70400E
70600E
70800E
71000E
6600N
6400N
6200N
6000N
5800N
5600N
5400N

RCD3345
RCD3344
RCD2980
RCD2979
RCD2978
RCD2982
RCD2981
RCD2731
RCD2887
RCD2888
RCD4224
RCD4225
RCD2889
RCD4284
RCD2890
RCD4226
RCD4287
RCD4286
RCD2983
RCD2988
RCD2885
RCD4288
RCD2984
RCD2886

Section 1
Section 2
Section 3

LEGEND

GB2 MP4 Pit
GB1 Pit
WRS
RCD2285 Borehole Locations
Section Locations

0 50 100 150 200
Scale (m)

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

PSM71-287R | Figure 3

RL600m

RL500m

RL400m

RL300m

Original Topography

Proposed GB2 pit shell

Previously mined Golden Bar pit shell

Base of weathering

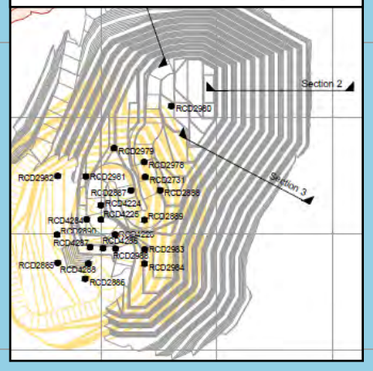
Class C halo around large-scale faults

HWS

Potential “Fault B” identified in aerial photography

Assumed rock mass boundary
base on exploration borehole data

Stabitlity Section 2 - Facing North



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

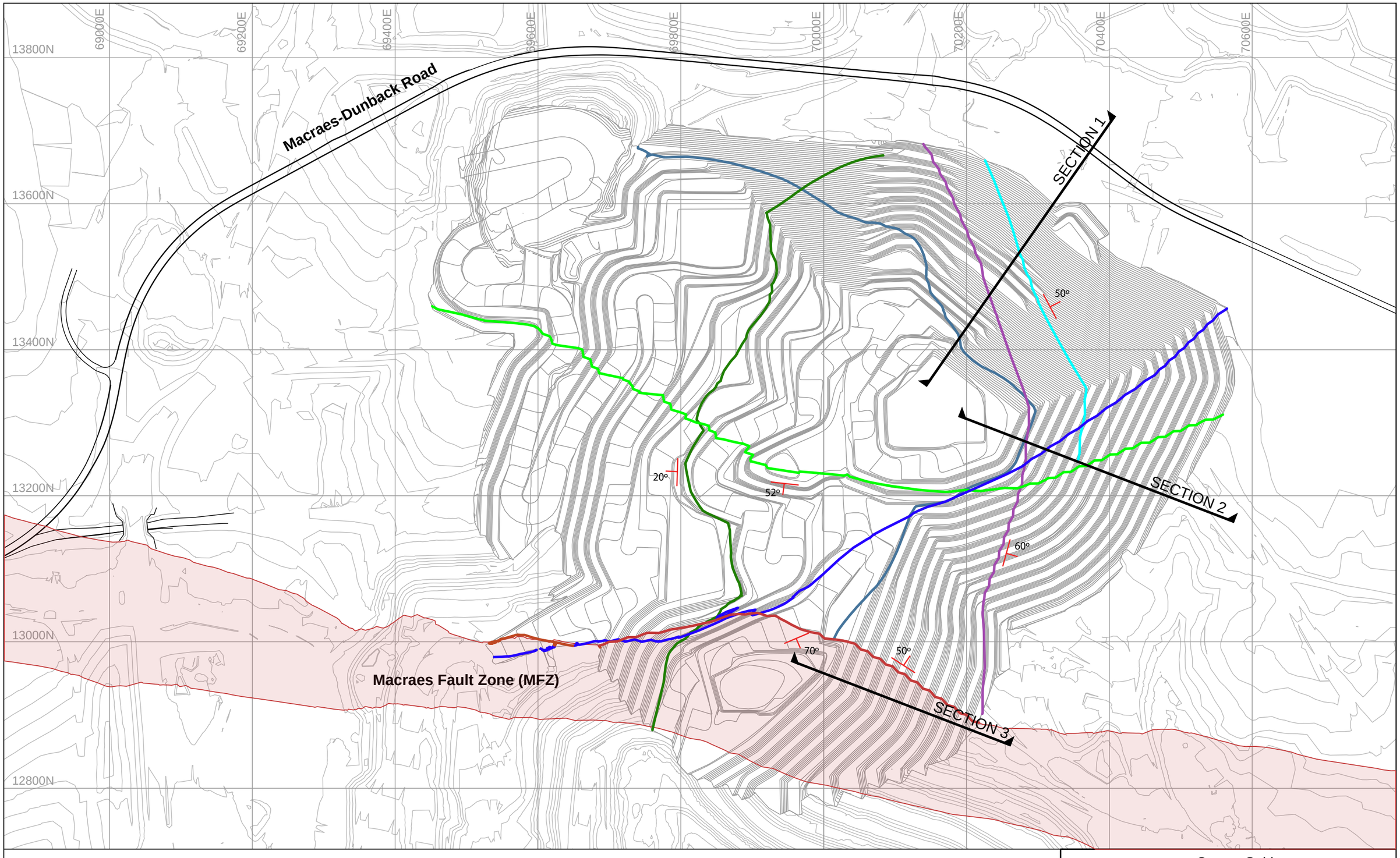
- Major Fault & Shear
- Secondary Fault & Shear

5850N

0 50 100
Scale (m)

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 (50)
- 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)

