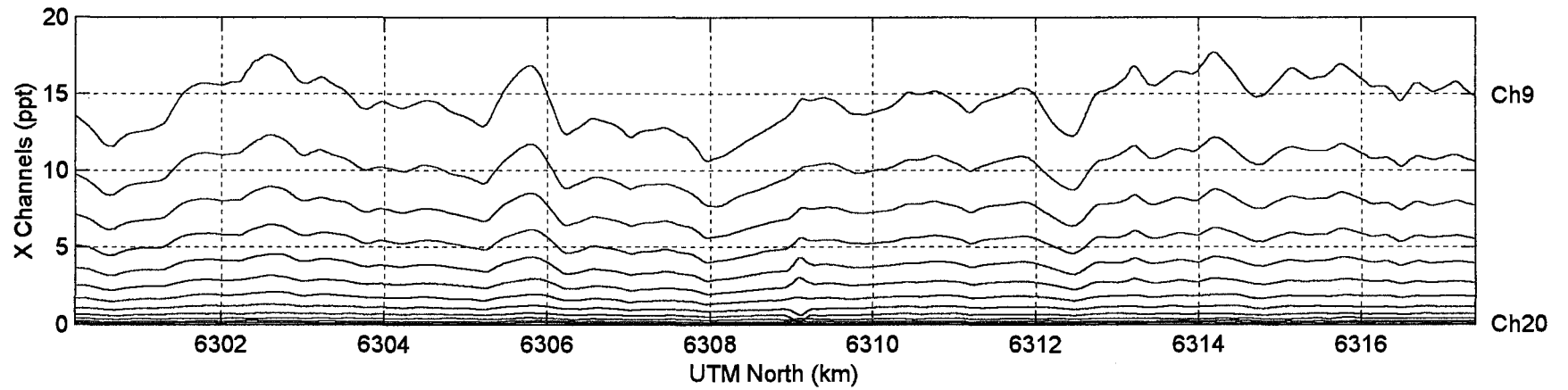
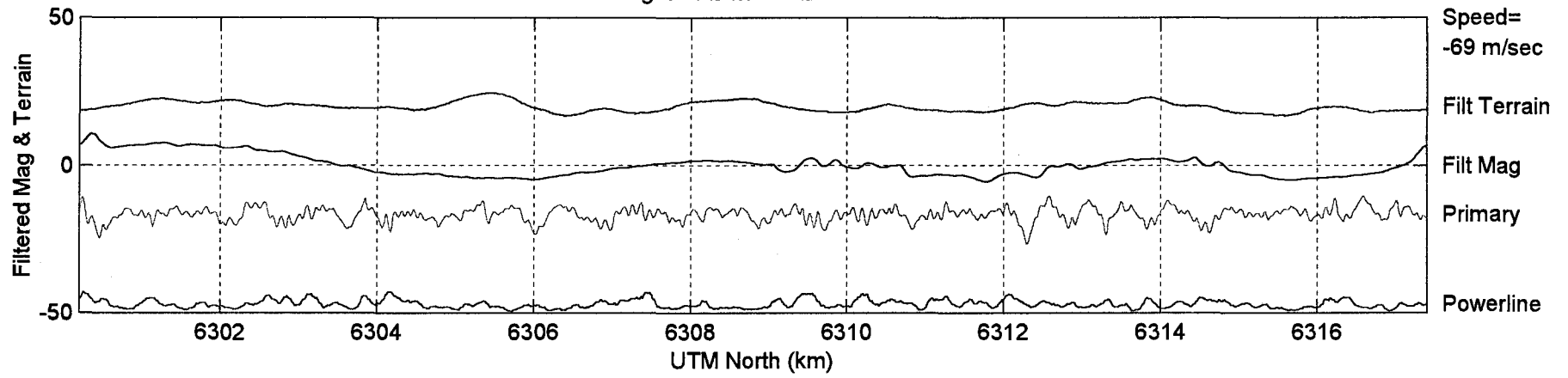
Speed=
62 m/sec

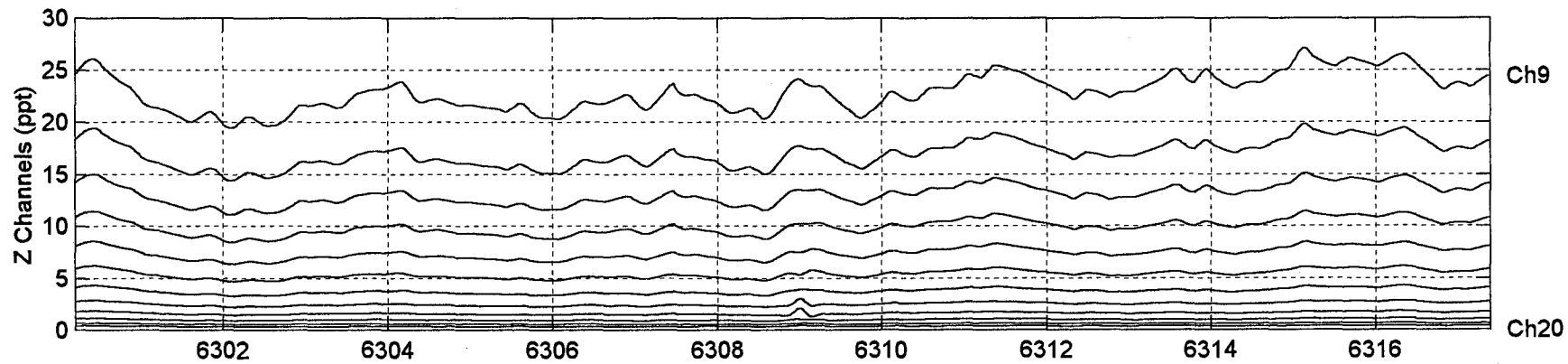
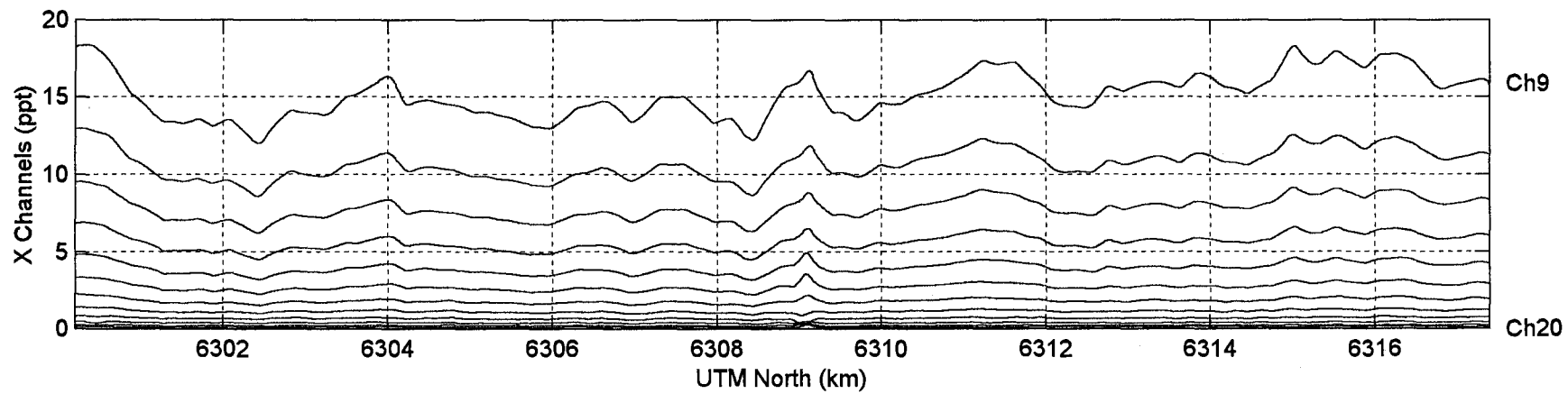
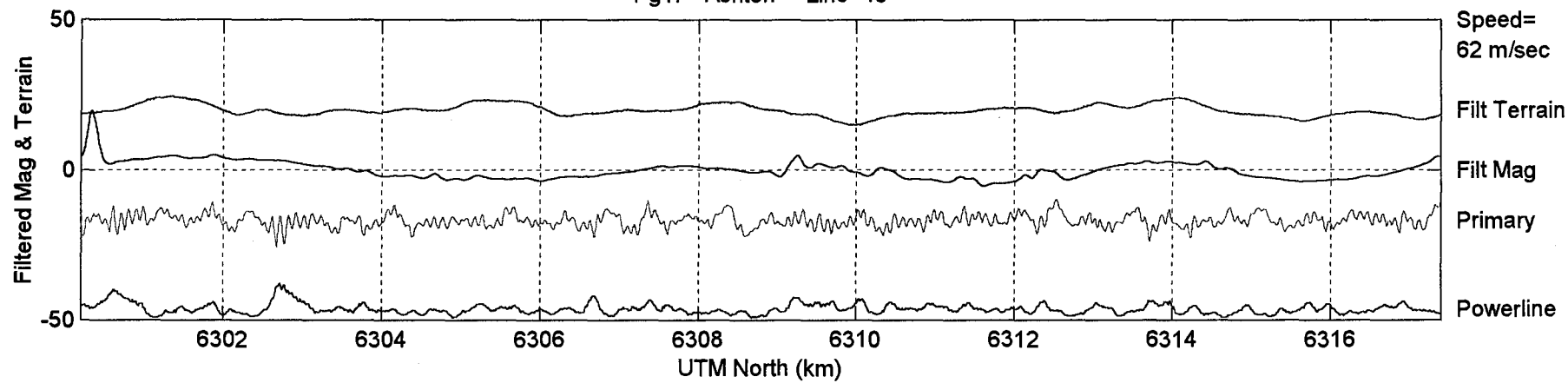


