

SITE INFORMATION

Site Name Myers Wood
Area Trench A
Context No
Description Ore roasting area
Latitude (+ve N) 53.60
Longitude (+ve E) -1.73
Magnetic Var -3.72
Date Sampled 18/9/02

MAGNETIC MEASUREMENTS

Sample no.	NRM			Field	After partial demag			Pilot?	Comments
	D	I	Int		D	I	Int		
	<i>degs.</i>	<i>degs.</i>	<i>arb</i>	<i>mT</i>	<i>degs.</i>	<i>degs.</i>	<i>arb</i>	Y/N	
1	8.5	69.4	147.75	10	4.8	66.9	67.78	Y	
2	352.7	68.8	58.64	10	1.5	63.3	14.77		
3	9.6	79.8	33.87	10	5.1	63.2	2.66	Y	
4	10.4	61.1	35.64	10	6.9	59.1	18.80		
5	1.7	74.9	85.03	10	14.8	69.1	17.35		
6	347.4	67.1	75.78	10	337.4	60.8	15.36		
7	350.3	66.8	60.61	10	10.1	58.3	21.93	Y	
8	352.0	66.9	21.44	10	16.9	64.6	3.80		
9	104.5	56.8	22.46	10	124.0	12.2	14.19	Y	Outlier
10	27.7	65.1	29.24	10	34.2	54.4	9.74		
11	280.3	74.1	1.37	10	350.7	58.8	0.14	Y	
12	355.0	72.2	38.05	10	7.8	62.9	8.21		
13	354.7	73.0	61.01	10	16.4	67.1	15.24		
14	349.7	64.2	48.33	10	345.8	59.4	5.92	Y	
15	326.0	70.6	18.92	10	341.8	71.3	3.79		

STATISTICS FOR NRM

Sample no.	NRM				
	D	I	x	y	z
	<i>degs.</i>	<i>degs.</i>			
1	8.5	69.4	0.34798	0.05201	0.93606
2	352.7	68.8	0.35869	-0.04595	0.93232
3	9.6	79.8	0.17460	0.02953	0.98420
4	10.4	61.1	0.47534	0.08724	0.87546
5	1.7	74.9	0.26039	0.00773	0.96547
6	347.4	67.1	0.37975	-0.08488	0.92119
7	350.3	66.8	0.38831	-0.06638	0.91914
8	352.0	66.9	0.38852	-0.05460	0.91982
9	104.5	56.8	-0.13710	0.53012	0.83676
10	27.7	65.1	0.37278	0.19572	0.90704
11	280.3	74.1	0.04898	-0.26954	0.96174
12	355.0	72.2	0.30453	-0.02664	0.95213
13	354.7	73.0	0.29112	-0.02701	0.95630
14	349.7	64.2	0.42822	-0.07782	0.90032
15	326.0	70.6	0.27537	-0.18574	0.94322

Number = 15
 Sum x = 4.35750
 Sum y = 0.06378
 Sum z = 13.91118
 R = 14.57782
 x bar = 0.29891
 y bar = 0.00437
 z bar = 0.95427

Mean Dec = 0.84
Mean Inc = 72.61
Alpha95 = 6.74

STATISTICS FOR PARTIAL DEMAGNETISATION

Sample no.	Demag				
	D	I	x	y	z
	<i>degs.</i>	<i>degs.</i>			
1	4.8	66.9	0.39096	0.03283	0.91982
2	1.5	63.3	0.44917	0.01176	0.89337
3	5.1	63.2	0.44909	0.04008	0.89259
4	6.9	59.1	0.50982	0.06170	0.85806
5	14.8	69.1	0.34490	0.09113	0.93420
6					
7	10.1	58.3	0.51733	0.09215	0.85081
8	16.9	64.6	0.41041	0.12469	0.90334
9					
10					
11	350.7	58.8	0.51122	-0.08372	0.85536
12	7.8	62.9	0.45133	0.06182	0.89021
13	16.4	67.1	0.37329	0.10987	0.92119
14	345.8	59.4	0.49349	-0.12487	0.86074
15					

Number = 11
 Sum x = 4.90101
 Sum y = 0.41744
 Sum z = 9.77970
 R = 10.94699
 x bar = 0.44770
 y bar = 0.03813
 z bar = 0.89337

Mean Dec = 4.87
 Mean Inc = 63.30
 Alpha95 = 3.33

Alpha68 = 1.96

CORRECTIONS

Mean Dec = 4.87
Mean Inc = 63.30

Correction for magnetic variation

Mean Dec = 1.15
Mean Inc = 63.30

Correction to Meriden (CVP)

Uncorrected Dec = 1.15
Uncorrected Inc = 63.30
Latitude = 53.60
Longitude = -1.73

Kai = 45.17
Latitude of pole = 81.20
Beta1 = 5.33
Longitude of pole = 172.94
Geomag colat = 46.34
Corrected Inc = 62.35
Beta 2 = 5.44
Corrected Dec = 1.15

