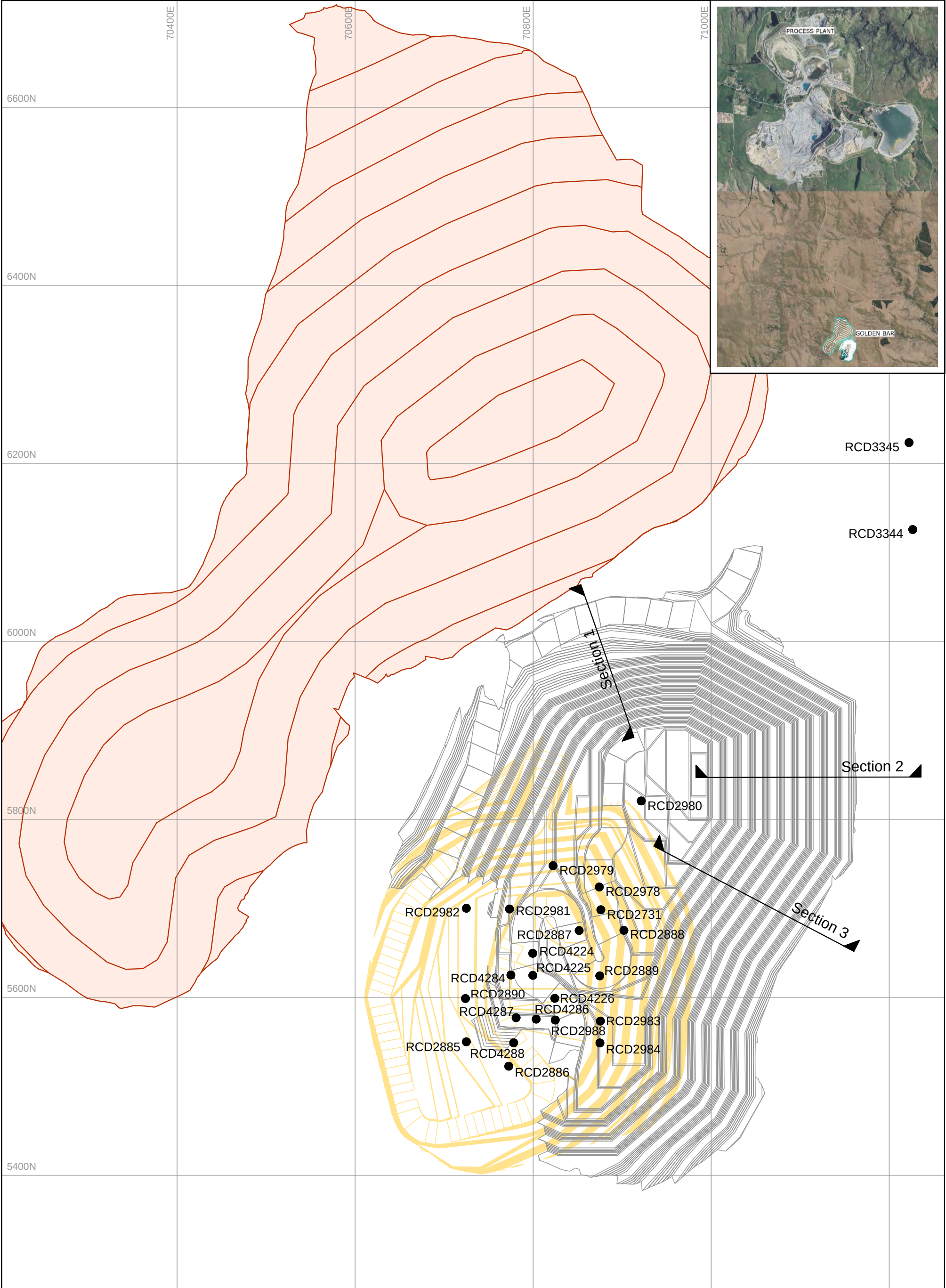
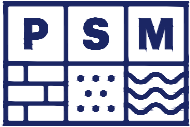
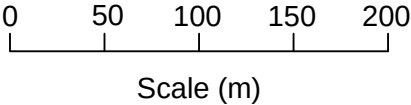




LEGEND

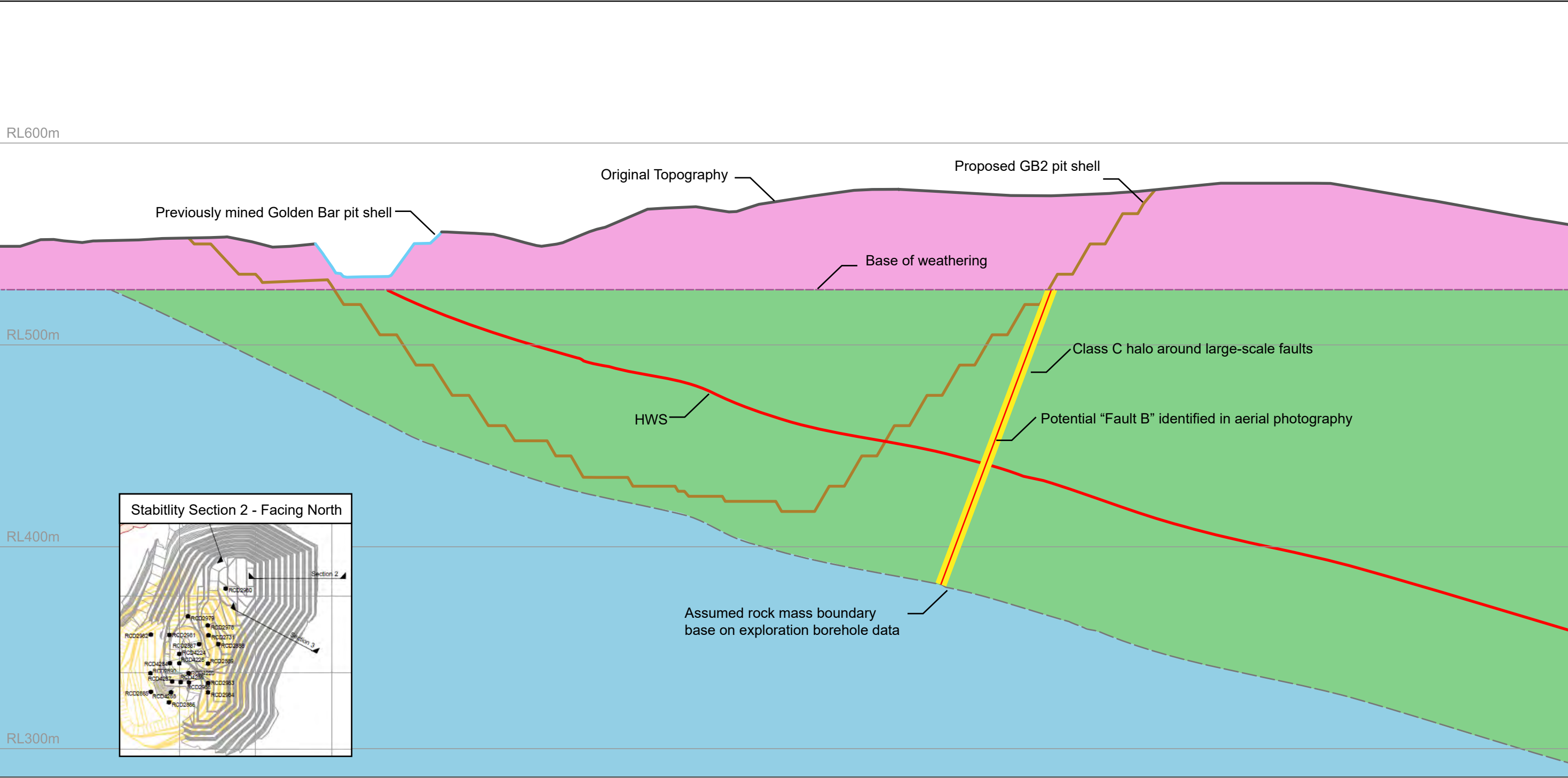
- GB2 MP4 Pit
- GB1 Pit
- WRS
- Borehole Locations
- Section Locations



OceanaGold
Macraes Phase 4 Consenting Application
Macraes Flat, East Otago
GOLDEN BAR STAGE 2
MP4 PIT PLAN

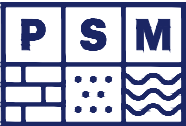
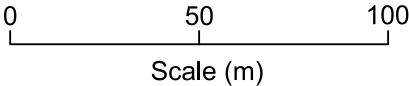
PSM71-287R

Figure 3

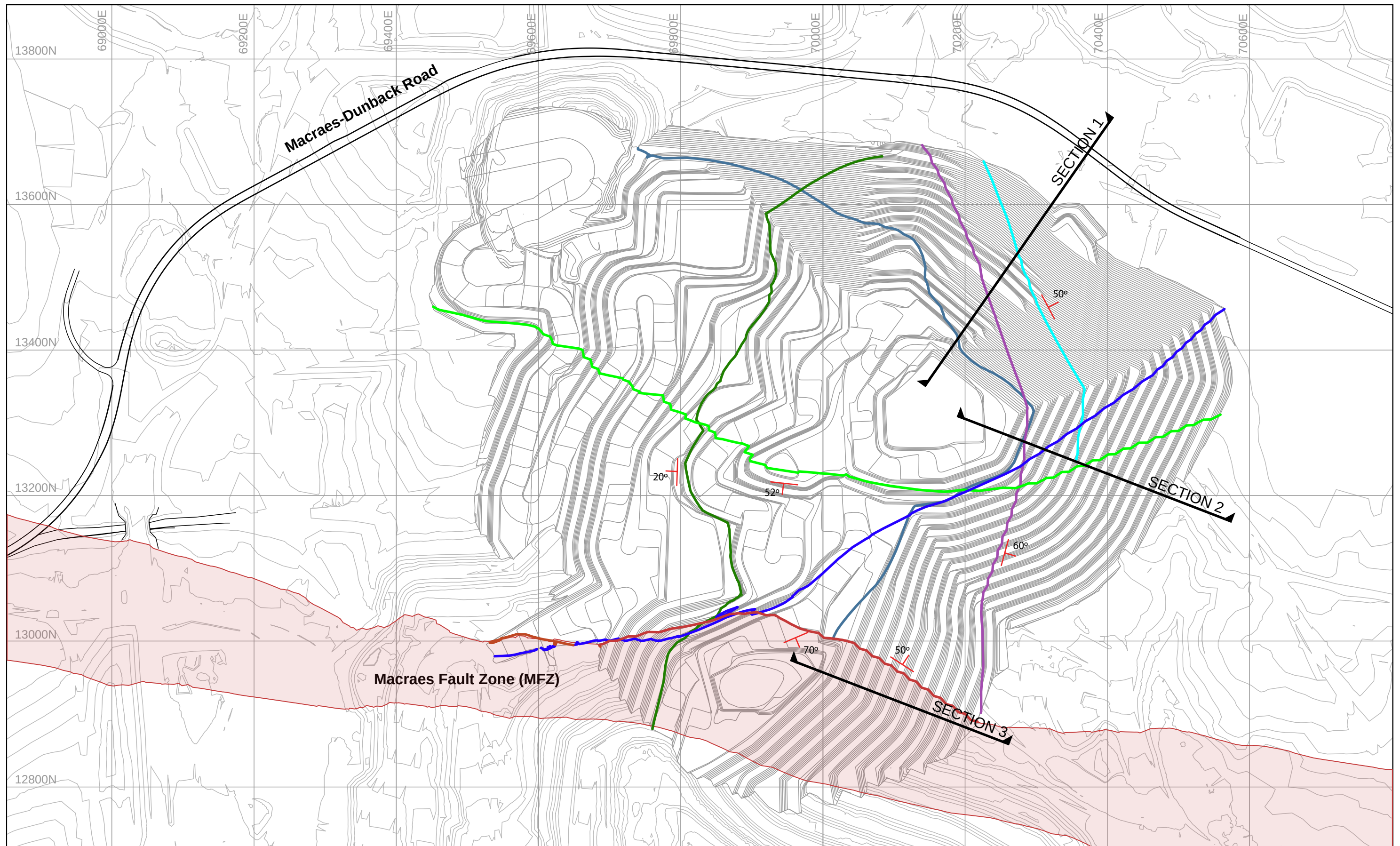


LEGEND

- Class A - Footwall Psmmite
- Class B - Mainly Psammitic Schist
- Class C - Fractured Interbedded Pelite / Psmamite Schist
- Class D - Fragmented / sheared Schist
- Class E - Highly to extremely weathered zone
- Major Fault & Shear
- Secondary Fault & Shear



OceanaGold	
Macraes Phase 4 Consenting Application	
Macraes Flat, East Otago	
GOLDEN BAR STAGE 2 CROSS SECTION	
TYPICAL ROCK MASS	
PSM71-287R	Figure 4



LEGEND

- Lines_IM_Stg9_MP4_Pit
- As-built topography
- Macraes Fault Zone
- Dip / Dip Direction

- Innes Mills Fault
- Hanging Wall Shear
- Northern Gully Fault
- Macraes Fault
- RH Fault 9
- RH Fault 8
- Southern Pit Fault (C8)

Stability Section Line

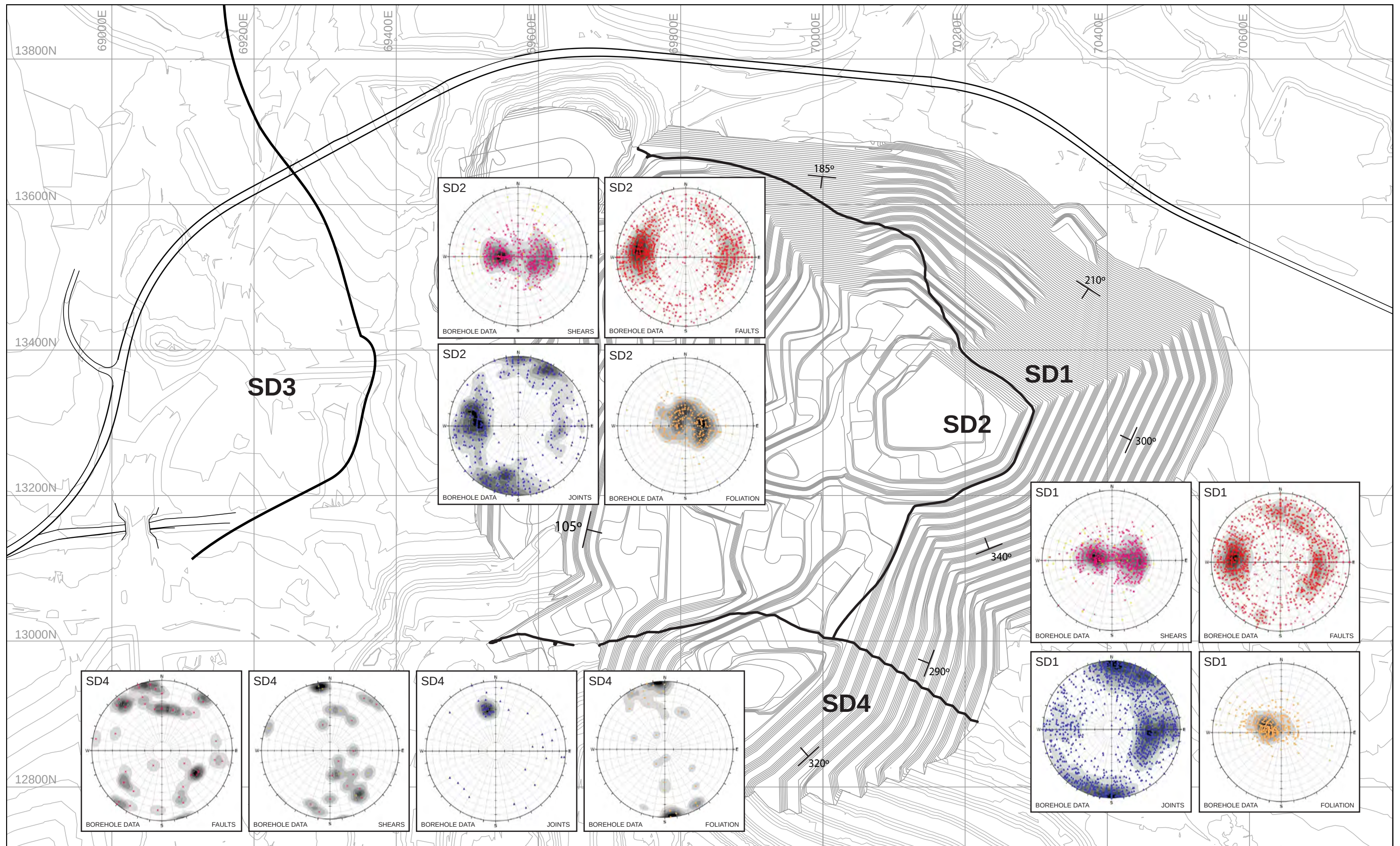
0 50 100 150 200
Scale (m)



OceanaGold
Macraes Phase 4 Consenting Application
Macraes Flat, East Otago
Innes Mills
MAJOR STRUCTURE PLAN &
STABILITY CROSS SECTION LOCATIONS

PSM071- 287R

Figure 5



LEGEND

- Lines_IM_Stg9_MP4_Pit
- As-built topography
- Structural Domain Boundary
- γ_{295° Slope Aspect

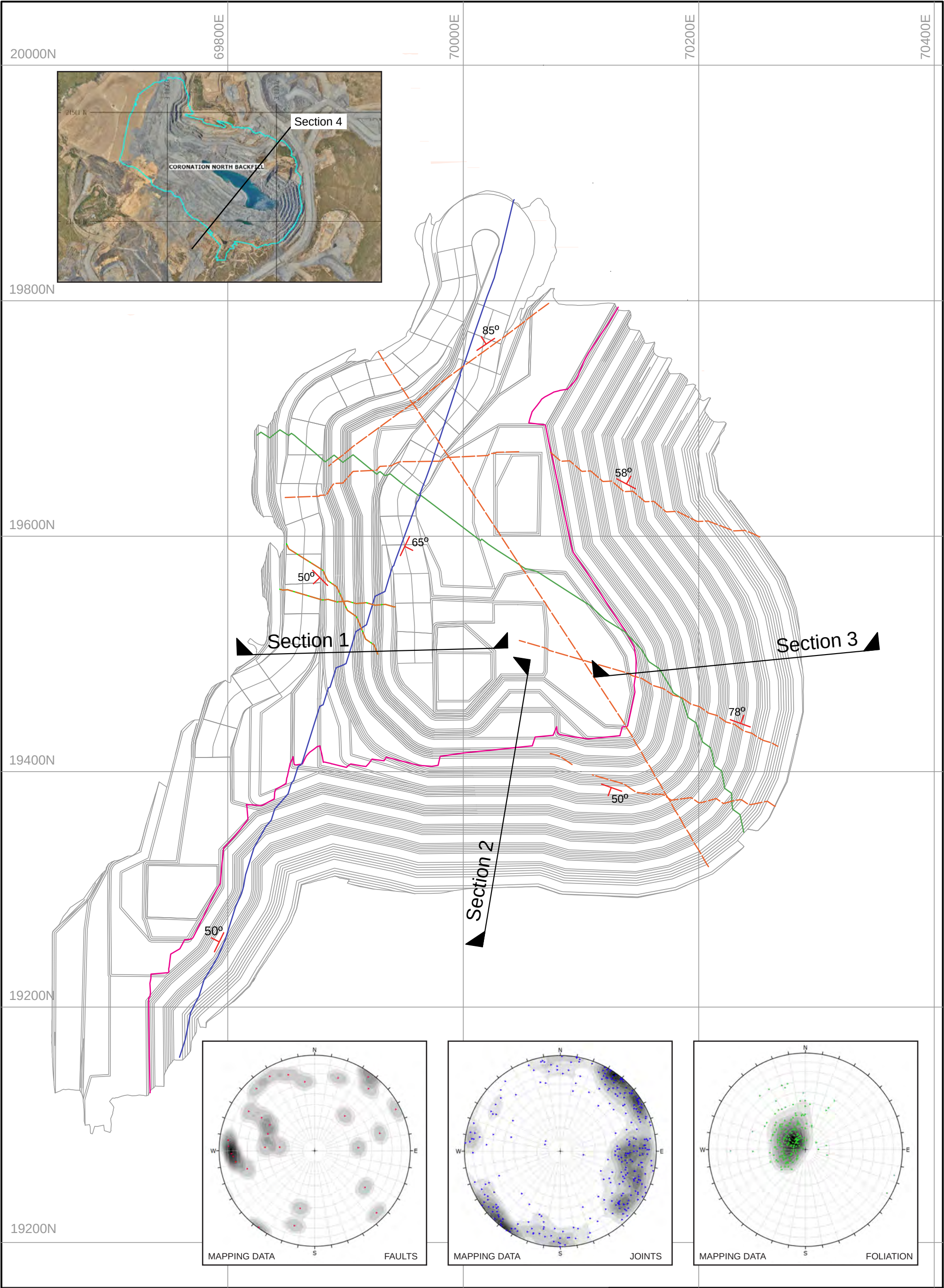
0 50 100 150 200
Scale (m)



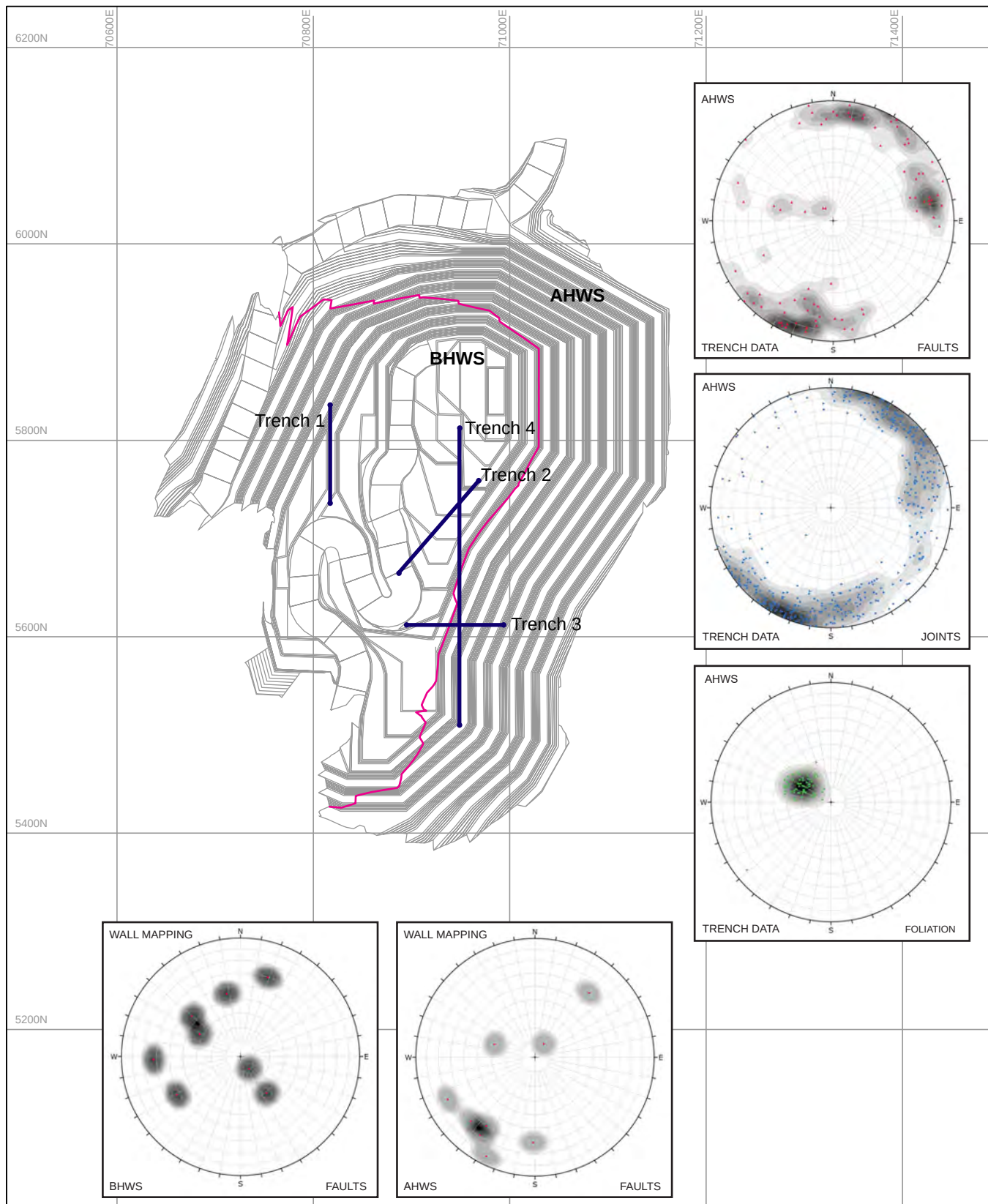
OceanaGold
Macraes Phase 4 Consenting Application
Macraes Flat, East Otago
Innes Mills
STRUCTURAL DOMAINS