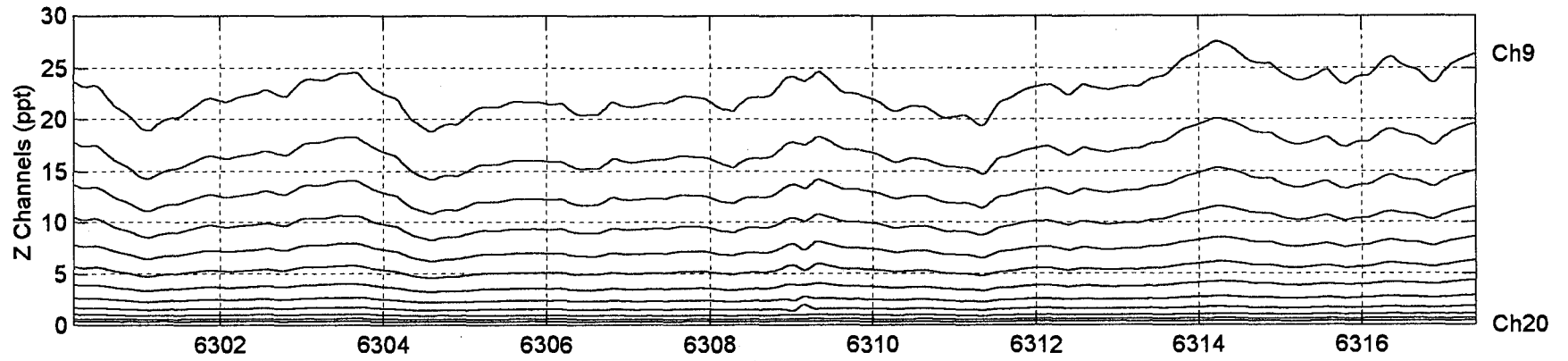
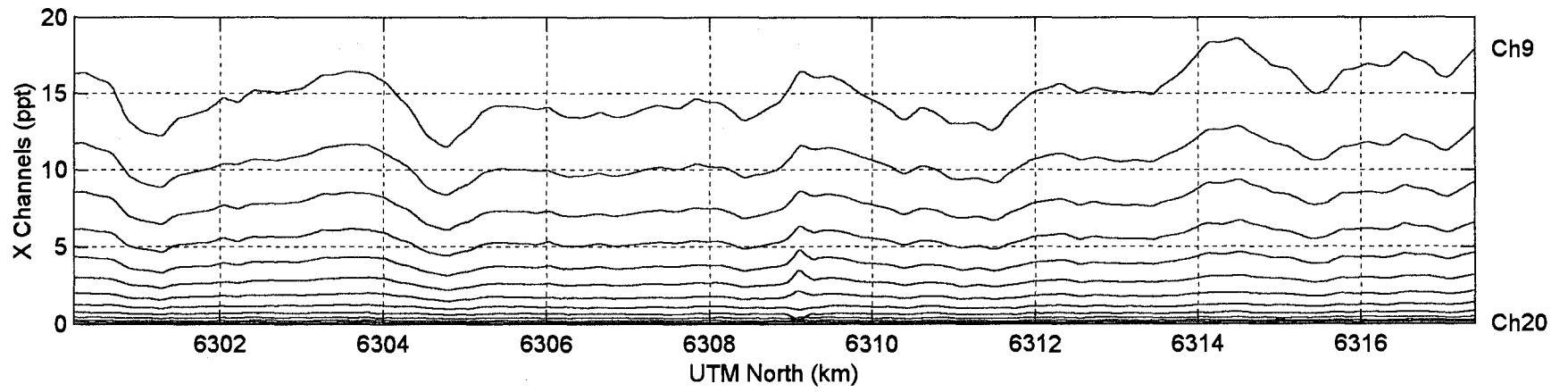
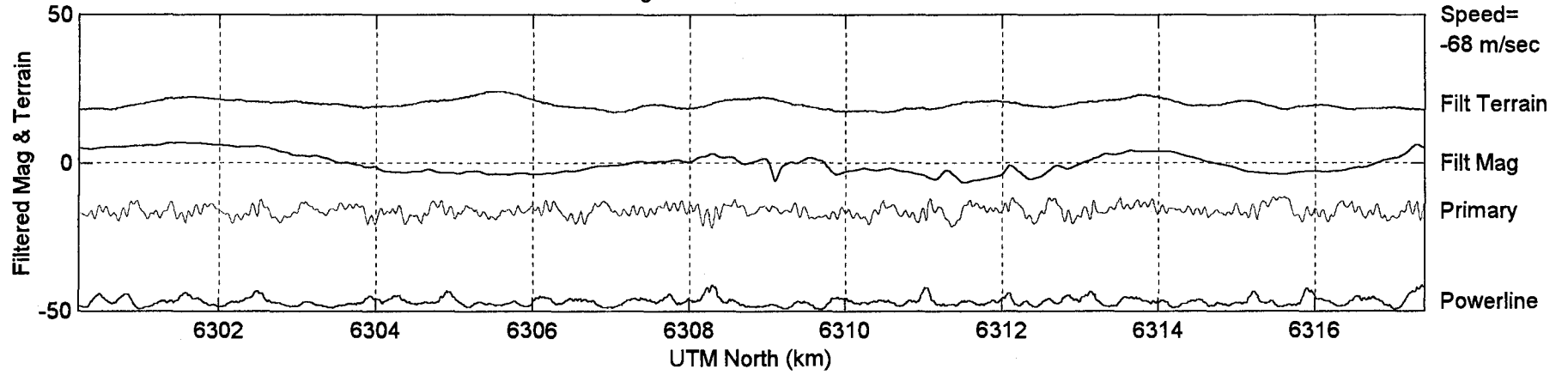
Pg1: Ashton Line=42