FINAL RESULT

Corrected Dec = 1.15
Corrected Inc = 62.35
Alpha95 = 3.33

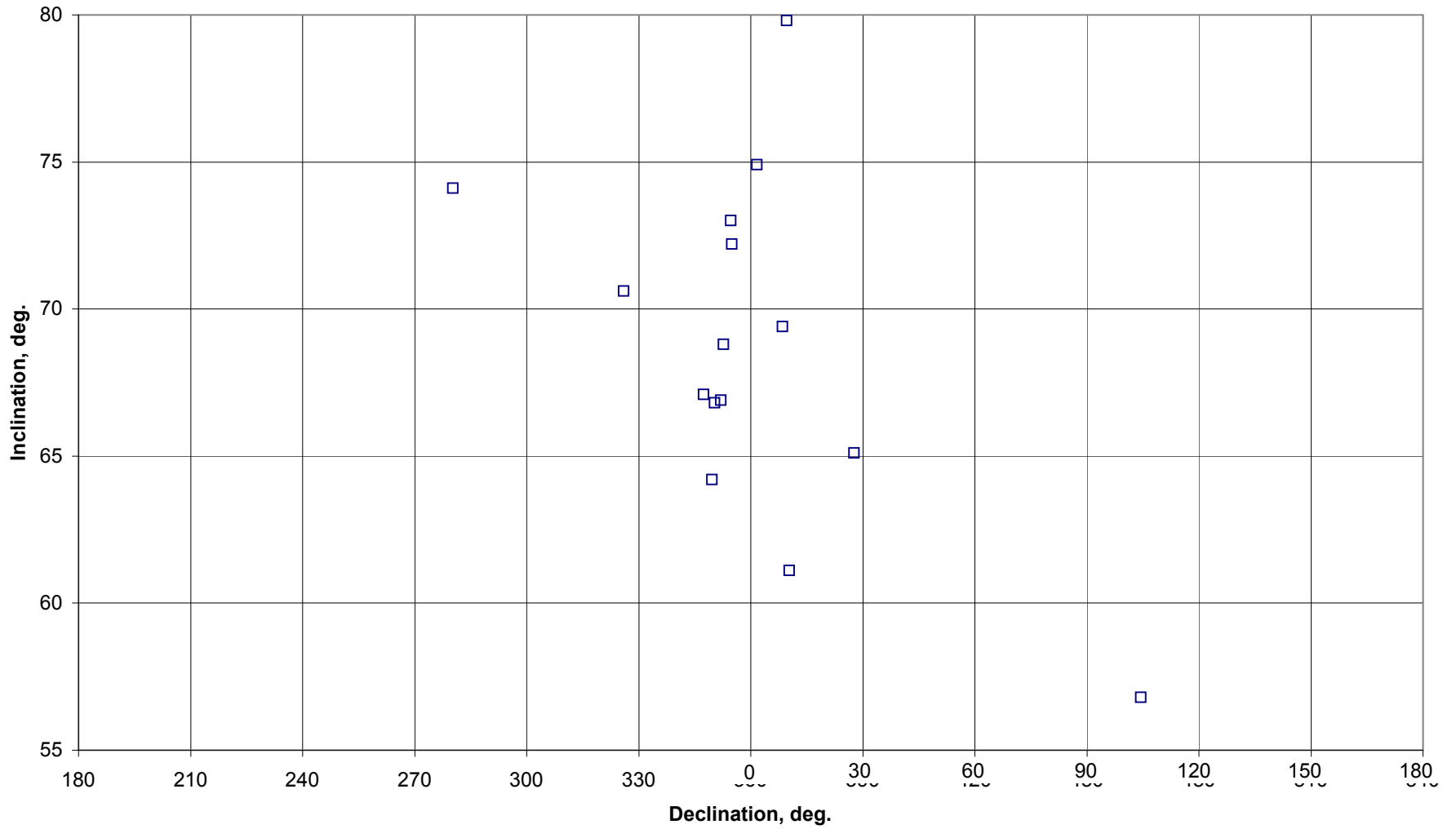
ERROR BARS

Alpha95		Alpha68	
δDec = ±	7.18	δDec = ±	4.22
δInc = ±	3.33	δInc = ±	1.96

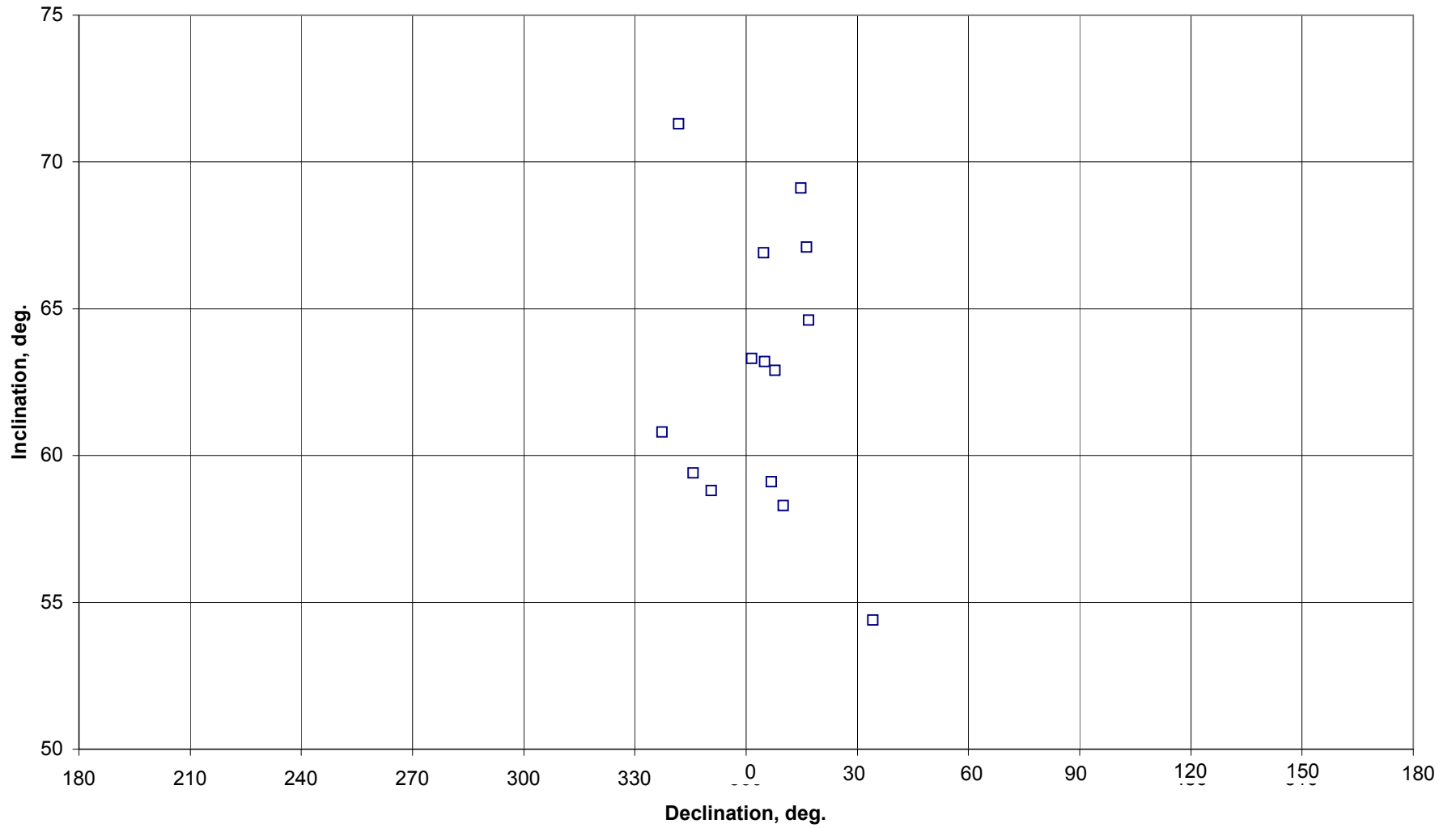
SUMMARY OF PARTIAL DEMAGNETISATION STATISTICAL RESULTS

Demag Field <i>mT</i>	No. of samples	Samples removed	Alpha95 ± <i>degs.</i>	Mean Corrected	
				Dec <i>degs.</i>	Inc <i>degs.</i>
0	15		6.74	-2.81	71.86
	14	9	4.53	-9.37	70.16
	13	9, 11	3.72	-6.09	69.03
10	15		11.34	8.87	64.70
	14	9	4.22	0.55	62.69
	13	9, 10	3.68	-2.34	63.07
	12	9, 10, 15	3.63	-1.21	62.35
	11	9, 6, 10, 15	3.33	1.15	62.35
15	15		14.78	1.17	64.48
	14	9	6.82	-6.04	62.34
	13	9, 10	6.13	-10.46	62.58
	13	9, 11	5.39	-0.73	62.36
	12	9, 10, 11	4.22	-5.01	62.80
	11	9, 10, 11, 15	3.99	-3.55	61.83

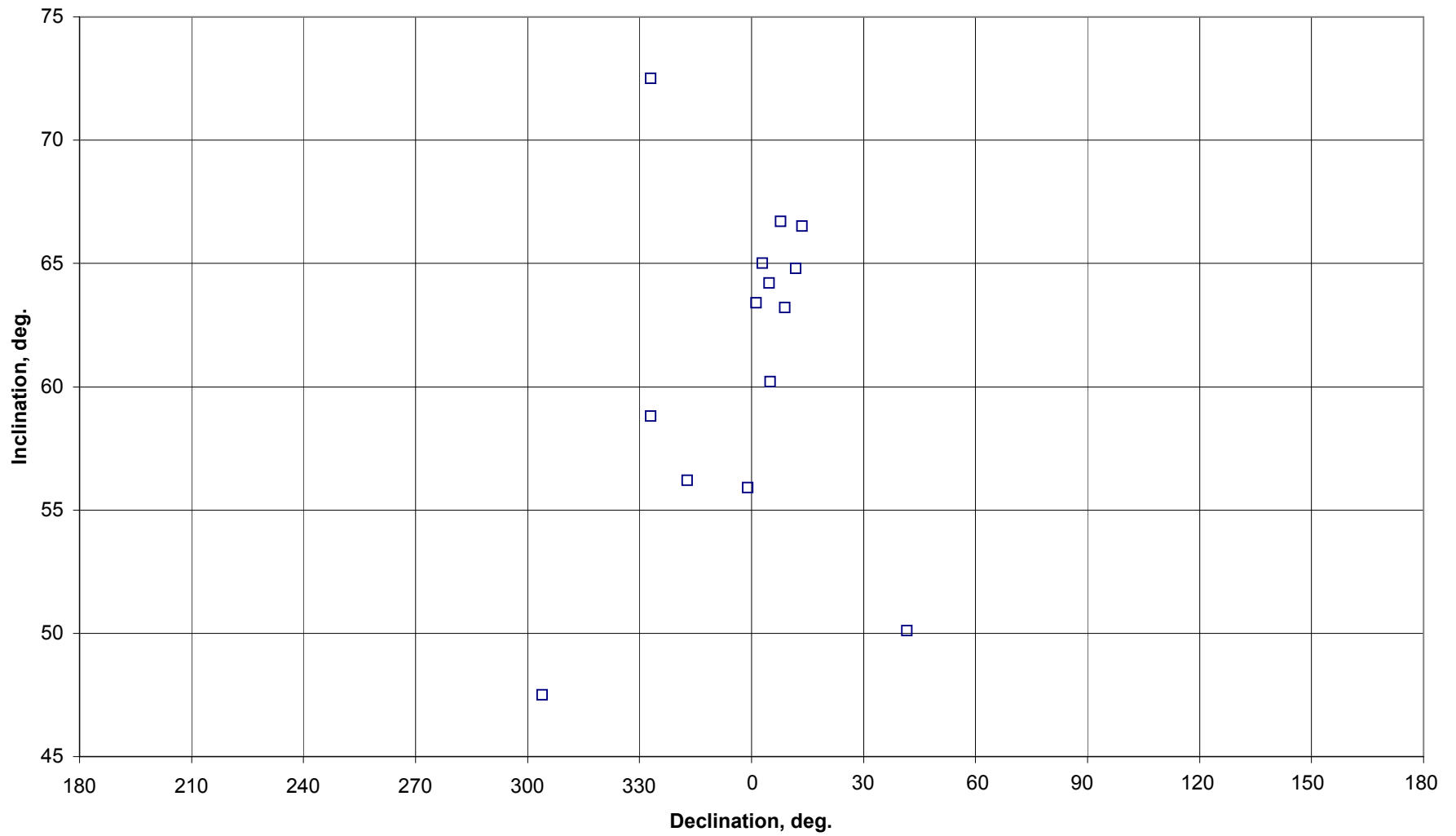
INITIAL SAMPLE SCATTER



10mT DEMAGNETISED SAMPLE SCATTER



15mT 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>degs.</i>	<i>degs.</i>
0.0	132.76	1.00	39.96	4.38	126.53	6.3	72.4
2.5	131.50	0.99	40.74	2.12	125.01	3.0	71.9
5.0	120.51	0.91	42.71	9.78	112.26	12.9	68.7
7.5	107.24	0.81	40.85	1.95	99.14	2.7	67.6
10.0	93.23	0.70	34.48	3.04	85.74	4.8	66.9
15.0	67.78	0.51	28.28	5.94	61.31	11.9	64.8
20.0	38.06	0.29	16.16	1.89	34.41	6.7	64.7
30.0	11.50	0.09	4.61	-0.31	10.53	356.2	66.3
40.0	7.34	0.06	2.32	0.38	6.95	9.4	71.3
60.0	6.19	0.05	2.44	-0.76	5.64	342.7	65.7
80.0	5.70	0.04	2.43	-0.09	5.16	357.9	64.7
100.0	5.45	0.04	2.30	-0.56	4.92	346.4	64.3