PSM071- 287R

Figure 6



LEGEND		050100150200 Scale (m) PSM		OceanaGold Macraes Phase 4 Consenting Application Macraes Flat, East Otago Coronation Stage 6 STRUCTURAL PLAN & STABILITY SECTION LINES									
	C06 MP4 Pit						Hanging Wall Shear		Fault A		Fault B		Extrapolated Faults
				PSM71-287R		Figure 7							



LEGEND

-  GB MP4 Pit
-  HWS intersect
-  2002 Trench Mapping

0 50 100 150 200
Scale (m)

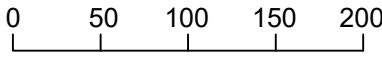


OceanaGold
Macraes Phase 4 Consenting Application
Macraes Flat, East Otago
GOLDEN BAR STAGE 2
STRUCTURAL DATA

PSM71-287R

Figure 8



LEGEND		OceanaGold	
	GB02 MP4 Pit	Macraes Phase 4 Consenting Application Macraes Flat, East Otago GOLDEN BAR STAGE 2 AERIAL PHOTOGRAPHY	
	Waste Rock Stack		
	Geomorphological Surface Lineament		
	Potential Surface Lineament		
 Scale (m)			PSM71-287R

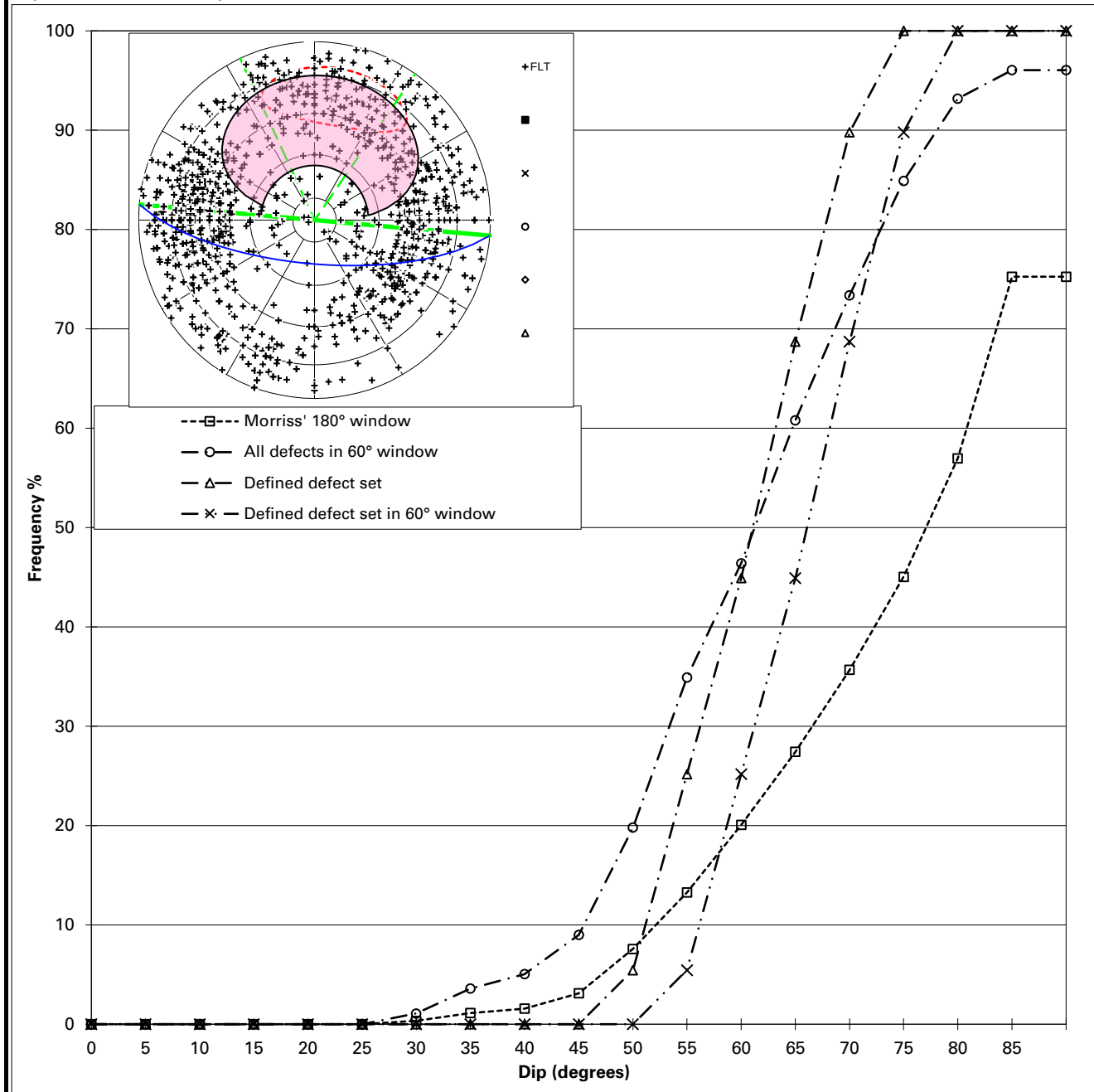
Appendix A

Innes Mills Probability of Undercutting Plots



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 185
Kinematic Window $\pm$ 30
DEFECT SET

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 25°

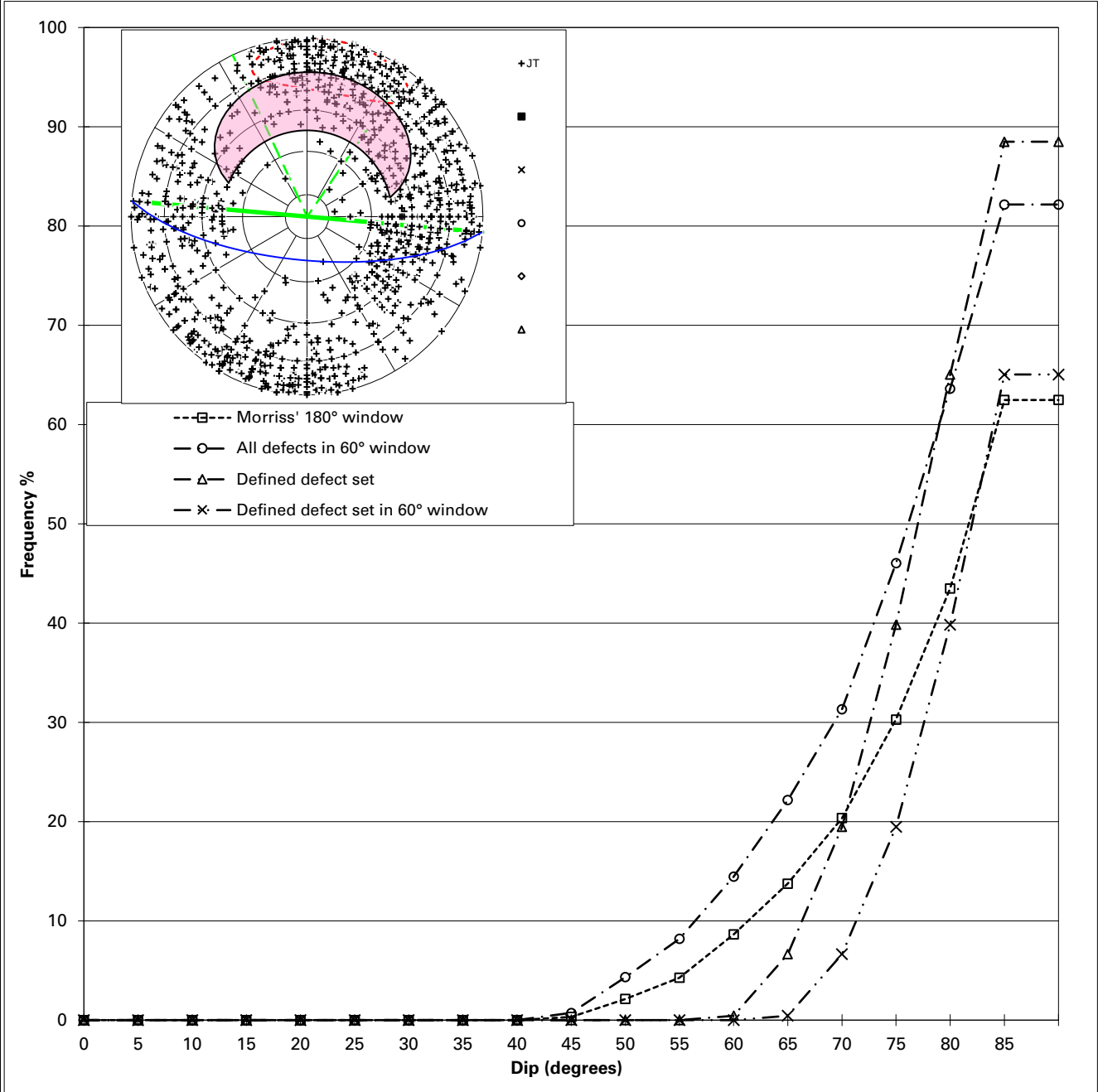
FT2	Mean	$\pm$
Dip	60	15
Dip Direction	190	30

Defects in kinematic window 273
Defects in set FT2 147
Defect in set & window 147
Defects Dipping out of Slope 863



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 185
Kinematic Window $\pm$ 30
DEFECT SET

JN2	Mean	$\pm$
Dip	75	15
Dip Direction	190	30

DEFECT SHEAR STRENGTHS

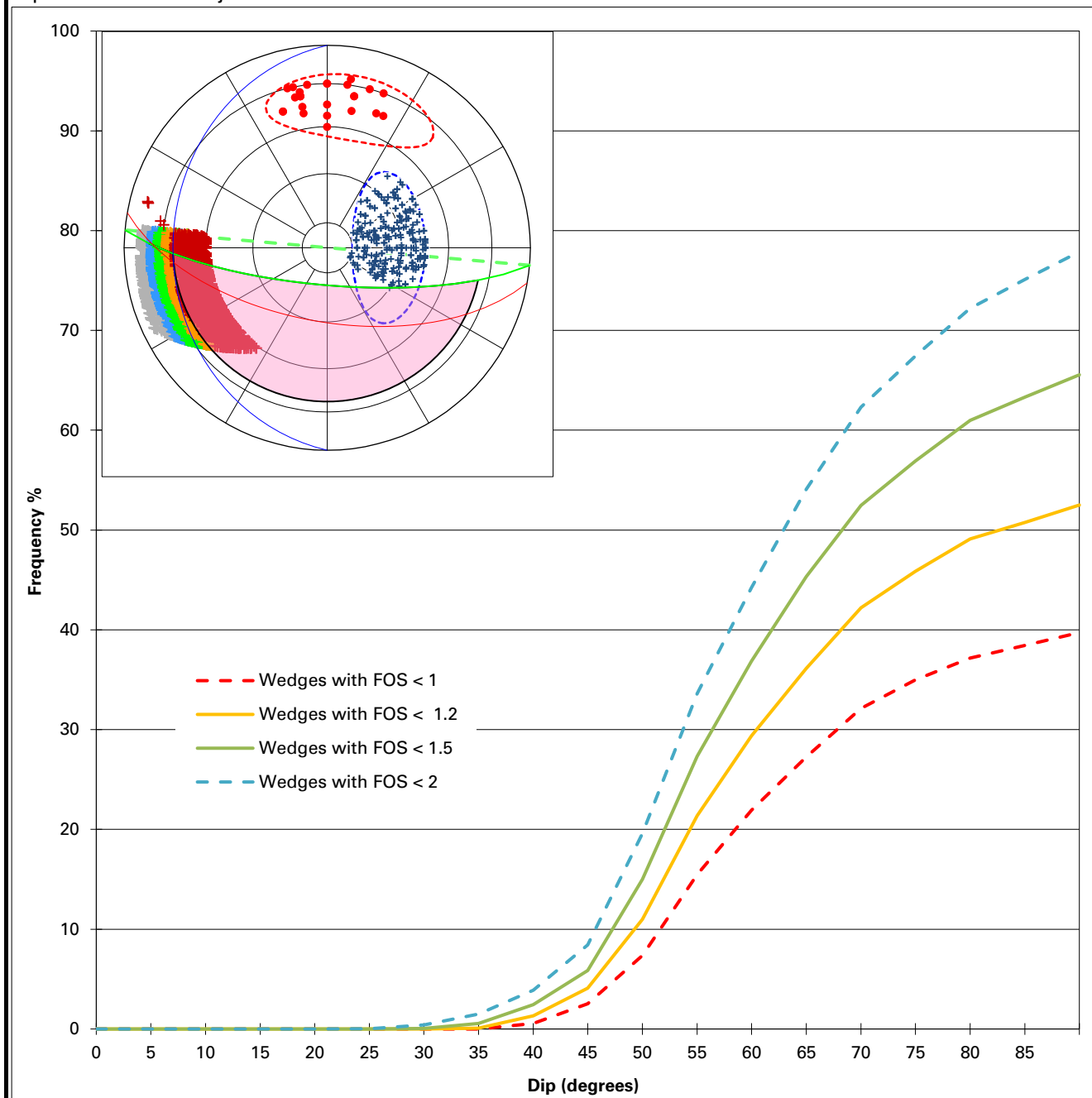
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 404
Defects in set JN2 224
Defect in set & window 224
Defects Dipping out of Slope 848



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 185

FIRST SET - RED

FT2	Mean	±
Dip	60	15
Dip Direction	190	30

Defects in set FT2 147

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 25°

SECOND SET - BLUE

SH1	Mean	±
Dip	25	15
Dip Direction	270	30

Defects in set SH1 314

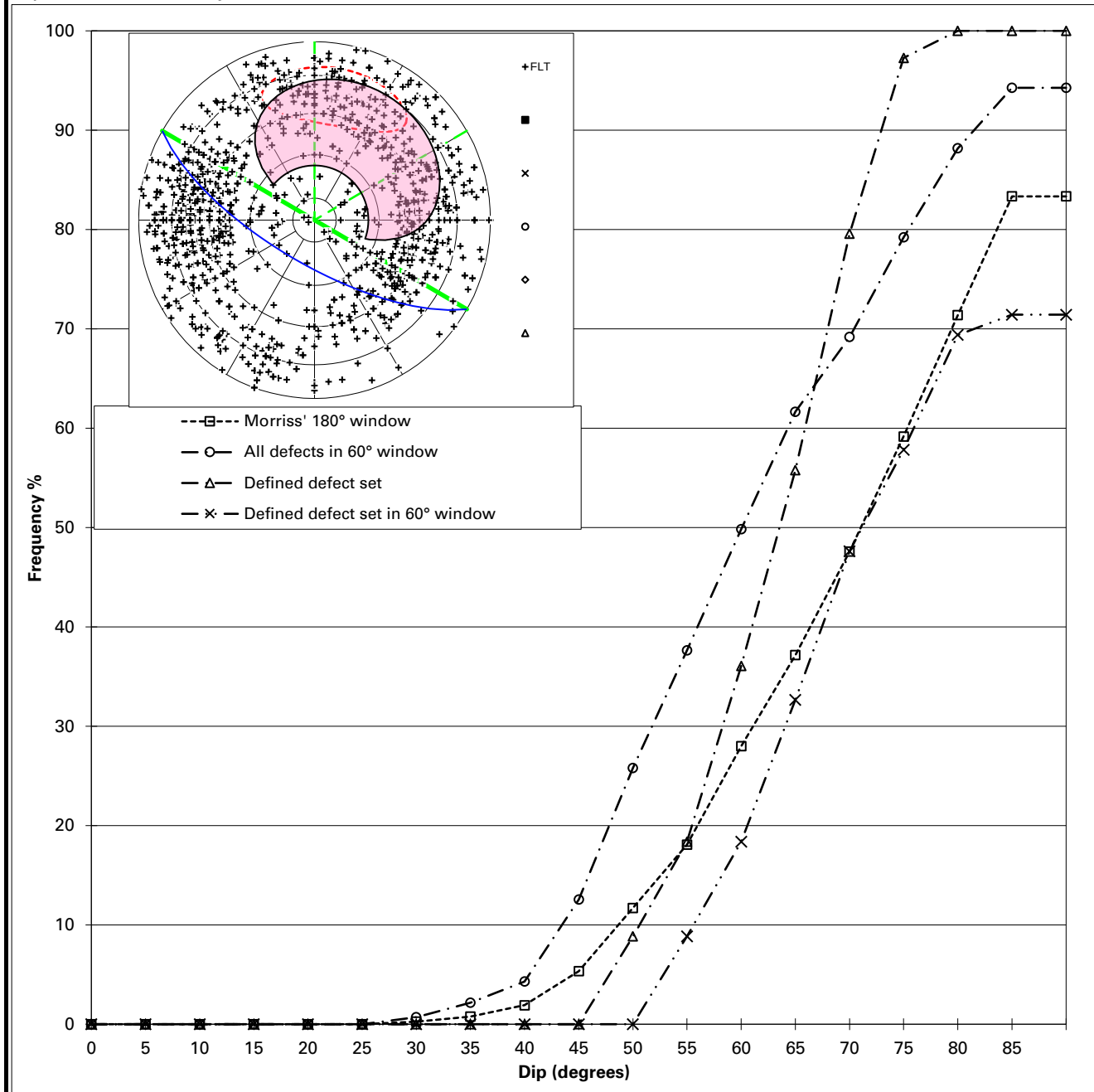
Number of Unstable Wedges 18336
Number of Wedges Analysed 46158

From a possible Total Number of 46158



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 210
Kinematic Window $\pm$ 30

DEFECT SET

FT2	Mean	$\pm$
Dip	60	15
Dip Direction	190	30

DEFECT SHEAR STRENGTHS

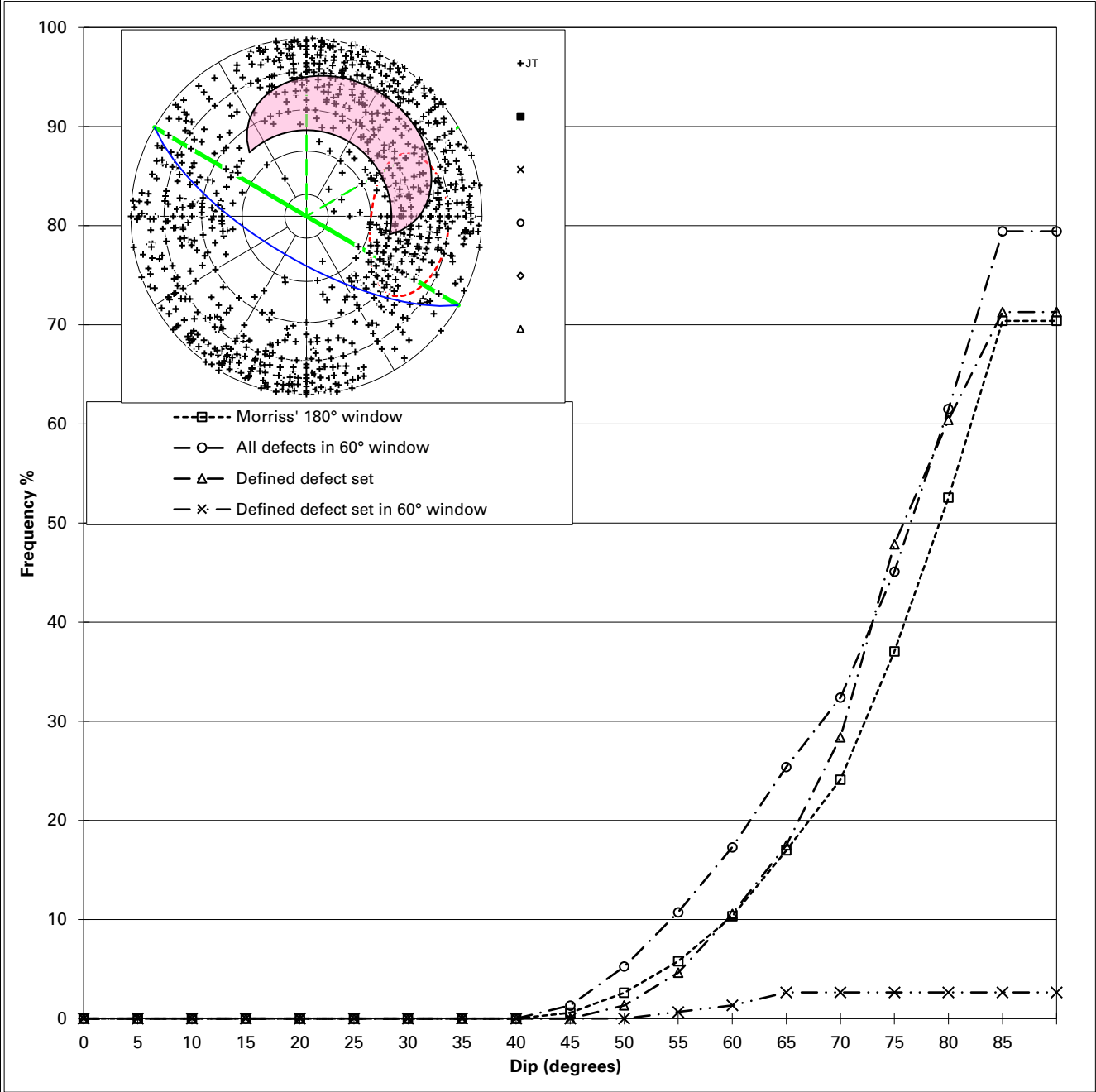
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 271
Defects in set FT2 147
Defect in set & window 105
Defects Dipping out of Slope 753



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 210
Kinematic Window $\pm$ 30

DEFECT SET

JN1	Mean	$\pm$
Dip	50	20
Dip Direction	275	30

DEFECT SHEAR STRENGTHS

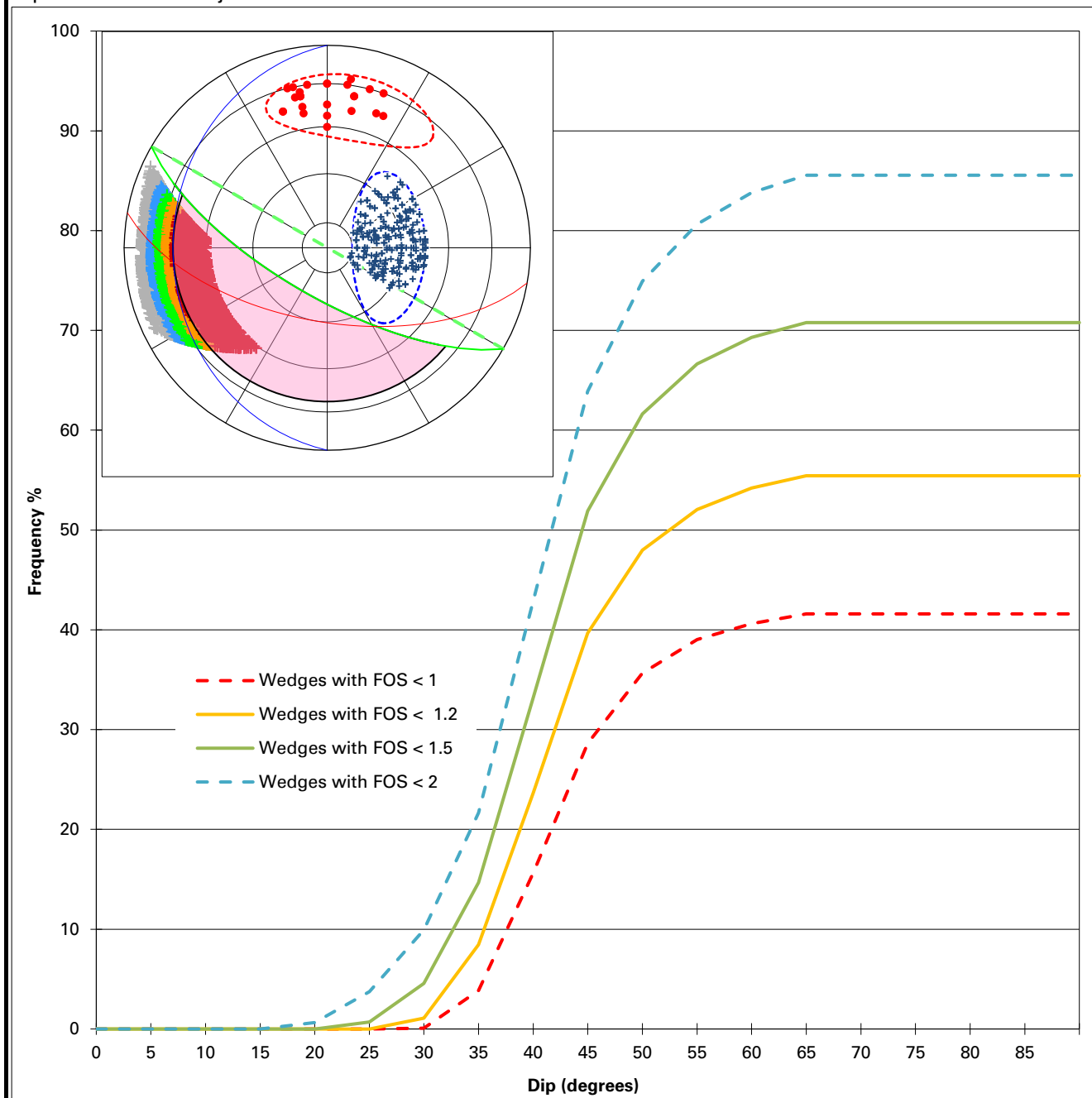
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 429
Defects in set JN1 232
Defect in set & window 8
Defects Dipping out of Slope 913