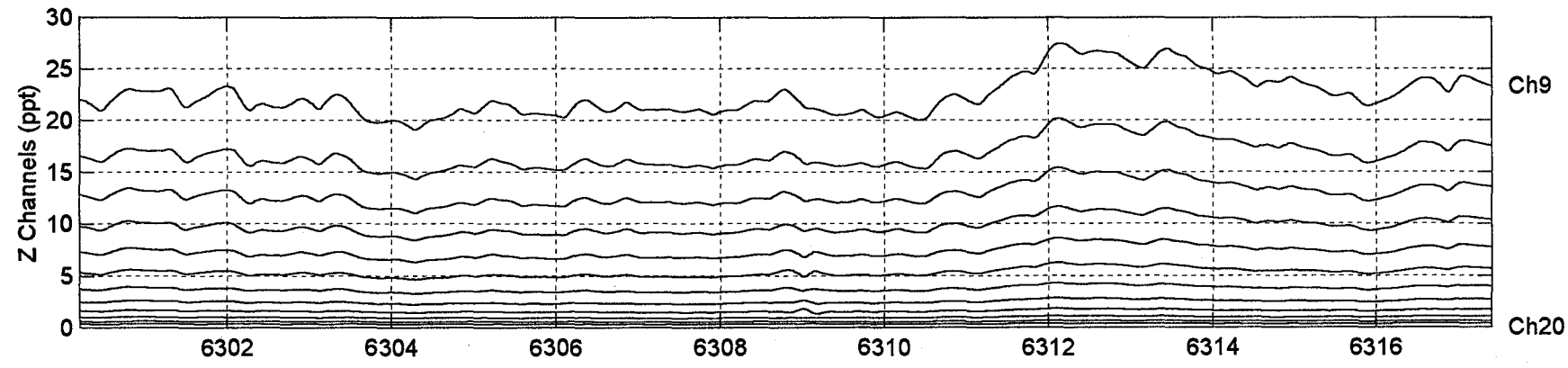
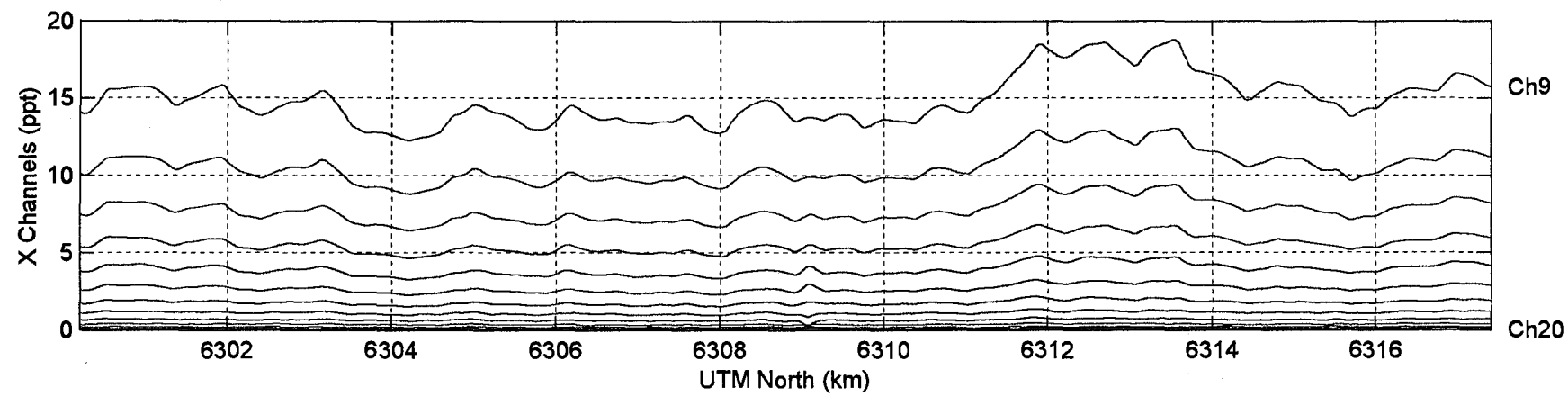
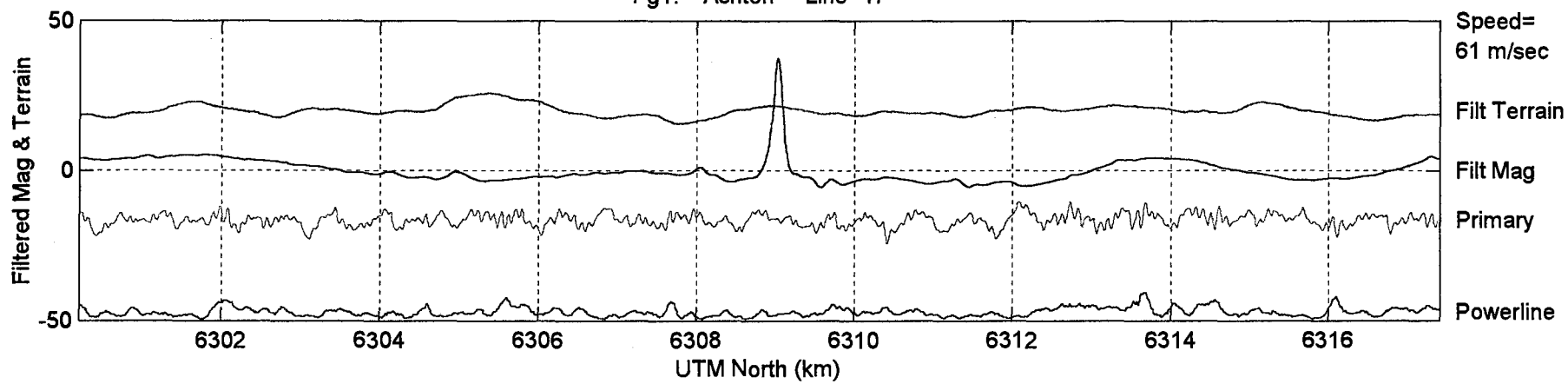