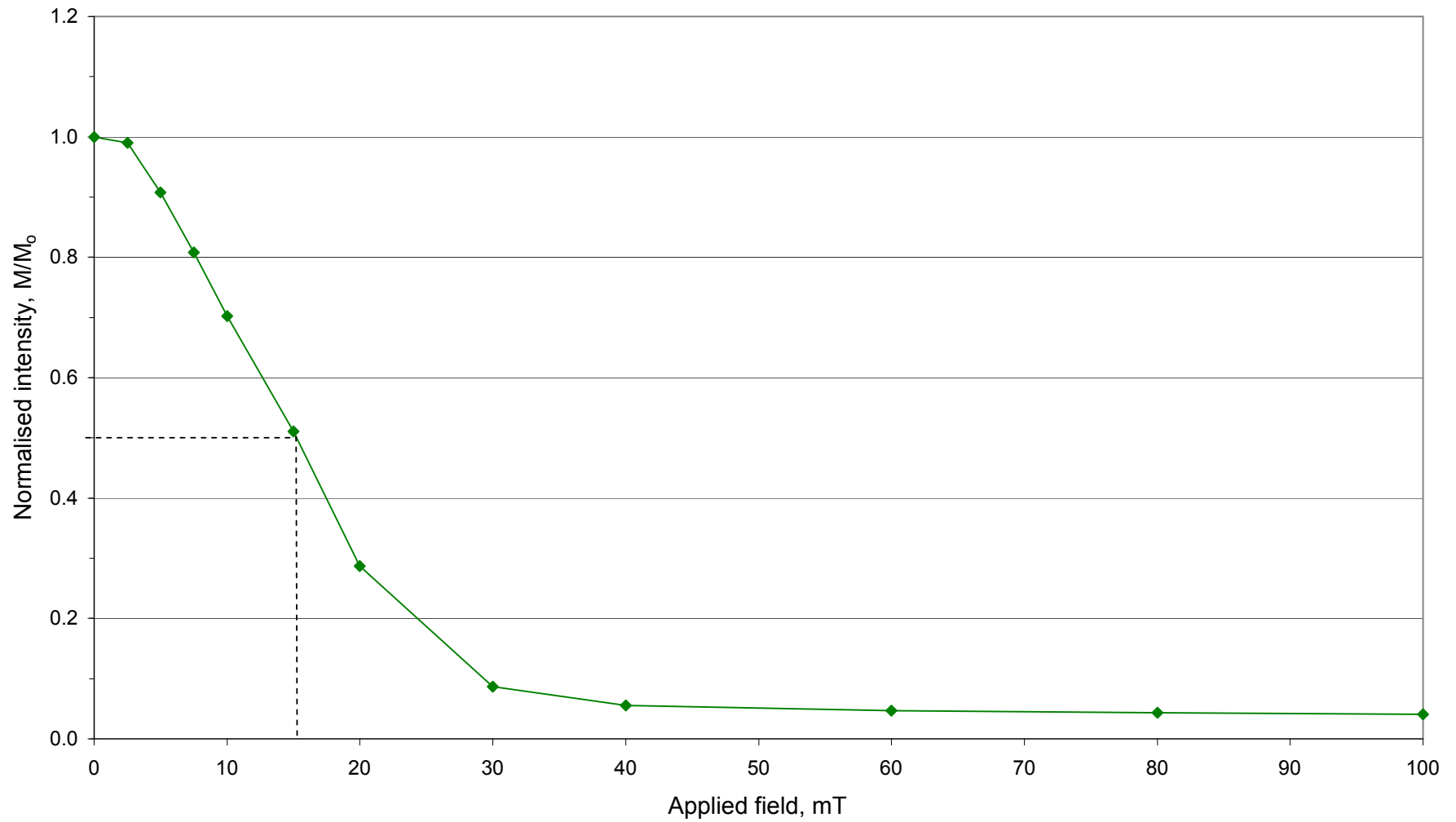
Sample No. 7

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	56.00	1.00	25.44	-3.55	49.76	352.1	62.7
2.5	55.24	0.99	24.66	-4.17	49.26	350.4	63.1
5.0	50.51	0.90	20.98	-1.21	45.93	356.7	65.4
7.5	43.71	0.78	21.43	-2.21	38.03	354.1	60.5
10.0	37.24	0.67	19.25	3.45	31.69	10.1	58.3
15.0	21.93	0.39	12.30	-0.22	18.16	359.0	55.9
20.0	9.50	0.17	5.24	0.13	7.93	1.5	56.5
30.0	2.90	0.05	1.56	-0.40	2.41	345.5	56.2
40.0	2.09	0.04	1.12	-0.28	1.74	346.1	56.5
60.0	1.78	0.03	1.03	-0.29	1.42	344.6	52.9
80.0	1.72	0.03	0.92	-0.20	1.44	347.6	56.8
100.0	2.01	0.04	1.03	-0.07	1.72	356.0	59.0

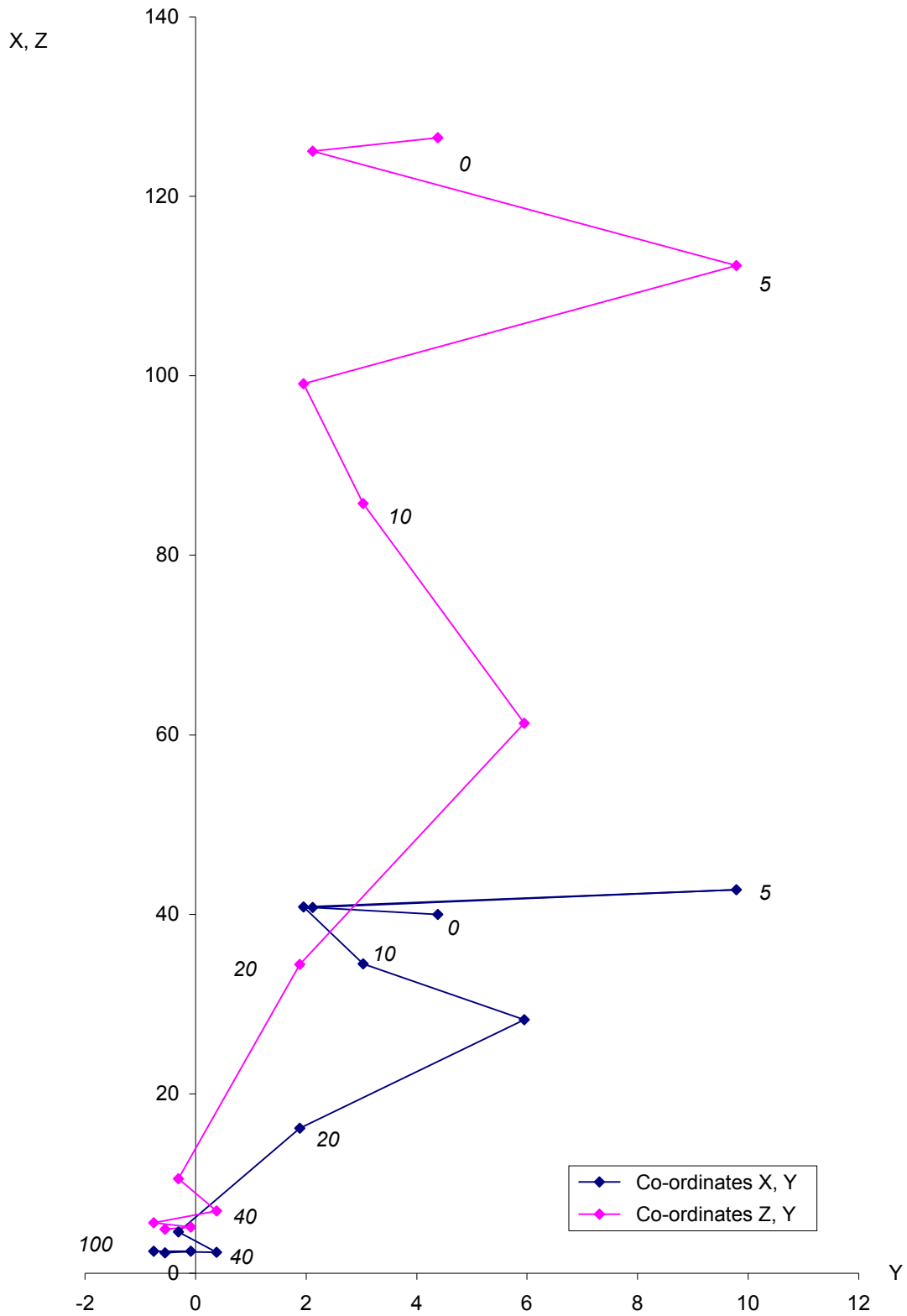
Sample No. 14

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	43.21	1.00	14.69	-5.00	40.32	341.2	69.0
2.5	44.99	1.04	22.78	-3.13	38.67	352.2	59.3
5.0	35.60	0.82	16.09	-3.39	31.58	348.1	62.5
7.5	24.48	0.57	12.34	-2.44	21.00	348.8	59.1
10.0	15.77	0.37	7.78	-1.96	13.58	345.8	59.4
15.0	5.92	0.14	3.14	-0.97	4.92	342.8	56.2
20.0	2.48	0.06	1.47	-0.58	1.91	338.4	50.5
30.0	1.19	0.03	0.74	-0.51	0.77	325.2	40.7
40.0	1.31	0.03	0.95	-0.62	0.64	326.8	29.4
60.0	1.16	0.03	0.70	-0.68	0.62	315.7	32.6
80.0	1.05	0.02	0.73	-0.45	0.61	328.2	35.6
100.0	0.99	0.02	0.75	-0.36	0.54	334.2	32.8

