

SITE INFORMATION

Site Name Myers Wood
Area Trench B
Context No 207
Description Tapping channel
Latitude (+ve N) 53.60
Longitude (+ve E) -1.73
Magnetic Var -3.72
Date Sampled 20/9/02

MAGNETIC MEASUREMENTS

Sample no.	NRM			Field	After partial demag			Pilot?	Comments
	D	I	Int		D	I	Int		
	<i>degs.</i>	<i>degs.</i>	<i>mA m⁻¹</i>		<i>degs.</i>	<i>degs.</i>	<i>mA m⁻¹</i>		
1	49.3	72.6	16.46	15	28.5	62.4	11.16	Y	
2	13.7	70.5	18.16	20	14.5	62.5	11.68		
3	13.1	67.0	17.37	20	14.7	58.9	12.99		
4	191.9	-80.0	19.13	30	6.7	62.9	4.81		
5	276.9	-70.5	114.63	20	5.5	58.0	4.29		
6	334.7	-40.2	35.18	30	5.5	59.5	30.18	Y	
7	12.0	-5.4	5.71	20	14.9	63.4	13.56		
8	359.0	12.8	11.63	20	7.0	51.5	10.09	Y	
9	327.1	-69.0	10.53	30	15.1	52.7	4.17	Y	
10	32.0	-66.9	1.05	15	34.5	45.4	0.69		
11	9.2	52.5	377.87	15	6.5	52.7	390.78		
12									

STATISTICS FOR NRM

Sample no.	NRM				
	D	I	x	y	z
	<i>degs.</i>	<i>degs.</i>			
1	49.3	72.6	0.19500	0.22671	0.95424
2	13.7	70.5	0.32431	0.07906	0.94264
3	13.1	67.0	0.38056	0.08856	0.92050
4	191.9	-80.0	-0.16992	-0.03581	-0.98481
5	276.9	-70.5	0.04010	-0.33139	-0.94264
6	334.7	-40.2	0.69053	-0.32641	-0.64546
7	12.0	-5.4	0.97381	0.20699	-0.09411
8	359.0	12.8	0.97500	-0.01702	0.22155
9	327.1	-69.0	0.30089	-0.19466	-0.93358
10	32.0	-66.9	0.33272	0.20791	-0.91982
11	9.2	52.5	0.60093	0.09733	0.79335
12					

Number = 11
 Sum x = 4.64395
 Sum y = 0.00127
 Sum z = -0.68813
 R = 4.69465
 x bar = 0.98920
 y bar = 0.00027
 z bar = -0.14658

Mean Dec = 0.02
Mean Inc = -8.43
Alpha95 = 57.93

STATISTICS FOR PARTIAL DEMAGNETISATION

Sample no.	Demagnetisation				
	D	I	x	y	z
	degs.	degs.			
1	28.5	62.4	0.40715	0.22107	0.88620
2	14.5	62.5	0.44704	0.11561	0.88701
3	14.7	58.9	0.49963	0.13107	0.85627
4	6.7	62.9	0.45243	0.05315	0.89021
5	5.5	58.0	0.52748	0.05079	0.84805
6	5.5	59.5	0.50520	0.04865	0.86163
7	14.9	63.4	0.43270	0.11513	0.89415
8					
9					
10					
11					
12					

Number = 7
Sum x = 3.27164
Sum y = 0.73547
Sum z = 6.12353
R = 6.98155
x bar = 0.46861
y bar = 0.10534
z bar = 0.87710

Mean Dec = 12.67
Mean Inc = 61.29
Alpha95 = 3.35

Alpha68 = 1.90

CORRECTIONS

Mean Dec = 12.67
Mean Inc = 61.29

Correction for magnetic variation

Mean Dec = 8.95
Mean Inc = 61.29

Correction to Meriden (CVP)

Uncorrected Dec = 8.95
Uncorrected Inc = 61.29
Latitude = 53.60
Longitude = -1.73

Kai = 47.60
Latitude of pole = 77.32
Beta1 = 31.56
Longitude of pole = 146.71
Geomag colat = 48.75
Corrected Inc = 60.31
Beta 2 = 31.67
Corrected Dec = 8.82

FINAL RESULT

Corrected Dec = 8.82
Corrected Inc = 60.31
Alpha95 = 3.35

ERROR BARS

Alpha95		Alpha68	
δDec = ±	6.77	δDec = ±	3.85
δInc = ±	3.35	δInc = ±	1.90

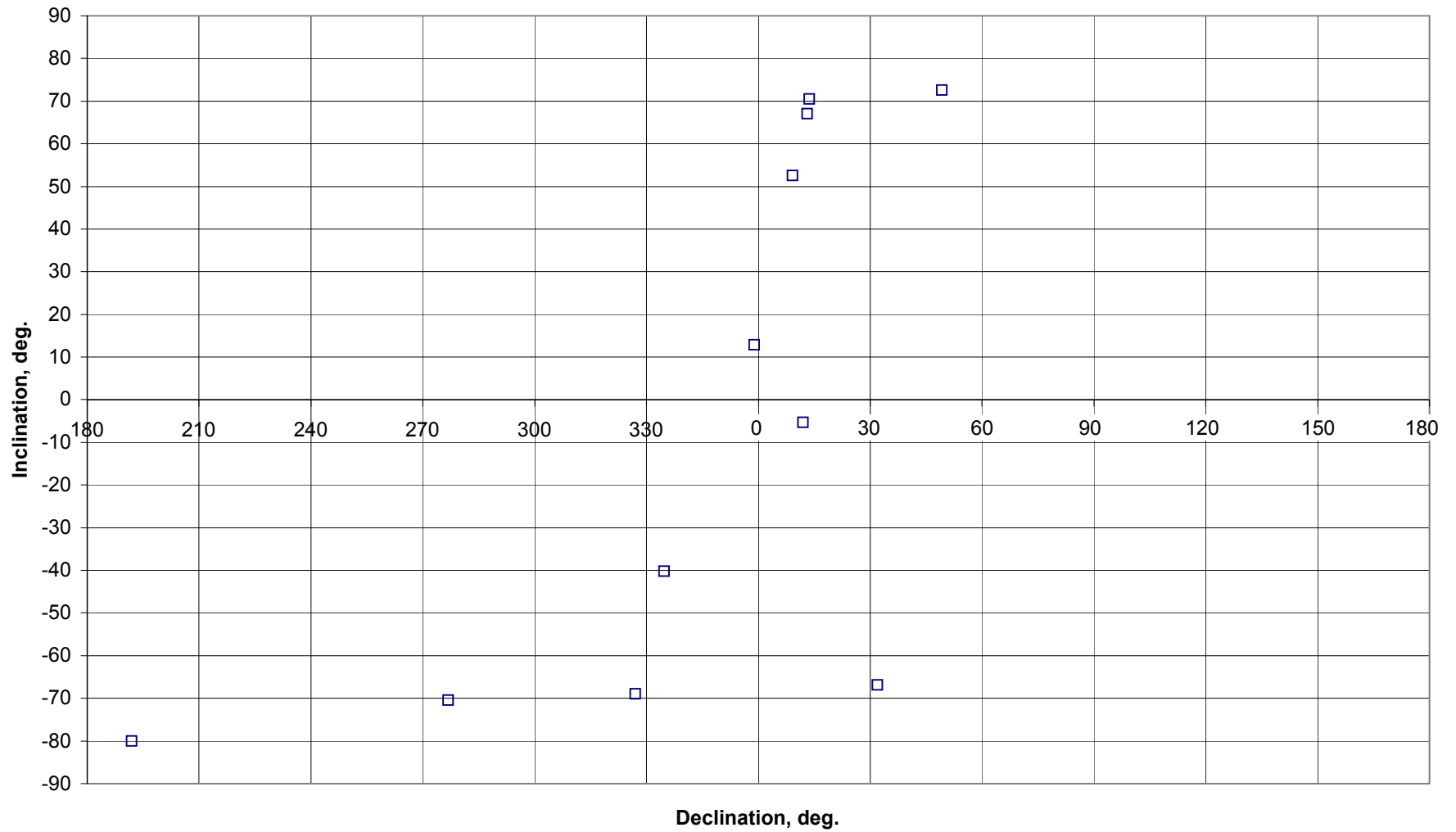
SUMMARY OF PARTIAL DEMAGNETISATION STATISTICAL RESULT:

Demag Field <i>mT</i>	No. of samples	Samples removed	Alpha95 $\pm$ <i>degs.</i>	Mean Corrected	
				Dec <i>degs.</i>	Inc <i>degs.</i>
0	11		57.93	3.62	10.72
	4	4,5,6,7,8,9,10	13.01	14.11	65.54
15	11		8.66	4.10	50.57
	7	8 - 11	10.50	0.33	55.19
	4	1 - 7	16.98	9.20	42.24
20	11		5.07	7.10	57.62
	7	8 - 11	4.75	5.34	60.31
	4	1 - 7	13.40	9.64	52.80
30	11		4.27	7.24	61.89
	7	8 - 11	4.25	8.71	64.11
	4	1 - 7	10.98	5.10	57.94
A	11		5.18	10.51	58.44
	7	8 - 11	3.67	8.86	63.24
	4	1 - 7	10.48	12.54	49.91
	3	1 - 7, 10	4.60	5.76	51.12
B	11		4.91	10.03	56.11
	7	8 - 11	3.53	8.36	60.32
	4	1 - 7	10.94	12.23	48.60
	3	1 - 7, 10	7.26	5.57	49.37
C	11		4.81	10.59	57.04
	7	8 - 11	3.88	9.12	61.06
	4	1 - 7	10.48	12.54	49.91
	3	1 - 7, 10	4.60	5.76	51.12
D	11		4.89	10.42	57.47
	7	8 - 11	3.71	8.79	61.72
	4	1 - 7	10.48	12.54	49.91
	3	1 - 7, 10	4.60	5.76	51.12
E	11		5.13	10.68	58.01
	7	8 - 11	4.01	9.21	62.58
	4	1 - 7	10.48	12.54	49.91
	3	1 - 7, 10	4.60	5.76	51.12
F	11		4.54	10.40	56.57
	7	8 - 11	3.35	8.82	60.31
	4	1 - 7	10.48	12.54	49.91
	3	1 - 7, 10	4.60	5.76	51.12

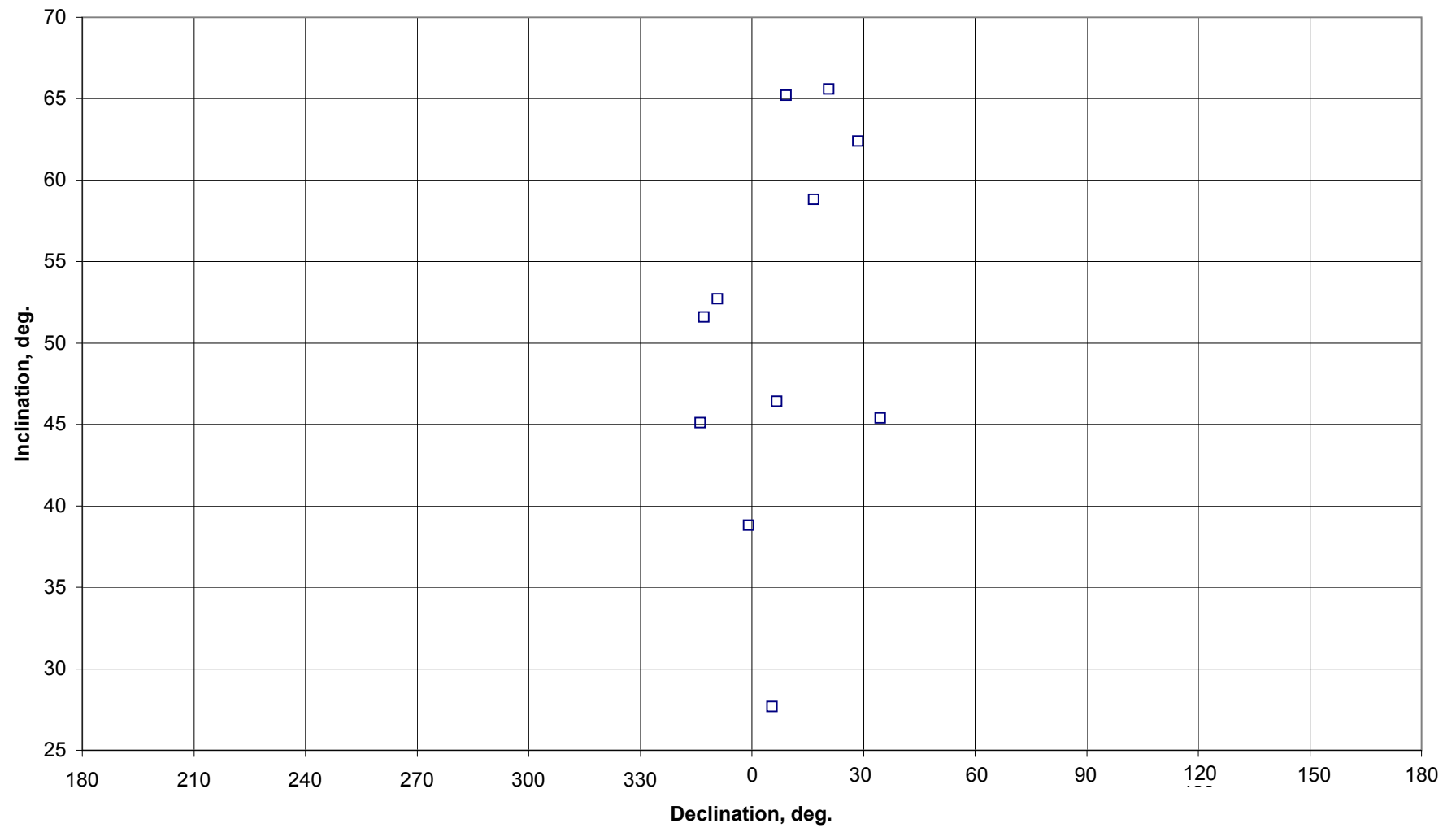
Combination of 15, 20 & 30mT demag. field results: field (sample nos.)

- A 15 (1, 2, 3, 10, 11); 20 (7, 8); 30 (4, 5, 6, 9)
 B 15 (7, 8, 10, 11); 20 (1, 2, 3, 5); 30 (4, 6, 9)
 C 15 (1, 2, 3, 7, 10, 11); 20 (5, 8); 30 (4, 6, 9)
 D 15 (1, 2, 3, 10, 11); 20 (5, 7, 8); 30 (4, 6, 9)
 E 15 (1, 2, 3, 7, 10, 11); 20 (8); 30 (4, 5, 6, 9)
 F **15 (1, 10, 11); 20 (2, 3, 5, 7, 8); 30 (4, 6, 9)**