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 210

FIRST SET - RED

FT2	Mean	±
Dip	60	15
Dip Direction	190	30

Defects in set FT2 147

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 25°

SECOND SET - BLUE

SH1	Mean	±
Dip	25	15
Dip Direction	270	30

Defects in set SH1 314

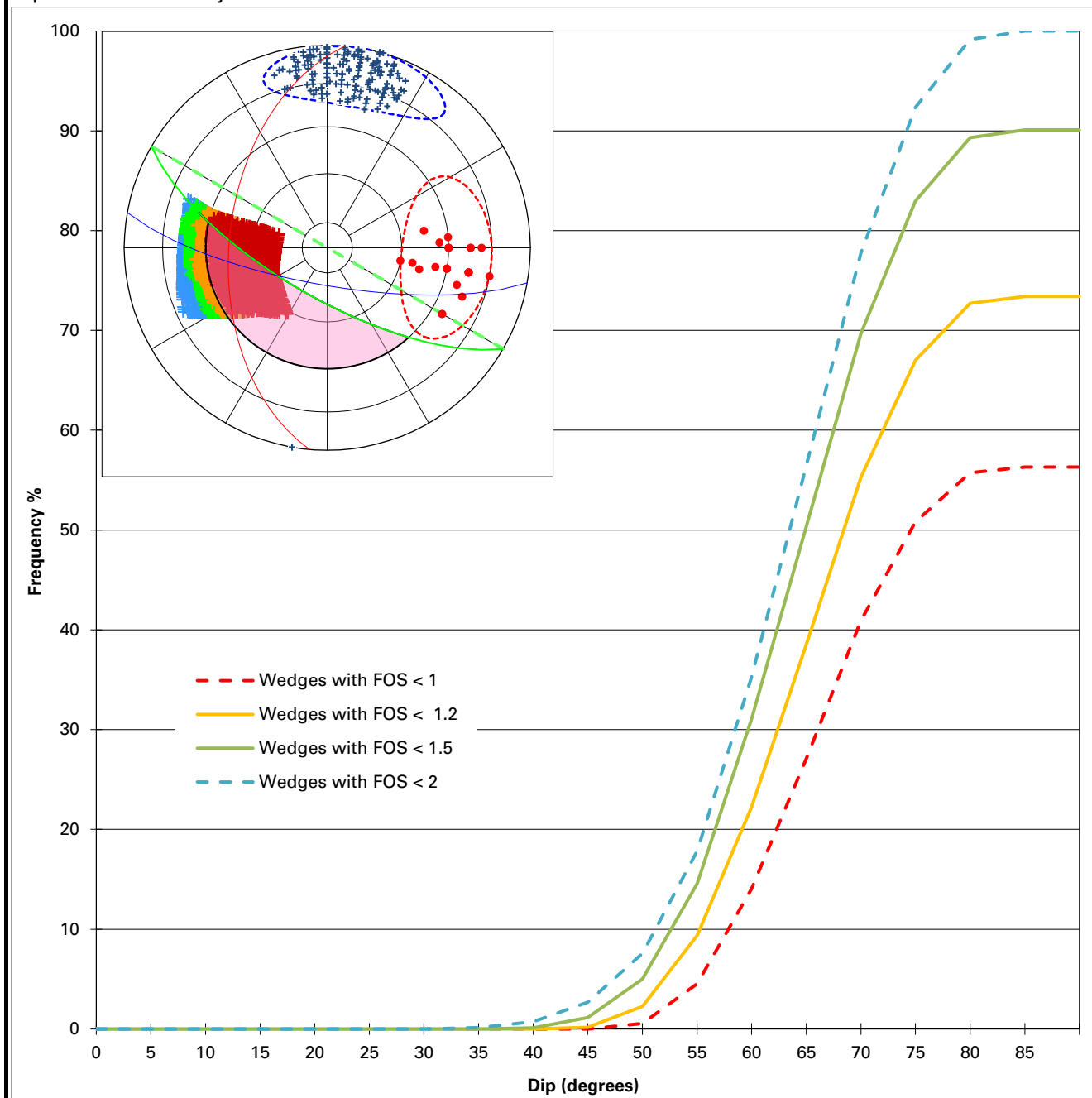
Number of Unstable Wedges 19200
Number of Wedges Analysed 46158

From a possible Total Number of 46158



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 210

FIRST SET - RED

JN1	Mean	±
Dip	50	20
Dip Direction	275	30

Defects in set JN1 303

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JN2	Mean	±
Dip	75	15
Dip Direction	190	30

Defects in set JN2 226

Number of Unstable Wedges 19348
Number of Wedges Analysed 34352

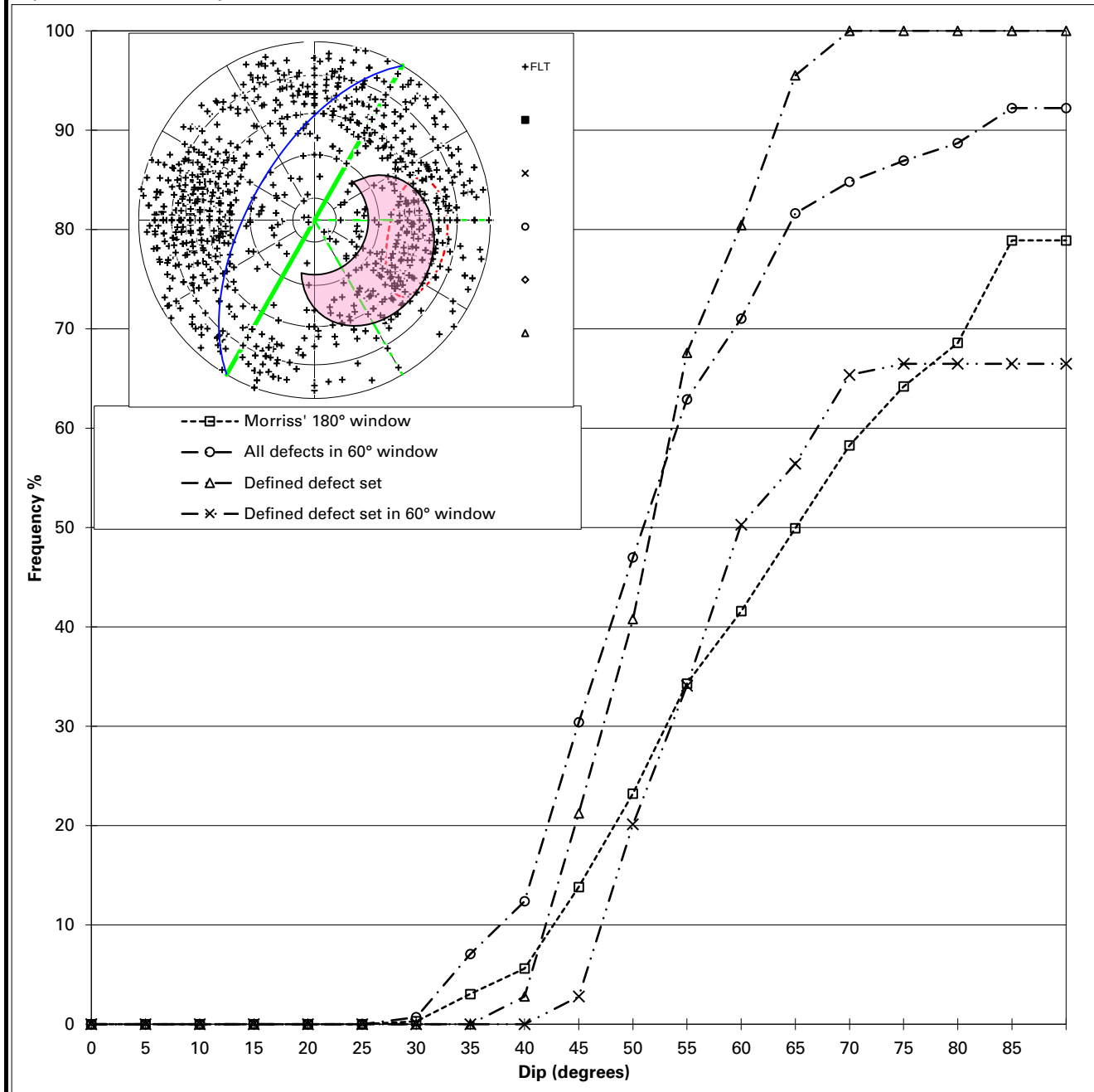
From a possible Total Number of

68478



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 300
Kinematic Window $\pm$ 30

DEFECT SET

FT1	Mean	$\pm$
Dip	50	15
Dip Direction	280	25

DEFECT SHEAR STRENGTHS

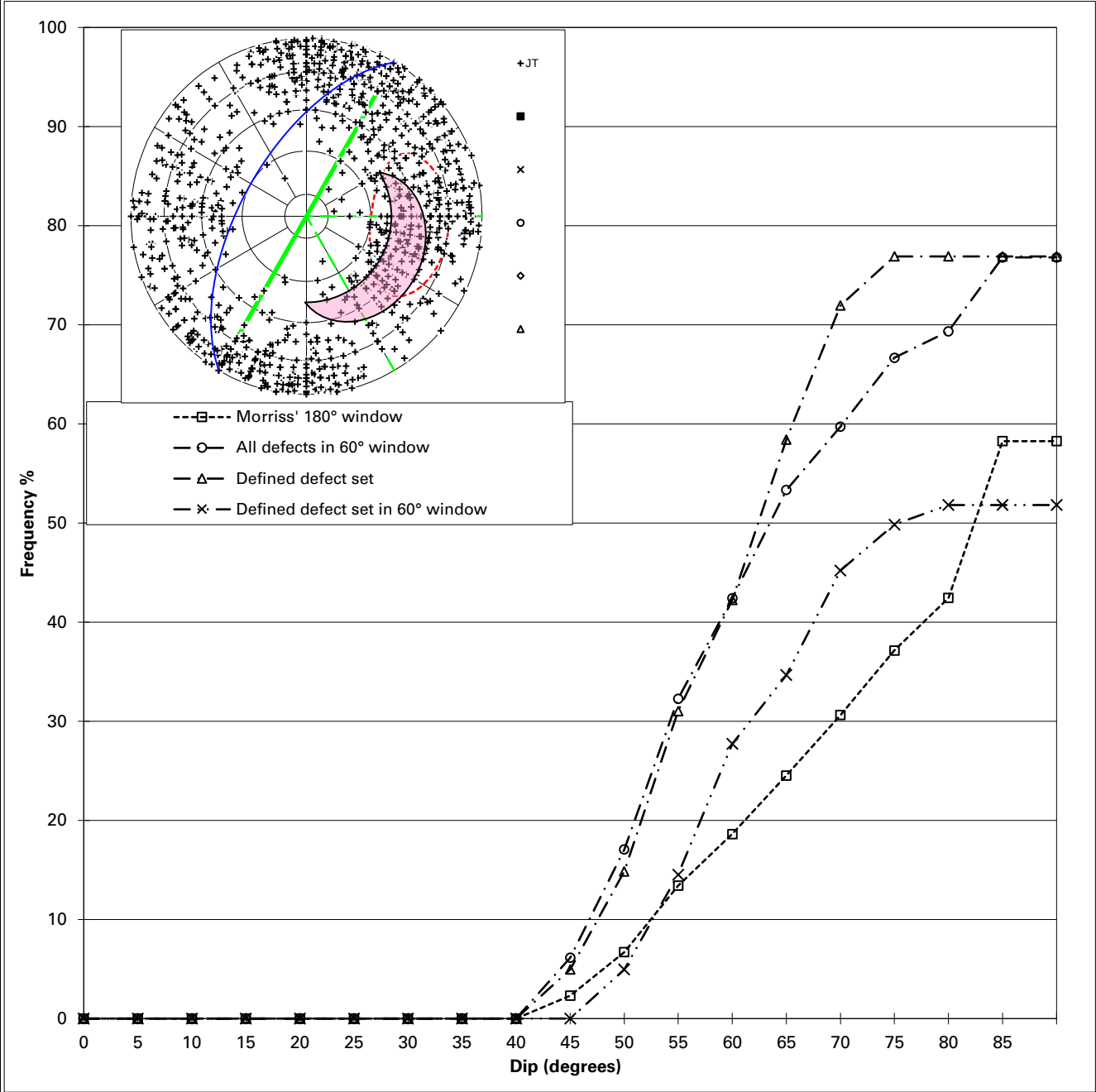
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 267
Defects in set FT1 179
Defect in set & window 119
Defects Dipping out of Slope 629



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction	300
Kinematic Window ±	30
DEFECT SET	

JN1	Mean	±
Dip	50	20
Dip Direction	275	30

DEFECT SHEAR STRENGTHS

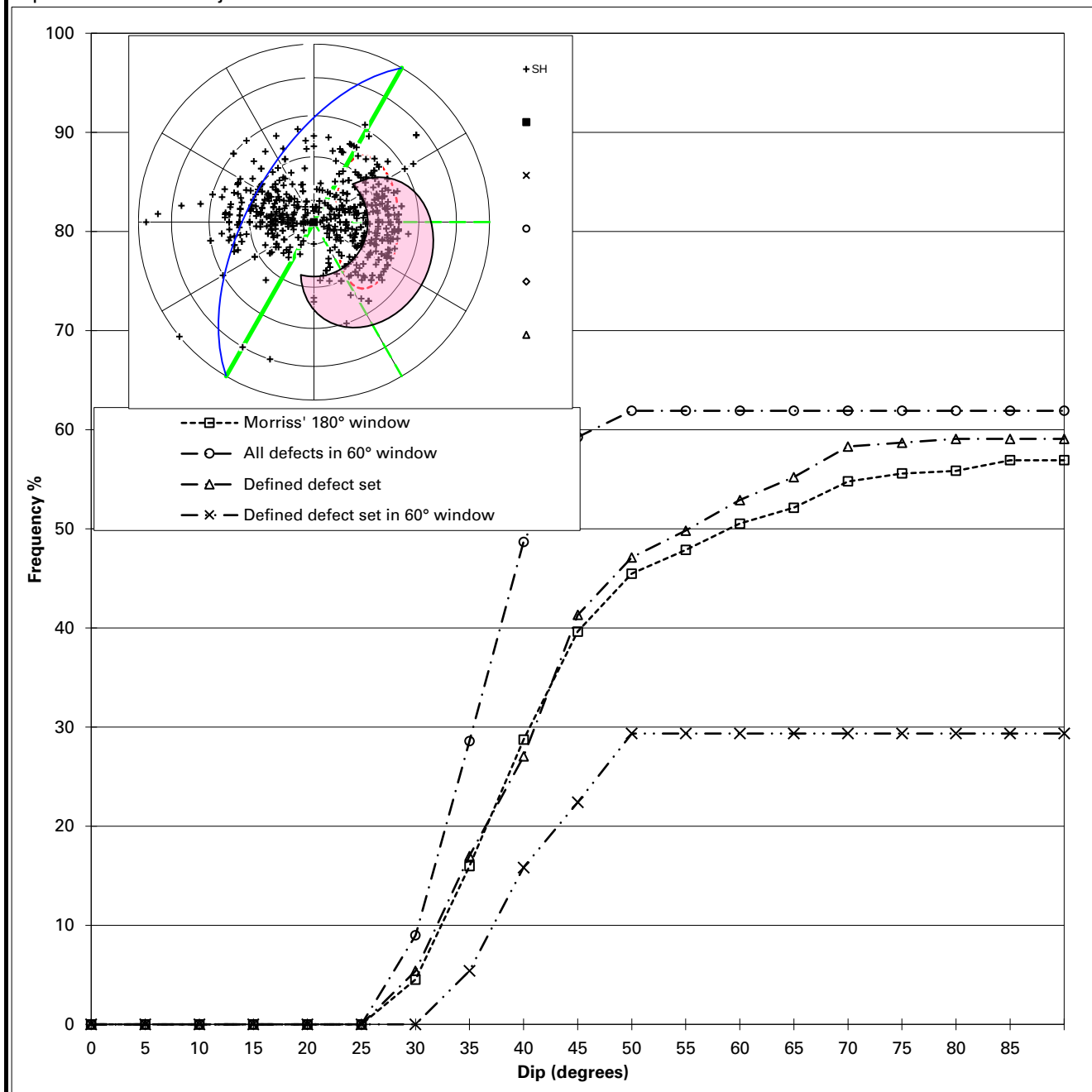
Cohesion	=	0 kPa
Friction Angle	=	40°

Defects in kinematic window	297
Defects in set JN1	233
Defect in set & window	157
Defects Dipping out of Slope	864



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 300
Kinematic Window $\pm$ 30

DEFECT SET

SH1	Mean	$\pm$
Dip	25	15
Dip Direction	270	30

DEFECT SHEAR STRENGTHS

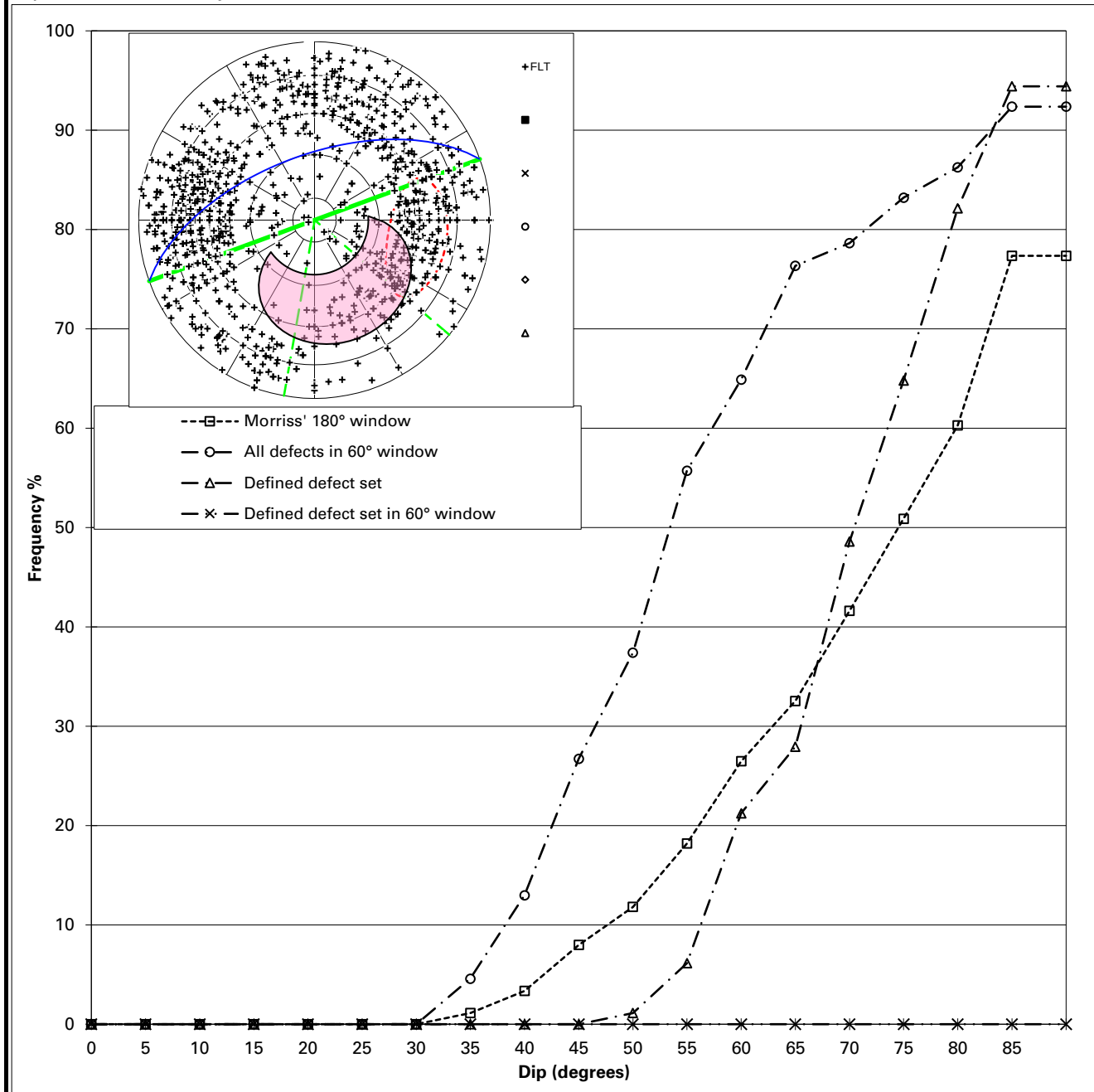
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 117
Defects in set SH1 153
Defect in set & window 76
Defects Dipping out of Slope 219



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 340
Kinematic Window $\pm$ 30

DEFECT SET

FT1	Mean	$\pm$
Dip	50	15
Dip Direction	280	25

DEFECT SHEAR STRENGTHS

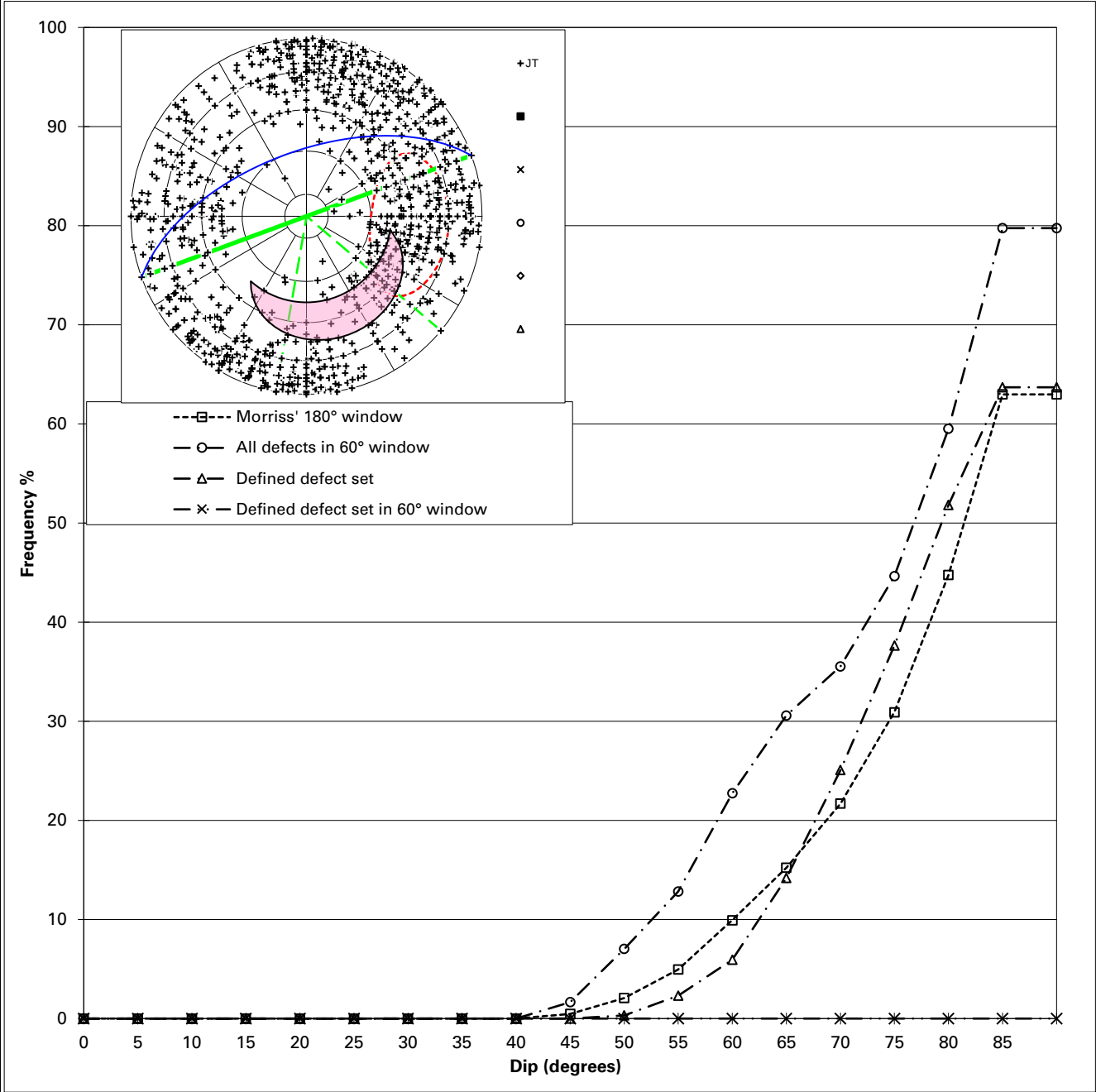
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 122
Defects in set FT1 179
Defect in set & window 0
Defects Dipping out of Slope 599