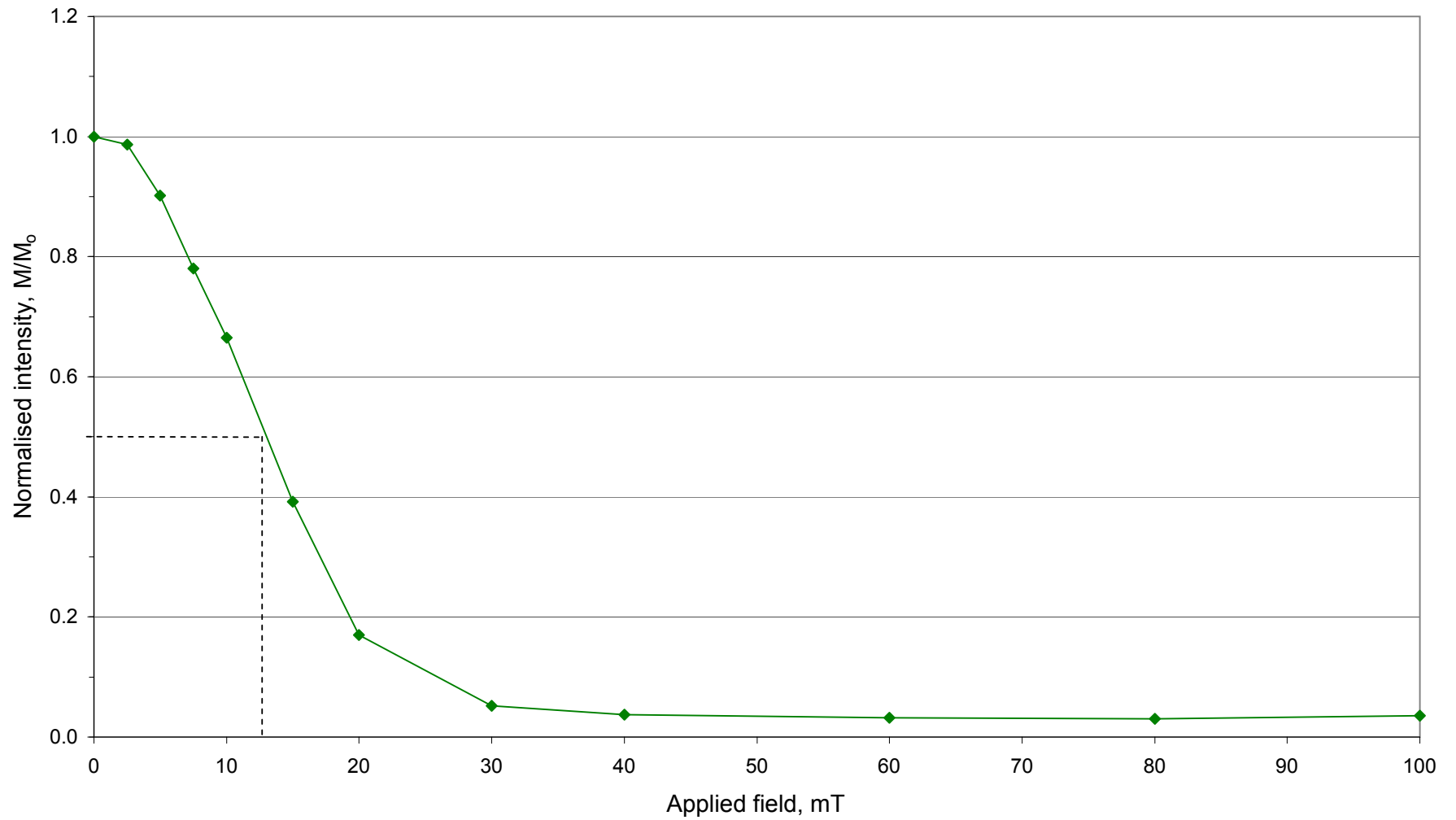
MYERS WOOD - SAMPLE POINT A1 DEMAGNETISATION: INTENSITY SPECTRUM



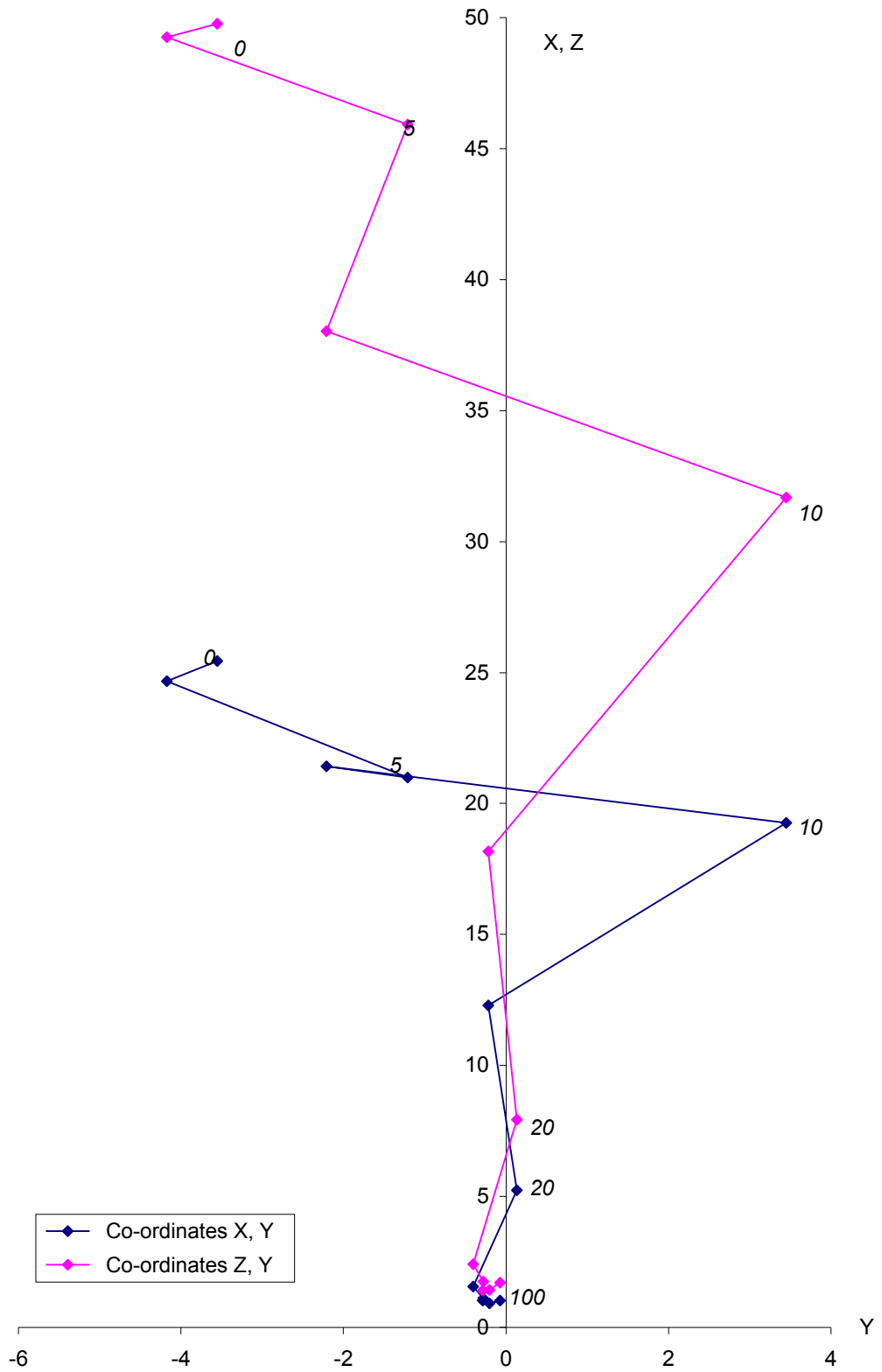
MYERS WOOD - SAMPLE POINT A1 - ZIJDERVELD PLOT



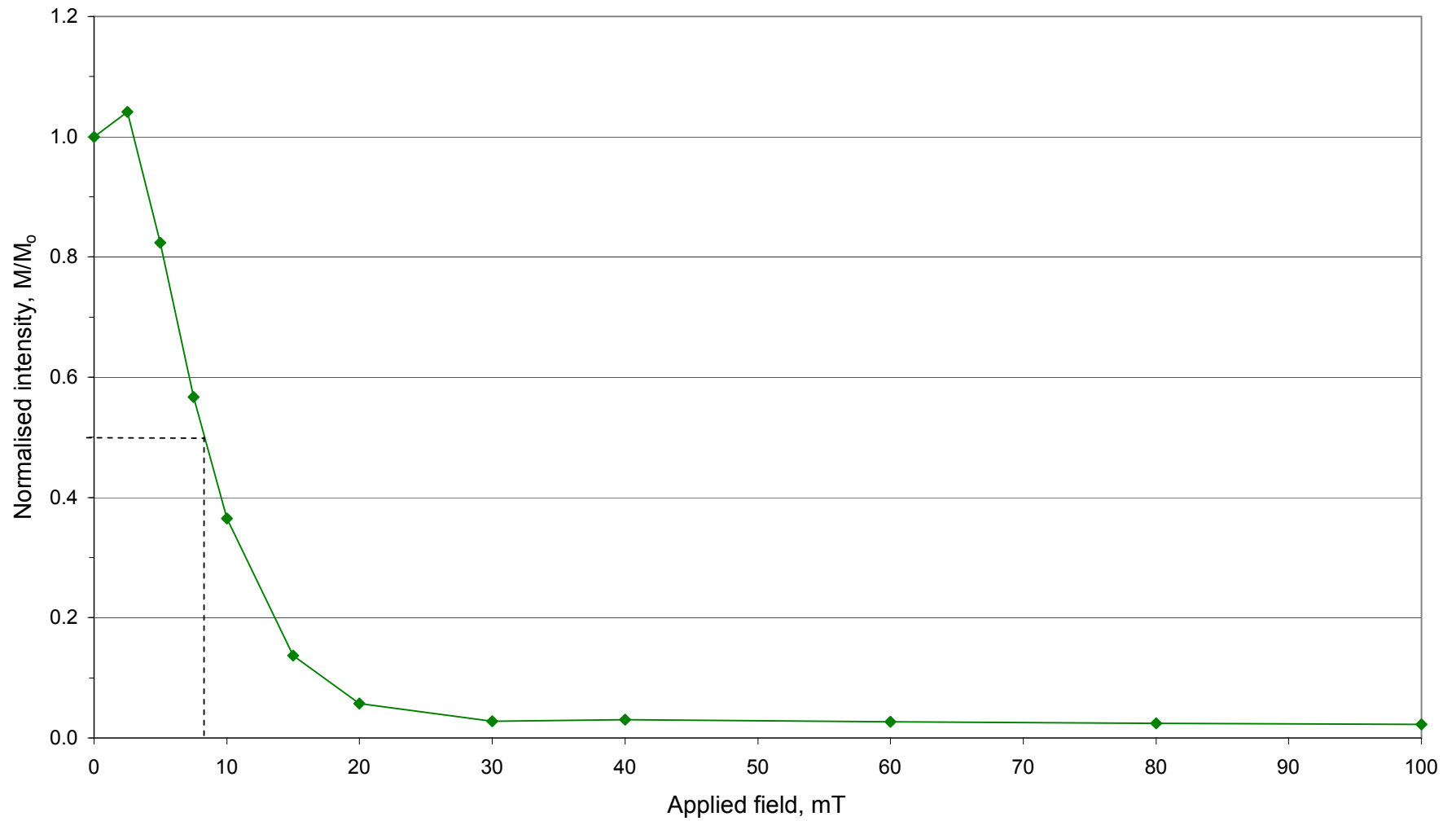
MYERS WOOD - SAMPLE POINT A7 DEMAGNETISATION: INTENSITY SPECTRUM



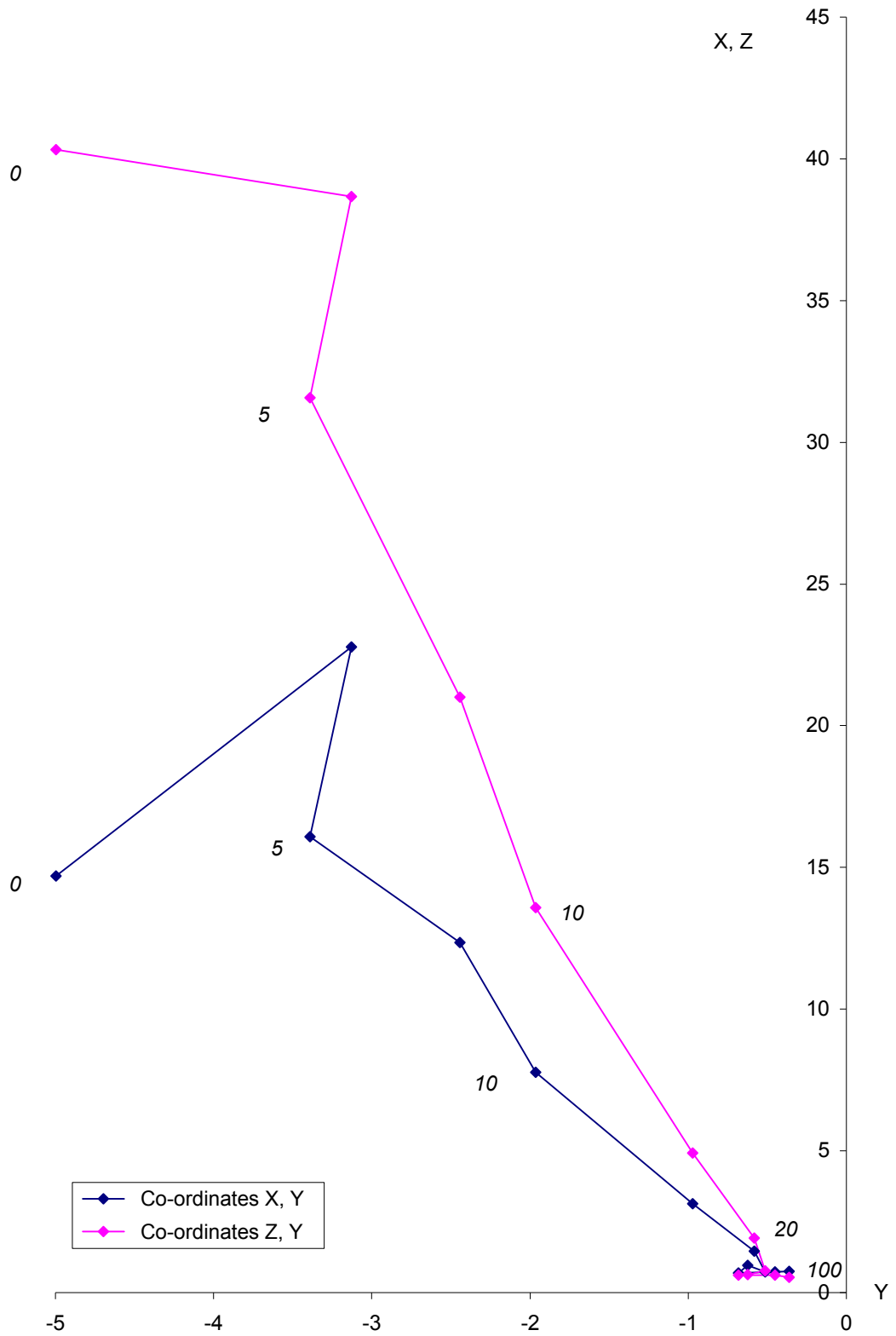
MYERS WOOD - SAMPLE POINT A7 - ZIJDERVELD PLOT



MYERS WOOD - SAMPLE POINT A14 DEMAGNETISATION: INTENSITY SPECTRUM



MYERS WOOD - SAMPLE POINT A14 - ZIJDERVELD PLOT



STEPPED A.F. DEMAGNETISATION MEASUREMENTS FOR OUTLIERS

Sample No. 3

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	29.08	1.00	7.71	1.69	27.99	12.4	74.3
2.5	28.14	0.97	8.06	1.66	26.91	11.6	73.0
5.0	23.47	0.81	8.80	1.03	21.73	6.7	67.8
7.5	14.22	0.49	5.86	0.78	12.94	7.6	65.4
10.0	7.55	0.26	3.30	0.29	6.57	5.1	63.2
15.0	2.66	0.09	1.18	0.19	2.38	8.9	63.2