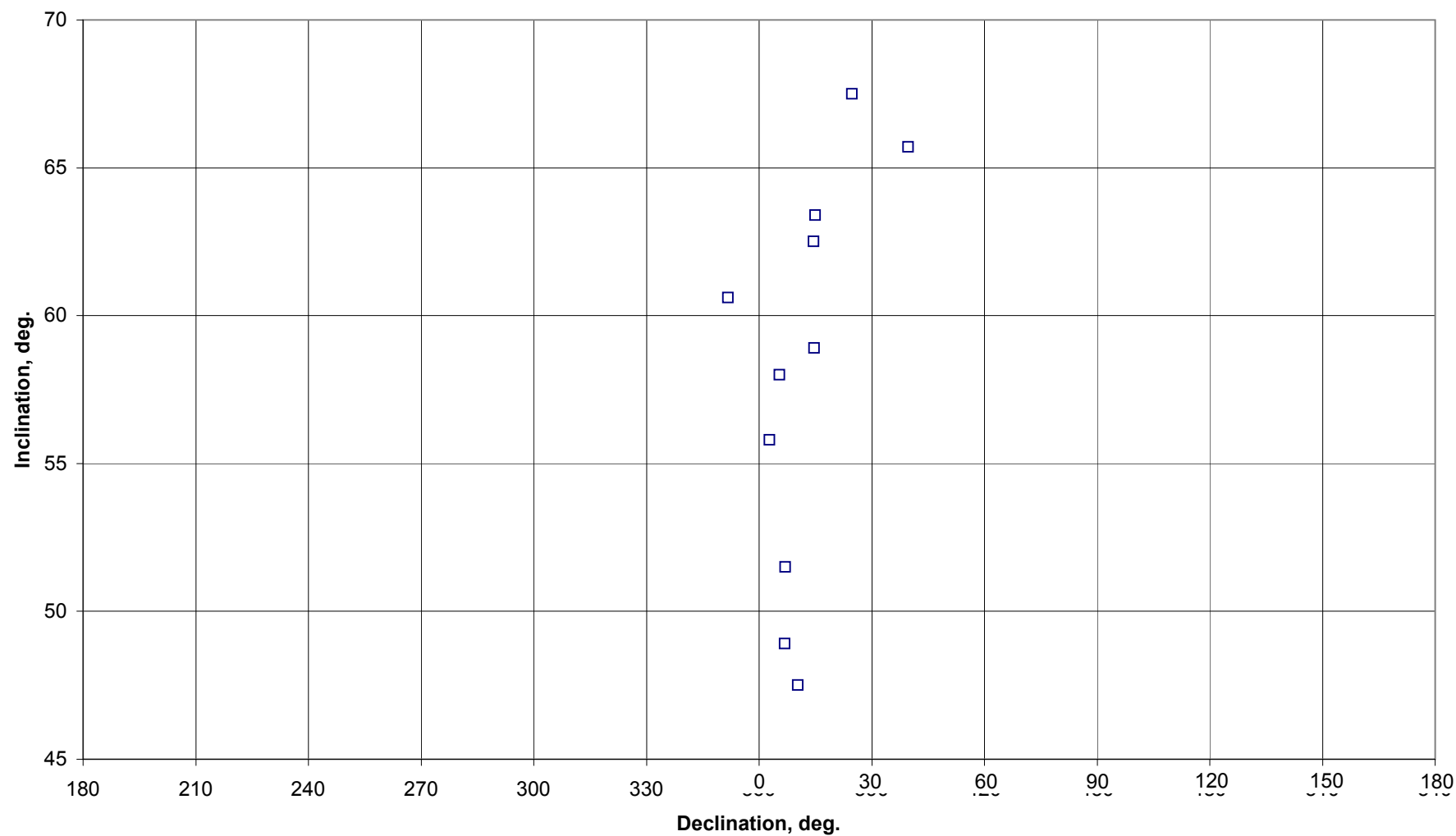
INITIAL SAMPLE SCATTER



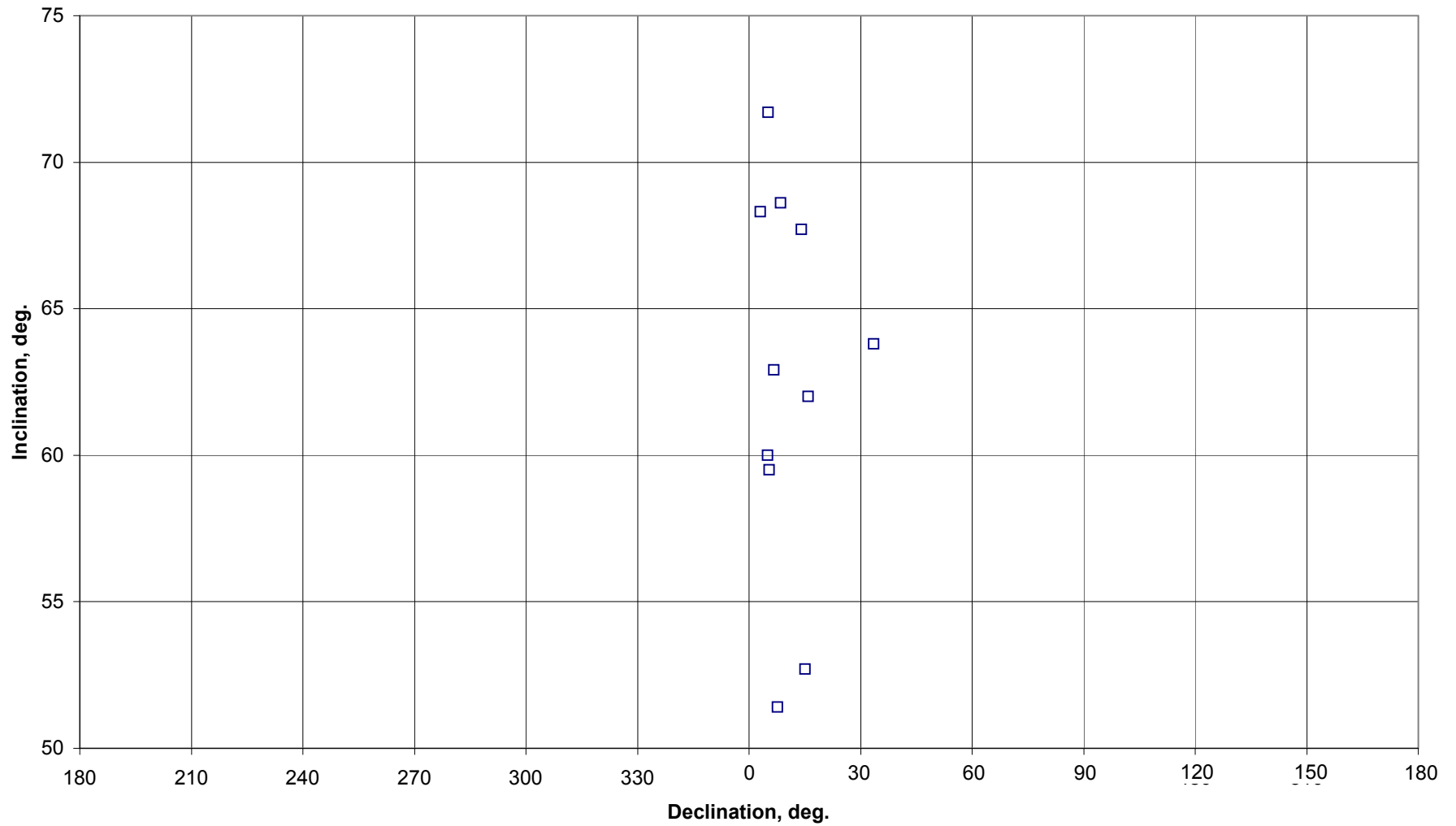
15mT DEMAGNETISED SAMPLE SCATTER



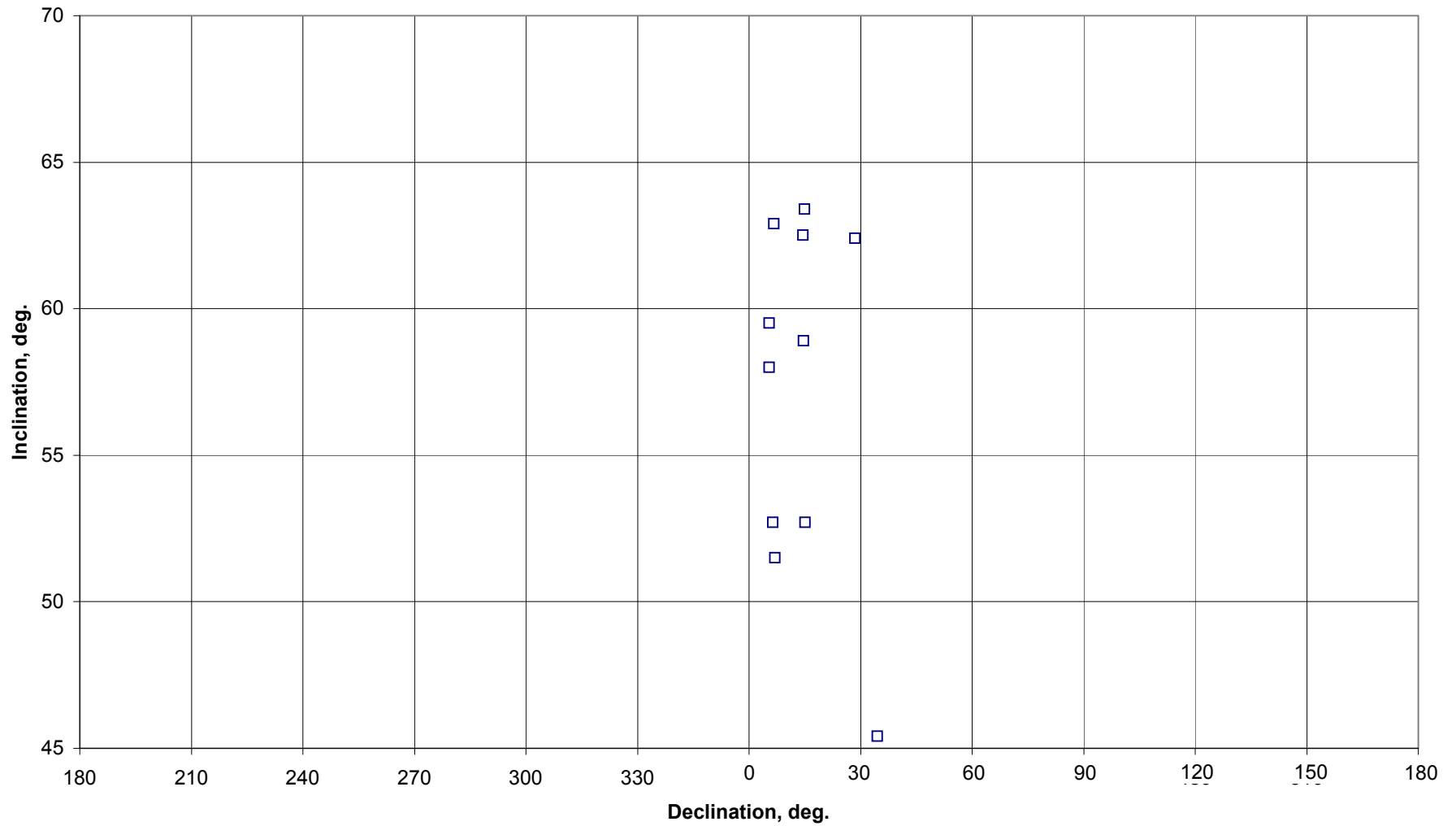
20mT DEMAGNETISED SAMPLE SCATTER



30mT DEMAGNETISED SAMPLE SCATTER



FINAL DEMAGNETISED SAMPLE SCATTER



PILOT STEPPED A.F. DEMAGNETISATION MEASUREMENTS

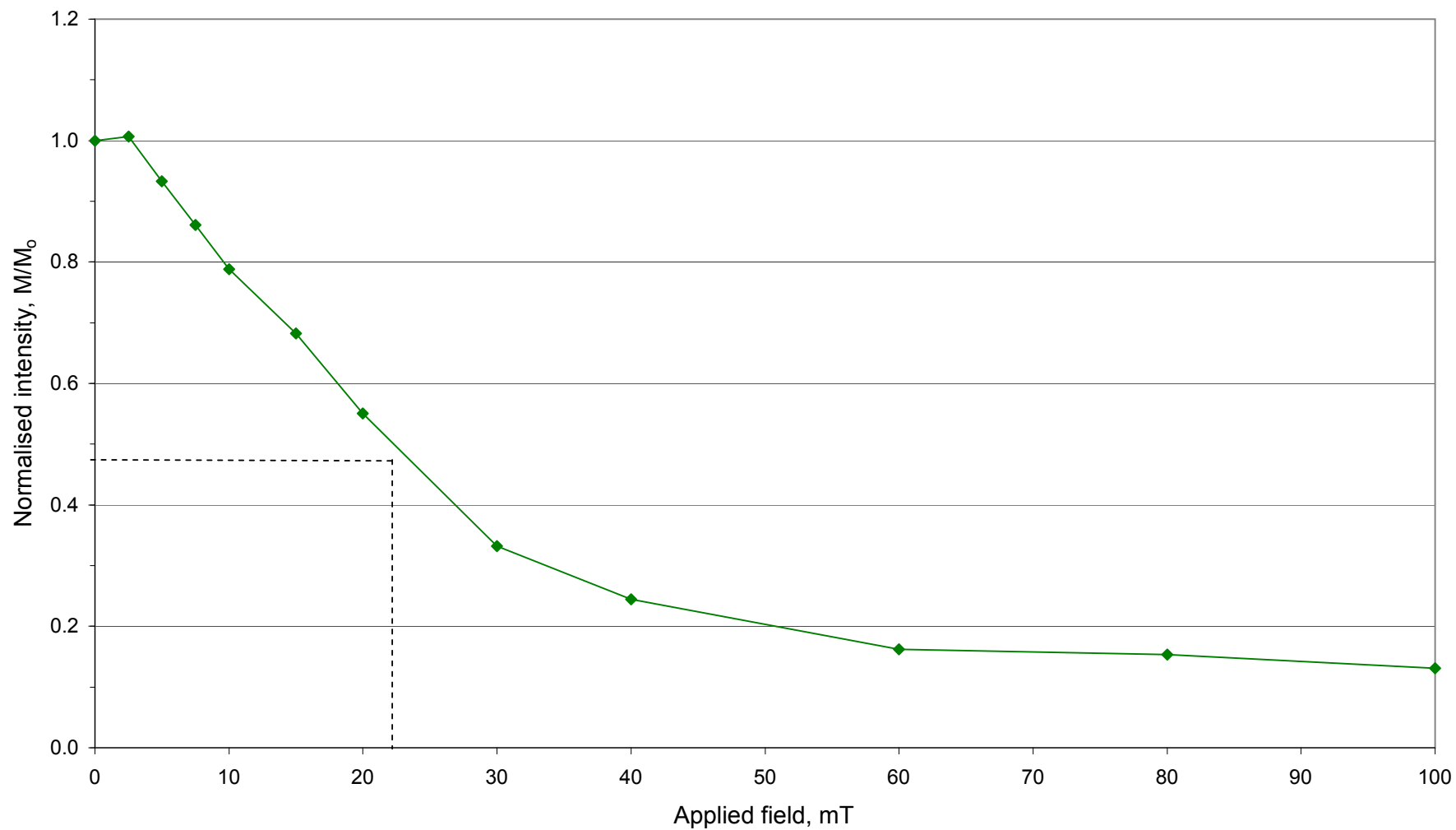
Sample No. 1

Demag Step <i>mT</i>	NRM						
	Intensity <i>mA m⁻¹</i>	Normalised intensity	Co-ordinates			Dec.	Inc.
			X	Y	Z	<i>deg.</i>	<i>deg.</i>
0.0	16.34	1.00	3.23	3.64	15.60	48.4	72.7
2.5	16.45	1.01	3.94	3.46	15.59	41.3	71.4
5.0	15.25	0.93	4.61	3.99	13.98	40.9	66.4
7.5	14.07	0.86	4.05	2.65	13.21	33.3	69.9
10.0	12.87	0.79	4.57	2.87	11.69	32.2	65.2
15.0	11.16	0.68	4.55	2.47	9.88	28.5	62.4
20.0	9.00	0.55	3.13	1.45	8.31	24.8	67.5
30.0	5.43	0.33	2.00	1.33	4.87	33.6	63.8
40.0	4.00	0.24	1.34	0.60	3.72	24.1	68.5
60.0	2.65	0.16	0.99	0.45	2.41	24.3	65.7
80.0	2.50	0.15	0.82	0.47	2.32	30.1	67.8
100.0	2.14	0.13	1.07	0.45	1.80	27.7	57.1