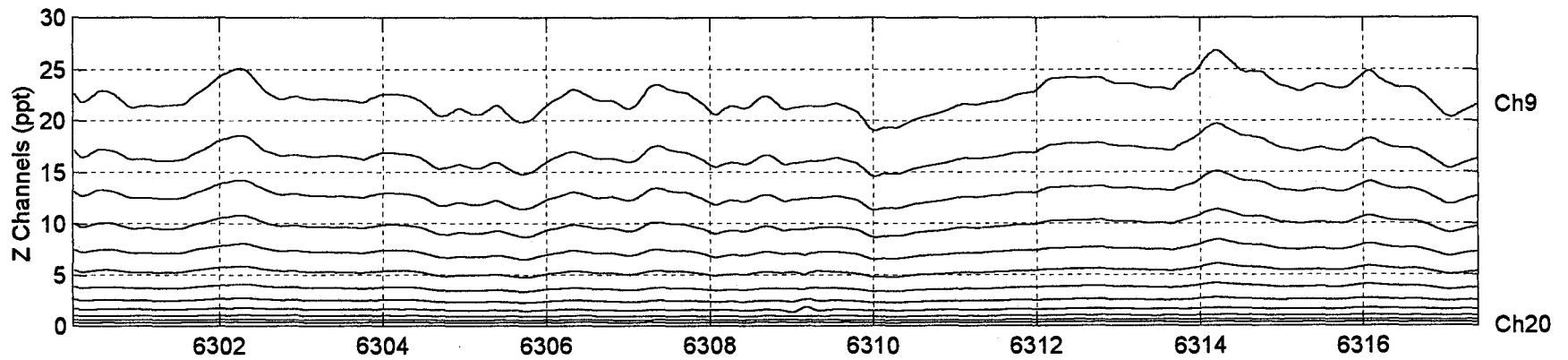
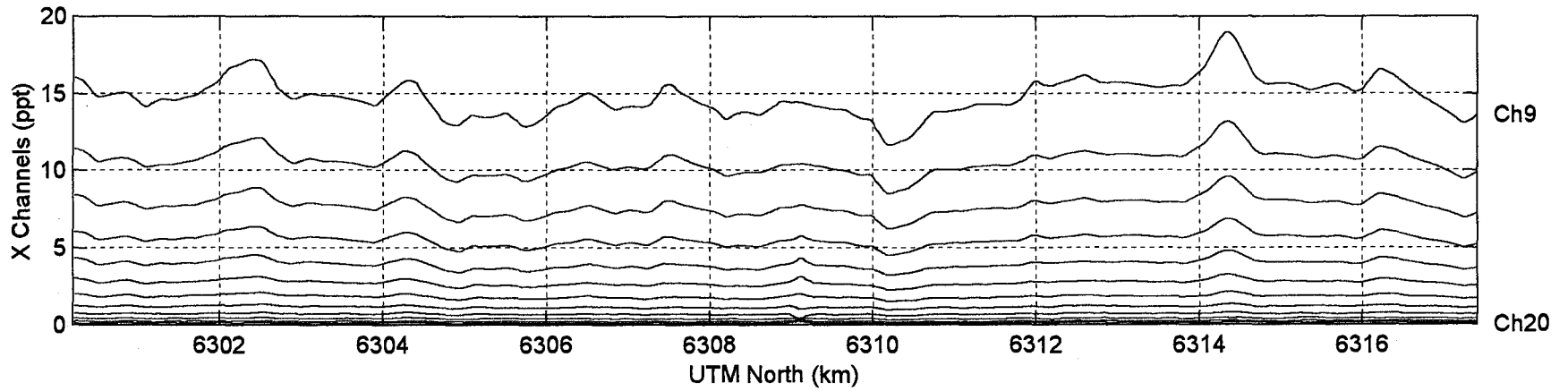
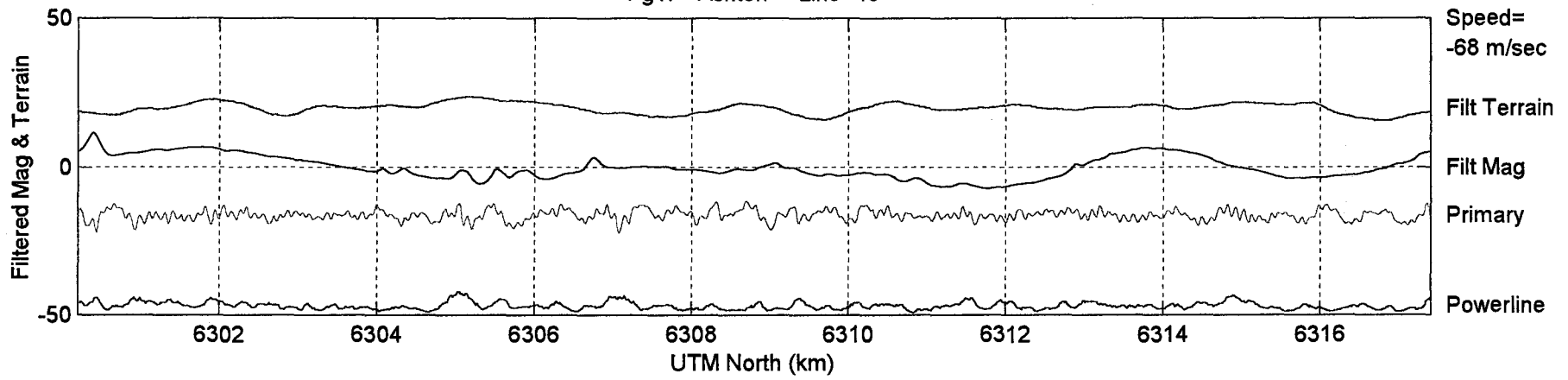