20.0	1.29	0.04	0.62	-0.34	1.07	331.1	56.6
30.0	0.94	0.03	0.57	-0.07	0.74	352.5	52.3
40.0	0.83	0.03	0.42	-0.15	0.70	340.4	57.2
60.0	0.72	0.02	0.33	-0.07	0.64	347.5	62.3
80.0	0.71	0.02	0.32	-0.20	0.60	328.0	57.8
100.0	0.83	0.03	0.41	-0.31	0.66	323.0	52.1

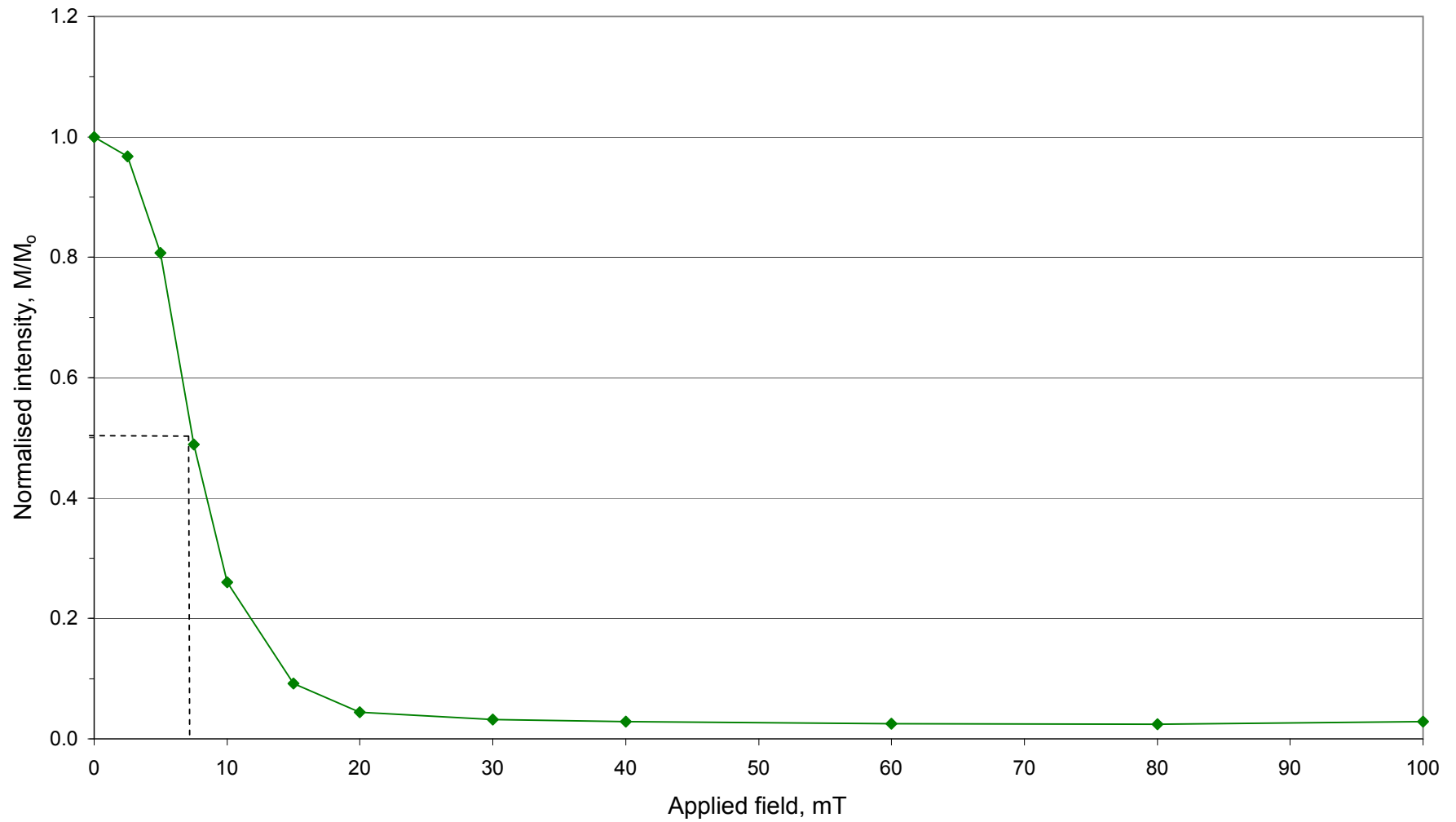
Sample No. 9

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	21.27	1.00	-1.53	11.51	17.81	97.6	56.9
2.5	21.29	1.00	-1.93	11.93	17.53	99.2	55.4
5.0	18.04	0.85	-3.54	10.41	14.30	108.8	52.4
7.5	14.74	0.69	-5.17	10.98	8.36	115.2	34.6
10.0	13.68	0.64	-7.48	11.08	2.90	124.0	12.2
15.0	14.19	0.67	-9.24	10.39	-2.82	131.6	-11.5
20.0	10.39	0.49	-6.94	6.91	-3.46	135.1	-19.5
30.0	2.79	0.13	-1.96	1.94	-0.41	135.3	-8.4
40.0	0.79	0.04	-0.18	0.22	0.74	130.2	69.0
60.0	0.86	0.04	0.27	-0.07	0.81	346.0	71.1
80.0	0.91	0.04	0.39	-0.23	0.78	329.1	59.7
100.0	0.84	0.04	0.25	-0.20	0.78	321.2	67.6