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 340
Kinematic Window $\pm$ 30

DEFECT SET

JN1	Mean	$\pm$
Dip	50	20
Dip Direction	275	30

DEFECT SHEAR STRENGTHS

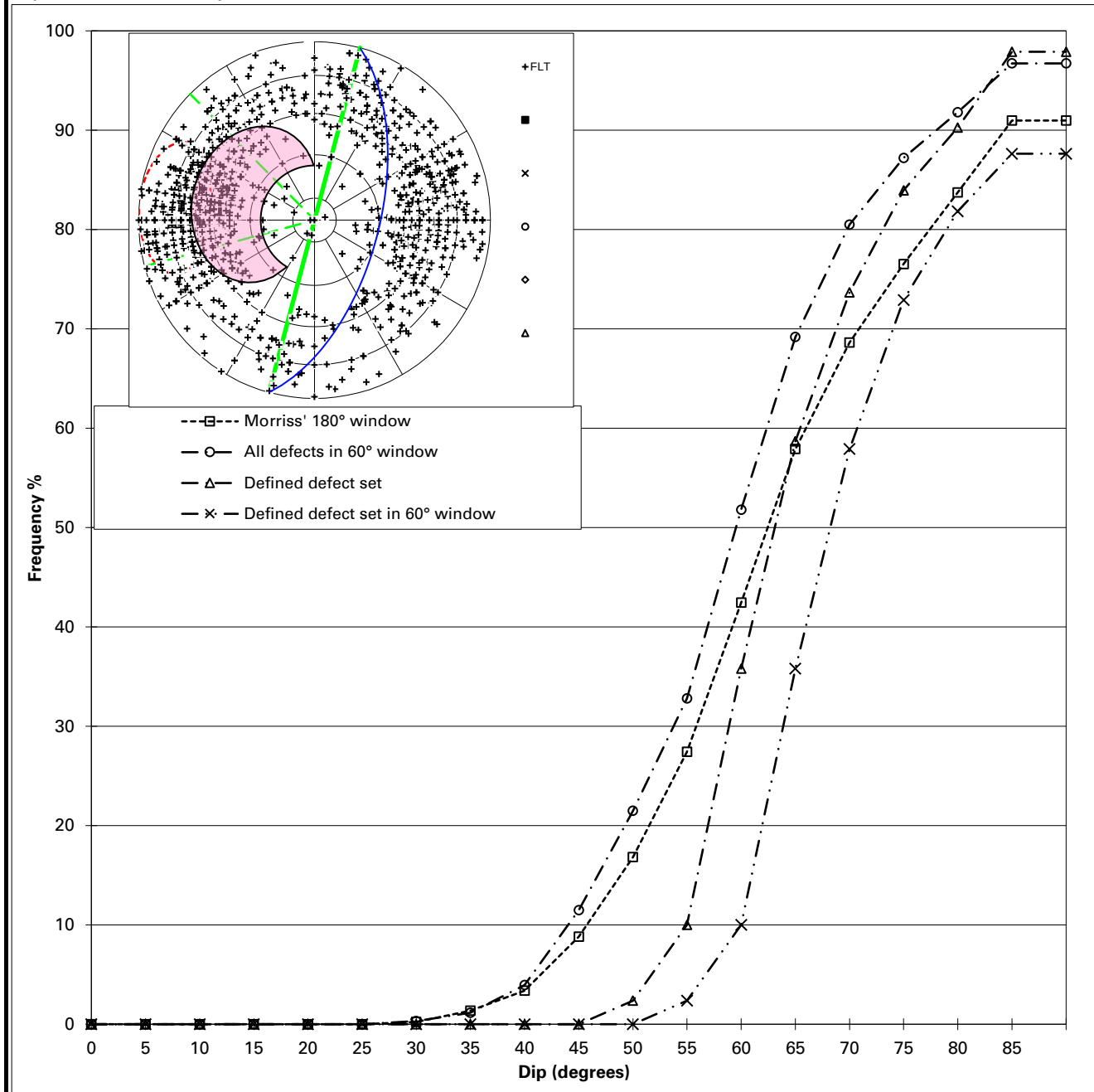
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 224
Defects in set JN1 221
Defect in set & window 0
Defects Dipping out of Slope 755



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 105
Kinematic Window $\pm$ 30

DEFECT SET

FT3	Mean	$\pm$
Dip	70	20
Dip Direction	95	25

DEFECT SHEAR STRENGTHS

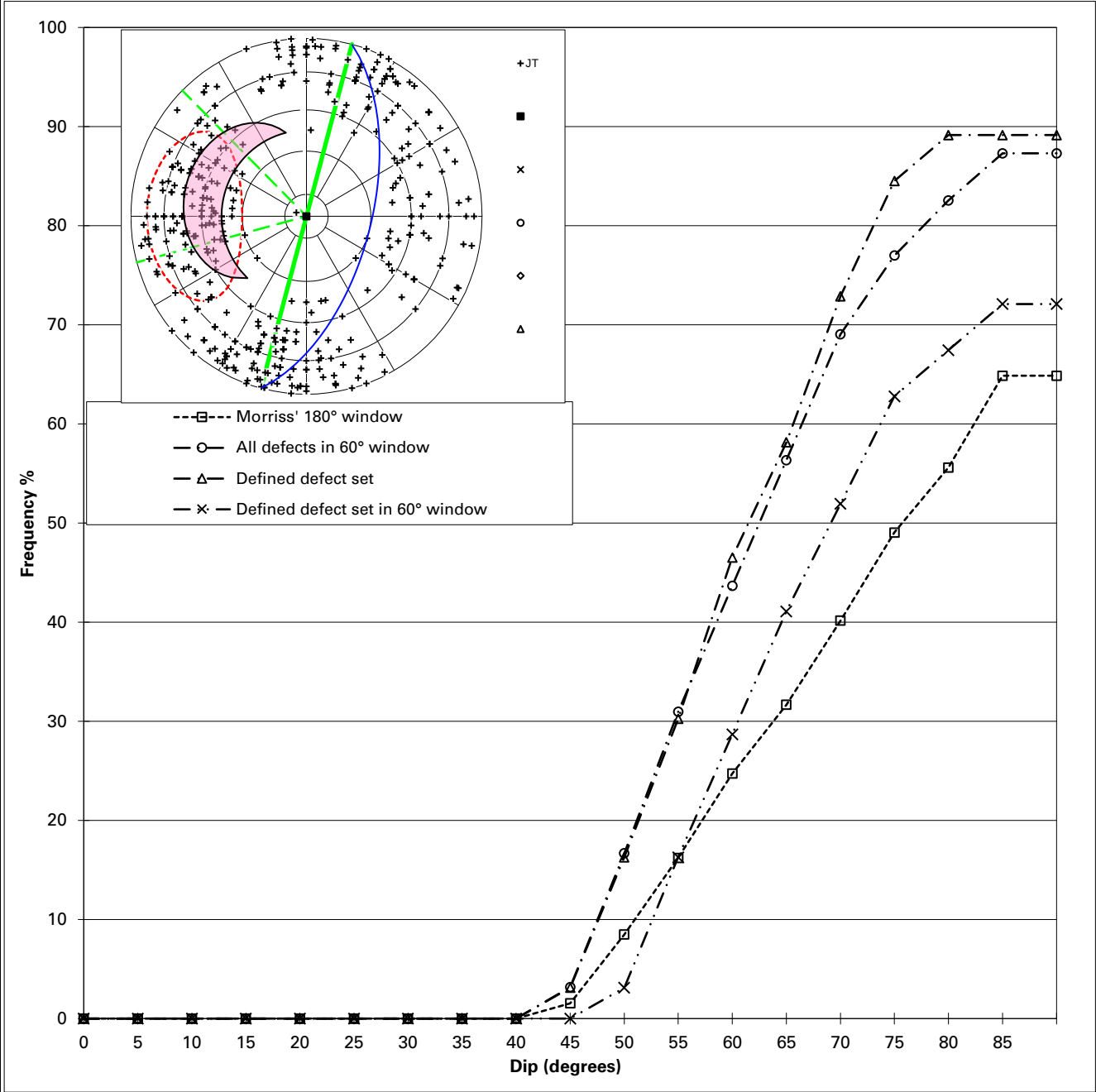
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 601
Defects in set FT3 380
Defect in set & window 368
Defects Dipping out of Slope 872



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 105
Kinematic Window $\pm$ 30
DEFECT SET

JN3	Mean	$\pm$
Dip	55	25
Dip Direction	90	35

DEFECT SHEAR STRENGTHS

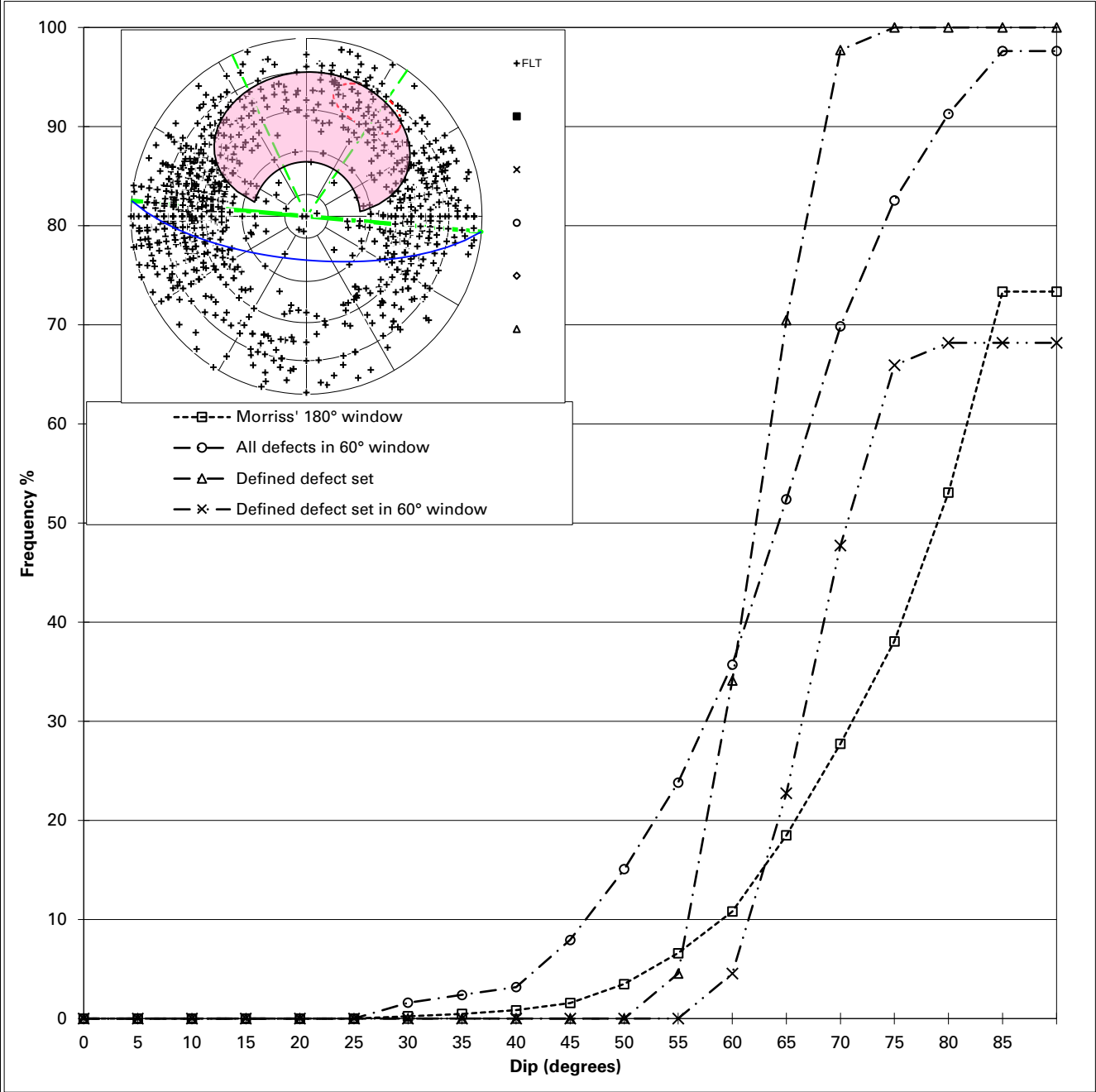
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 111
Defects in set JN3 115
Defect in set & window 93
Defects Dipping out of Slope 239



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 185
Kinematic Window ± 30
DEFECT SET

FT7	Mean	±
Dip	60	10
Dip Direction	210	15

DEFECT SHEAR STRENGTHS

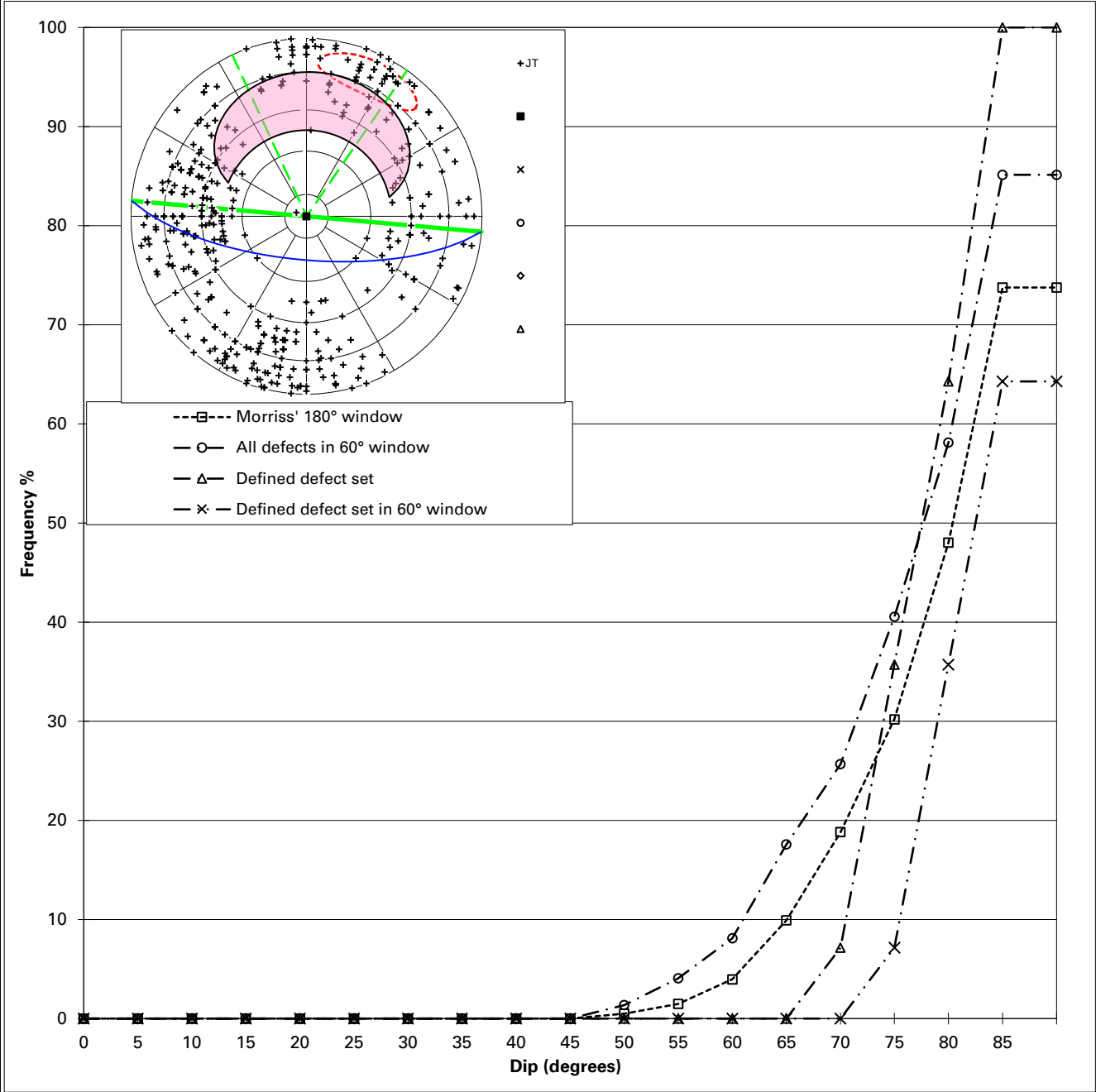
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 125
Defects in set FT7 44
Defect in set & window 30
Defects Dipping out of Slope 822



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction	185
Kinematic Window $\pm$	30
DEFECT SET	

JN6	Mean	$\pm$
Dip	75	10
Dip Direction	205	20

DEFECT SHEAR STRENGTHS

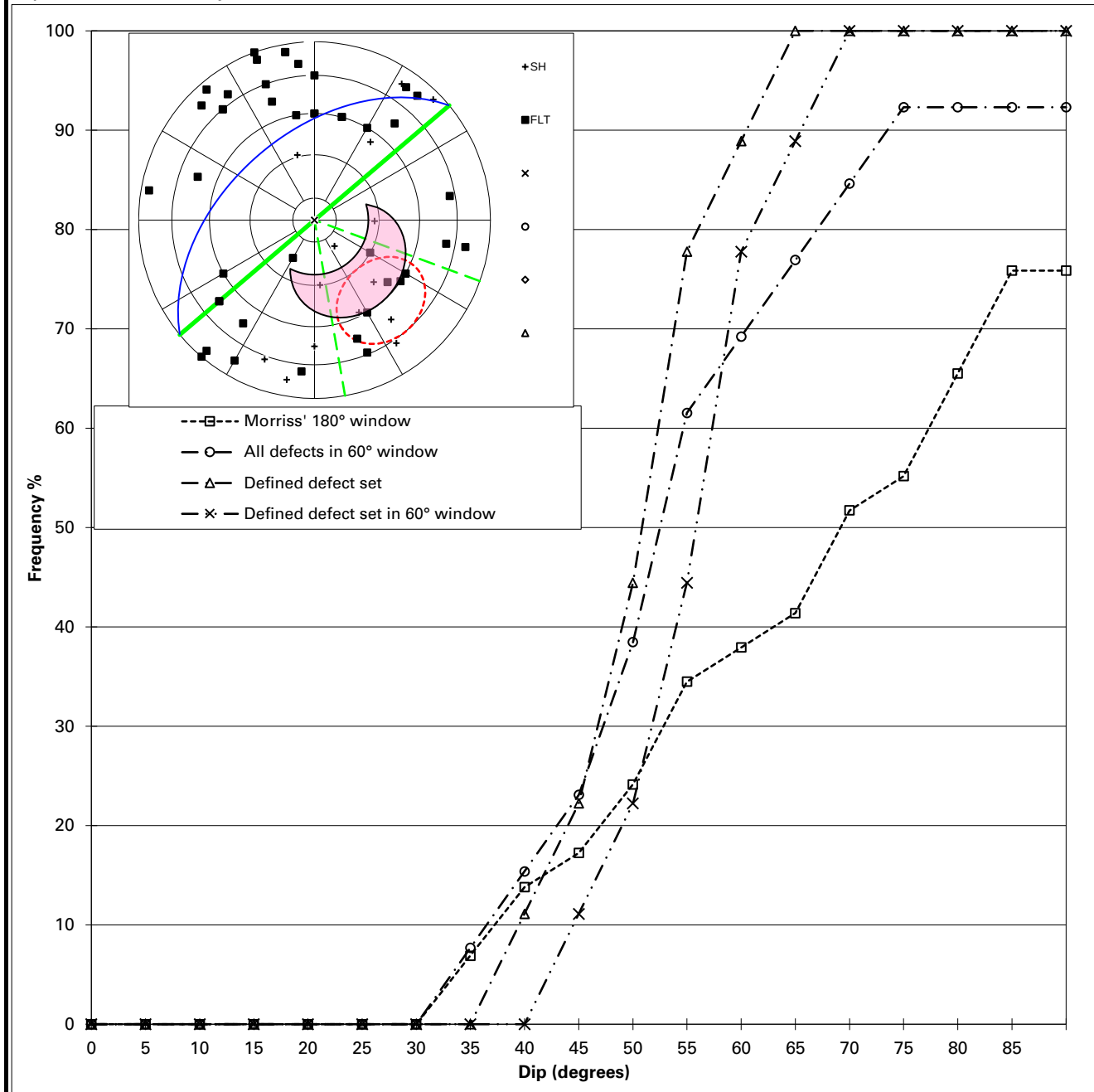
Cohesion	=	0 kPa
Friction Angle	=	40°

Defects in kinematic window	73
Defects in set JN6	28
Defect in set & window	28
Defects Dipping out of Slope	194



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 320
Kinematic Window $\pm$ 30
DEFECT SET

SH3	Mean	$\pm$
Dip	50	20
Dip Direction	320	20

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 12
Defects in set SH3 9
Defect in set & window 9
Defects Dipping out of Slope 27



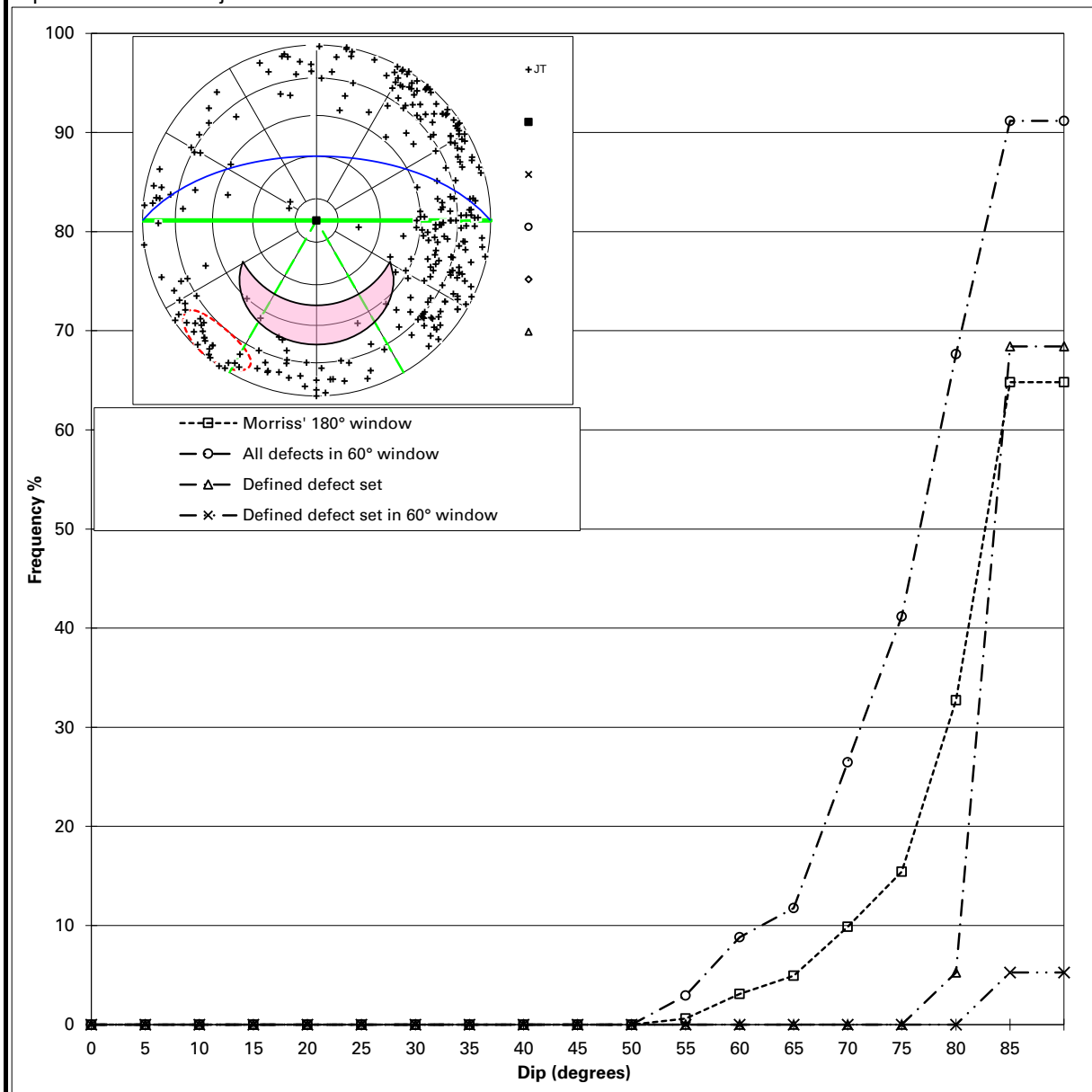
Appendix B

Coronation Stage 6 Probability of Undercutting Plots



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 0
Kinematic Window $\pm$ 30