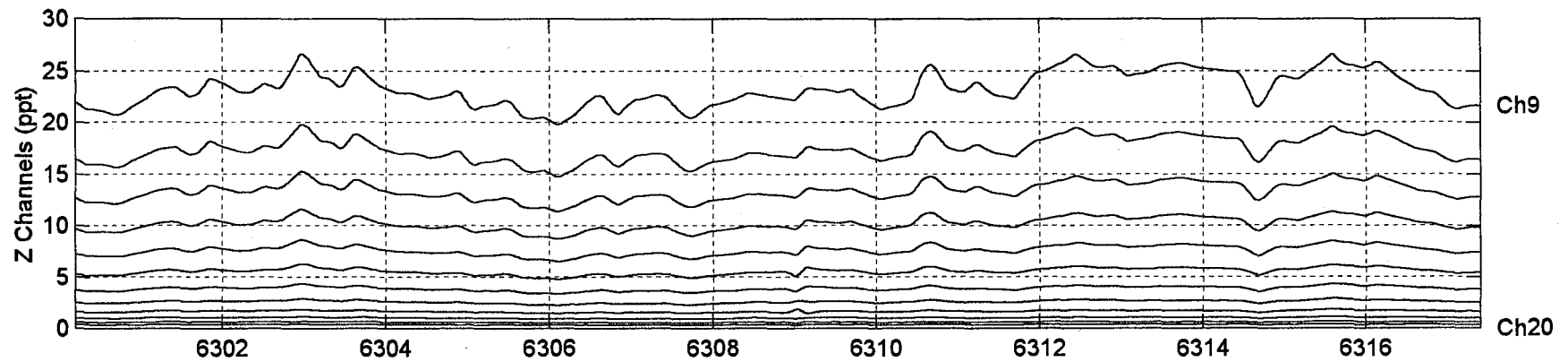
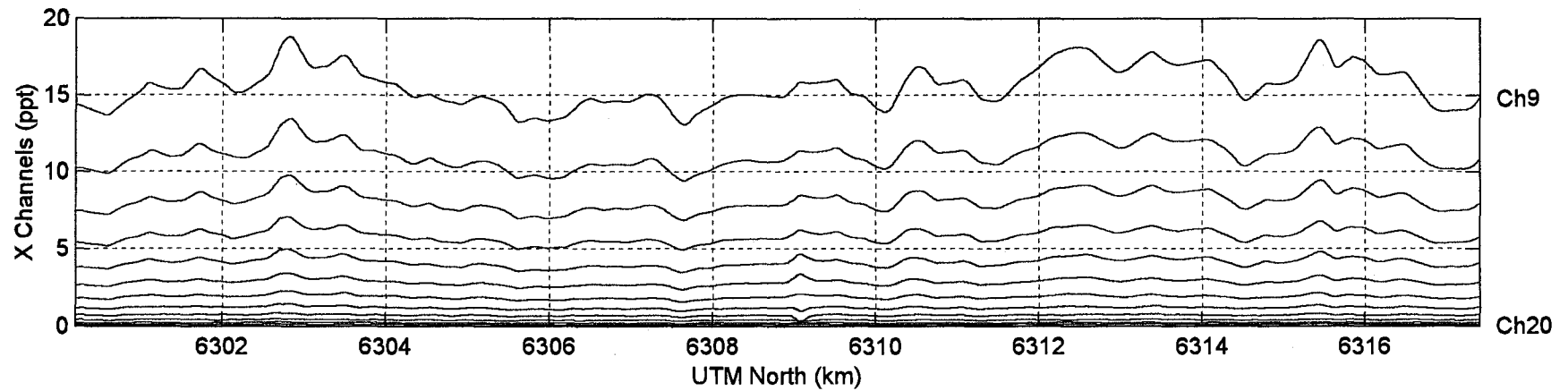
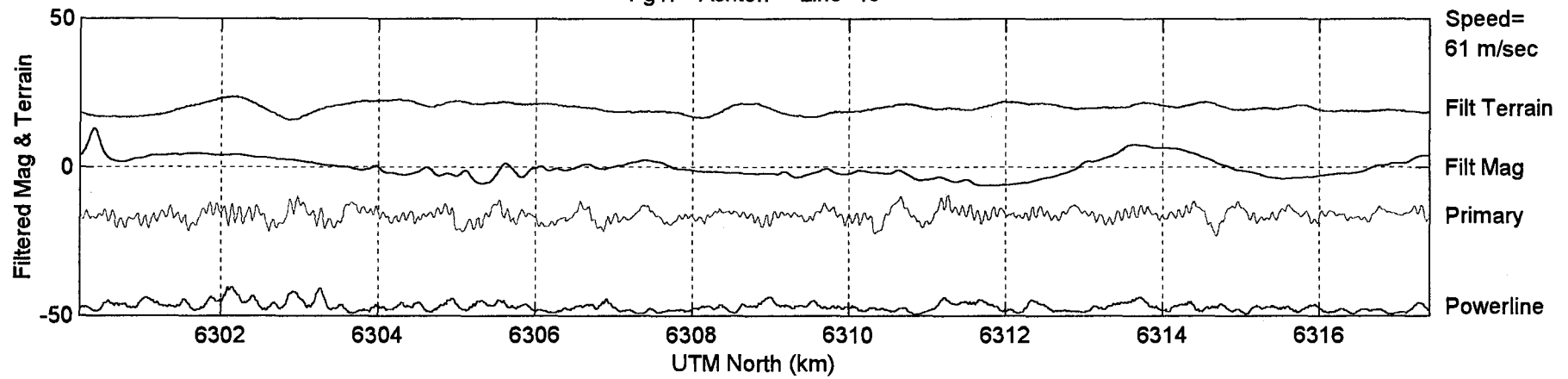