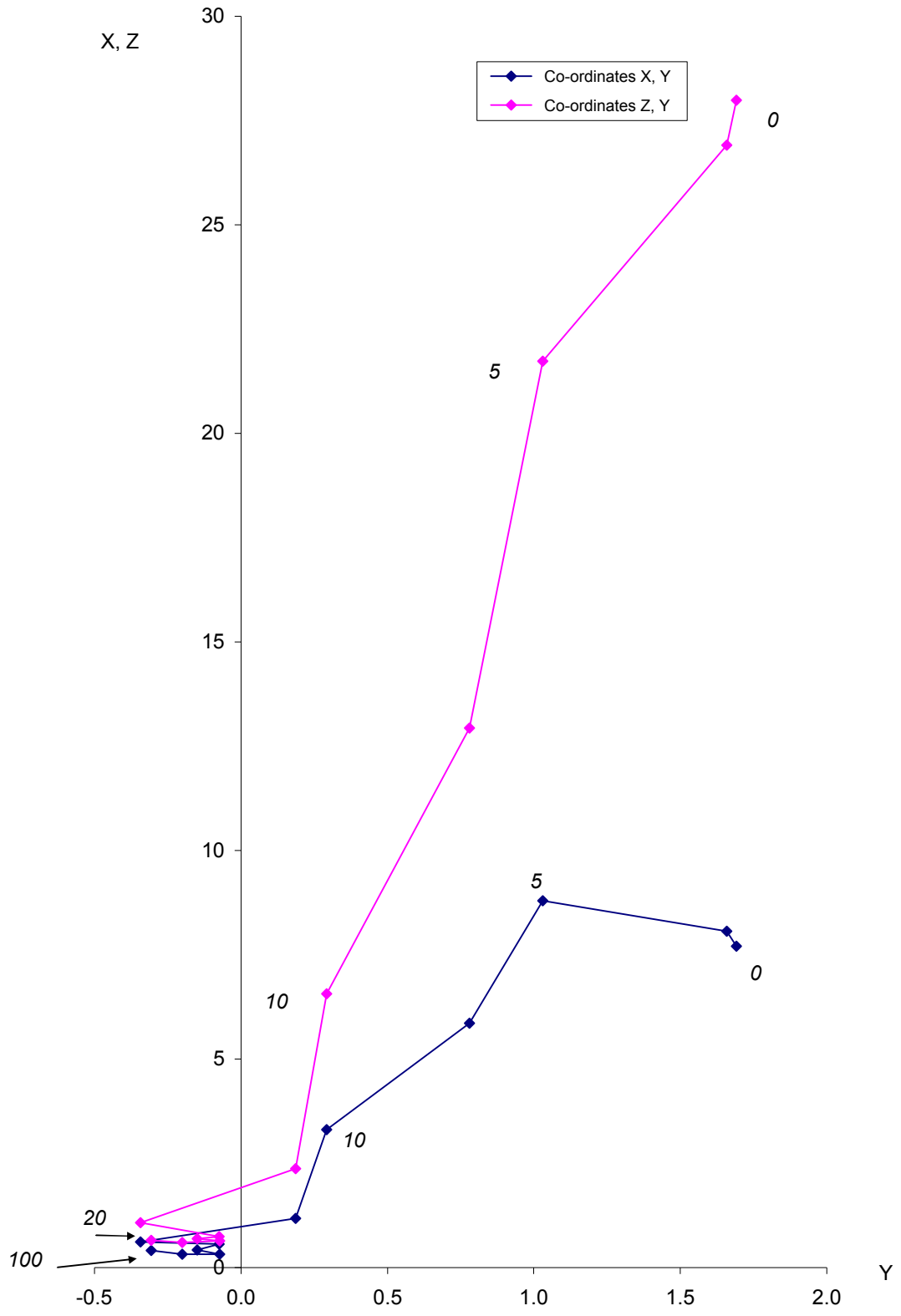
Sample No. 11

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	0.91	1.00	0.17	-0.21	0.87	308.2	72.6
2.5	0.85	0.93	0.30	-0.15	0.78	333.4	66.9
5.0	0.74	0.81	0.12	-0.05	0.72	336.9	79.7
7.5	0.55	0.61	0.14	-0.01	0.53	355.7	75.4
10.0	0.41	0.45	0.21	-0.03	0.35	350.7	58.8
15.0	0.14	0.15	0.05	-0.08	0.10	304.0	47.5
20.0	0.03	0.04	-0.01	0.03	0.00	109.9	3.7
30.0	0.26	0.28	0.00	0.14	0.22	89.9	57.1
40.0	0.19	0.20	0.05	0.01	0.18	15.3	72.7
60.0	0.23	0.25	0.10	0.06	0.19	30.6	59.4
80.0	0.20	0.22	0.07	-0.01	0.19	348.3	68.9
100.0	0.20	0.22	-0.03	0.00	0.20	181.7	81.6