DEFECT SET

JT 1	Mean	$\pm$
Dip	80	10
Dip Direction	40	15

DEFECT SHEAR STRENGTHS

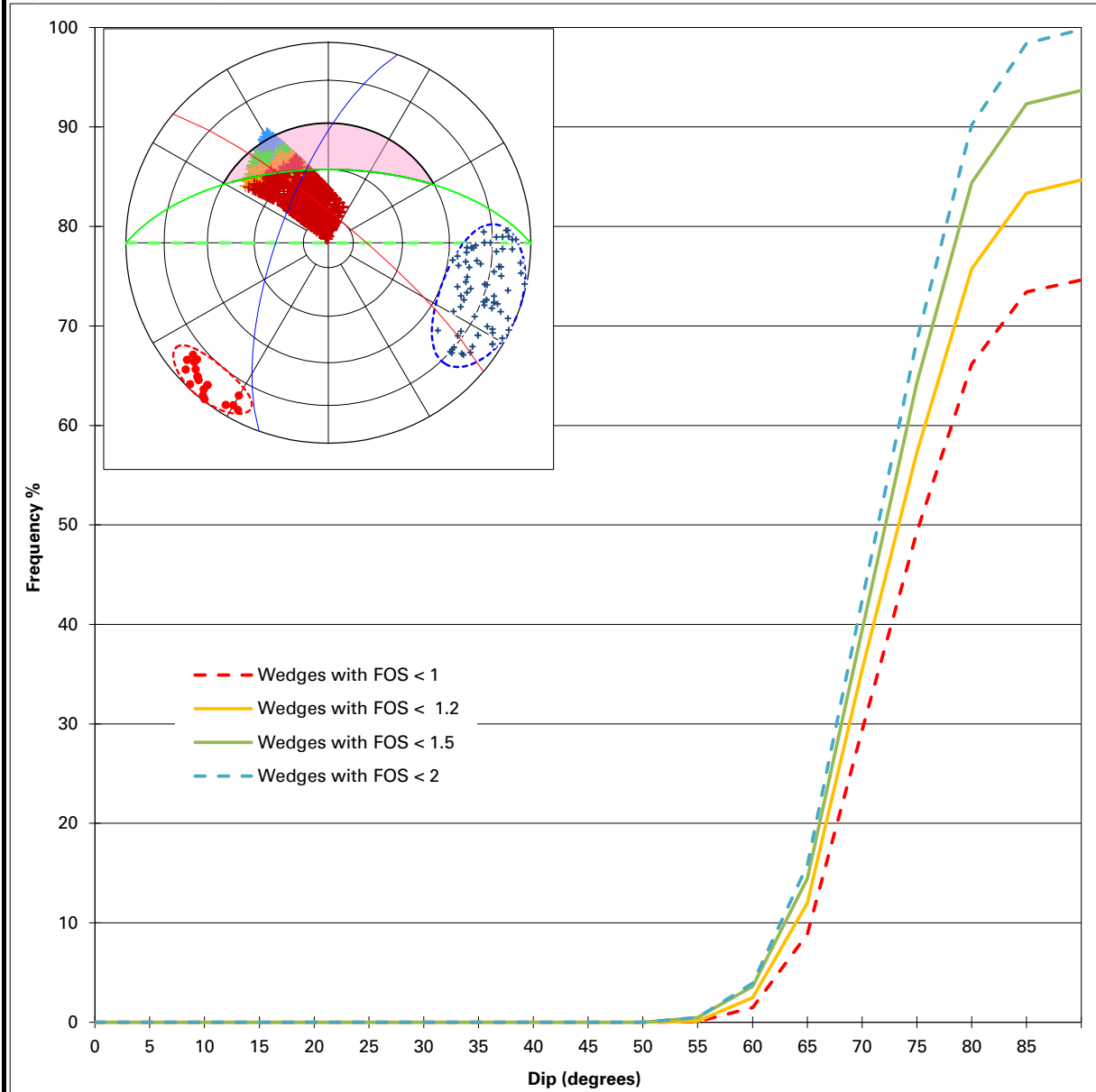
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 34
Defects in set JT 1 19
Defect in set & window 3
Defects Dipping out of Slope 160



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 0

FIRST SET - RED

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

Defects in set JT 1

19

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3

79

Number of Unstable Wedges 1121
Number of Wedges Analysed 1501

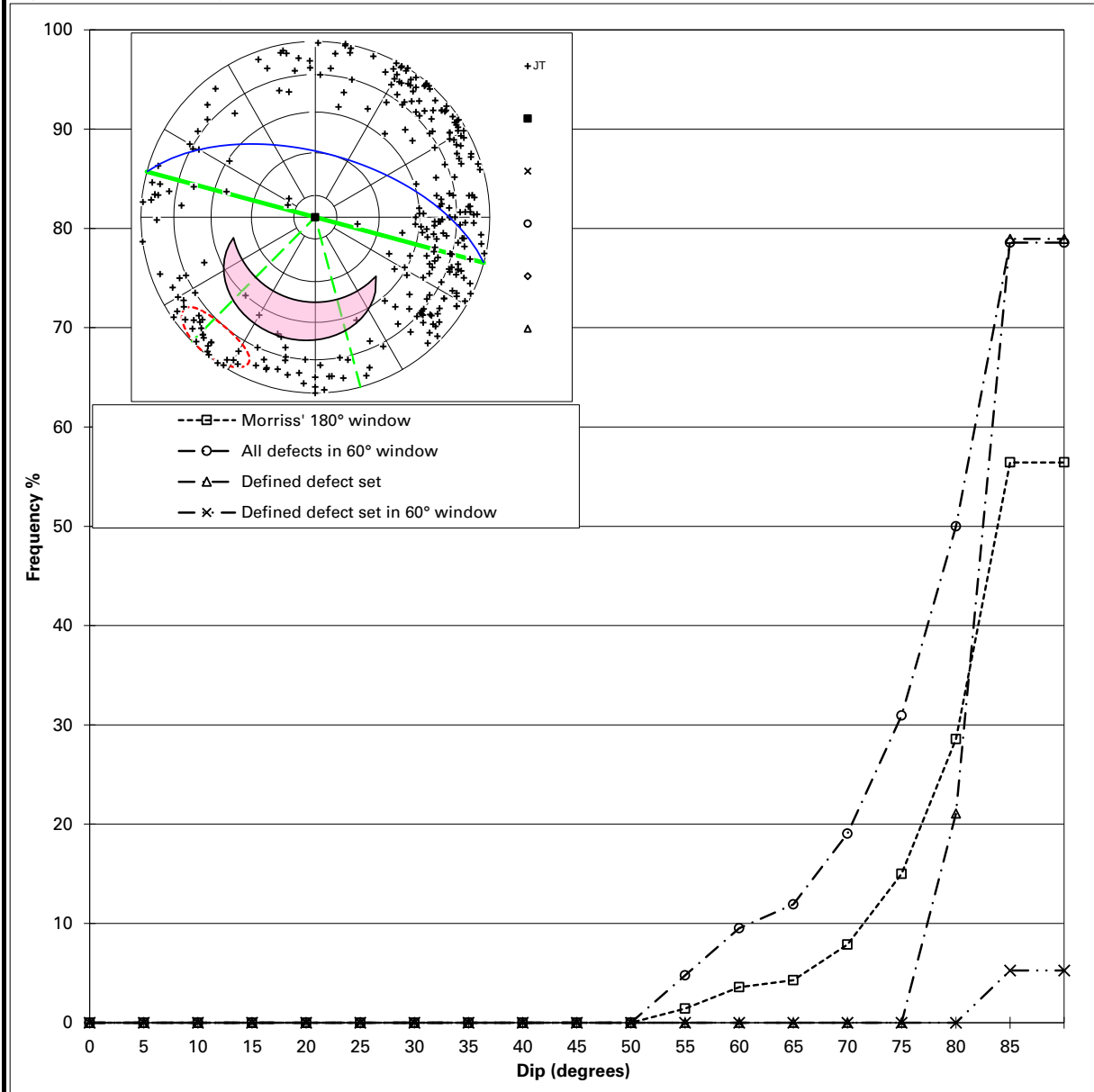
From a possible Total Number of

1501



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 15
Kinematic Window $\pm$ 30
DEFECT SET

JT 1	Mean	$\pm$
Dip	80	10
Dip Direction	40	15

DEFECT SHEAR STRENGTHS

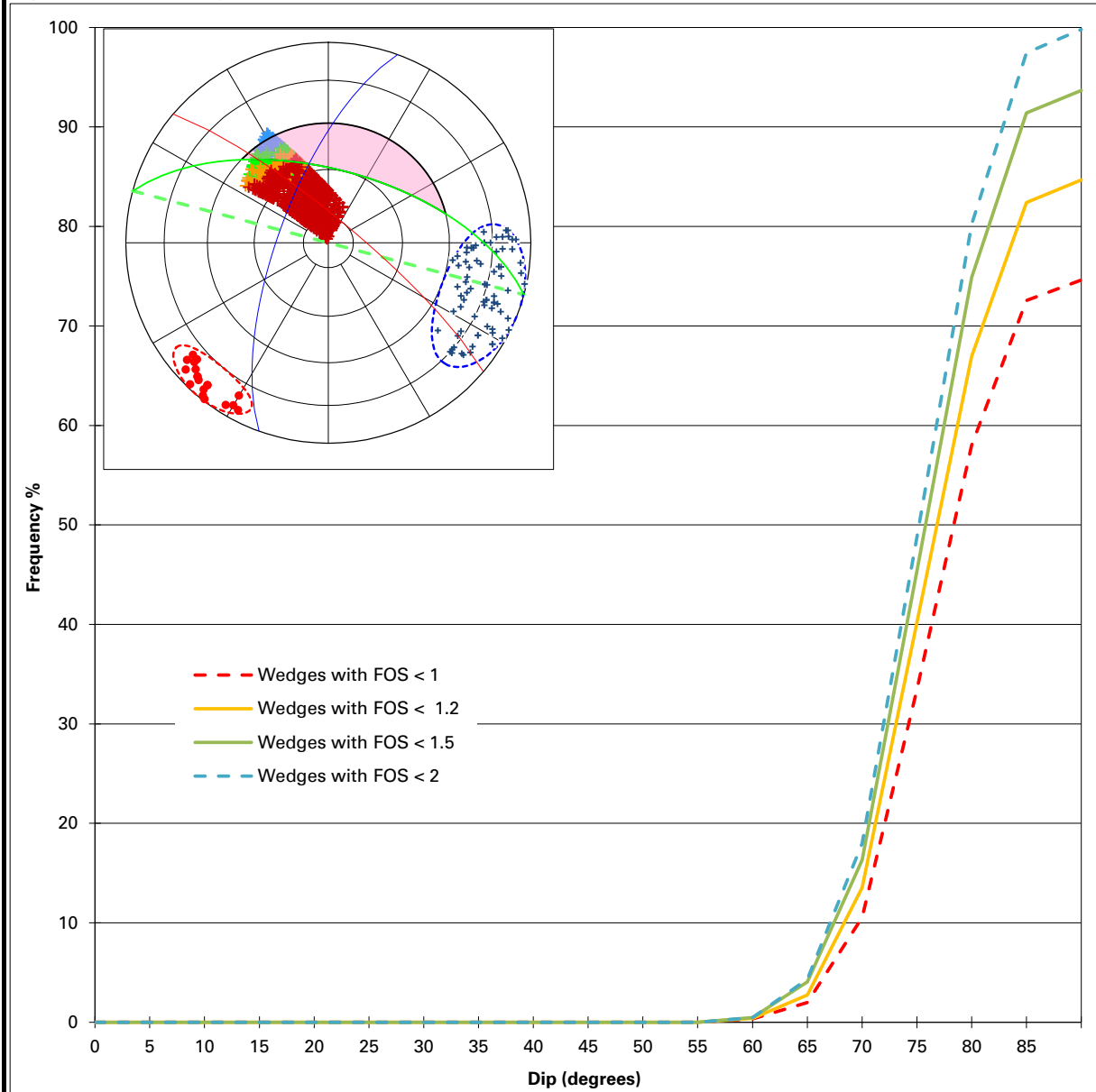
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 42
Defects in set JT 1 19
Defect in set & window 13
Defects Dipping out of Slope 139



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 15

FIRST SET - RED

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

Defects in set JT 1 19

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

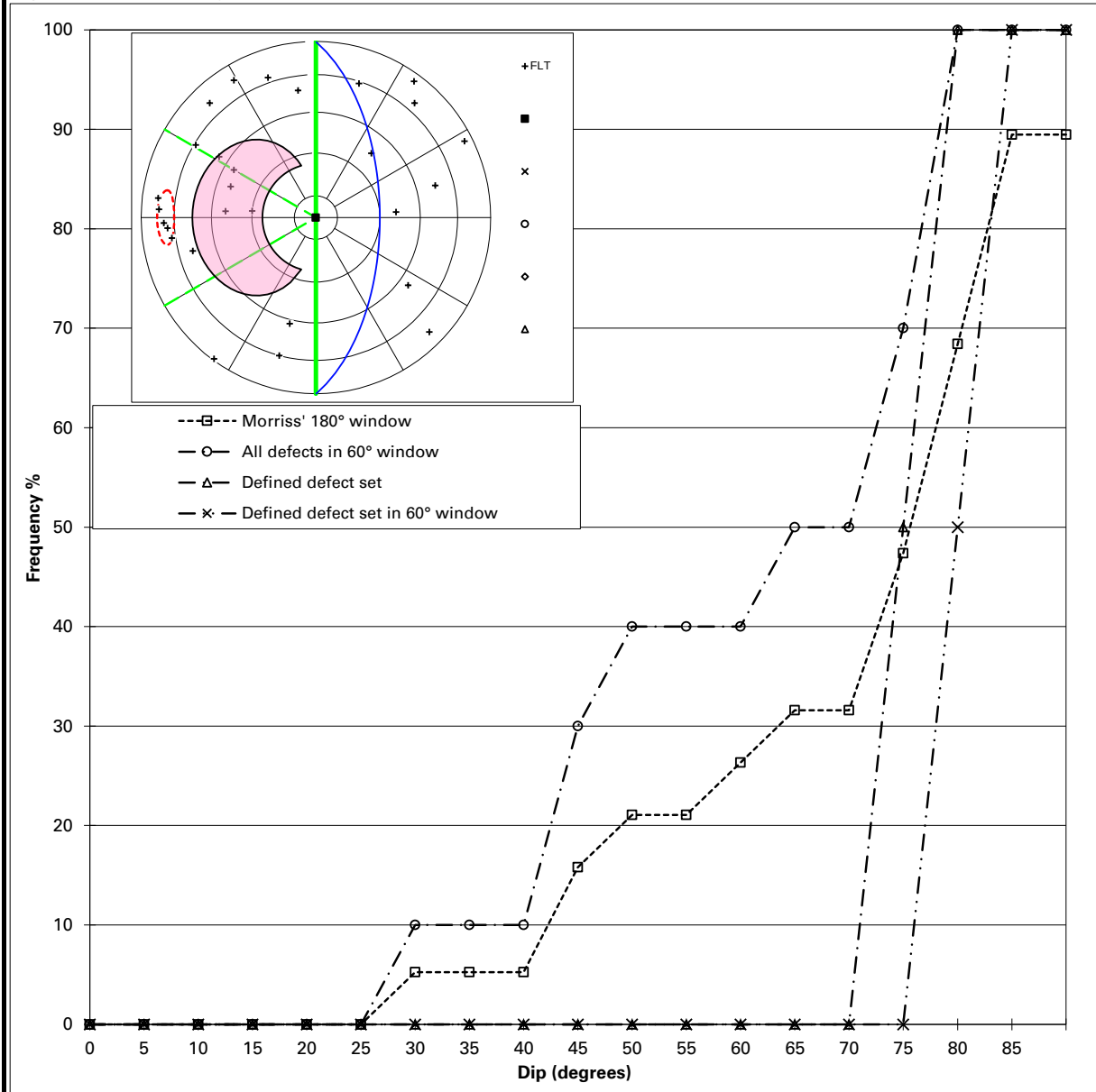
Number of Unstable Wedges 1121
Number of Wedges Analysed 1501

From a possible Total Number of 1501



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 90
Kinematic Window $\pm$ 30

DEFECT SET

FLT 1	Mean	$\pm$
Dip	75	5
Dip Direction	90	10

DEFECT SHEAR STRENGTHS

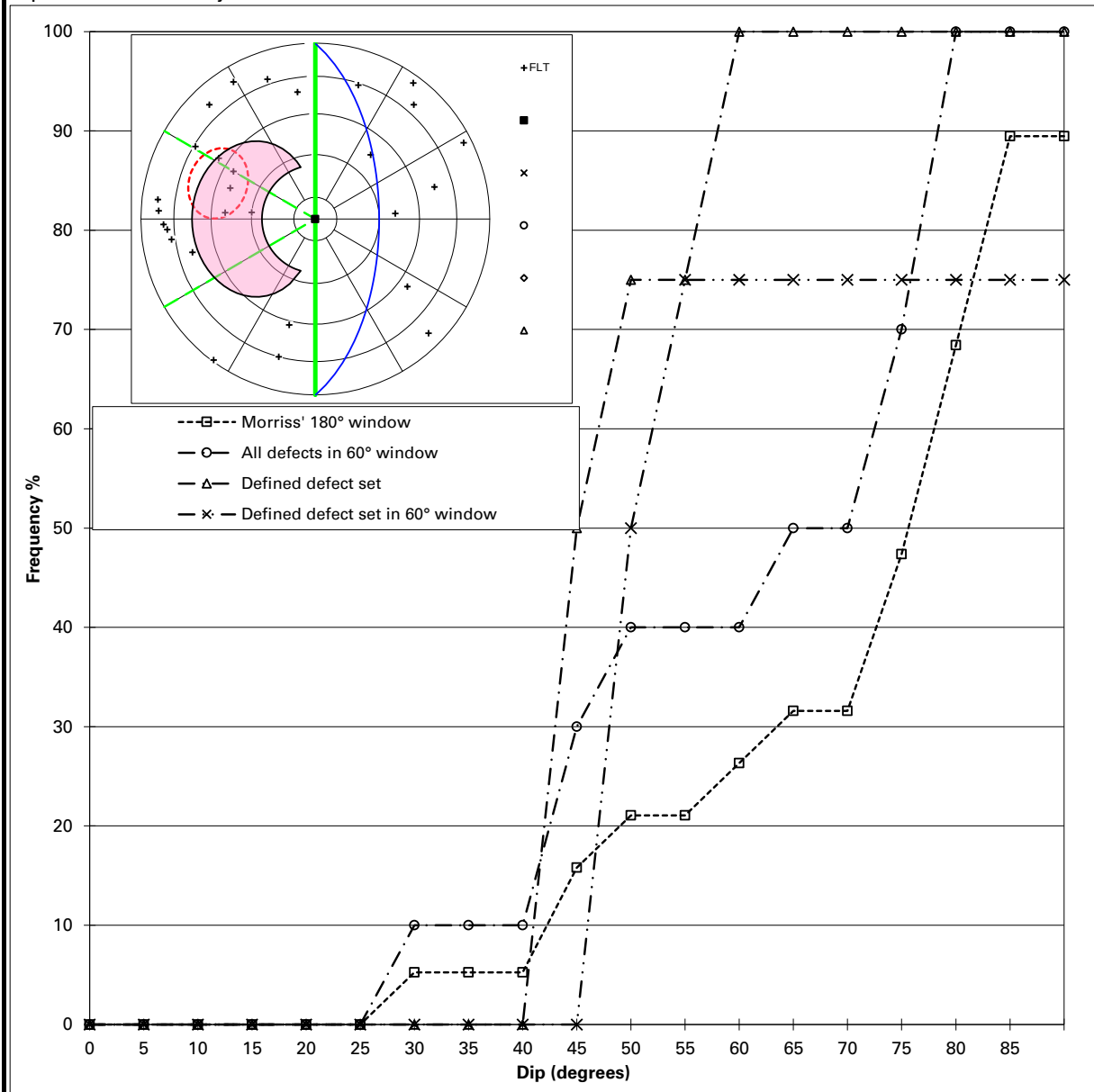
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 10
Defects in set FLT 1 4
Defect in set & window 4
Defects Dipping out of Slope 19



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 90
Kinematic Window $\pm$ 30

DEFECT SET

FLT 2	Mean	$\pm$
Dip	50	15
Dip Direction	110	15

DEFECT SHEAR STRENGTHS

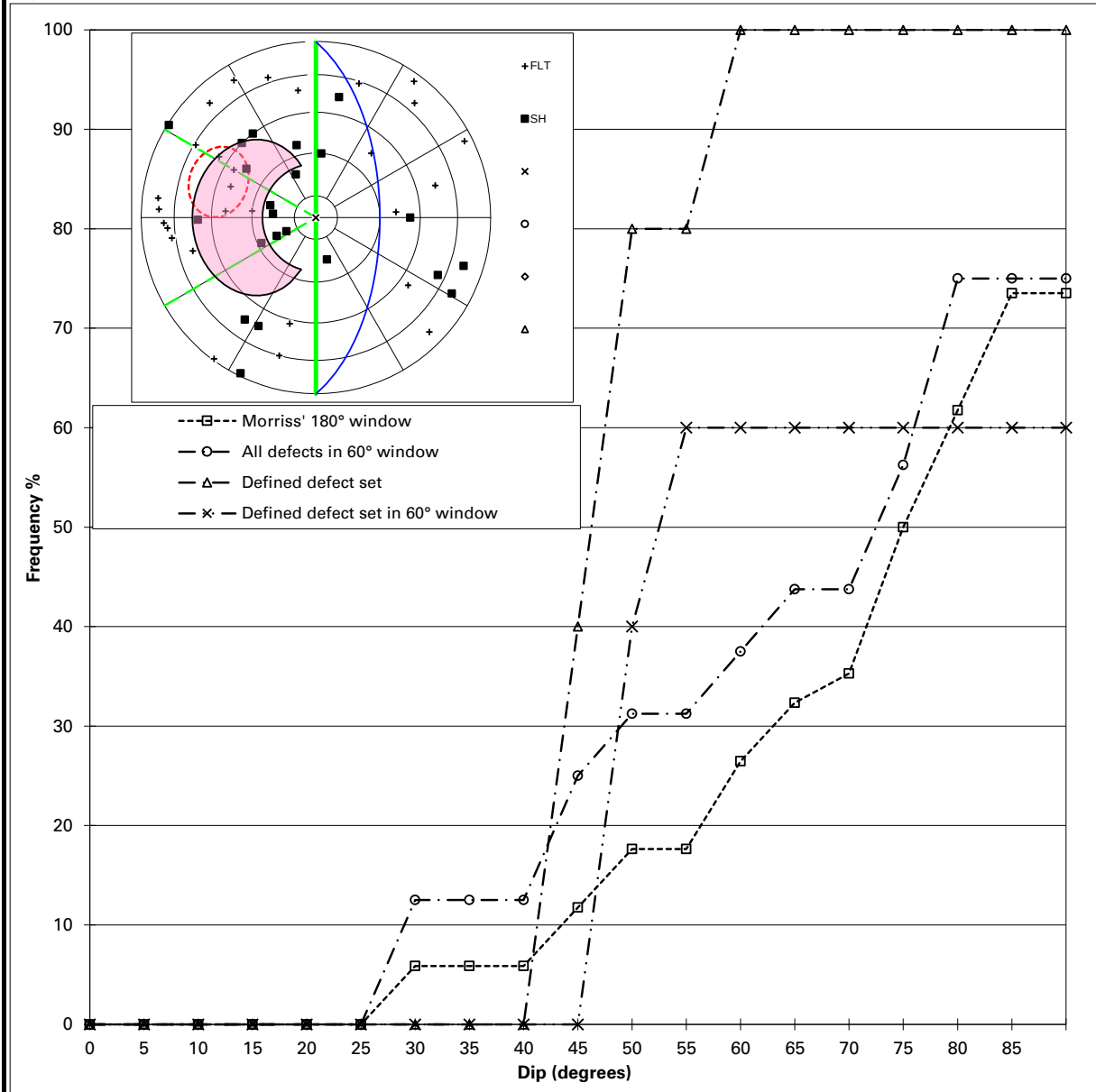
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 10
Defects in set FLT 2 4
Defect in set & window 3
Defects Dipping out of Slope 19