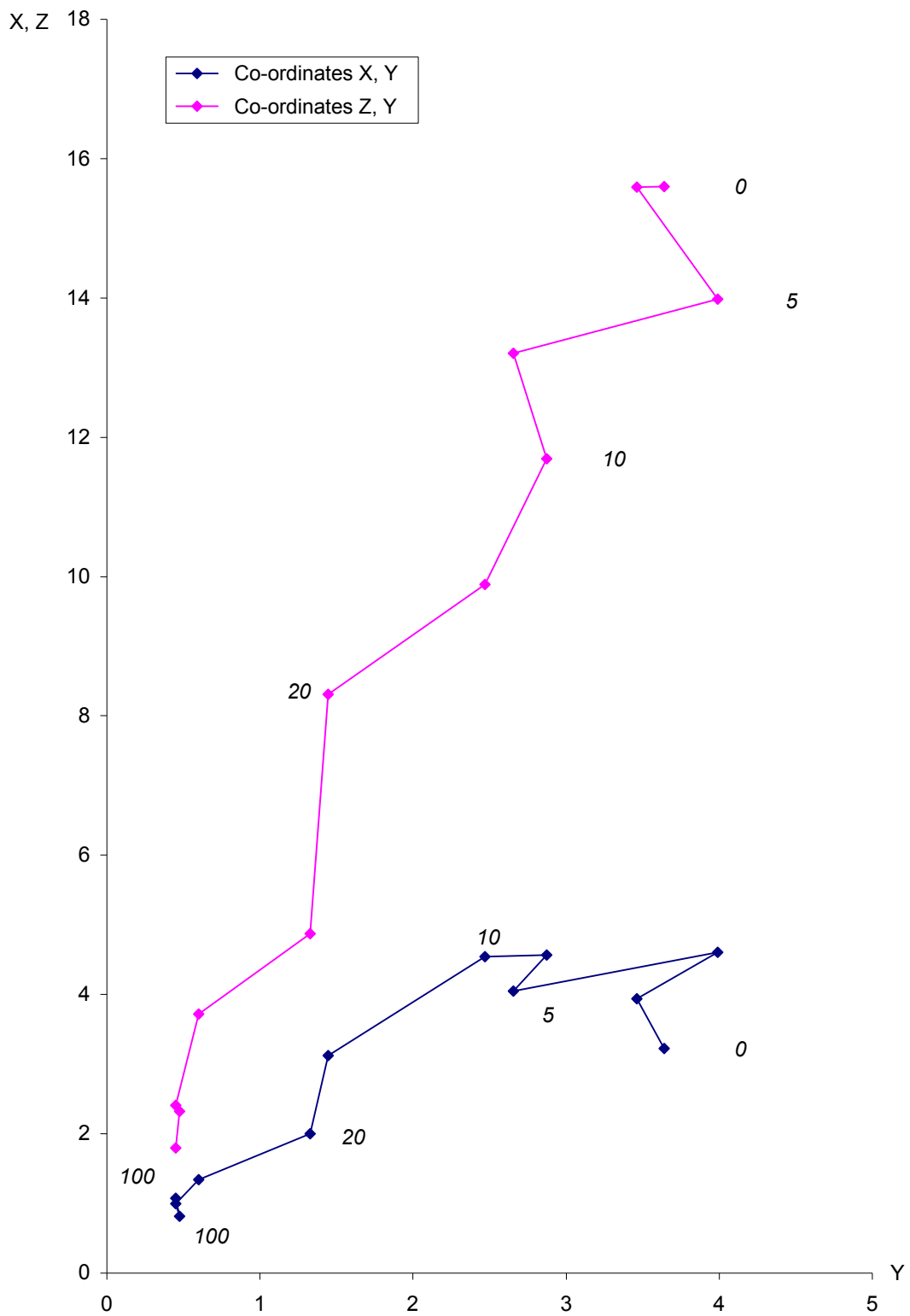
Sample No. 8

Demag Step <i>mT</i>	NRM						
	Intensity <i>mA m⁻¹</i>	Normalised intensity	Co-ordinates			Dec.	Inc.
			X	Y	Z	<i>deg.</i>	<i>deg.</i>
0.0	11.62	1.00	11.52	-0.25	1.50	358.7	7.4
2.5	11.65	1.00	11.42	-0.25	2.30	358.8	11.4
5.0	11.25	0.97	10.67	-0.38	3.55	358.0	18.4
7.5	10.53	0.91	9.50	-0.01	4.53	359.9	25.5
10.0	10.25	0.88	8.39	0.07	5.88	0.5	35.0
15.0	9.92	0.85	6.80	0.80	7.18	6.7	46.4
20.0	10.09	0.87	6.23	0.77	7.90	7.0	51.5
30.0	8.79	0.76	4.37	0.39	7.61	5.1	60.0
40.0	6.89	0.59	3.39	0.94	5.93	15.5	59.3
60.0	4.36	0.38	2.03	0.52	3.82	14.4	61.3
80.0	3.24	0.28	1.68	0.14	2.76	4.8	58.6
100.0	2.54	0.22	1.18	0.15	2.24	7.0	62.0