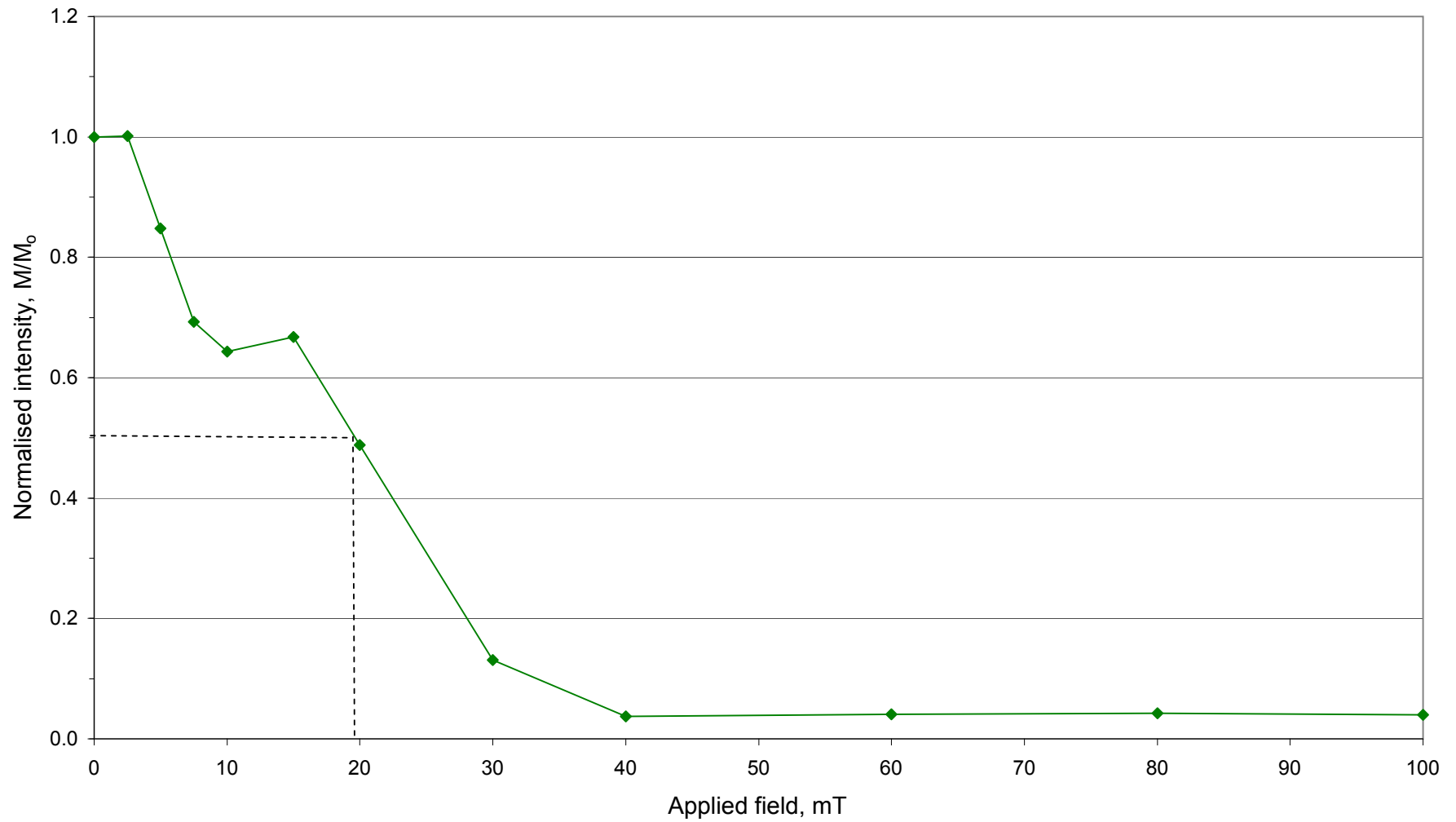
MYERS WOOD - SAMPLE POINT A3 DEMAGNETISATION: INTENSITY SPECTRUM



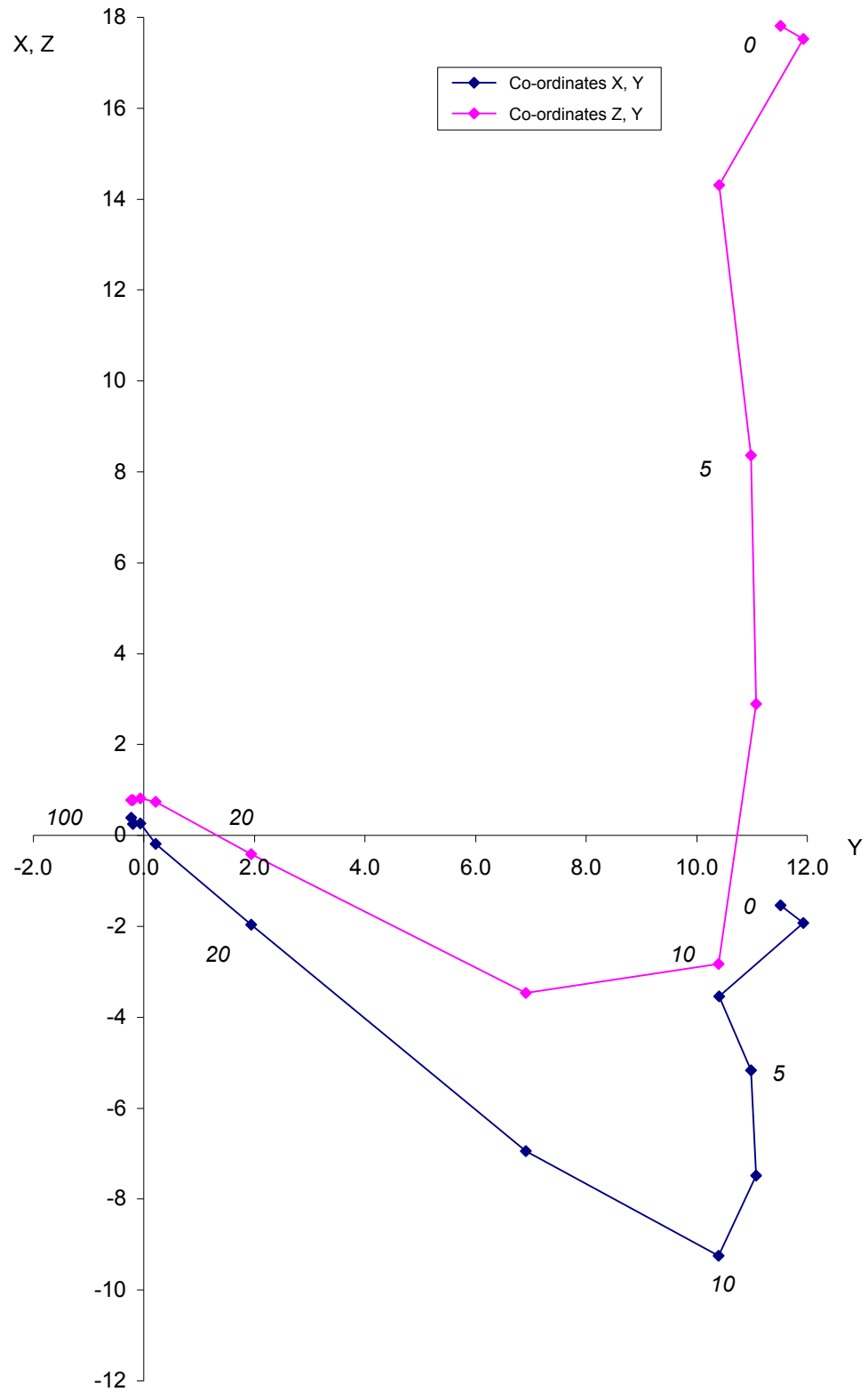
MYERS WOOD - SAMPLE POINT A3 - ZIJDERVELD PLOT



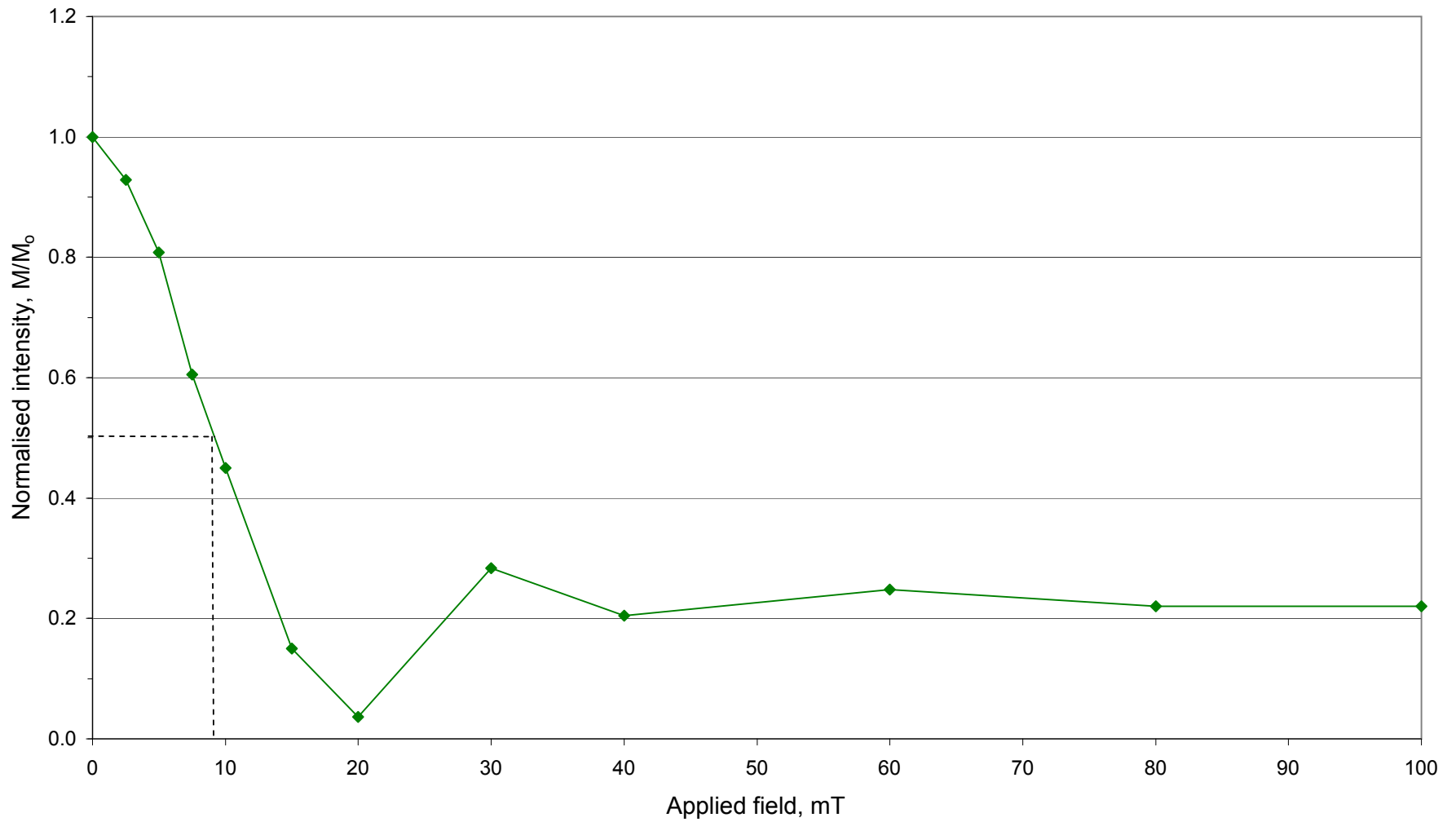
MYERS WOOD - SAMPLE POINT A9 DEMAGNETISATION: INTENSITY SPECTRUM



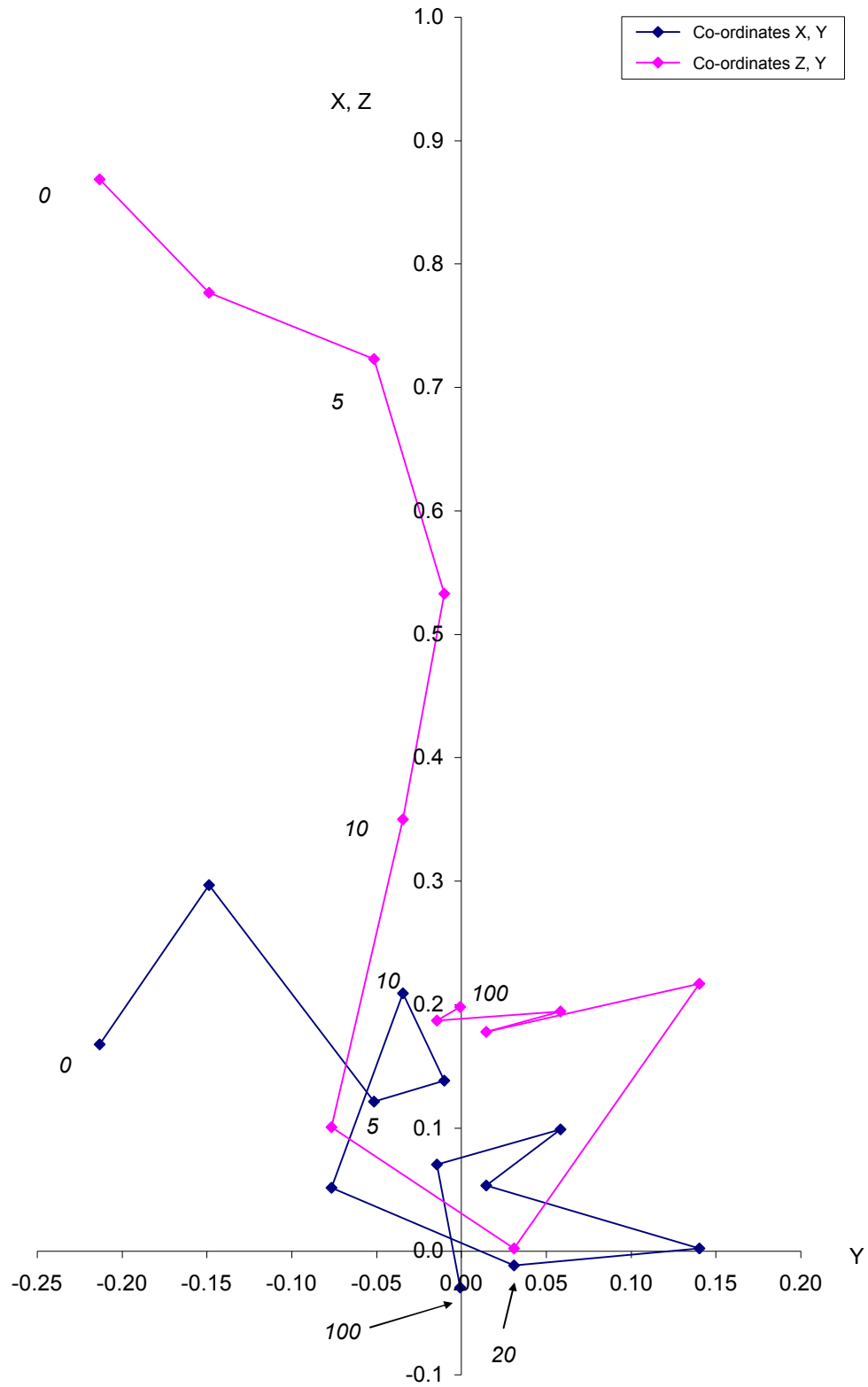
MYERS WOOD - SAMPLE POINT A9 - ZIJDERVELD PLOT



MYERS WOOD - SAMPLE POINT A11 DEMAGNETISATION: INTENSITY SPECTRUM



MYERS WOOD - SAMPLE POINT A11 - ZIJDERVELD PLOT



STABILITY INDEX

Sample No. 1

Demag Step	NRM		x	y	z
	D	l			
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	6.3	72.4	0.30054	0.03318	0.95319
2.5	3.0	71.9	0.31025	0.01626	0.95052
5.0	12.9	68.7	0.35408	0.08110	0.93169
7.5	2.7	67.6	0.38065	0.01795	0.92455
10.0	4.8	66.9	0.39096	0.03283	0.91982
15.0	11.9	64.8	0.41663	0.08780	0.90483
20.0	6.7	64.7	0.42444	0.04986	0.90408
30.0	356.2	66.3	0.40106	-0.02664	0.91566
40.0	9.4	71.3	0.31631	0.05236	0.94721
60.0	342.7	65.7	0.39290	-0.12237	0.91140
80.0	357.9	64.7	0.42707	-0.01566	0.90408
100.0	346.4	64.3	0.42150	-0.10197	0.90108

Sample No. 1

Number	Range	S.I.
3	5	2.7
4	7.5	3.0
5	10	3.4
6	15	3.6
7	20	4.1
8	30	4.8
9	40	5.6
10	60	5.5
11	80	6.4
12	100	6.7 *

Number = 12
 Sum x = 4.53639
 Sum y = 0.10469
 Sum z = 11.06811
 R = 11.96214
 x bar = 0.37923
 y bar = 0.00875
 z bar = 0.92526

k = 291
 Theta63 = 4.75
 Range = 100
 S.I. = 6.7

Mean Dec = 1.32
 Mean Inc = 67.71
 Alpha95 = 2.55

Sample No. 3

Demag Step	NRM		x	y	z
	D	l			
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	12.4	74.3	0.26429	0.05811	0.96269
2.5	11.6	73.0	0.28640	0.05879	0.95630
5.0	6.7	67.8	0.37526	0.04408	0.92587
7.5	7.6	65.4	0.41262	0.05506	0.90924
10.0	5.1	63.2	0.44909	0.04008	0.89259
15.0	8.9	63.2	0.44545	0.06976	0.89259
20.0	331.1	56.6	0.48193	-0.26604	0.83485
30.0	352.5	52.3	0.60630	-0.07982	0.79122
40.0	340.4	57.2	0.51032	-0.18172	0.84057
60.0	347.5	62.3	0.45382	-0.10061	0.88539
80.0	328.0	57.8	0.45190	-0.28238	0.84619
100.0	323.0	52.1	0.49059	-0.36969	0.78908

Sample No. 3

Number	Range	S.I.
3	5	2.0
4	7.5	2.0
5	10	2.0
6	15	2.5
7	20	1.6
8	30	1.8
9	40	2.0
10	60	2.6
11	80	2.8 *
12	100	2.8

Number = 12
 Sum x = 5.22797
 Sum y = -0.95438
 Sum z = 10.52658
 R = 11.79201
 x bar = 0.44335
 y bar = -0.08093
 z bar = 0.89269

k = 53
 Theta63 = 11.14
 Range = 100
 S.I. = 2.8

Mean Dec = -10.35
 Mean Inc = 63.21
 Alpha95 = 6.02

Sample No. 7

Demag Step	NRM		x	y	z
	D	I			
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	352.1	62.7	0.45430	-0.06304	0.88862
2.5	350.4	63.1	0.44610	-0.07545	0.89180
5.0	356.7	65.4	0.41559	-0.02396	0.90924
7.5	354.1	60.5	0.48982	-0.05062	0.87036
10.0	10.1	58.3	0.51733	0.09215	0.85081
15.0	359.0	55.9	0.56055	-0.00978	0.82806
20.0	1.5	56.5	0.55175	0.01445	0.83389
30.0	345.5	56.2	0.53858	-0.13929	0.83098
40.0	346.1	56.5	0.53577	-0.13259	0.83389
60.0	344.6	52.9	0.58155	-0.16019	0.79758
80.0	347.6	56.8	0.53479	-0.11758	0.83676
100.0	356.0	59.0	0.51378	-0.03593	0.85717

Sample No. 7

Number	Range	S.I.
3	5	3.5
4	7.5	3.7
5	10	2.1
6	15	2.5
7	20	2.9
8	30	3.3
9	40	3.7
10	60	4.2