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 90
Kinematic Window $\pm$ 30

DEFECT SET

FLT 2	Mean	$\pm$
Dip	50	15
Dip Direction	110	15

DEFECT SHEAR STRENGTHS

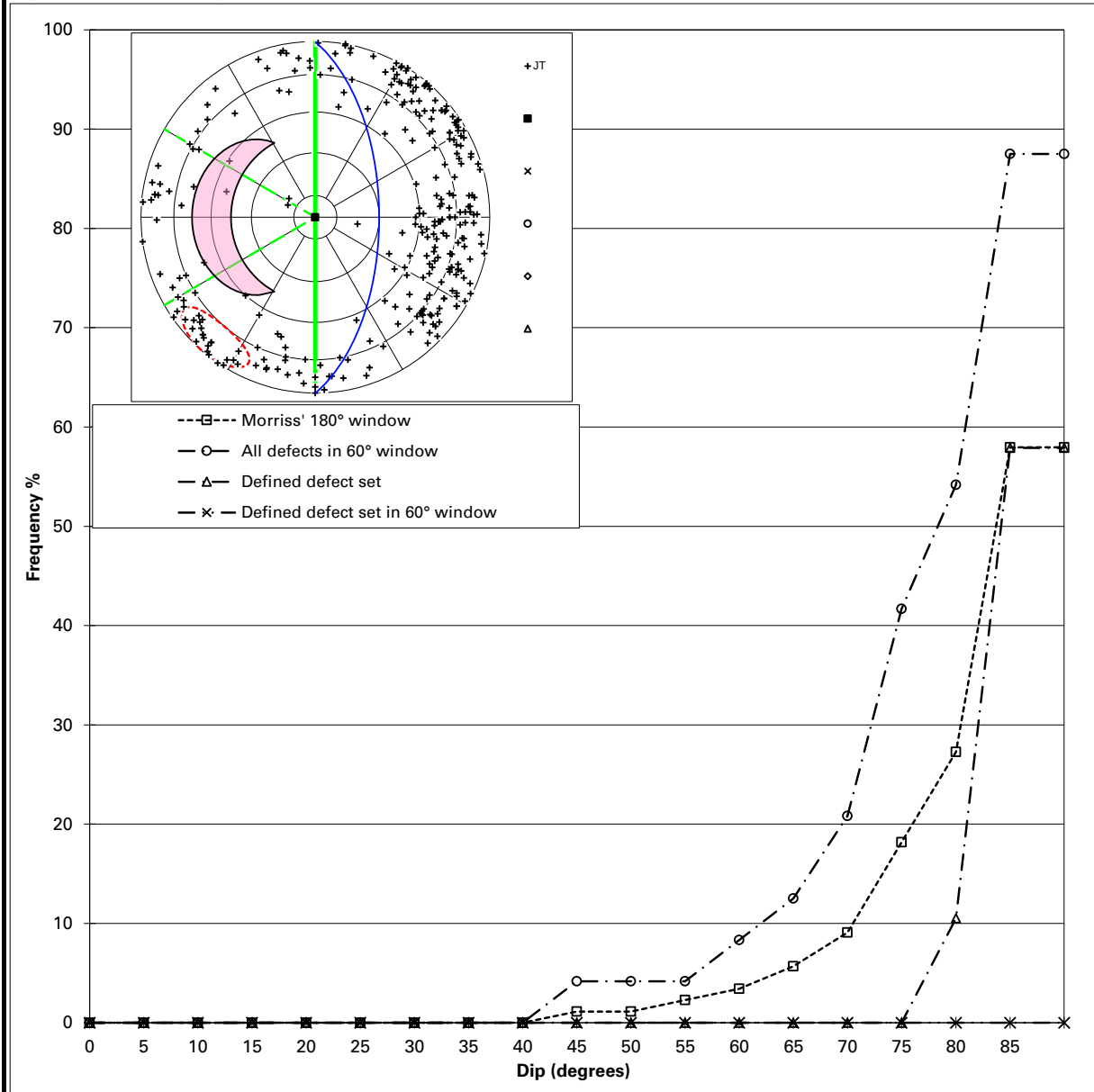
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 12
Defects in set FLT 2 5
Defect in set & window 3
Defects Dipping out of Slope 29



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 90
Kinematic Window $\pm$ 30

DEFECT SET

JT 1	Mean	$\pm$
Dip	80	10
Dip Direction	40	15

DEFECT SHEAR STRENGTHS

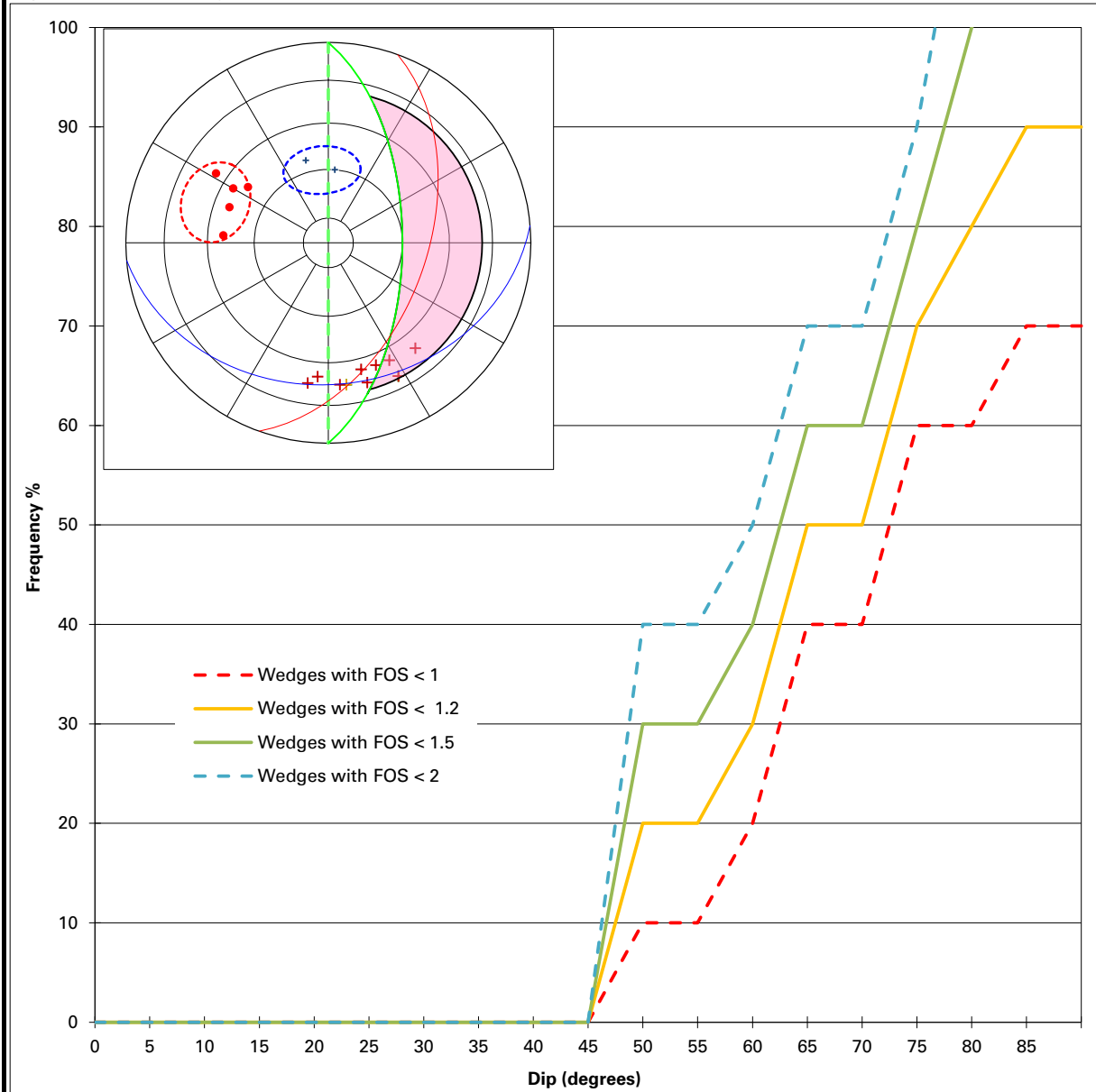
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window	23
Defects in set JT 1	19
Defect in set & window	0
Defects Dipping out of Slope	86



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 90

FIRST SET - RED

FLT 2	Mean	±
Dip	50	15
Dip Direction	110	15

Defects in set FLT 2

5

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 25°

SECOND SET - BLUE

SH 1	Mean	±
Dip	30	10
Dip Direction	175	15

Defects in set SH 1

2

Number of Unstable Wedges
Number of Wedges Analysed

7
10

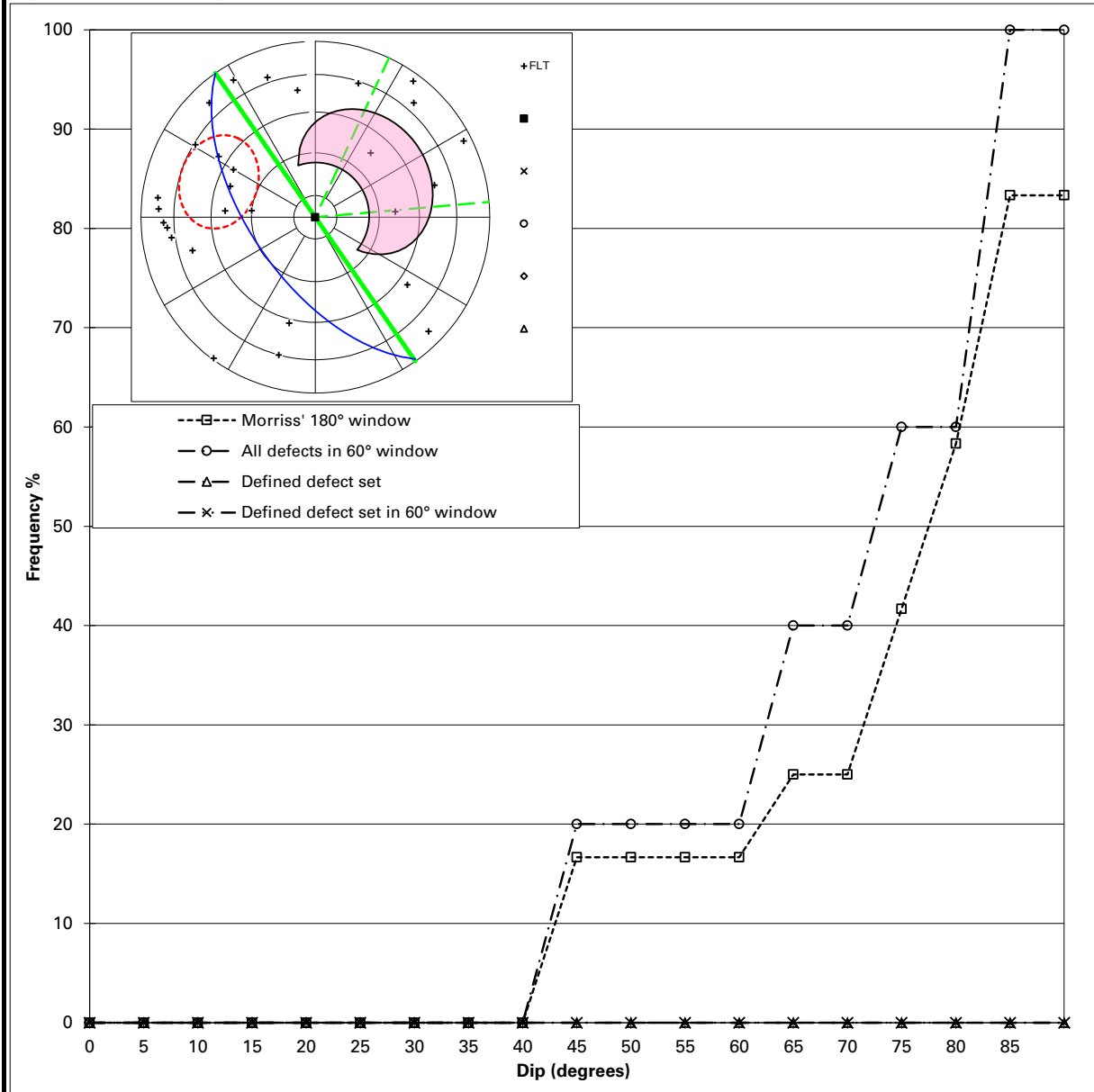
From a possible Total Number of

10



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 235
Kinematic Window ± 30

DEFECT SET

FLT 2	Mean	±
Dip	50	20
Dip Direction	110	20

DEFECT SHEAR STRENGTHS

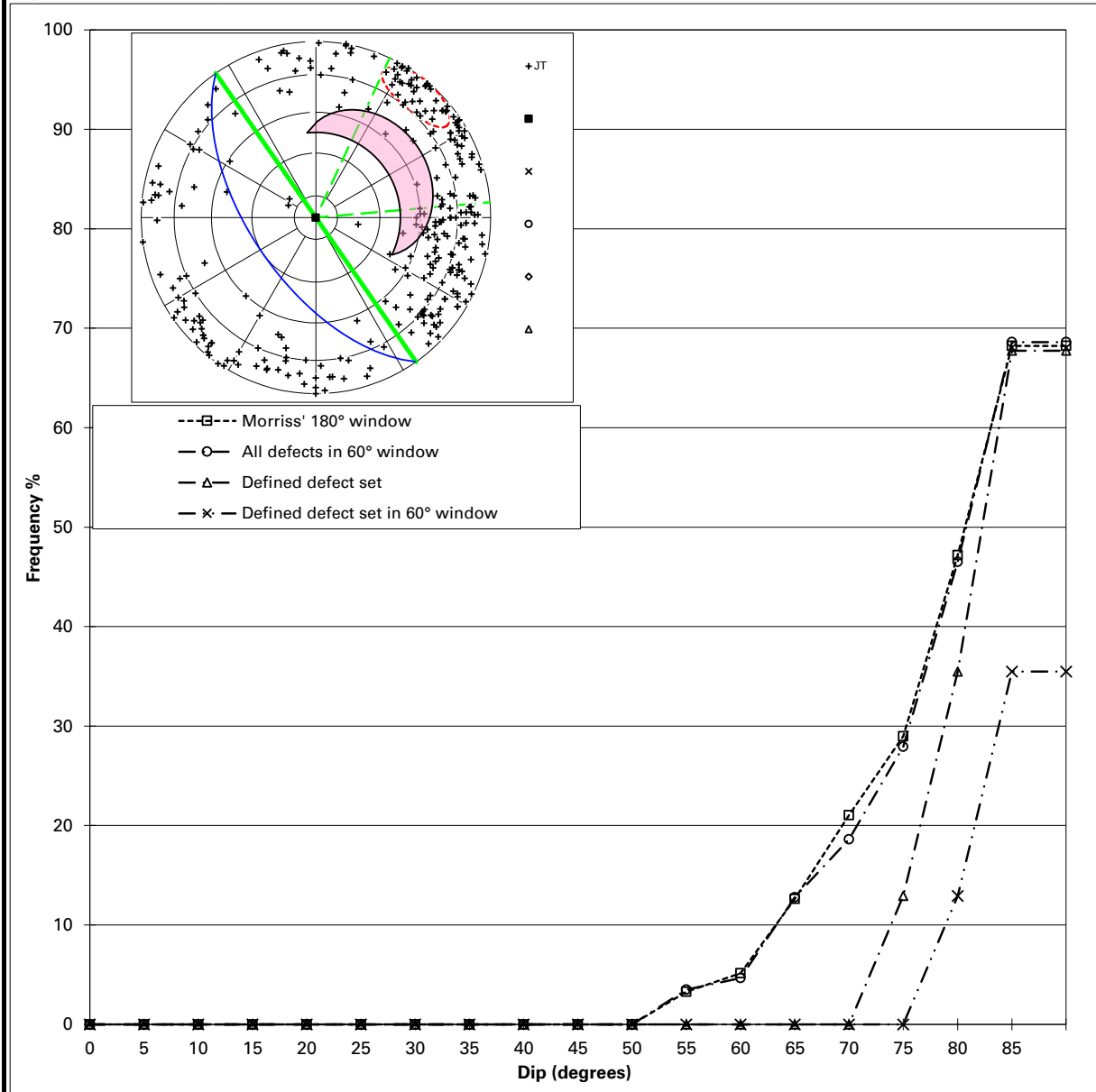
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window 5
Defects in set FLT 2 0
Defect in set & window 0
Defects Dipping out of Slope 12



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 235
Kinematic Window ± 30

DEFECT SET

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

DEFECT SHEAR STRENGTHS

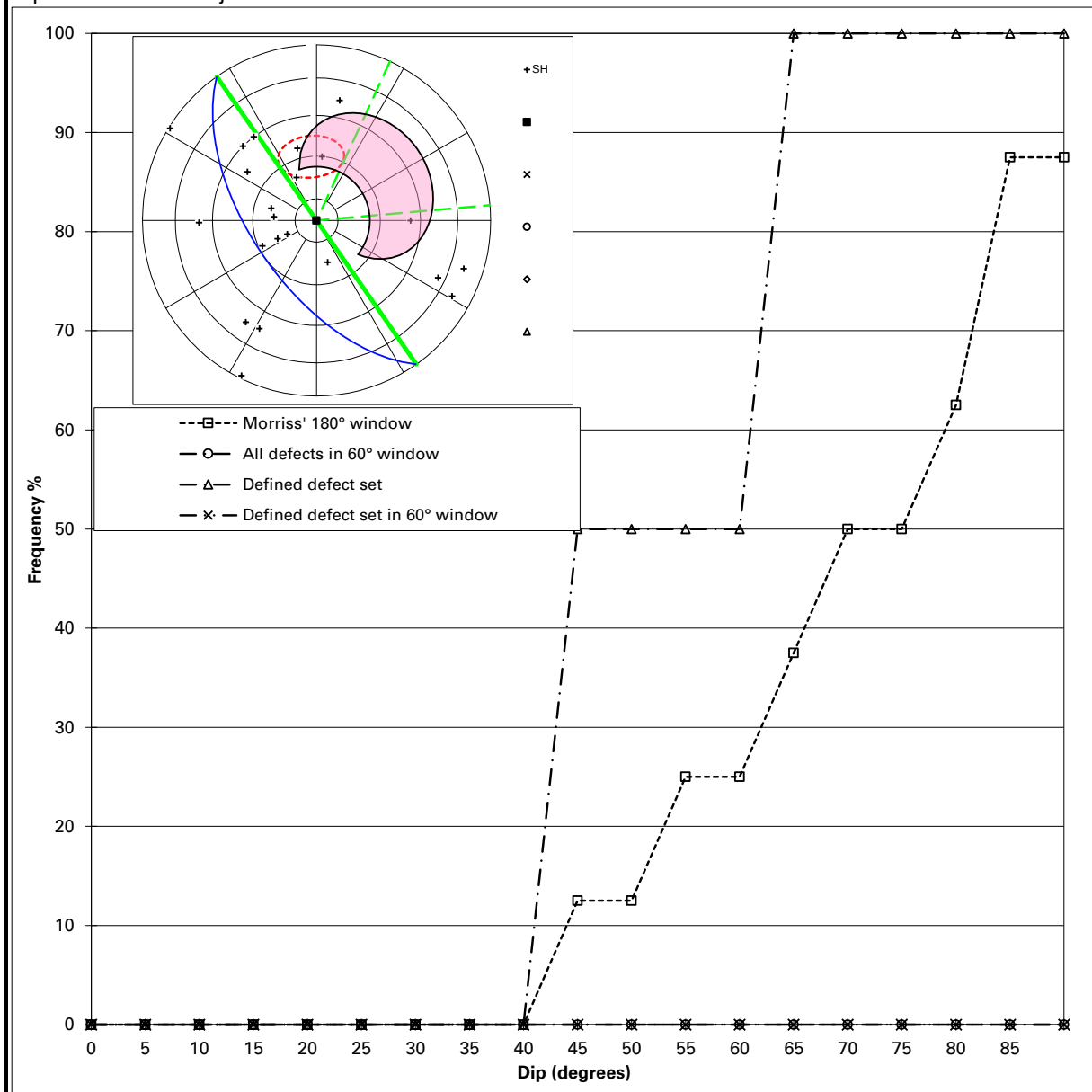
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 86
Defects in set JT 2 31
Defect in set & window 31
Defects Dipping out of Slope 212



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 235
Kinematic Window $\pm$ 30

DEFECT SET

SH 1	Mean	$\pm$
Dip	30	10
Dip Direction	175	15

DEFECT SHEAR STRENGTHS

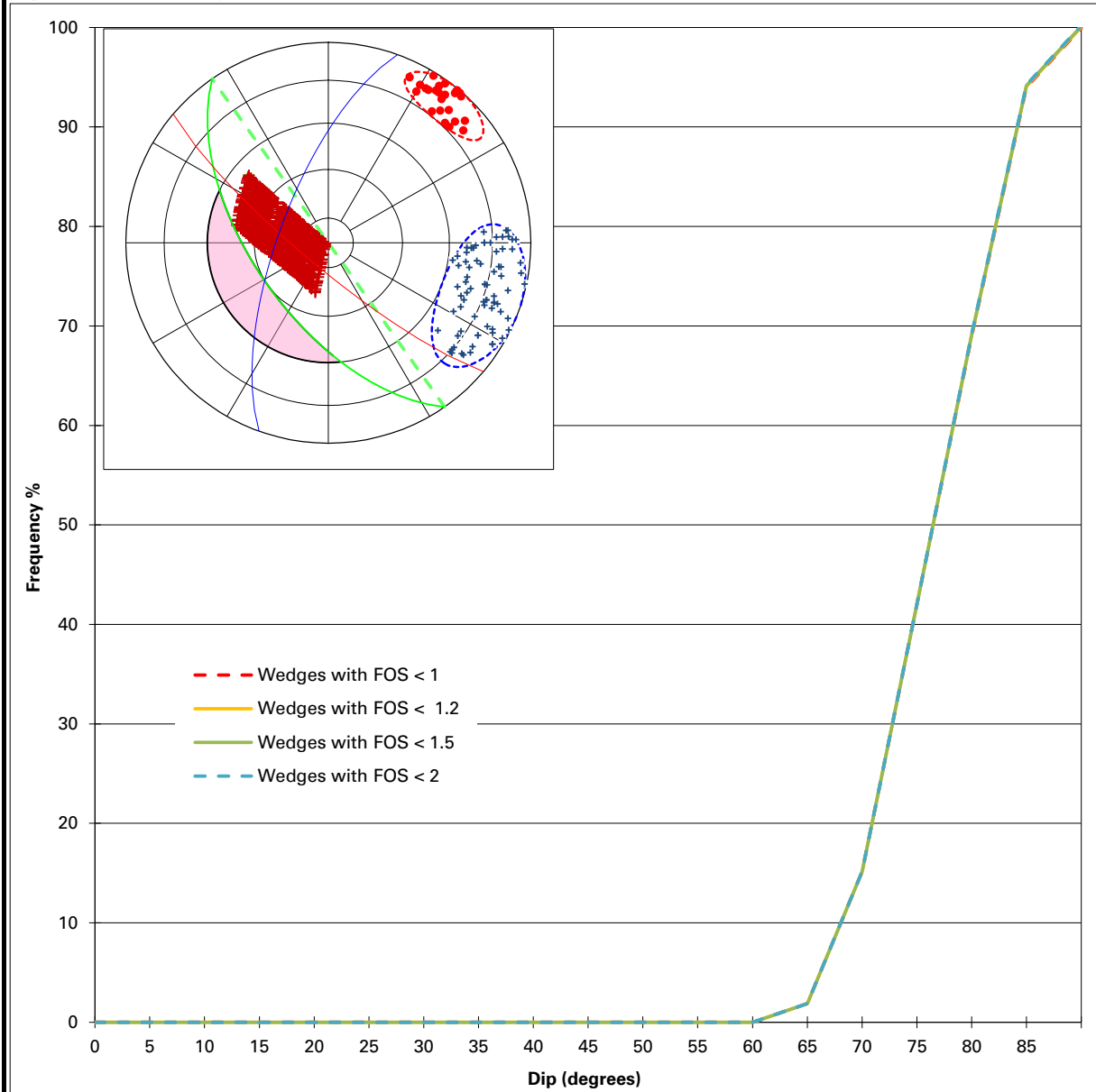
Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window	0
Defects in set SH 1	2
Defect in set & window	0
Defects Dipping out of Slope	7