PSM

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

PSM071- 287R | Figure 5

69000E 69200E 69400E 69600E 69800E 70000E 70200E 70400E 70600E

13800N 13600N 13400N 13200N 13000N 12800N

SD3

SD2

SD1

SD4

185°

210°

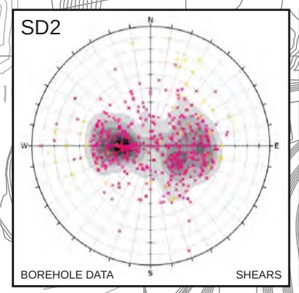
300°

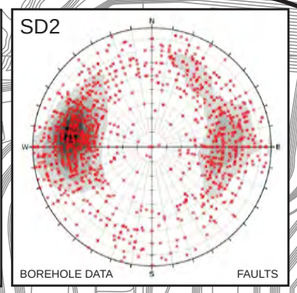
105°

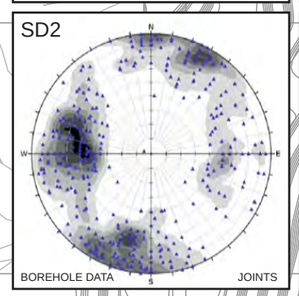
340°

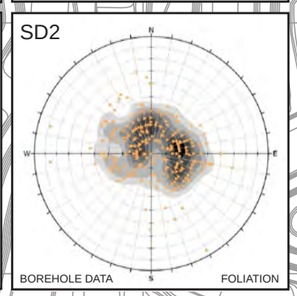
290°

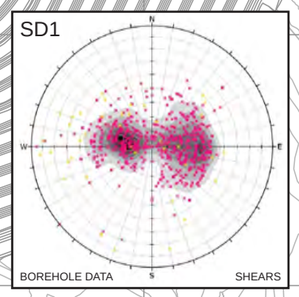
320°

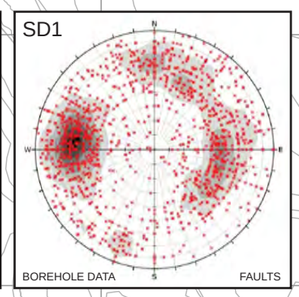


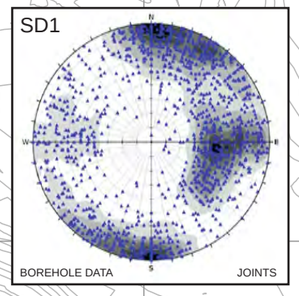


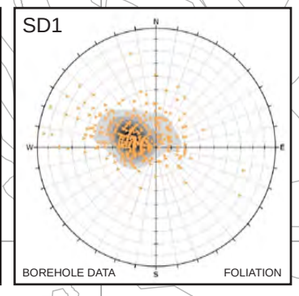


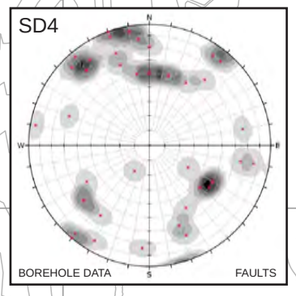


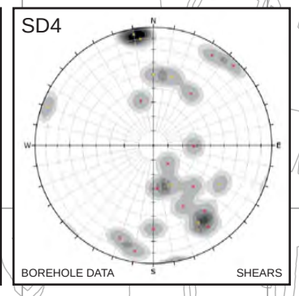


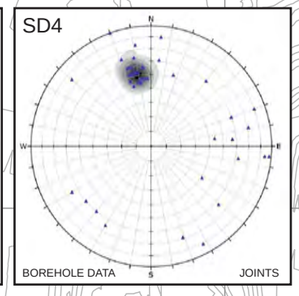


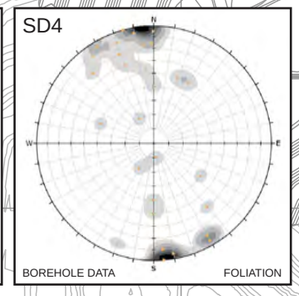












LEGEND

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

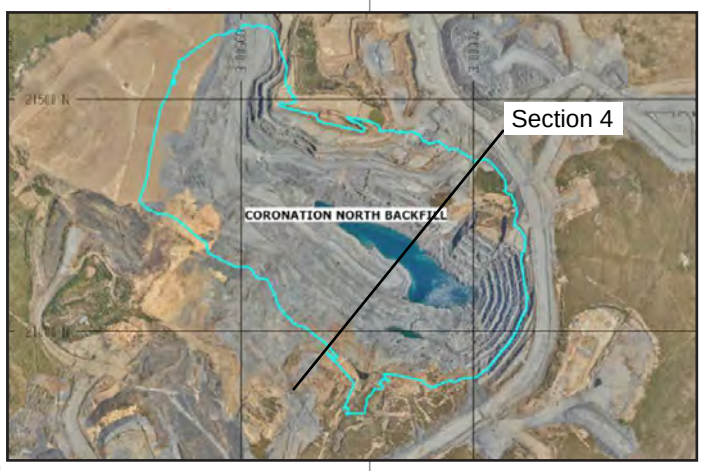
0 50 100 150 200

Scale (m)