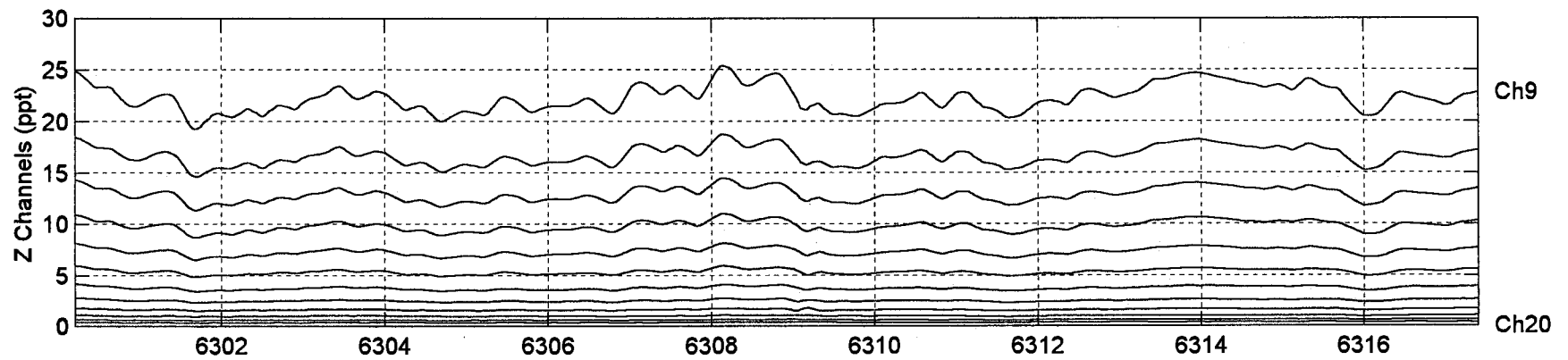
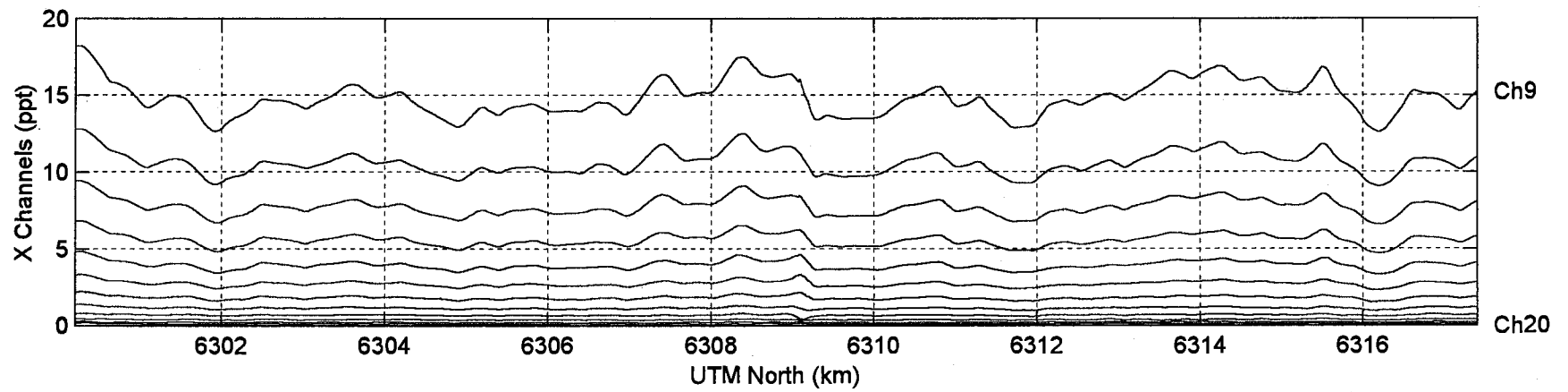
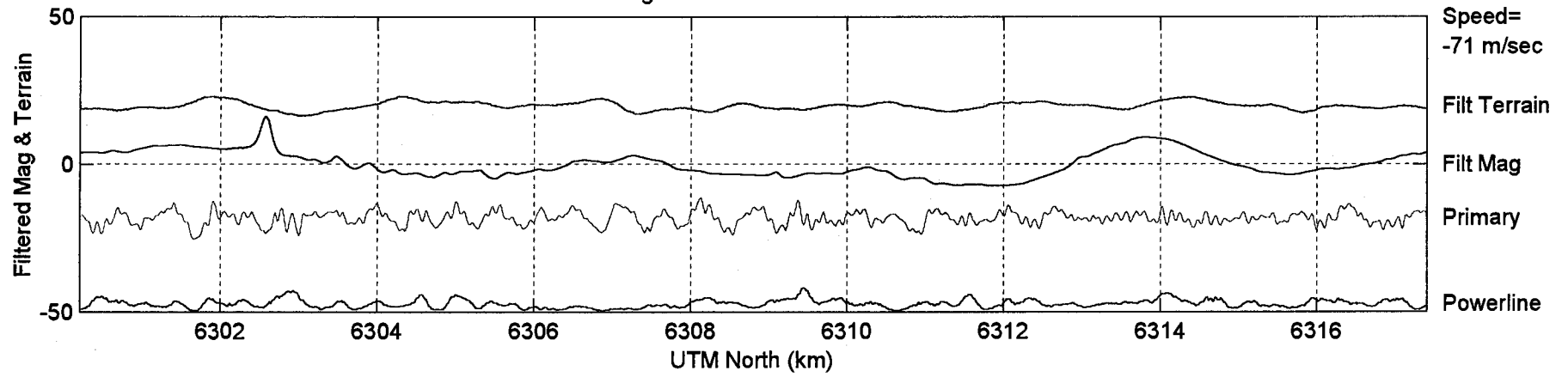


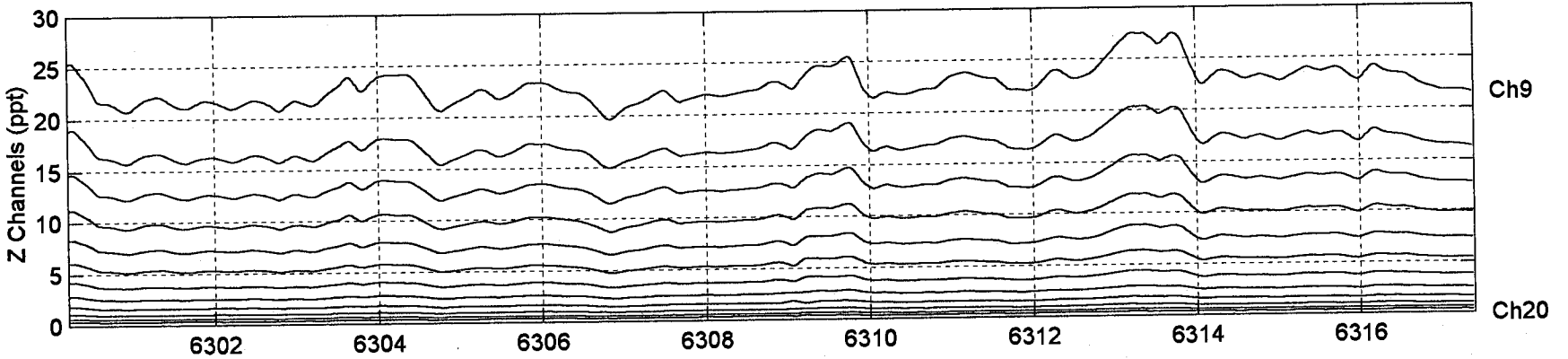
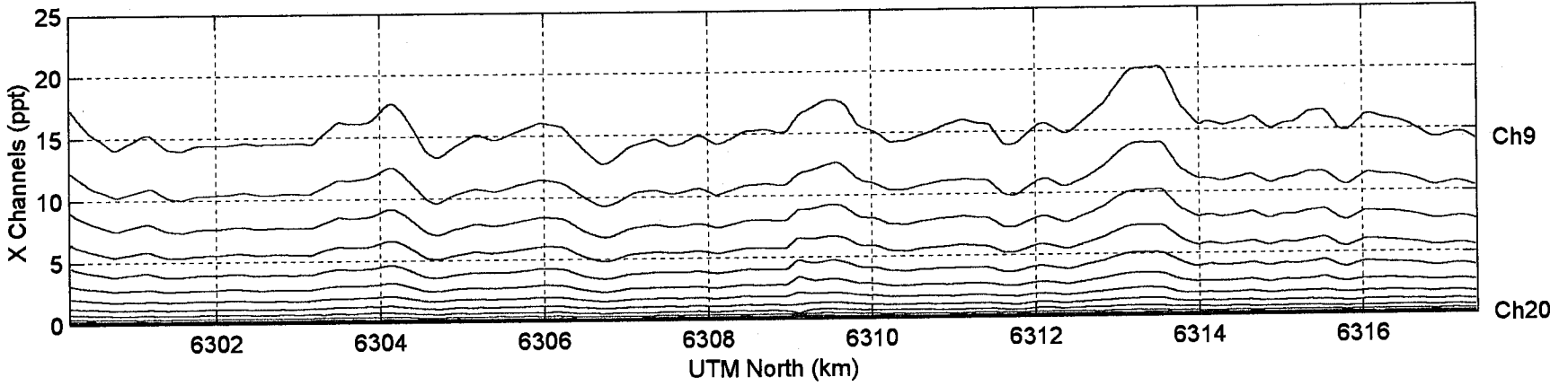
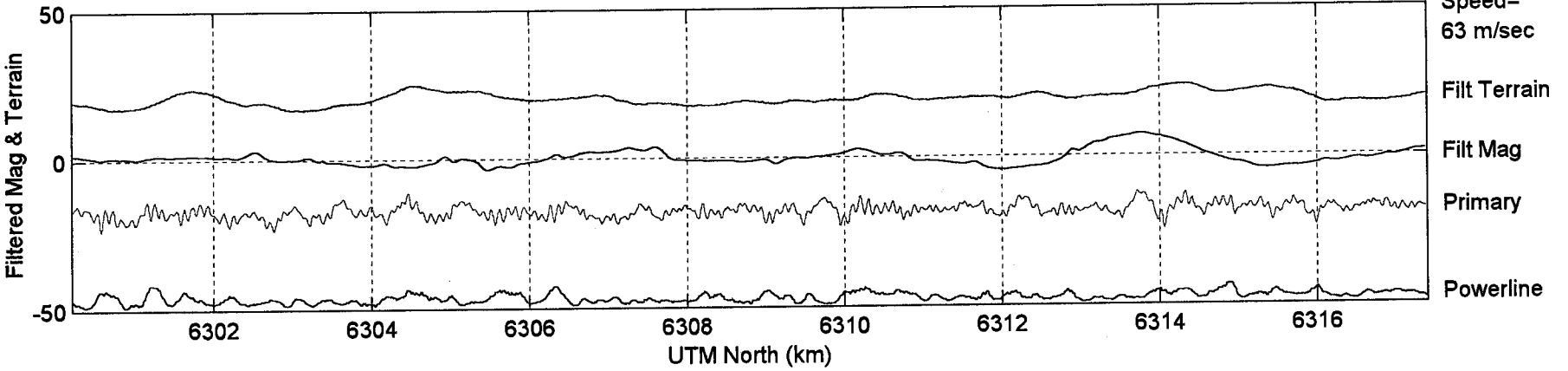
Pg1: Ashton Line=47