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 235

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

Number of Unstable Wedges 2347
Number of Wedges Analysed 2449

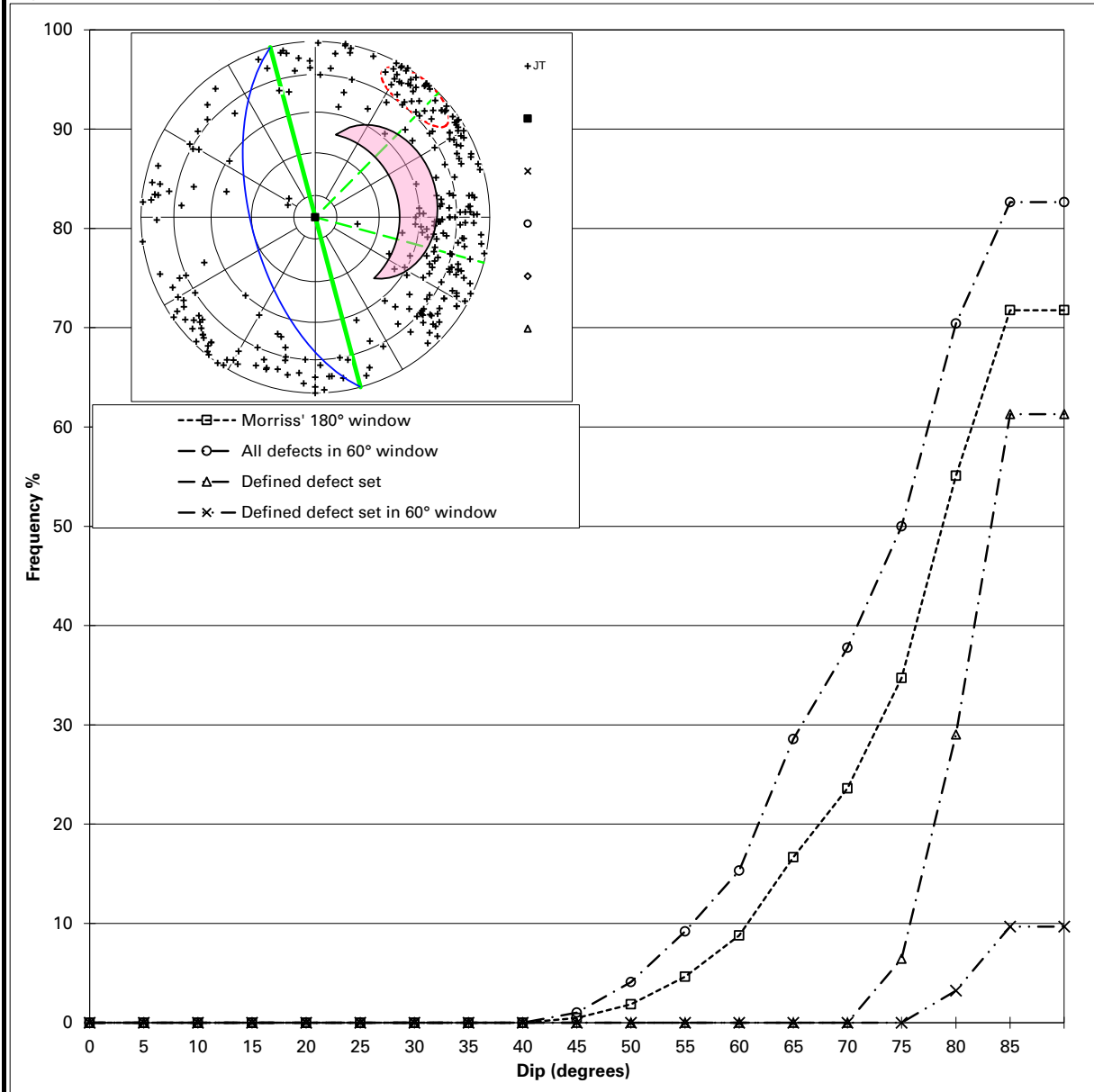
From a possible Total Number of

2449



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 255
Kinematic Window $\pm$ 30

DEFECT SET

JT 2	Mean	$\pm$
Dip	80	10
Dip Direction	220	15

DEFECT SHEAR STRENGTHS

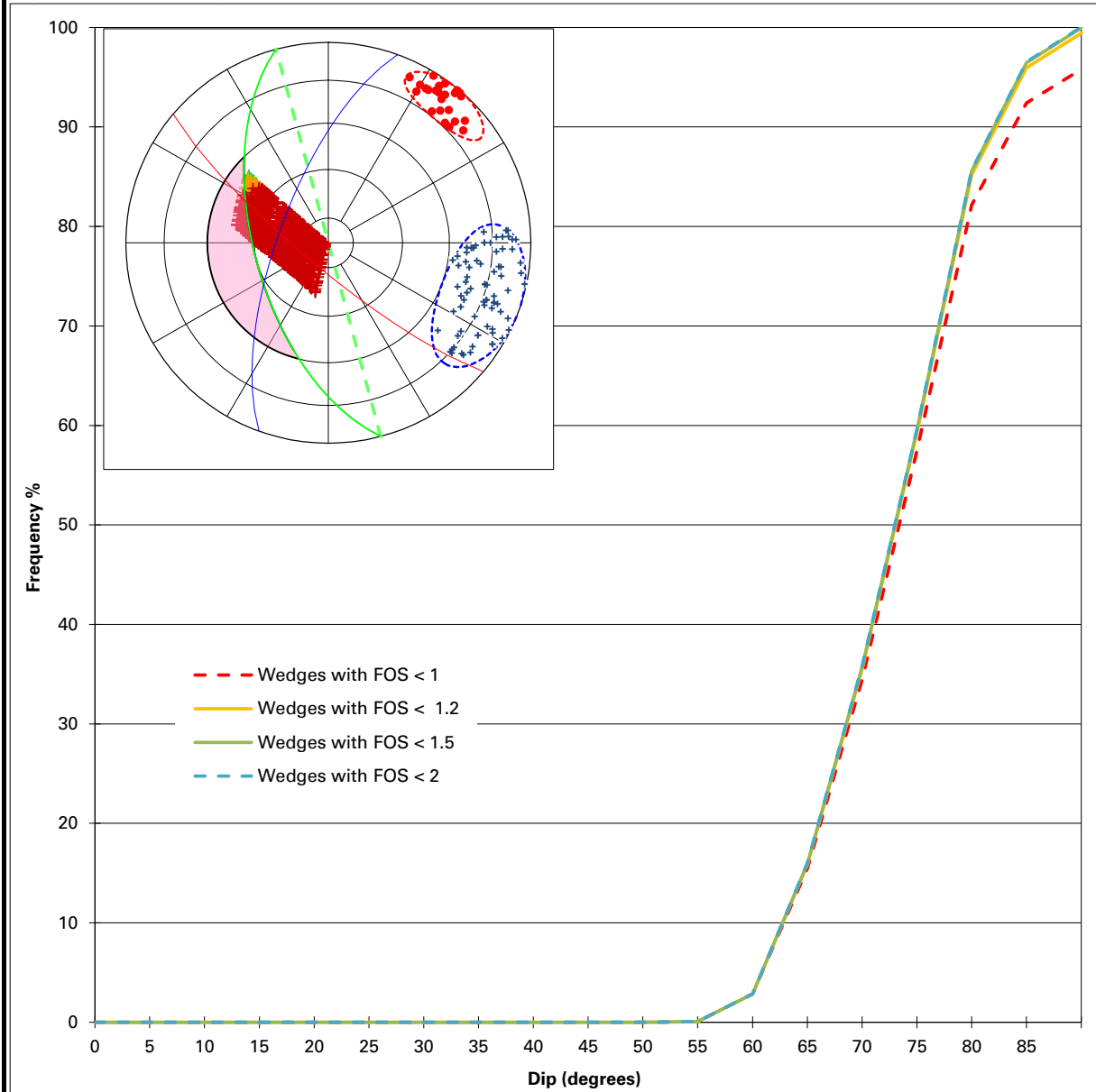
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 97
Defects in set JT 2 31
Defect in set & window 5
Defects Dipping out of Slope 214



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 255

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

Number of Unstable Wedges 2347
Number of Wedges Analysed 2449

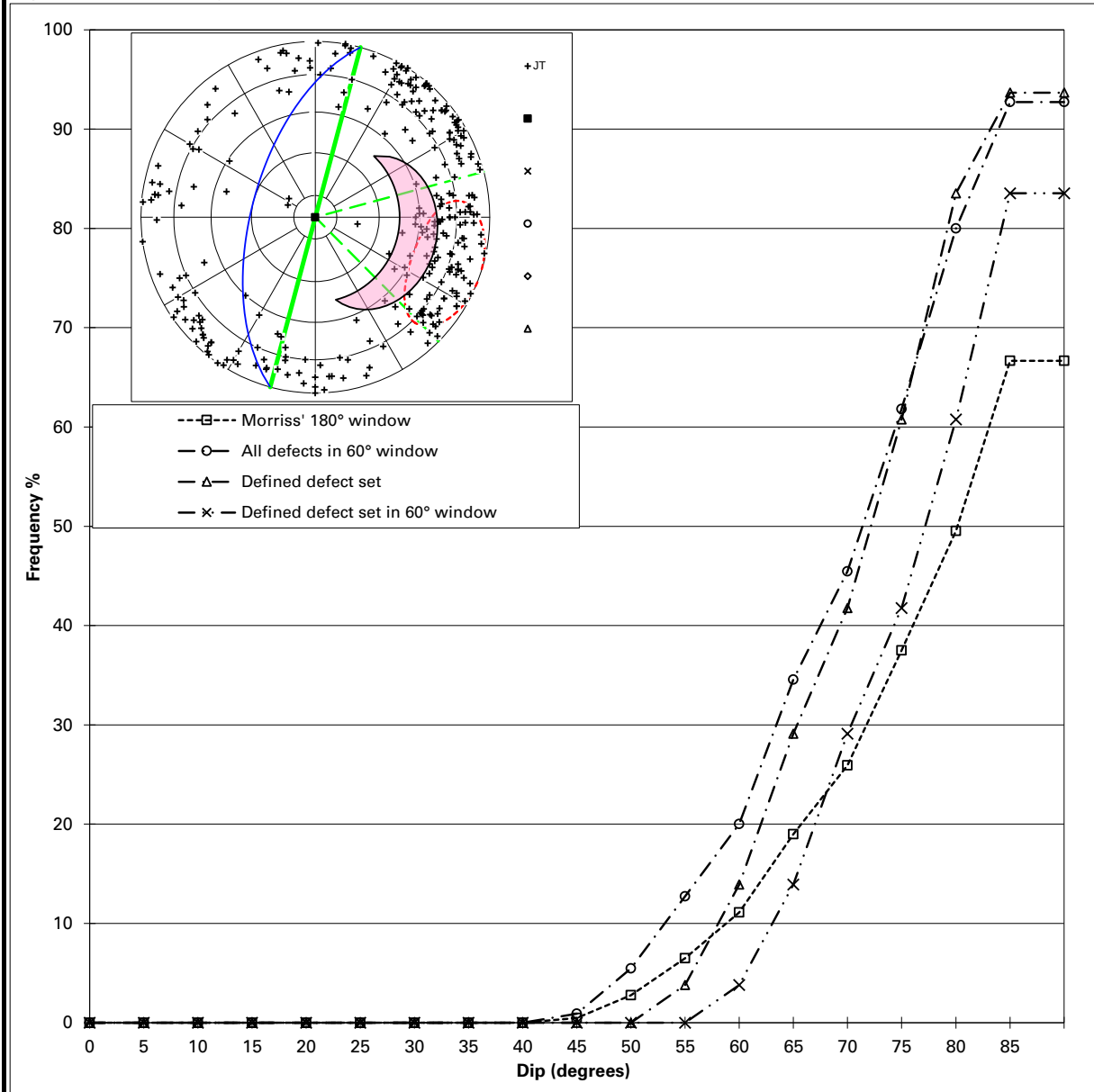
From a possible Total Number of

2449



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 285
Kinematic Window $\pm$ 30

DEFECT SET

JT 3	Mean	$\pm$
Dip	70	20
Dip Direction	290	25

DEFECT SHEAR STRENGTHS

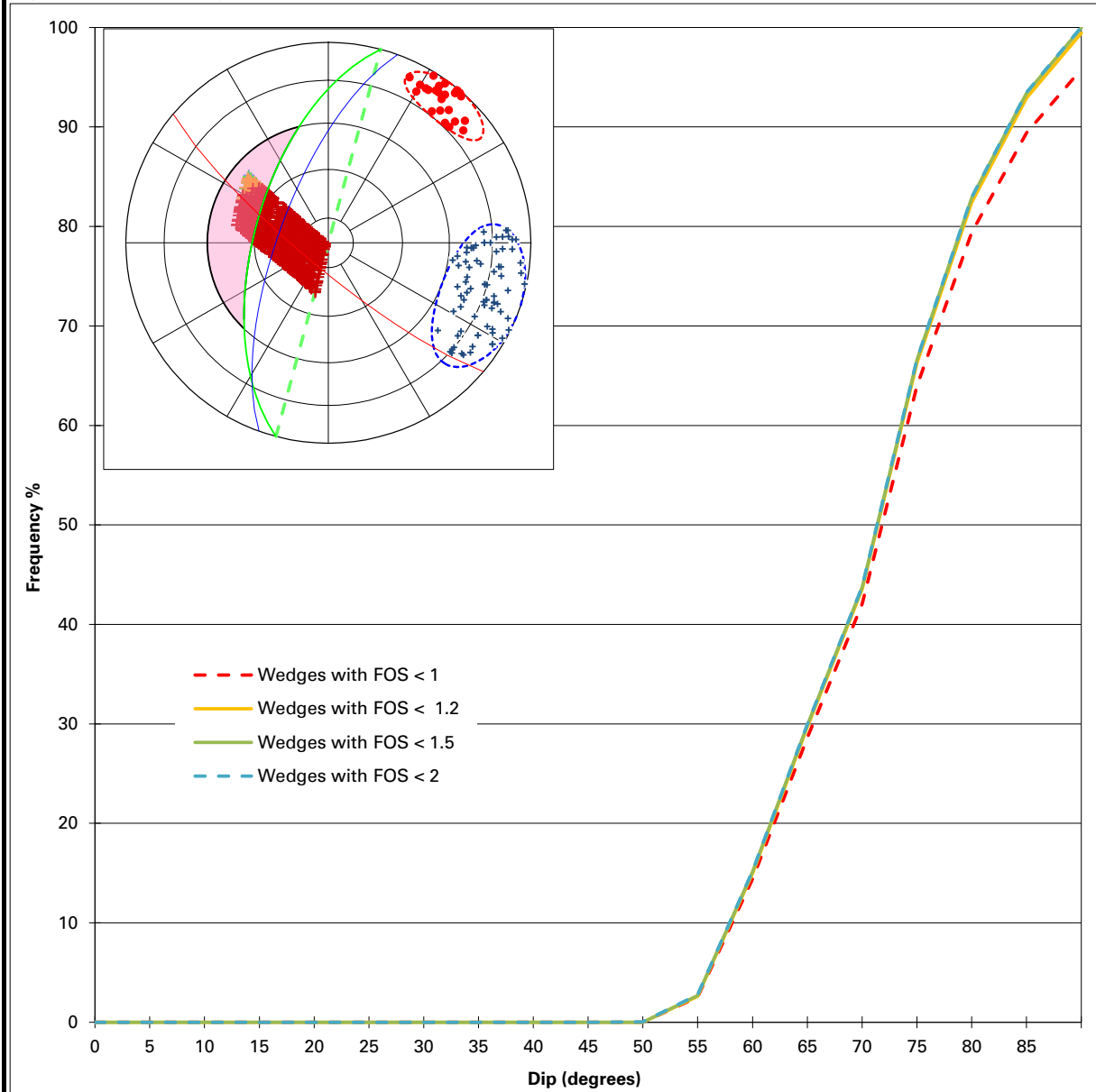
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 108
Defects in set JT 3 79
Defect in set & window 79
Defects Dipping out of Slope 214



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 285

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

Number of Unstable Wedges 2347
Number of Wedges Analysed 2449

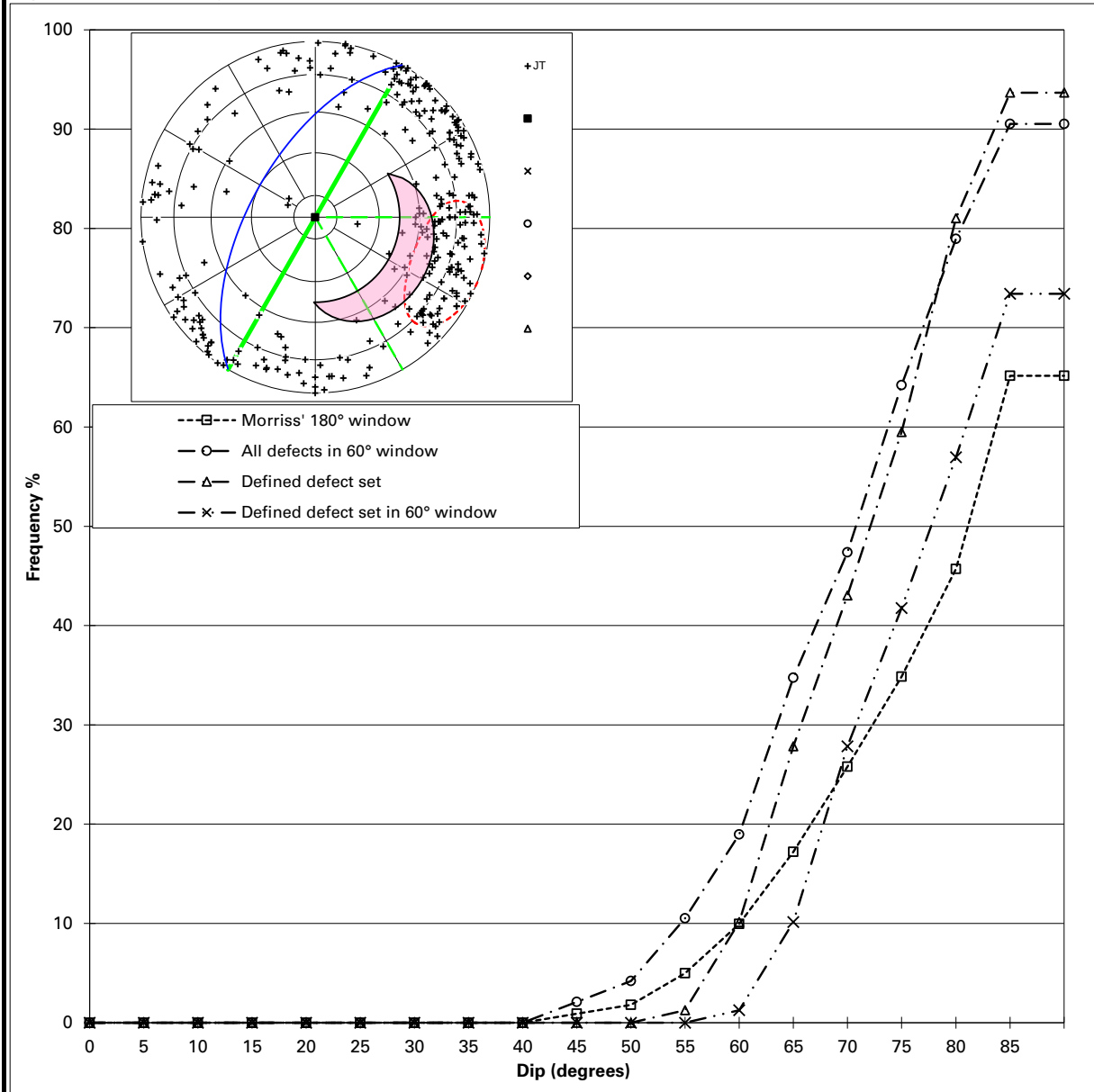
From a possible Total Number of

2449



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 300
Kinematic Window $\pm$ 30

DEFECT SET

JT 3	Mean	$\pm$
Dip	70	20
Dip Direction	290	25

DEFECT SHEAR STRENGTHS

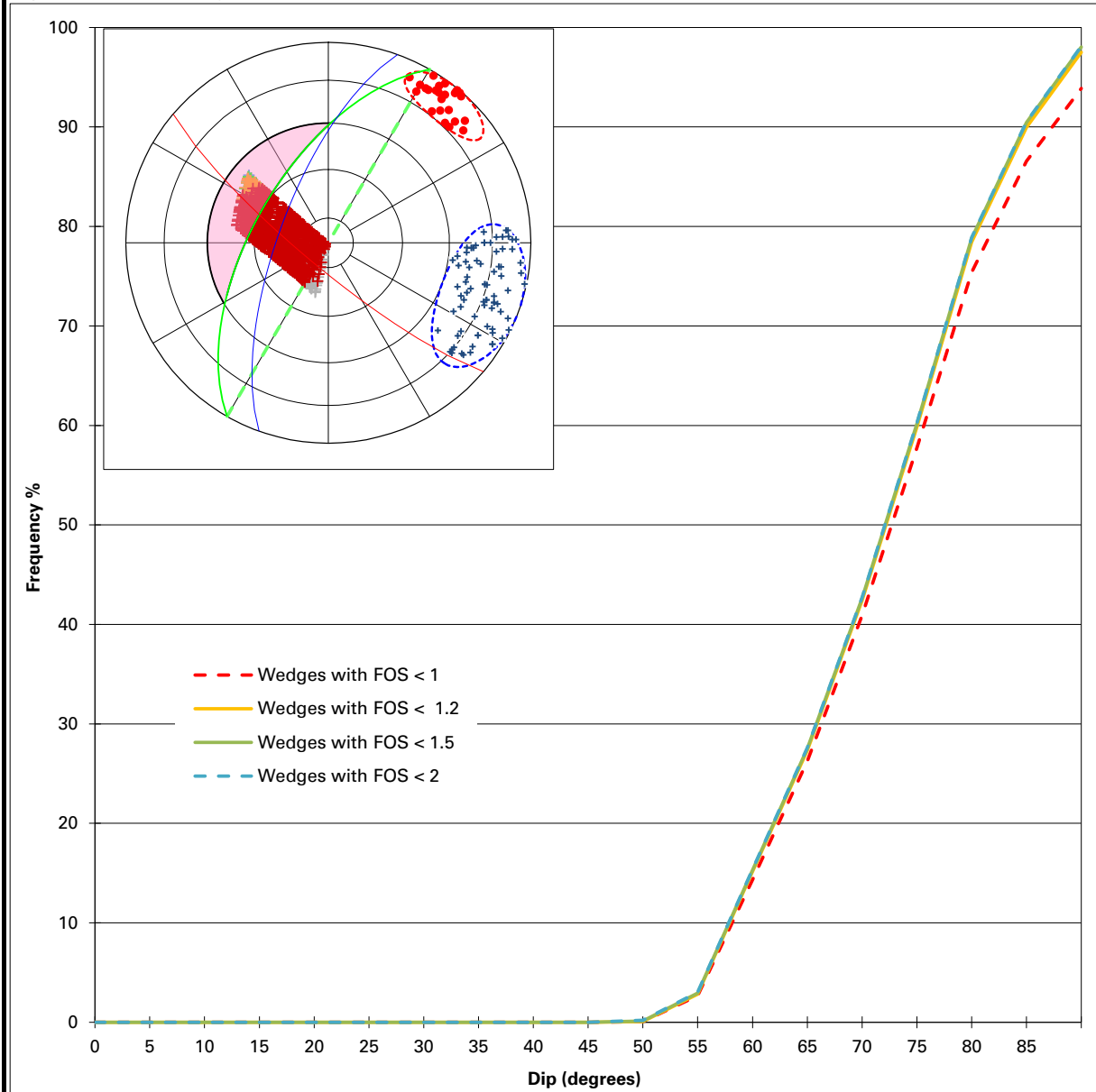
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 93
Defects in set JT 3 79
Defect in set & window 71
Defects Dipping out of Slope 219