P S M

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

PSM071- 287R | Figure 6

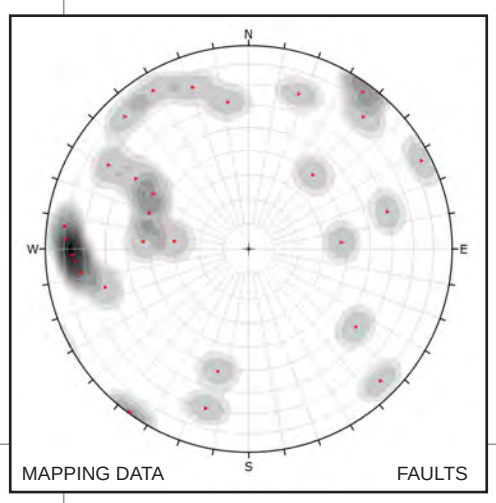


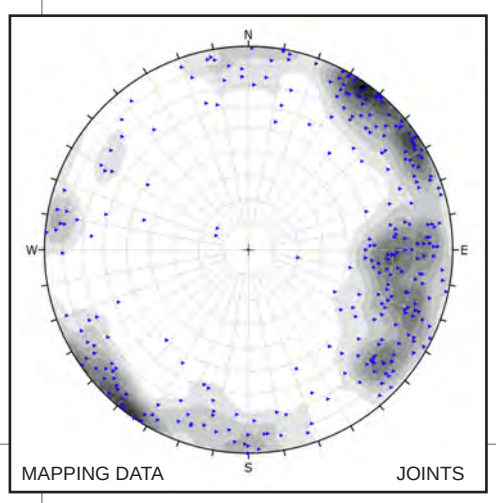
20000N
19800N
19600N
19400N
19200N

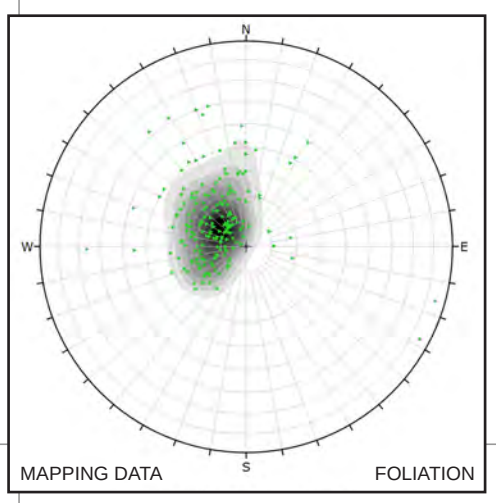
69800E
70000E
70200E
70400E

85º
58º
65º
50º
50º
50º
78º
50º

Section 1
Section 2
Section 3







LEGEND

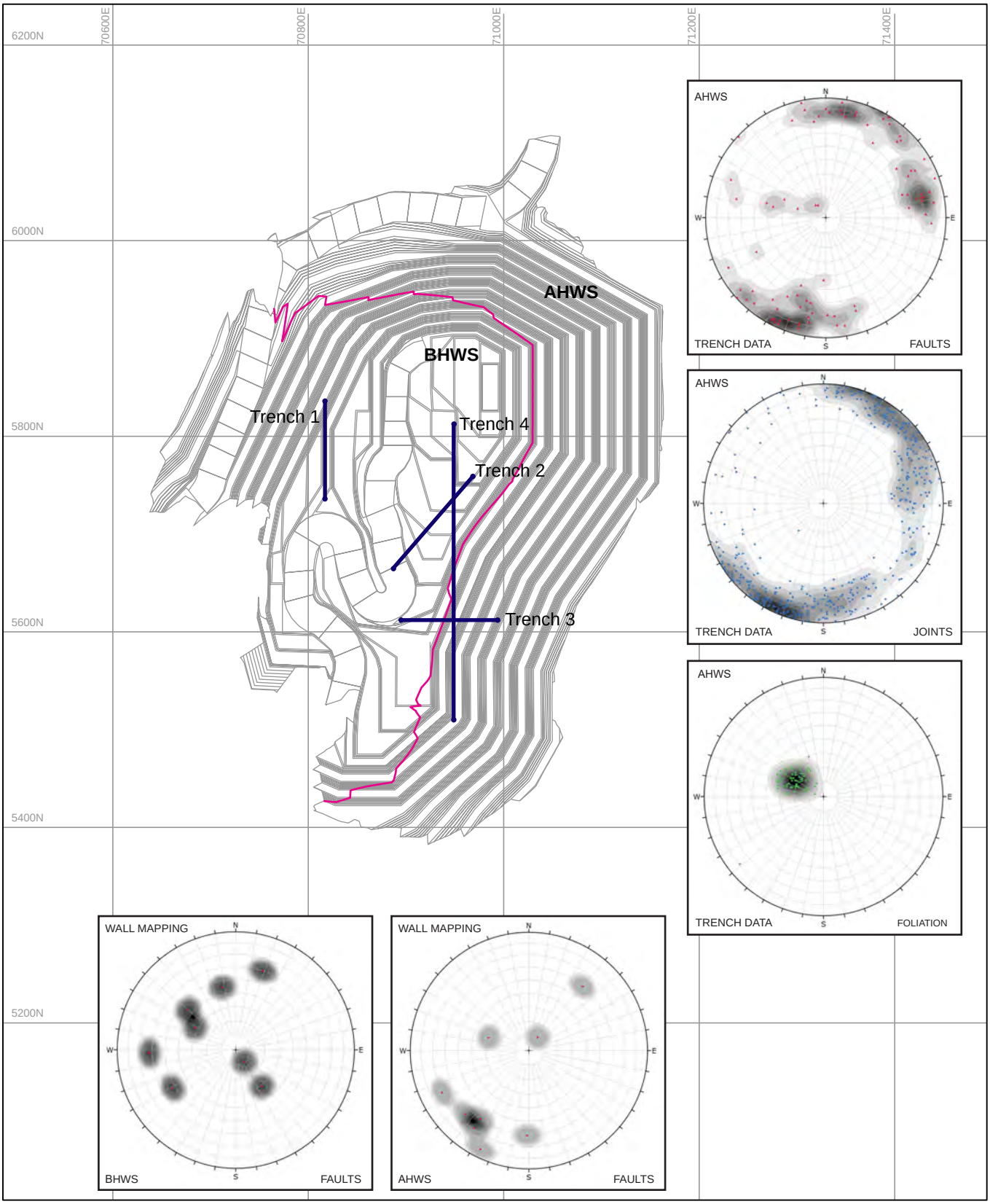
- C06 MP4 Pit
- Hanging Wall Shear
- Fault A
- Fault B
- Extrapolated Faults
- 50 Dip / Dip Direction
- Stability Section Line

0 50 100 150 200

Scale (m)