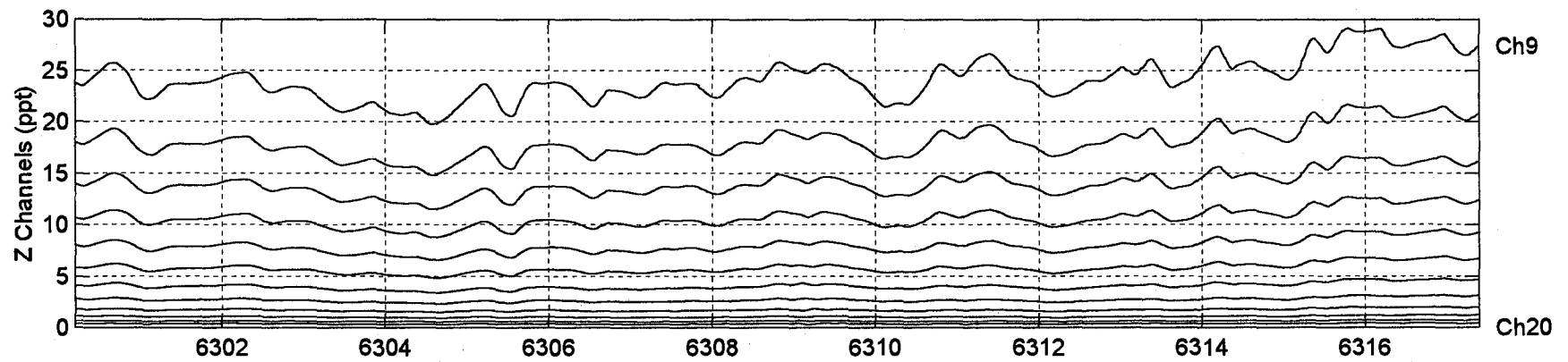
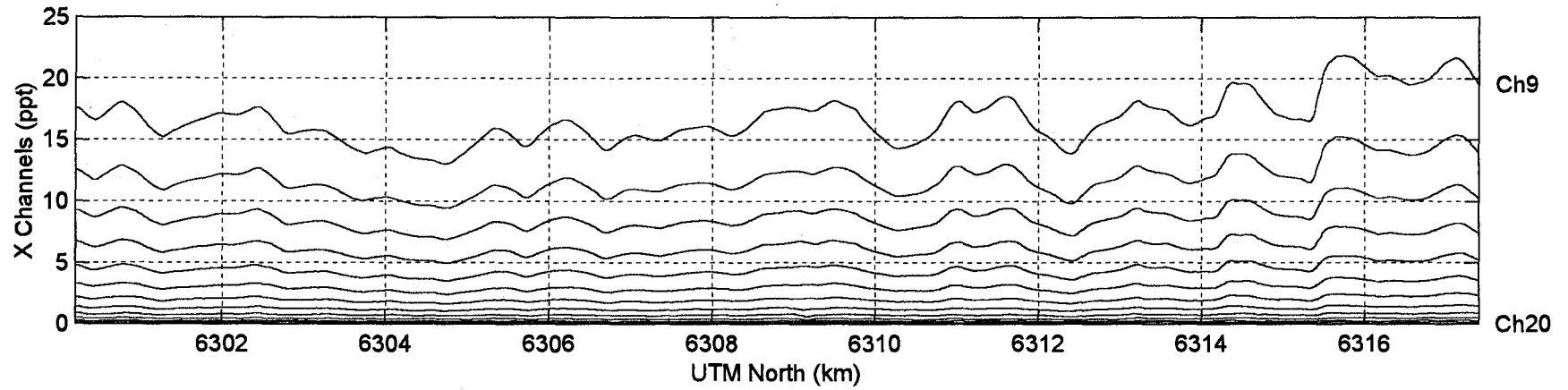
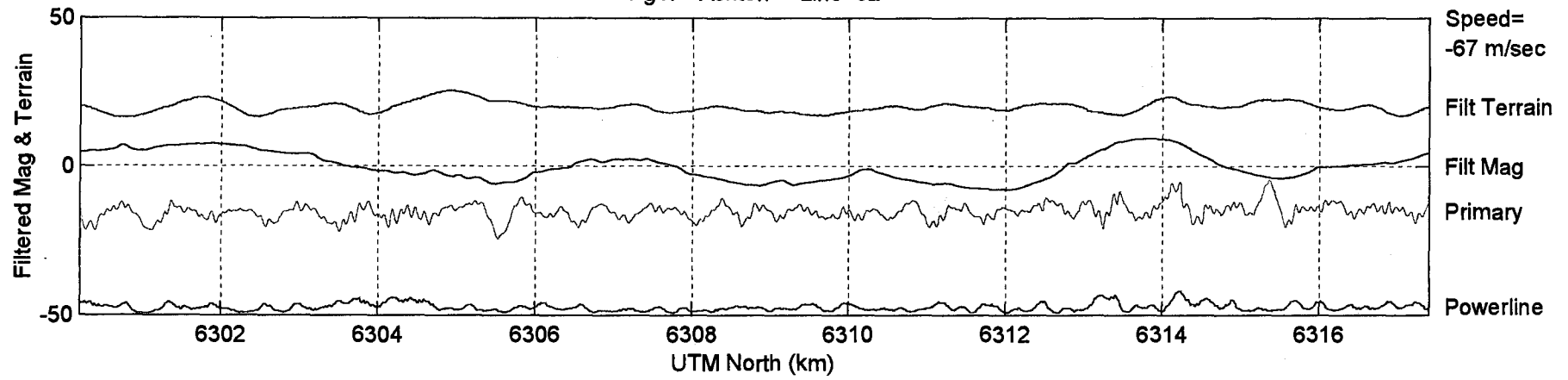