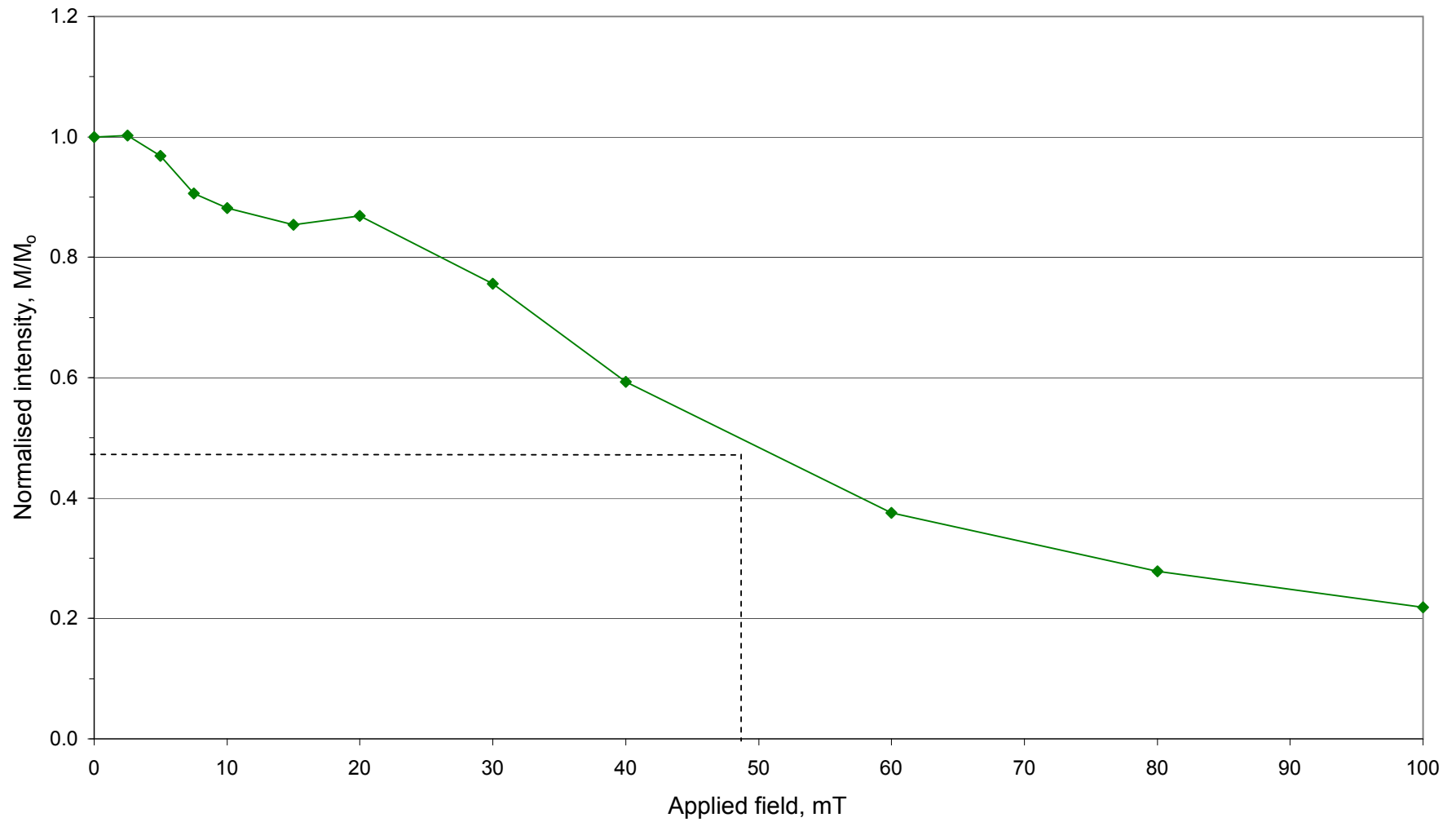
MYERS WOOD - SAMPLE POINT 207/1 DEMAGNETISATION: INTENSITY SPECTRUM



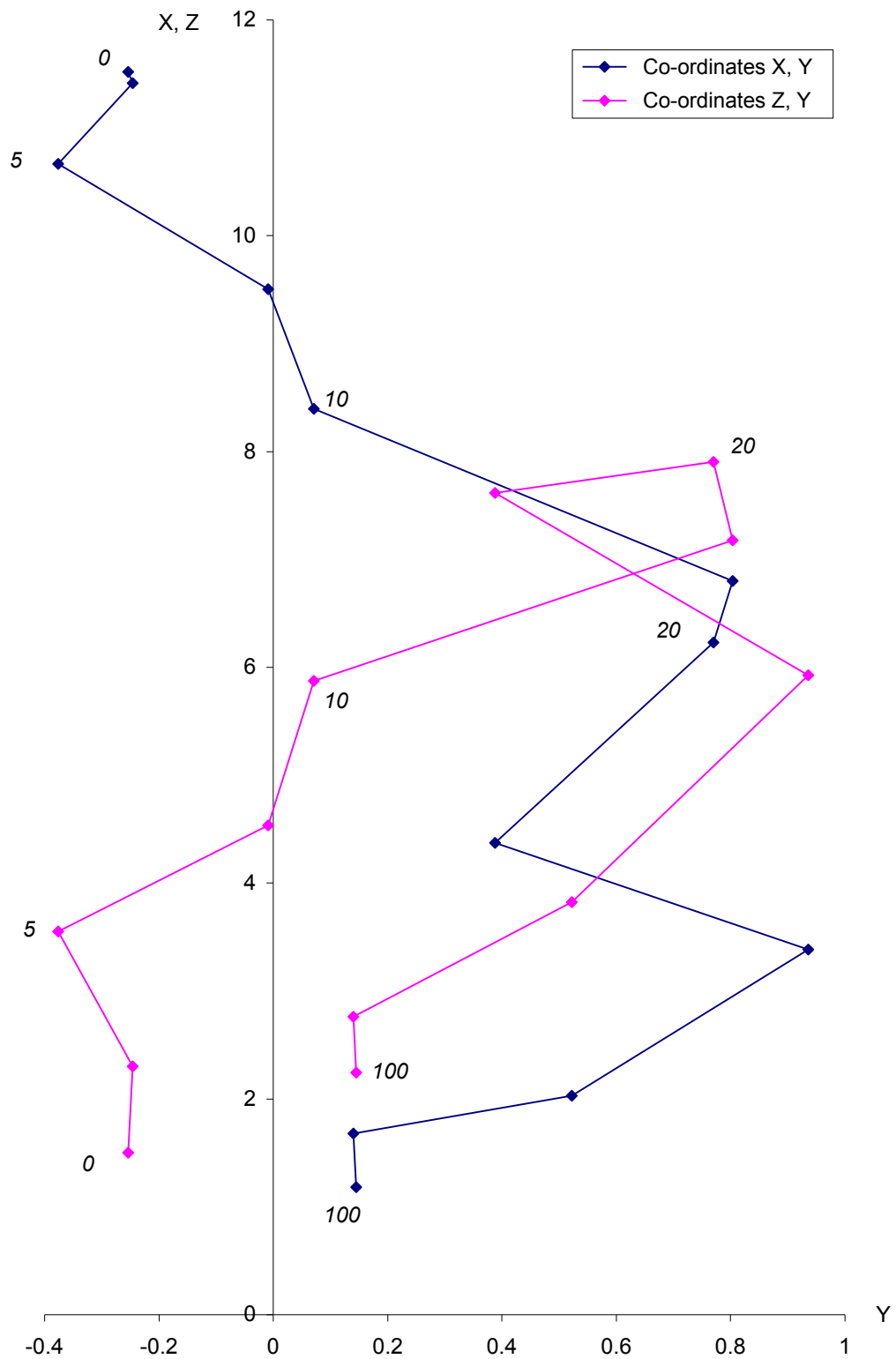
MYERS WOOD - SAMPLE POINT 207/1 - ZIJDERVELD PLOT



MYERS WOOD - SAMPLE POINT 207/8 DEMAGNETISATION: INTENSITY SPECTRUM



MYERS WOOD - SAMPLE POINT 207/8 - ZIJDERVELD PLOT



STEPPED A.F. DEMAGNETISATION MEASUREMENTS FOR OUTLIERS

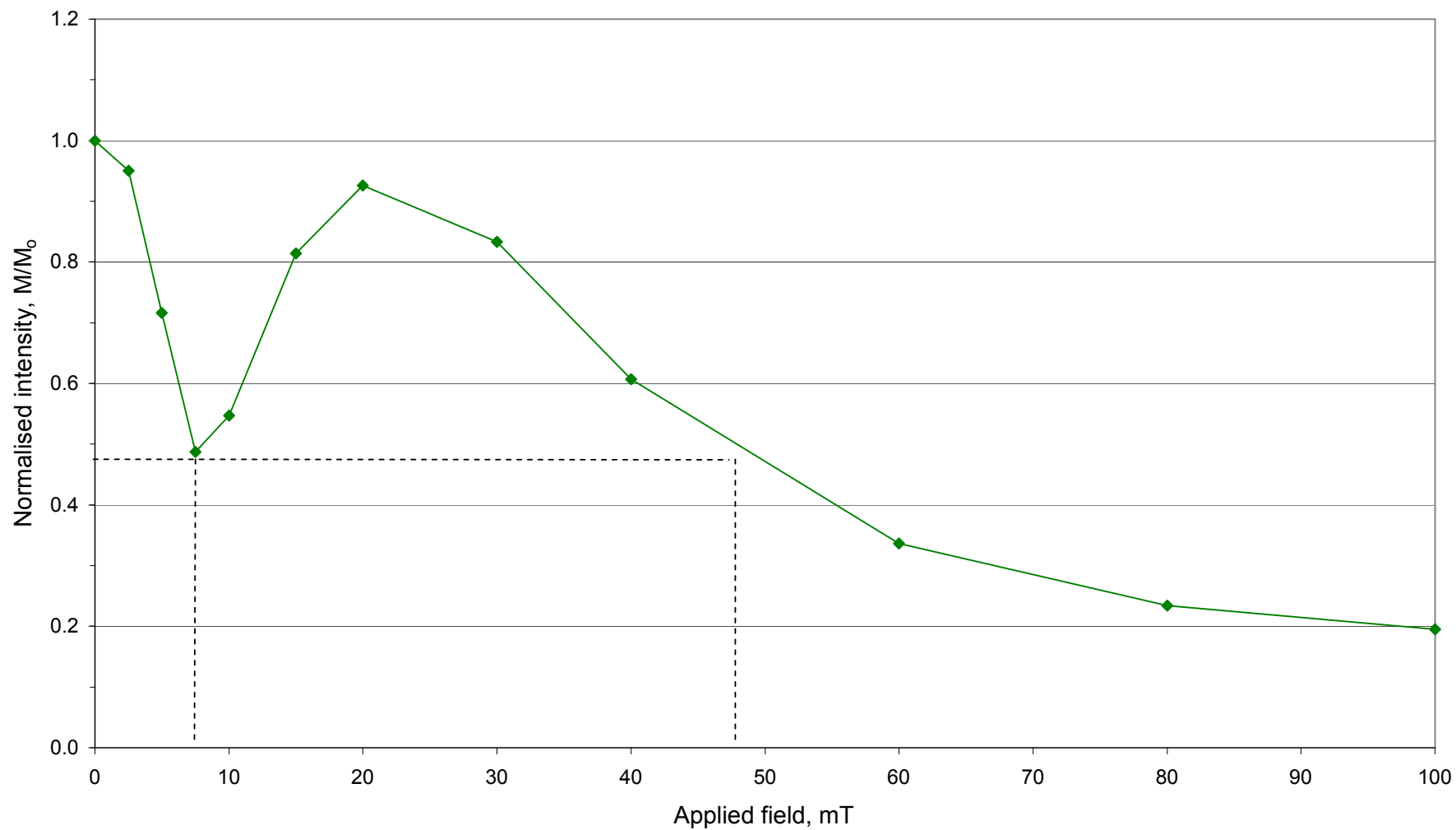
Sample No. 6

Demag Step <i>mT</i>	NRM						
	Intensity <i>mA m⁻¹</i>	Normalised intensity	Co-ordinates			Dec.	Inc.
			X	Y	Z	<i>degs.</i>	<i>degs.</i>
0.0	36.21	1.00	25.29	-12.67	-22.61	333.4	-38.6
2.5	34.42	0.95	23.81	-11.04	-22.26	335.1	-40.3
5.0	25.92	0.72	17.91	-9.43	-16.20	332.2	-38.7
7.5	17.63	0.49	15.18	-8.25	-3.51	331.5	-11.5
10.0	19.81	0.55	15.43	-8.16	9.36	332.1	28.2
15.0	29.47	0.81	17.86	-4.06	23.09	347.2	51.6
20.0	33.54	0.93	16.28	-2.35	29.23	351.8	60.6
30.0	30.18	0.83	15.24	1.46	26.01	5.5	59.5
40.0	21.96	0.61	9.59	0.68	19.74	4.1	64.0
60.0	12.17	0.34	5.20	0.41	10.99	4.5	64.6
80.0	8.47	0.23	3.75	0.15	7.60	2.3	63.7
100.0	7.05	0.19	3.01	0.13	6.37	2.5	64.7