OceanaGold
Macraes Phase 4 Consenting Application
Macraes Flat, East Otago
Coronation Stage 6
STRUCTURAL PLAN & STABLITY SECTION LINES

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

70600E
70800E
71000E
71200E
71400E
6400N
6200N
6000N
5800N
5600N
5400N
5200N
5200N
FAULT A
FAULT B
GOLDEN BAR ROAD

LEGEND

GB02 MP4 Pit

Waste Rock Stack

Geomorphological Surface Lineament

Potential Surface Lineament

0 50 100 150 200

Scale (m)

P S M

OceanaGold

Macraes Phase 4 Consenting Application

Macraes Flat, East Otago

GOLDEN BAR STAGE 2

AERIAL PHOTOGRAPHY

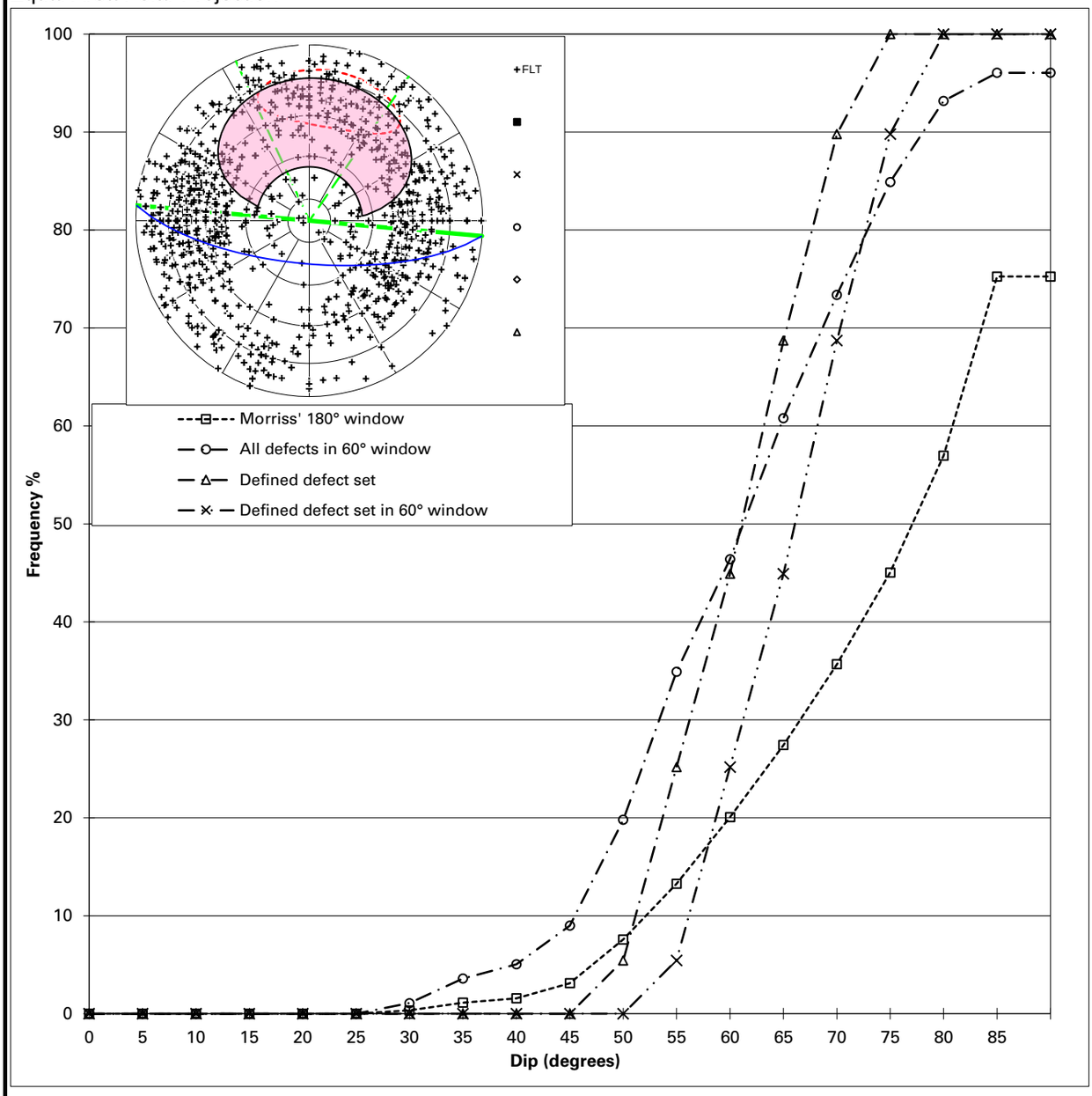