11	80	5.0
12	100	5.8 *

Number = 12
 Sum x = 6.13991
 Sum y = -0.70183
 Sum z = 10.22915
 R = 11.95100
 x bar = 0.51376
 y bar = -0.05873
 z bar = 0.85592

k = 225
 Theta63 = 5.41
 Range = 100
 S.I. = 5.8

Mean Dec = -6.52
 Mean Inc = 58.86
 Alpha95 = 2.90

Sample No. 14

Demag Step	NRM		x	y	z
	D	I			
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	341.2	69.0	0.33925	-0.11549	0.93358
2.5	352.2	59.3	0.50582	-0.06929	0.85985
5.0	348.1	62.5	0.45183	-0.09521	0.88701
7.5	348.8	59.1	0.50376	-0.09975	0.85806
10.0	345.8	59.4	0.49349	-0.12487	0.86074
15.0	342.8	56.2	0.53142	-0.16450	0.83098
20.0	338.4	50.5	0.59141	-0.23416	0.77162
30.0	325.2	40.7	0.62254	-0.43268	0.65210
40.0	326.8	29.4	0.72900	-0.47704	0.49090
60.0	315.7	32.6	0.60294	-0.58838	0.53877
80.0	328.2	35.6	0.69105	-0.42847	0.58212
100.0	334.2	32.8	0.75678	-0.36584	0.54171

Sample No. 14

Number	Range	S.I.
3	5	1.3
4	7.5	1.7
5	10	2.2
6	15	2.5 *
7	20	2.3
8	30	1.8
9	40	1.5
10	60	1.6
11	80	1.8
12	100	2.0

Number = 12
 Sum x = 6.81928
 Sum y = -3.19568
 Sum z = 8.80746
 R = 11.58820
 x bar = 0.58847
 y bar = -0.27577
 z bar = 0.76004

k = 27
 Theta63 = 15.67
 Range = 100
 S.I. = 2.0

Mean Dec = -25.11
 Mean Inc = 49.47
 Alpha95 = 8.55

Sample No. 9

Demag Step	NRM		x	y	z
	D	I			
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	97.6	56.9	-0.07223	0.54130	0.83772
2.5	99.2	55.4	-0.09079	0.56054	0.82314
5.0	108.8	52.4	-0.19663	0.57759	0.79229
7.5	115.2	34.6	-0.35047	0.74480	0.56784
10.0	124.0	12.2	-0.54656	0.81031	0.21132
15.0	131.6	-11.5	-0.65060	0.73279	-0.19937
20.0	135.1	-19.5	-0.66771	0.66538	-0.33381
30.0	135.3	-8.4	-0.70317	0.69585	-0.14608
40.0	130.2	69.0	-0.23131	0.27372	0.93358
60.0	346.0	71.1	0.31430	-0.07836	0.94609
80.0	329.1	59.7	0.43292	-0.25910	0.86340
100.0	321.2	67.6	0.29698	-0.23878	0.92455

Sample No. 9

Number	Range	S.I.
3	5	1.7 *
4	7.5	0.7
5	10	0.5
6	15	0.4
7	20	0.4
8	30	0.5
9	40	0.6
10	60	0.6
11	80	0.6
12	100	0.7

Number = 12
 Sum x = -2.46528
 Sum y = 5.02605
 Sum z = 6.22066
 R = 8.36872
 x bar = -0.29458
 y bar = 0.60058
 z bar = 0.74332

k = 3
 Theta63 = 46.54
 Range = 100
 S.I. = 0.7

Mean Dec = -63.87
 Mean Inc = 48.02
 Alpha95 = 30.21

Sample No. 11

Demag Step	NRM		x	y	z
	D	I			
<i>mT</i>	<i>degs.</i>	<i>degs.</i>			
0.0	308.2	72.6	0.18493	-0.23500	0.95424
2.5	333.4	66.9	0.35081	-0.17567	0.91982
5.0	336.9	79.7	0.16447	-0.07015	0.98389
7.5	355.7	75.4	0.25136	-0.01890	0.96771
10.0	350.7	58.8	0.51122	-0.08372	0.85536
15.0	304.0	47.5	0.37779	-0.56009	0.73728
20.0	109.9	3.7	-0.33967	0.93833	0.06453
30.0	89.9	57.1	0.00095	0.54317	0.83962
40.0	15.3	72.7	0.28684	0.07847	0.95476
60.0	30.6	59.4	0.43815	0.25912	0.86074
80.0	348.3	68.9	0.35252	-0.07300	0.93295
100.0	181.7	81.6	-0.14602	-0.00433	0.98927

Sample No. 11

Number	Range	S.I.
3	5	0.9 *
4	7.5	1.1
5	10	1.0
6	15	0.8
7	20	0.4
8	30	0.5
9	40	0.6
10	60	0.7
11	80	0.9
12	100	1.0

Number = 12
 Sum x = 2.43333
 Sum y = 0.59823
 Sum z = 10.06018
 R = 10.36755
 x bar = 0.23471
 y bar = 0.05770
 z bar = 0.97035

k = 7
 Theta63 = 31.20
 Range = 100
 S.I. = 1.0

Mean Dec = 13.81
 Mean Inc = 76.01
 Alpha95 = 18.06