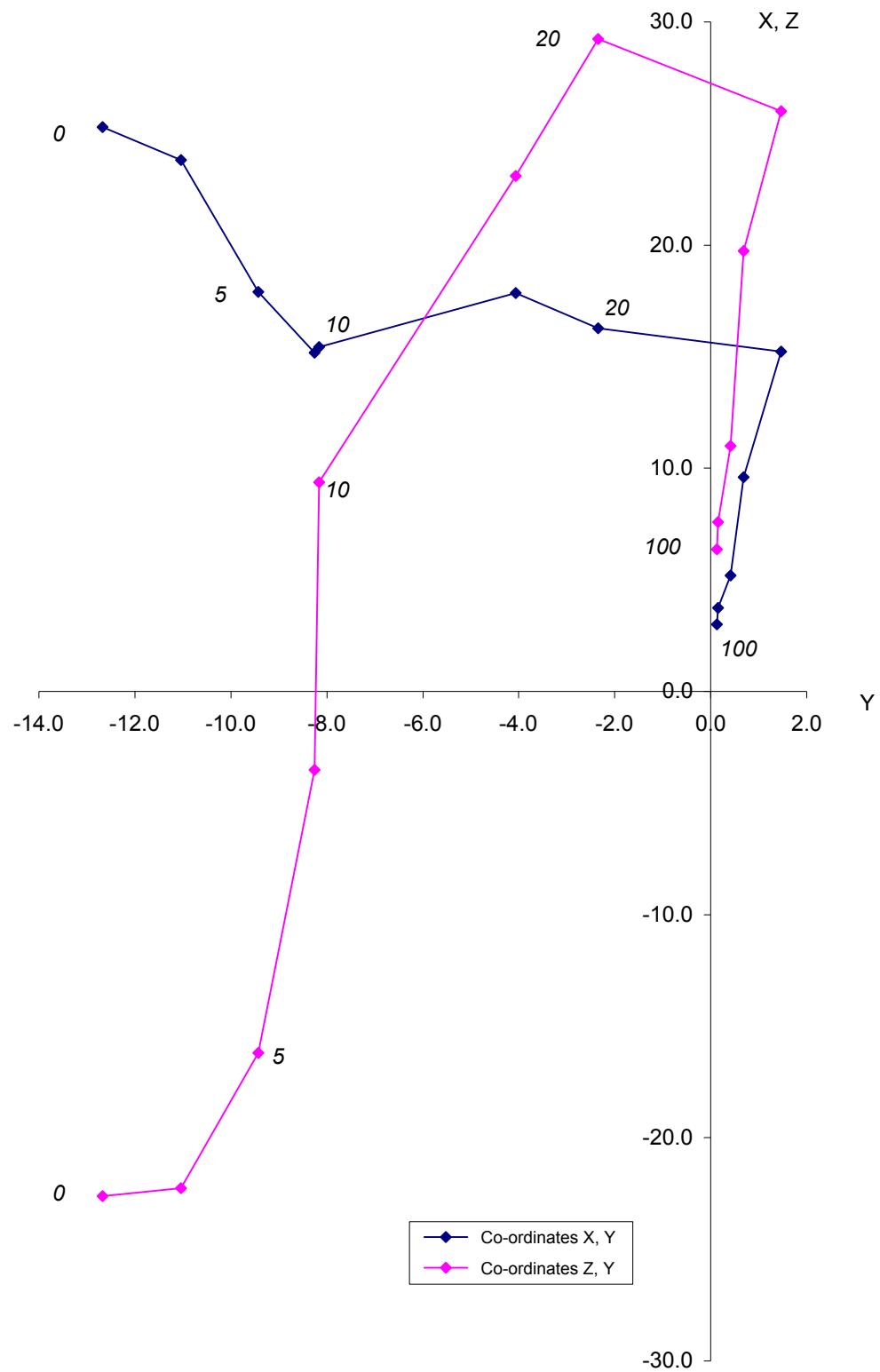
Sample No. 9

Demag Step <i>mT</i>	NRM						
	Intensity <i>mA m⁻¹</i>	Normalised intensity	Co-ordinates			Dec.	Inc.
			X	Y	Z	<i>degs.</i>	<i>degs.</i>
0.0	10.29	1.00	2.32	-1.85	-9.85	321.5	-73.2
2.5	10.53	1.02	3.04	-2.49	-9.77	320.7	-68.1
5.0	8.70	0.85	2.96	-1.59	-8.02	331.8	-67.3
7.5	5.95	0.58	2.40	-0.94	-5.36	338.7	-64.3
10.0	3.71	0.36	2.71	-0.63	-2.46	346.9	-41.5
15.0	2.95	0.29	2.60	0.25	1.37	5.5	27.7
20.0	4.07	0.40	2.70	0.49	3.00	10.4	47.5
30.0	4.17	0.41	2.44	0.66	3.32	15.1	52.7
40.0	3.49	0.34	1.75	0.43	2.99	13.7	58.9
60.0	2.38	0.23	1.15	0.17	2.08	8.3	60.8
80.0	1.78	0.17	0.79	0.09	1.60	6.8	63.6
100.0	1.41	0.14	0.58	0.12	1.27	12.0	64.9