PSM71-287R

Figure 9

Appendix A
Innes Mills Probability of Undercutting Plots

PLANAR SLIDING

Equal Area Polar Projection



PARAMETERS OF THE PIT WALL

Slope Direction	185
Kinematic Window ±	30

DEFECT SET

FT2	Mean	±
Dip	60	15
Dip Direction	190	30

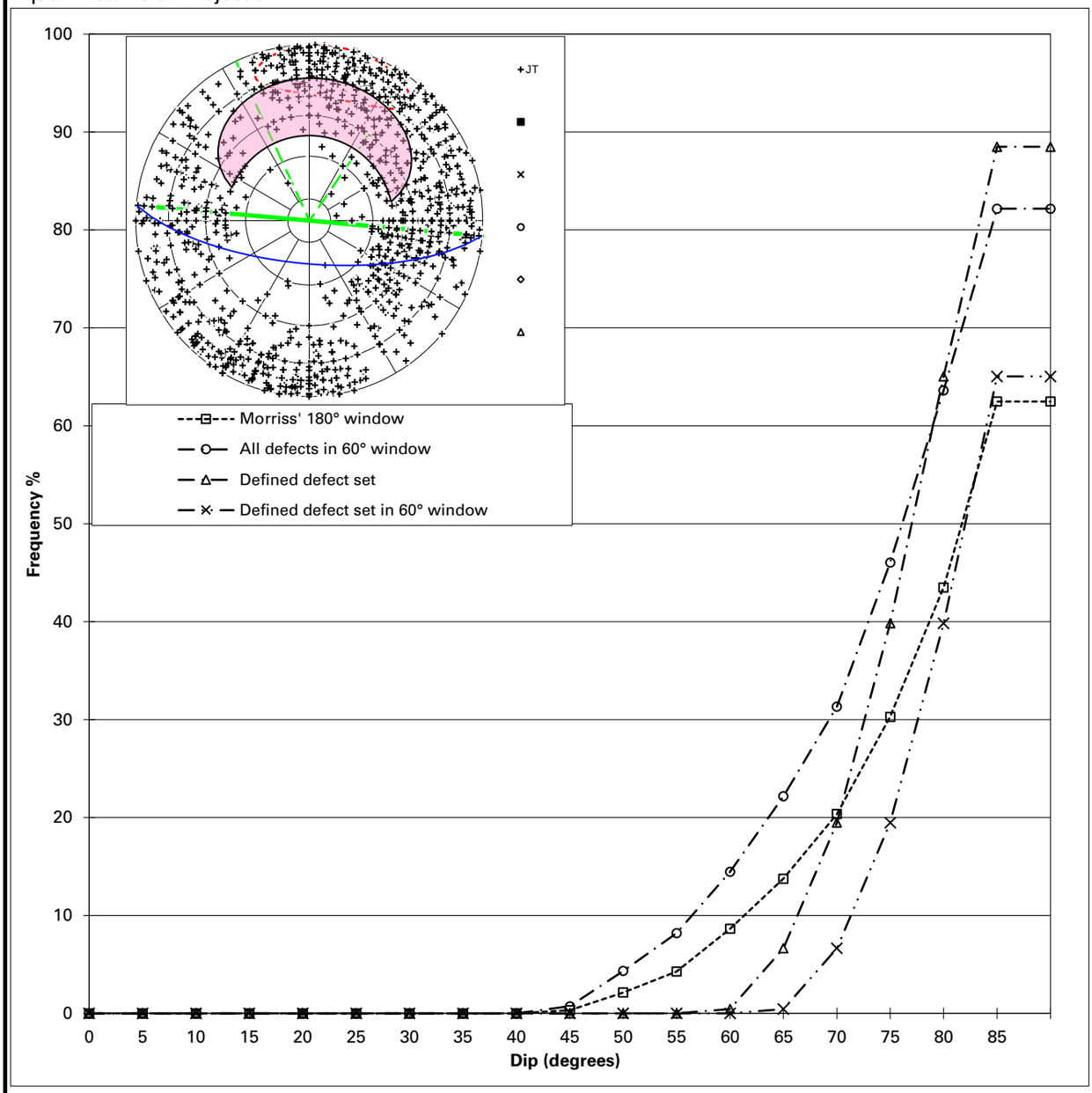
DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	25°

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 ±	30

DEFECT SET

JN2	Mean	±
Dip	75	15
Dip Direction	190	30

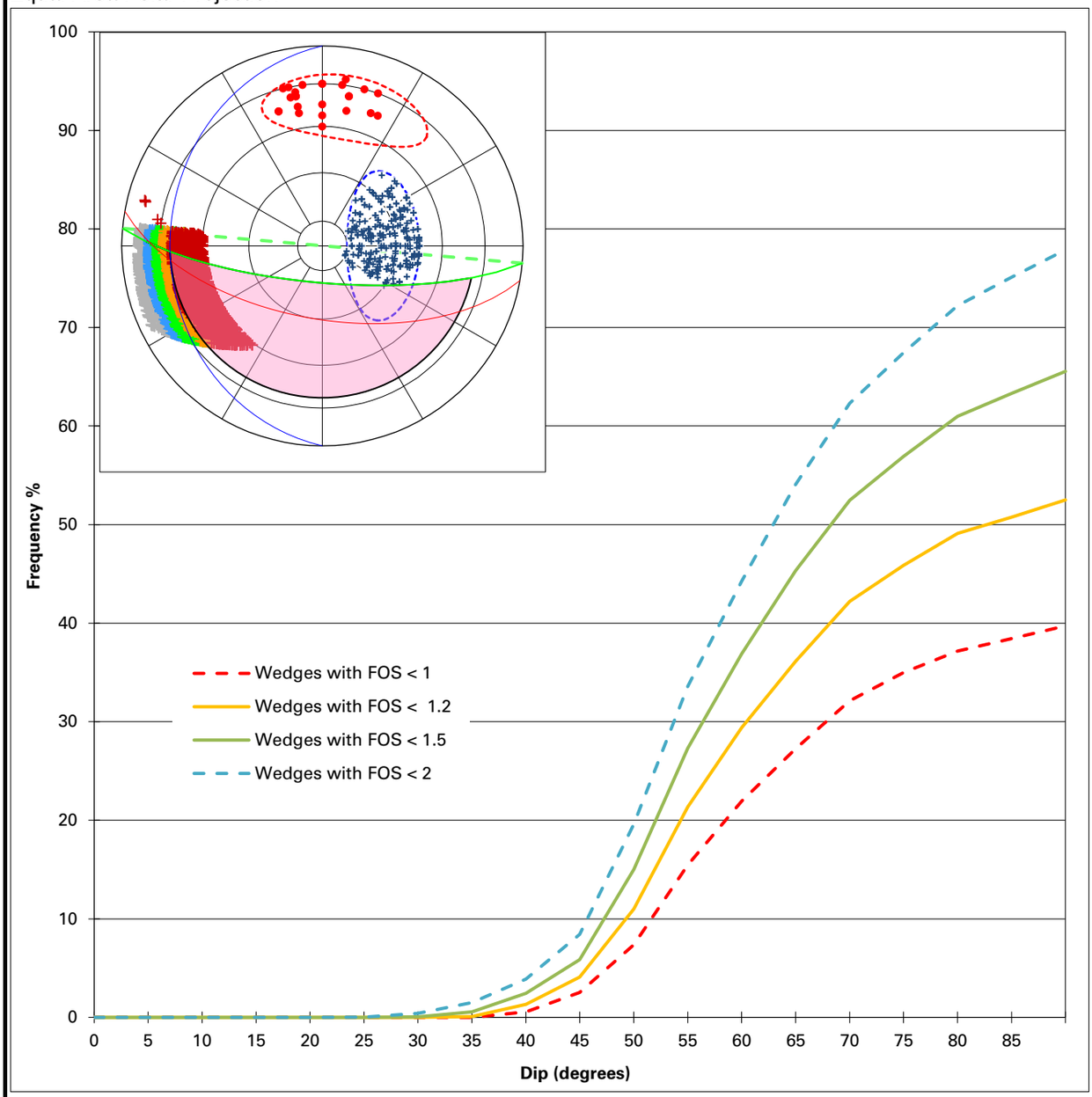
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	25°