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 300

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

Number of Unstable Wedges 2300
Number of Wedges Analysed 2449

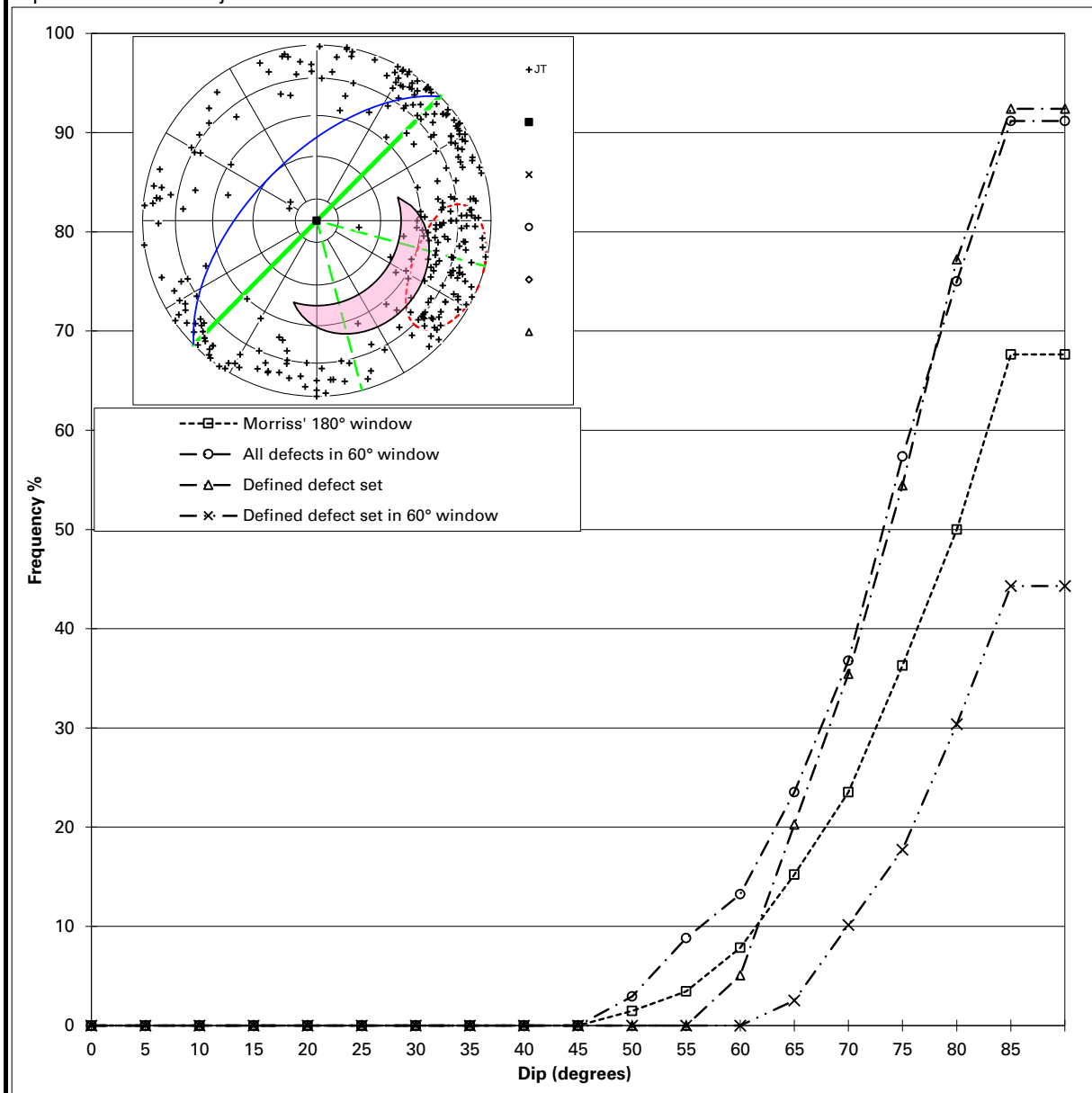
From a possible Total Number of

2449



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 315
Kinematic Window $\pm$ 30

DEFECT SET

JT 3	Mean	$\pm$
Dip	70	20
Dip Direction	290	25

DEFECT SHEAR STRENGTHS

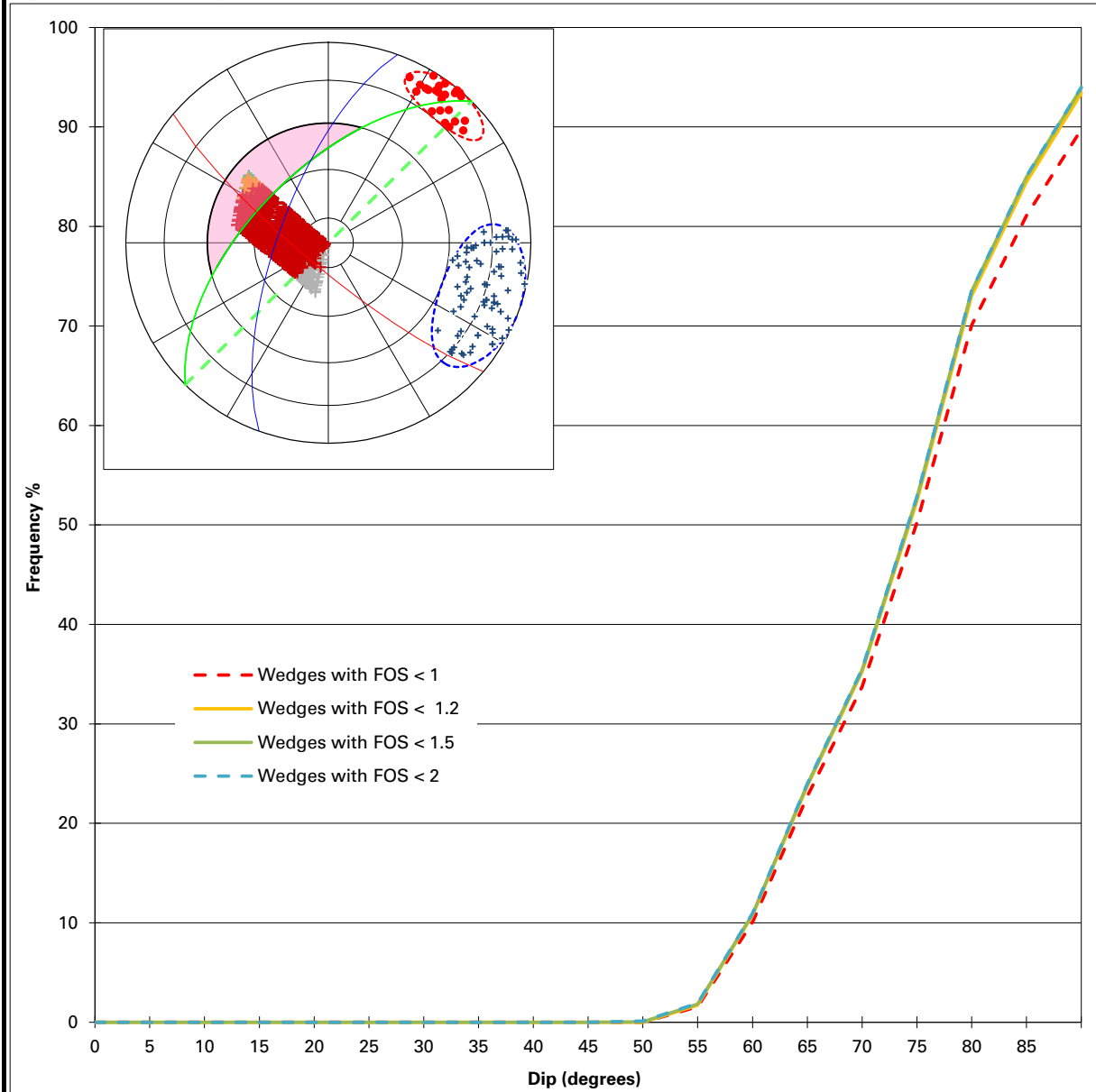
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 67
Defects in set JT 3 79
Defect in set & window 44
Defects Dipping out of Slope 202



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 315

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

Number of Unstable Wedges 2199
Number of Wedges Analysed 2449

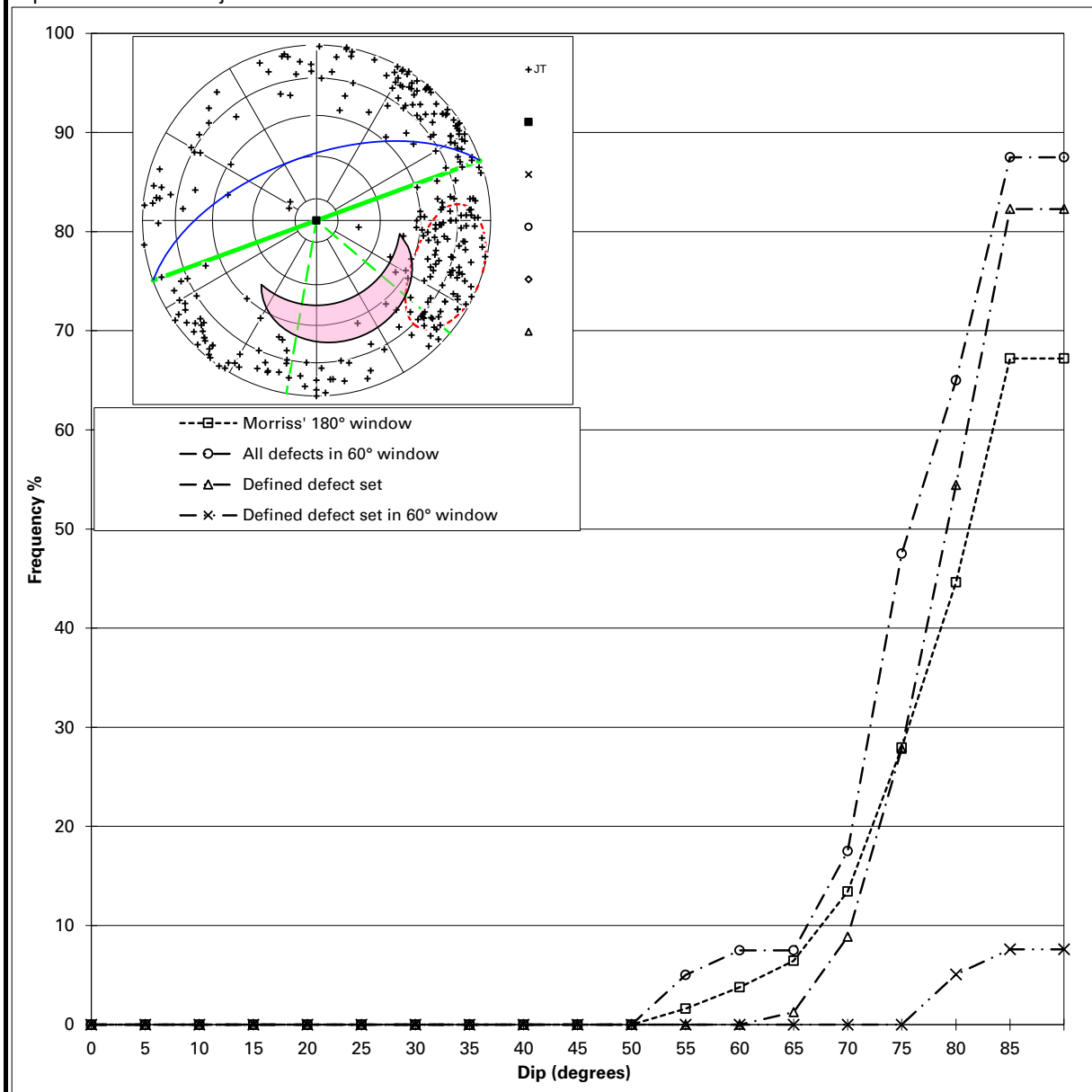
From a possible Total Number of

2449



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 340
Kinematic Window $\pm$ 30

DEFECT SET

JT 3	Mean	$\pm$
Dip	70	20
Dip Direction	290	25

DEFECT SHEAR STRENGTHS

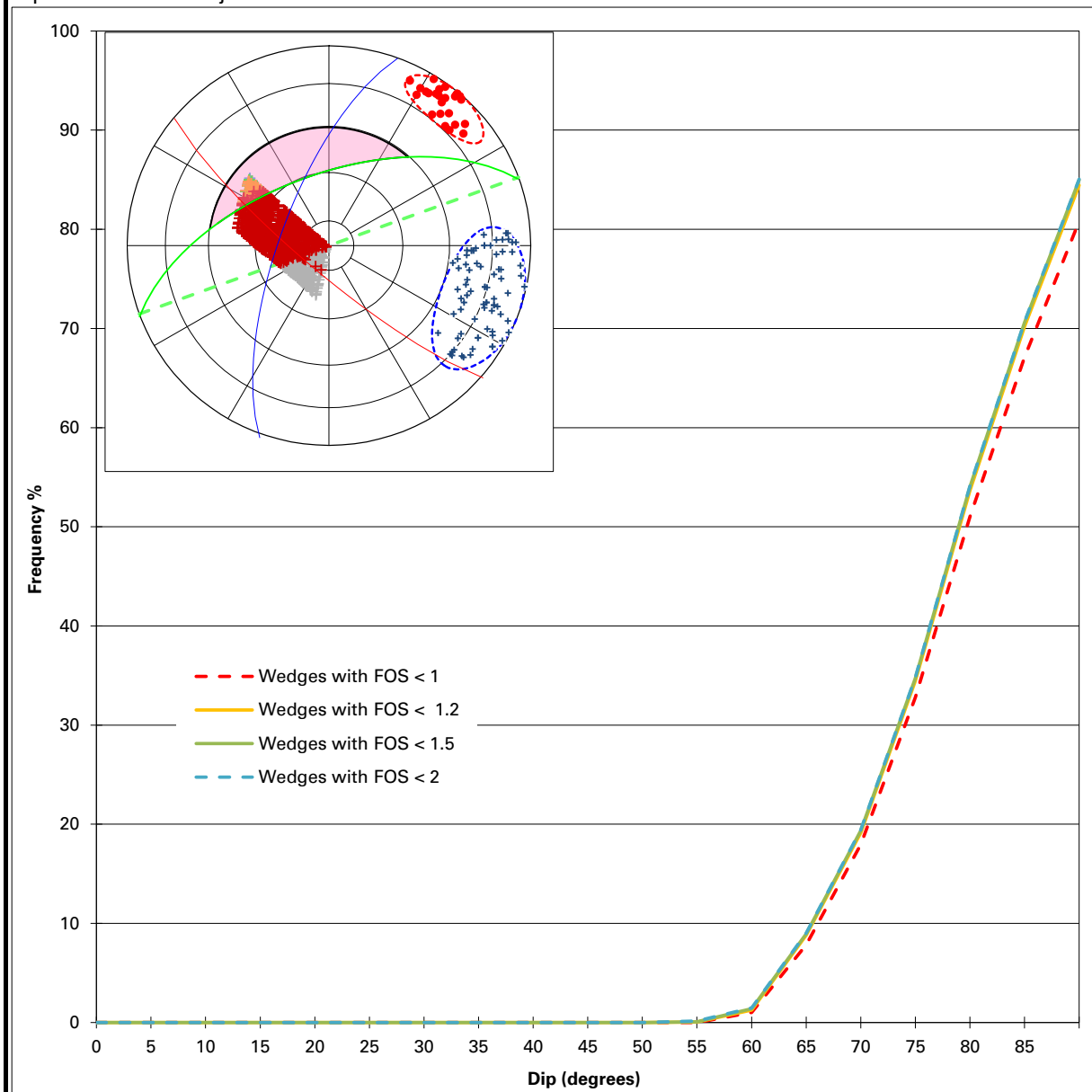
Cohesion = 0 kPa
Friction Angle = 40°

Defects in kinematic window 40
Defects in set JT 3 79
Defect in set & window 6
Defects Dipping out of Slope 184



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 340

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3 79

Number of Unstable Wedges 1980
Number of Wedges Analysed 2449

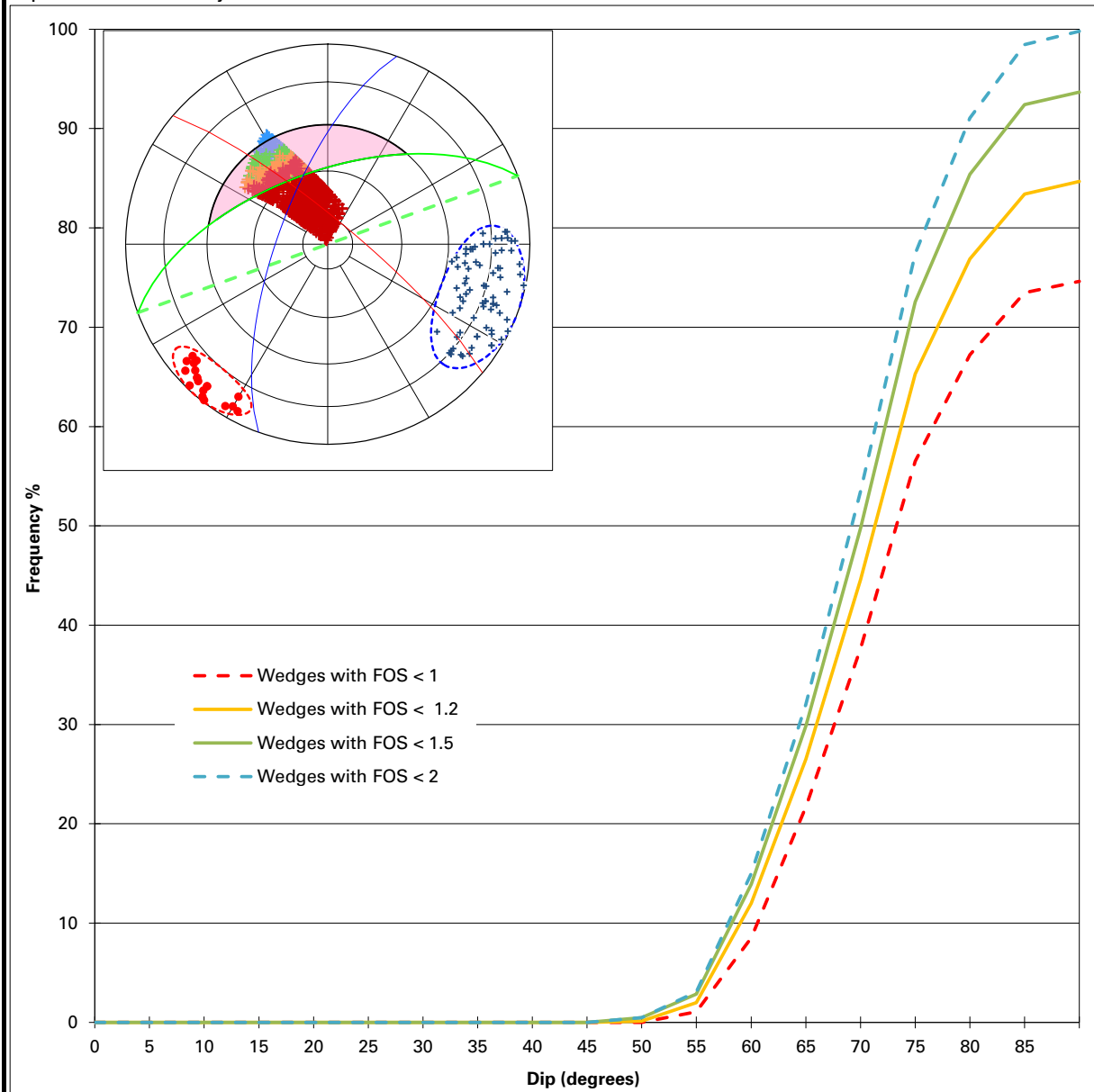
From a possible Total Number of

2449



WEDGE FAILURE

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 340

FIRST SET - RED

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

Defects in set JT 1

19

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

Defects in set JT 3

79

Number of Unstable Wedges 1121
Number of Wedges Analysed 1501

From a possible Total Number of

1501



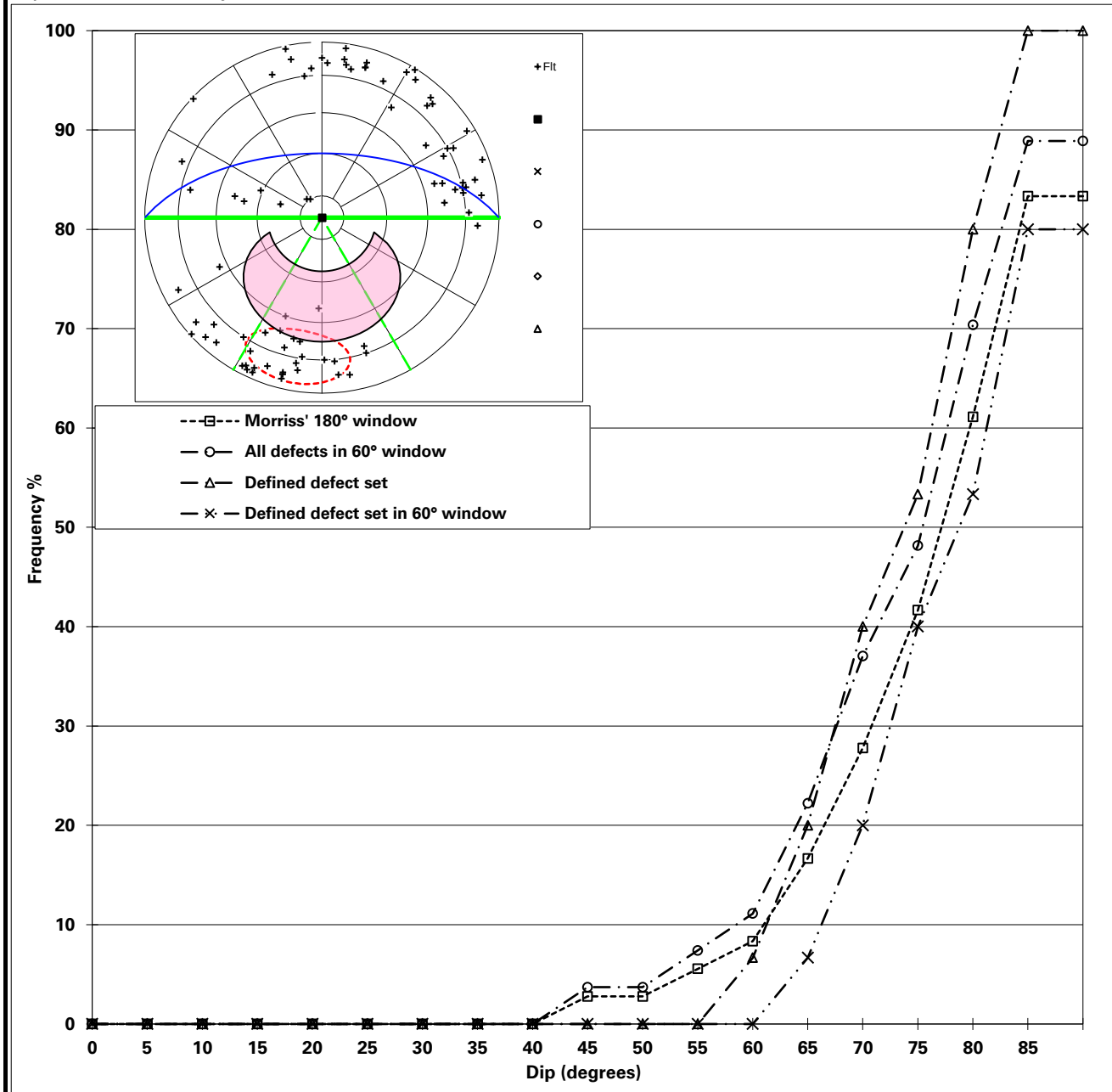
Appendix C

Golden Bar Stage 2 Probability of Undercutting Plots



PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction 000
Kinematic Window ± 30

DEFECT SET

FT8	Mean	±
Dip	70	15
Dip Direction	10	20

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 25°

Defects in kinematic window	27
Defects in set TV8	15
Defect in set & window	15
Defects Dipping out of Slope	36