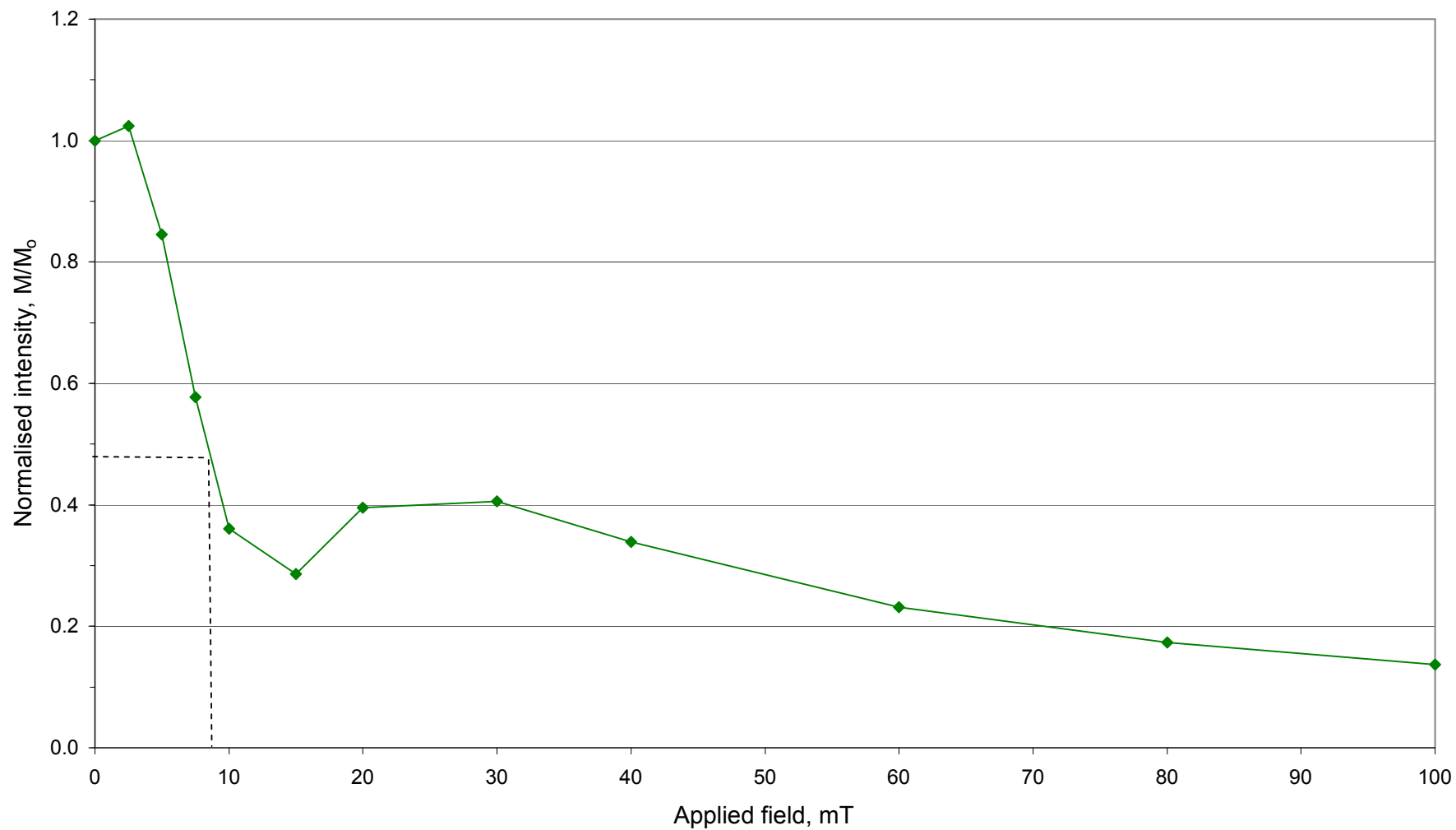
MYERS WOOD - SAMPLE POINT 207/6 DEMAGNETISATION: INTENSITY SPECTRUM



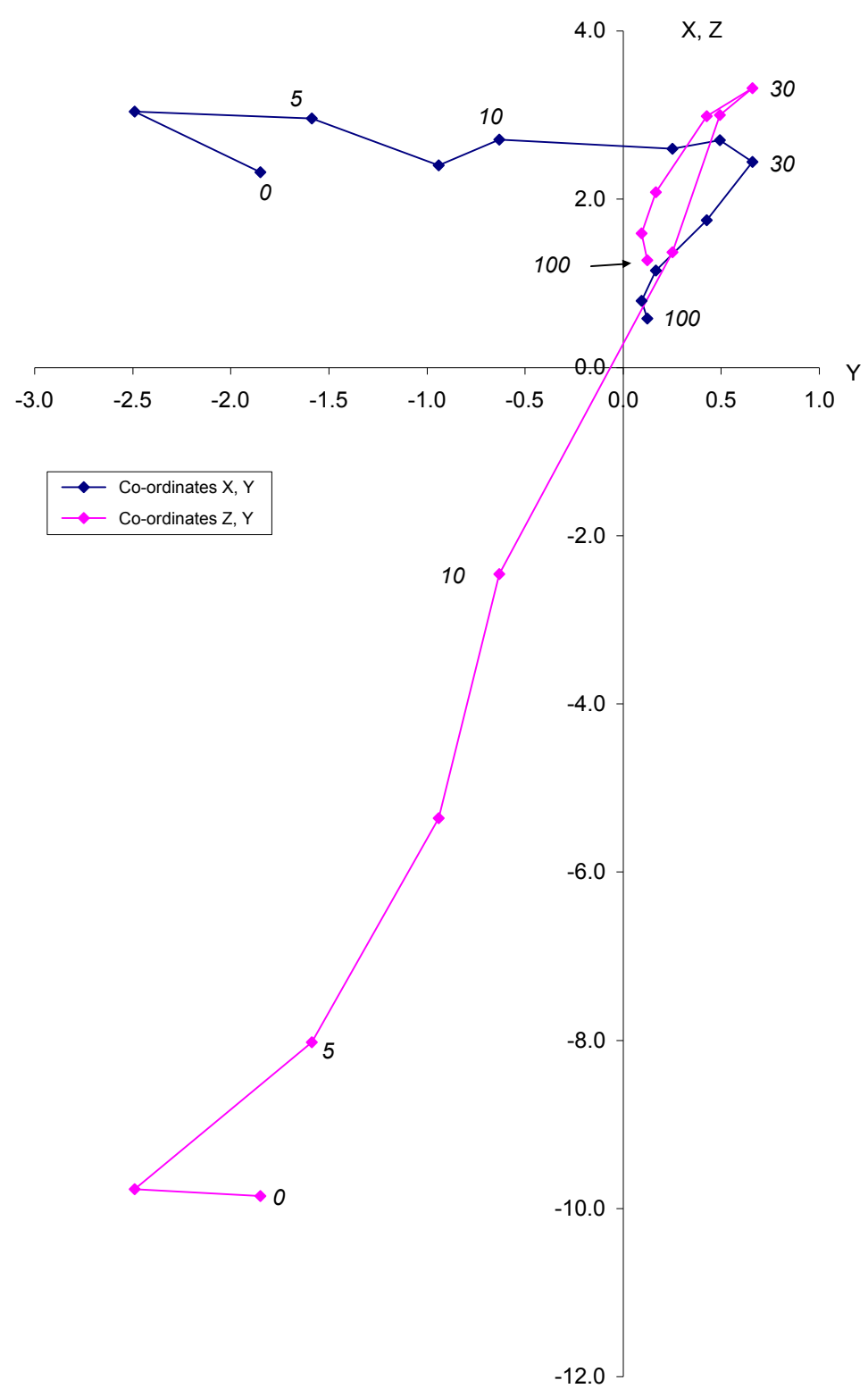
MYERS WOOD - SAMPLE POINT 207/6 - ZIJDERVELD PLOT



MYERS WOOD - SAMPLE POINT 207/9 DEMAGNETISATION: INTENSITY SPECTRUM



MYERS WOOD - SAMPLE POINT 207/9 - ZIJDERVELD PLOT



STABILITY INDEX

Sample No. 1

Demag Step	NRM				
	D	I	x	y	z
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	48.4	72.7	0.19743	0.22238	0.95476
2.5	41.3	71.4	0.23962	0.21051	0.94777
5.0	40.9	66.4	0.30261	0.26212	0.91636
7.5	33.3	69.9	0.28723	0.18868	0.93909
10.0	32.2	65.2	0.35494	0.22352	0.90778
15.0	28.5	62.4	0.40715	0.22107	0.88620
20.0	24.8	67.5	0.34739	0.16052	0.92388
30.0	33.6	63.8	0.36774	0.24433	0.89726
40.0	24.1	68.5	0.33455	0.14965	0.93042
60.0	24.3	65.7	0.37506	0.16934	0.91140
80.0	30.1	67.8	0.32689	0.18949	0.92587
100.0	27.7	57.1	0.48092	0.25249	0.83962

Number = 12
Sum x = 4.02154
Sum y = 2.49410
Sum z = 10.98042
R = 11.95671
x bar = 0.33634
y bar = 0.20859
z bar = 0.91835

Mean Dec = 31.81
Mean Inc = 66.69
Alpha95 = 2.73

k = 254
Theta63 = 5.08
Range = 100
S.I. = 6.2

Sample No. 1

Number	Range	S.I.
3	5	2.0
4	7.5	2.6
5	10	2.5
6	15	2.5
7	20	3.0
8	30	3.8
9	40	4.4
10	60	5.5
11	80	6.7 *
12	100	6.2

Sample No. 8

Demag Step	NRM				
	D	I	x	y	z
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	358.7	7.4	0.99142	-0.02250	0.12880
2.5	358.8	11.4	0.98006	-0.02053	0.19766
5.0	358.0	18.4	0.94830	-0.03312	0.31565
7.5	359.9	25.5	0.90258	-0.00158	0.43051
10.0	0.5	35.0	0.81912	0.00715	0.57358
15.0	6.7	46.4	0.68491	0.08046	0.72417
20.0	7.0	51.5	0.61787	0.07587	0.78261
30.0	5.1	60.0	0.49802	0.04445	0.86603
40.0	15.5	59.3	0.49197	0.13644	0.85985
60.0	14.4	61.3	0.46514	0.11943	0.87715
80.0	4.8	58.6	0.51918	0.04360	0.85355
100.0	7.0	62.0	0.46597	0.05721	0.88295

Number = 12
Sum x = 8.38455
Sum y = 0.48688
Sum z = 7.49249
R = 11.25500
x bar = 0.74496
y bar = 0.04326
z bar = 0.66570

Mean Dec = 3.32
Mean Inc = 41.74
Alpha95 = 11.68

k = 15
Theta63 = 21.08
Range = 100
S.I. = 1.5

Sample No. 8

Number	Range	S.I.
3	5	1.3
4	7.5	1.1
5	10	0.9
6	15	0.8
7	20	0.8
8	30	0.9
9	40	1.0
10	60	1.2
11	80	1.3
12	100	1.5 *

Sample No. 6

Demag Step	NRM				
	D	I	x	y	z
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	333.4	-38.6	0.69880	-0.34993	-0.62388
2.5	335.1	-40.3	0.69177	-0.32111	-0.64679
5.0	332.2	-38.7	0.69035	-0.36398	-0.62524
7.5	331.5	-11.5	0.86117	-0.46758	-0.19937
10.0	332.1	28.2	0.77887	-0.41239	0.47255
15.0	347.2	51.6	0.60571	-0.13761	0.78369
20.0	351.8	60.6	0.48588	-0.07002	0.87121
30.0	5.5	59.5	0.50520	0.04865	0.86163
40.0	4.1	64.0	0.43725	0.03134	0.89879
60.0	4.5	64.6	0.42761	0.03365	0.90334
80.0	2.3	63.7	0.44271	0.01778	0.89649
100.0	2.5	64.7	0.42695	0.01864	0.90408

Number = 12
Sum x = 7.05229
Sum y = -1.97256
Sum z = 4.49651
R = 8.59328
x bar = 0.82068
y bar = -0.22955
z bar = 0.52326

Mean Dec = -15.63
Mean Inc = 31.55
Alpha95 = 28.85

k = 3
Theta63 = 45.08
Range = 100
S.I. = 0.7

Sample No. 6

Number	Range	S.I.
3	5	4.8 *
4	7.5	0.6
5	10	0.3
6	15	0.3
7	20	0.3
8	30	0.4
9	40	0.4
10	60	0.5
11	80	0.6
12	100	0.7

Sample No. 9

Demag Step	NRM				
	D	I	x	y	z
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	321.5	-73.2	0.22620	-0.17993	-0.95732
2.5	320.7	-68.1	0.28863	-0.23624	-0.92784
5.0	331.8	-67.3	0.34010	-0.18236	-0.92254
7.5	338.7	-64.3	0.40404	-0.15753	-0.90108
10.0	346.9	-41.5	0.72946	-0.16975	-0.66262
15.0	5.5	27.7	0.88132	0.08486	0.46484
20.0	10.4	47.5	0.66449	0.12196	0.73728
30.0	15.1	52.7	0.58507	0.15786	0.79547
40.0	13.7	58.9	0.50184	0.12233	0.85627
60.0	8.3	60.8	0.48275	0.07043	0.87292
80.0	6.8	63.6	0.44151	0.05265	0.89571
100.0	12.0	64.9	0.41493	0.08820	0.90557

Number = 12
Sum x = 5.96033
Sum y = -0.22753
Sum z = 1.15667
R = 6.07579
x bar = 0.98100
y bar = -0.03745
z bar = 0.19037

Mean Dec = -2.19
Mean Inc = 10.97
Alpha95 = 45.99

k = 2
Theta63 = 59.44
Range = 100
S.I. = 0.5

Sample No. 9

Number	Range	S.I.
3	5	1.8 *
4	7.5	1.8
5	10	0.7
6	15	0.3
7	20	0.3
8	30	0.3
9	40	0.3
10	60	0.4
11	80	0.5
12	100	0.5