FIRST SET - RED

FT2	Mean	±
Dip	60	15
Dip Direction	190	30
Defects in set FT2		147

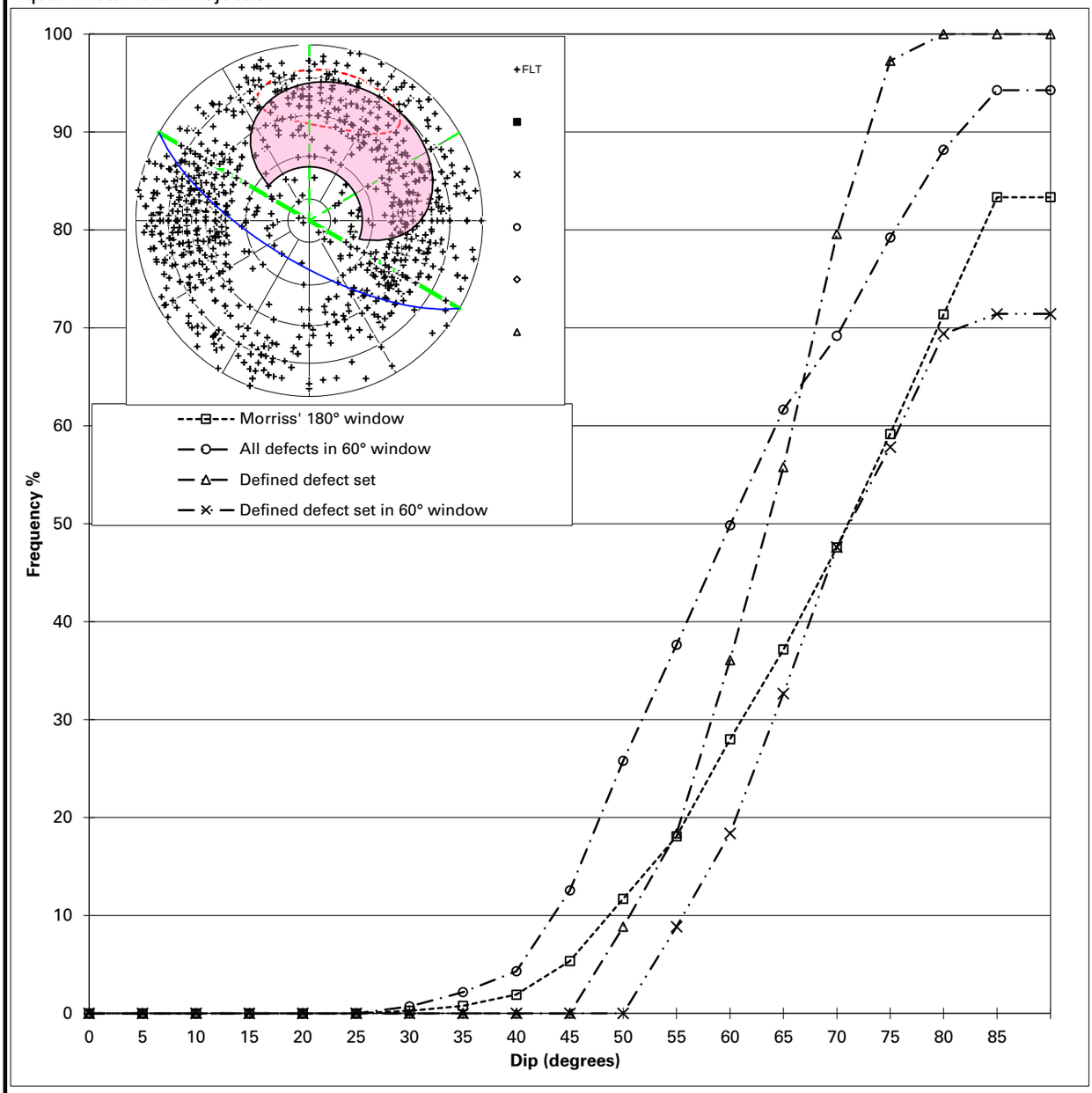
SECOND SET - BLUE

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 ±	30

DEFECT SET

FT2	Mean	±
Dip	60	15
Dip Direction	190	30