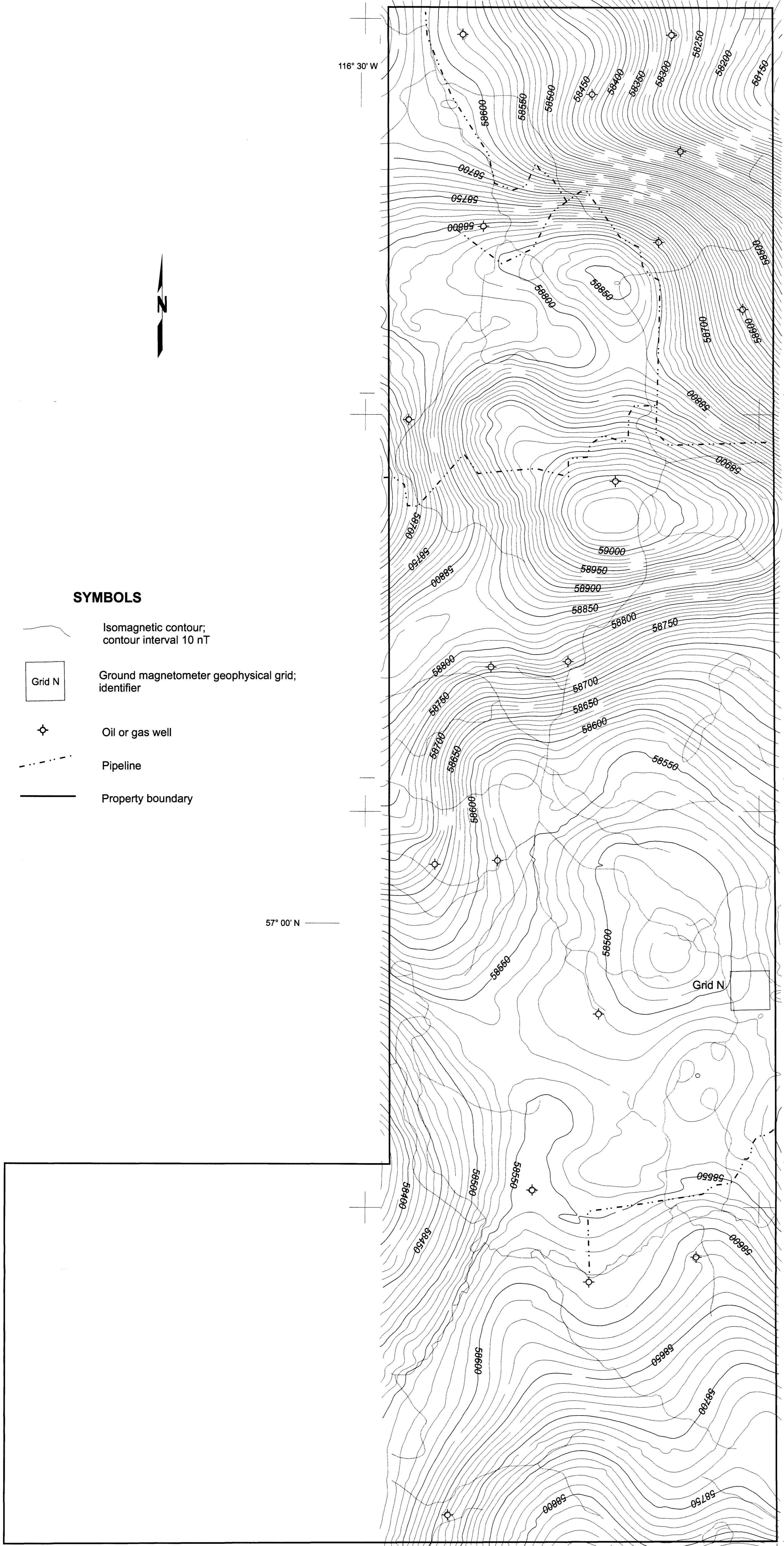





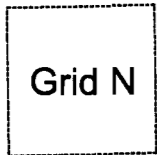











SYMBOLS

-  Isomagnetic contour; contour interval 10 nT
-  Grid N Ground magnetometer geophysical grid; identifier
-  Oil or gas well
-  Pipeline
-  Property boundary

Grid N

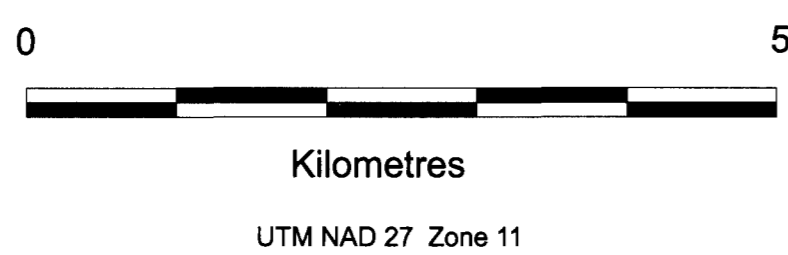
T. 94

T. 93

T. 92

T. 91

R. 15W5



6300000 N
535000 E

1997021

NEW CLAYMORE RESOURCES LTD.
FIGARO PROSPECT

DRAWING 01

AIRBORNE GEOTEM MAGNETIC SURVEY
TOTAL MAGNETIC FIELD CONTOURS

84 C15, C16, 84 F1
April, 1999