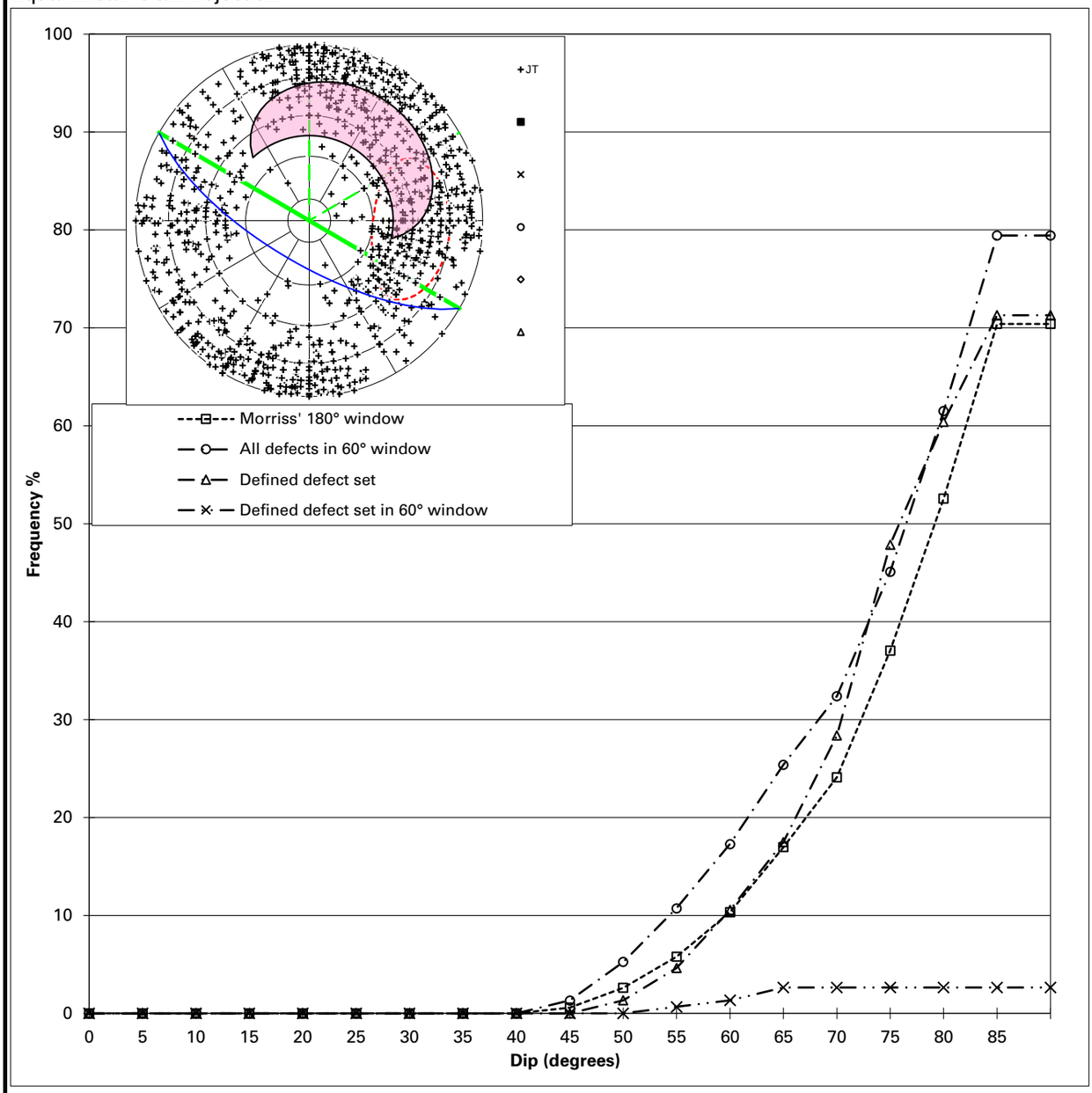
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

JN1	Mean	±
Dip	50	20
Dip Direction	275	30

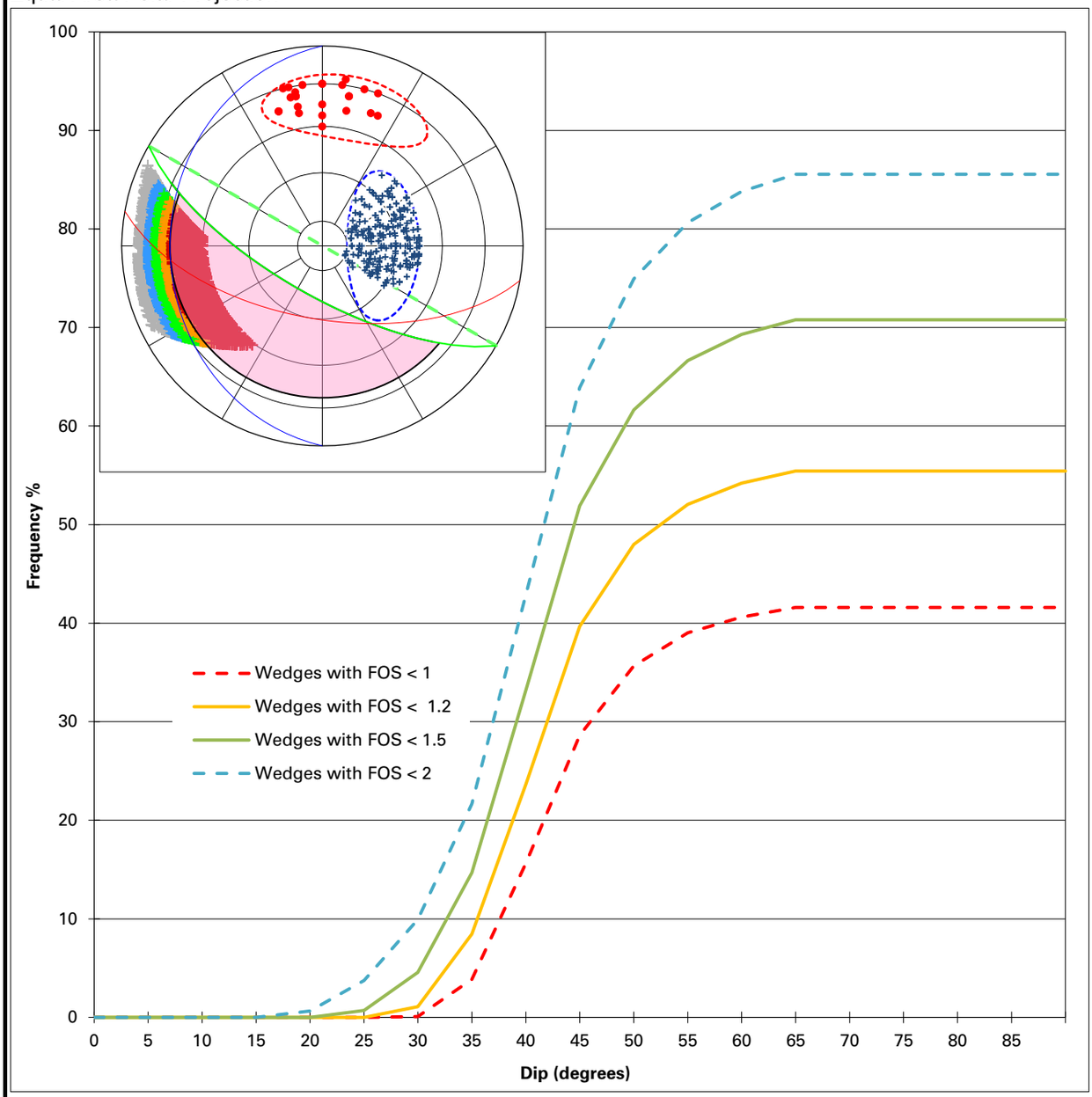
DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	40°

Defects in kinematic window	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

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	25°

FIRST SET - RED

FT2	Mean	±
Dip	60	15
Dip Direction	190	30
Defects in set FT2		147

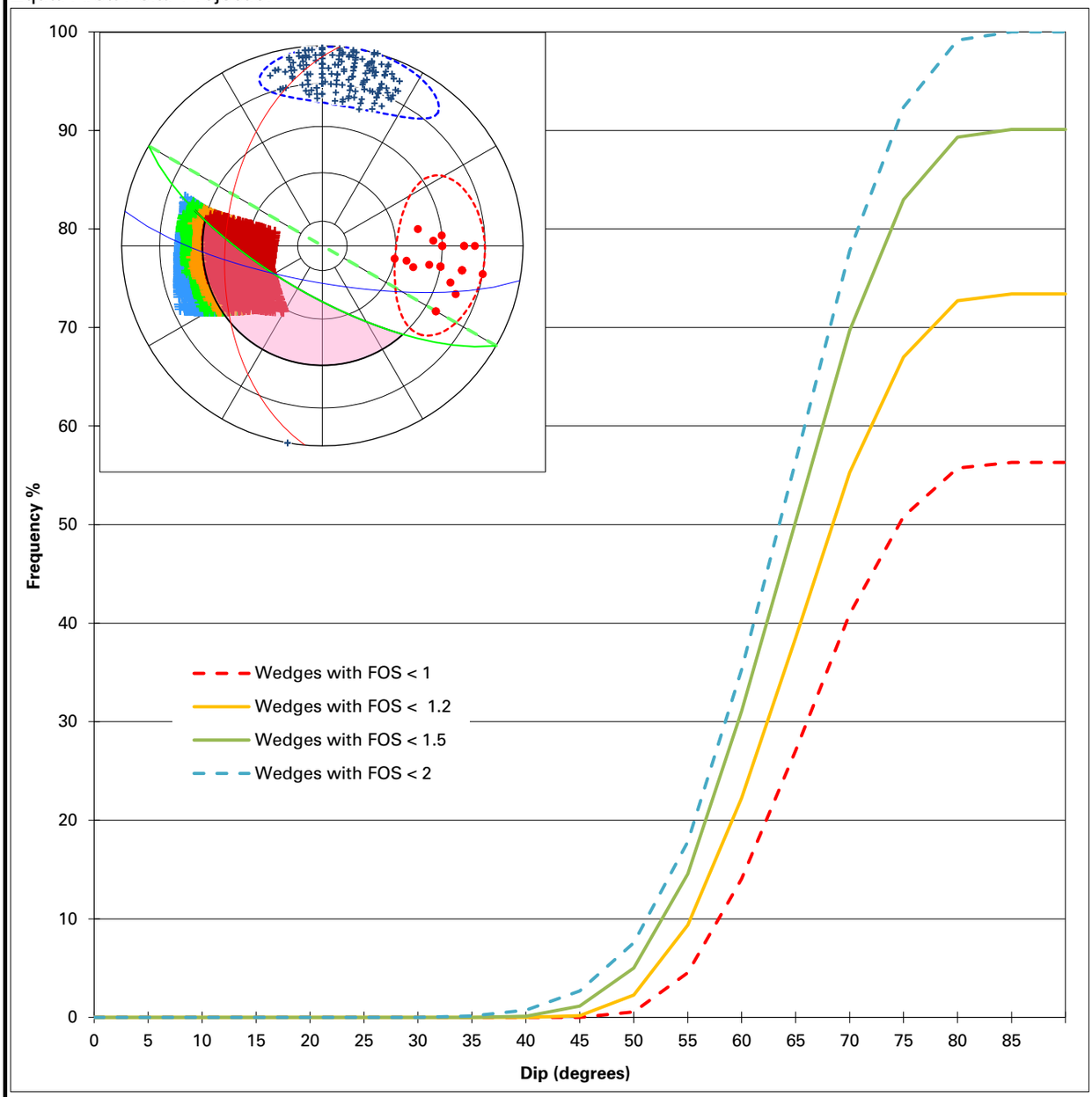
SECOND SET - BLUE

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

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	40°

FIRST SET - RED

JN1	Mean	±
Dip	50	20
Dip Direction	275	30
Defects in set JN1	303	

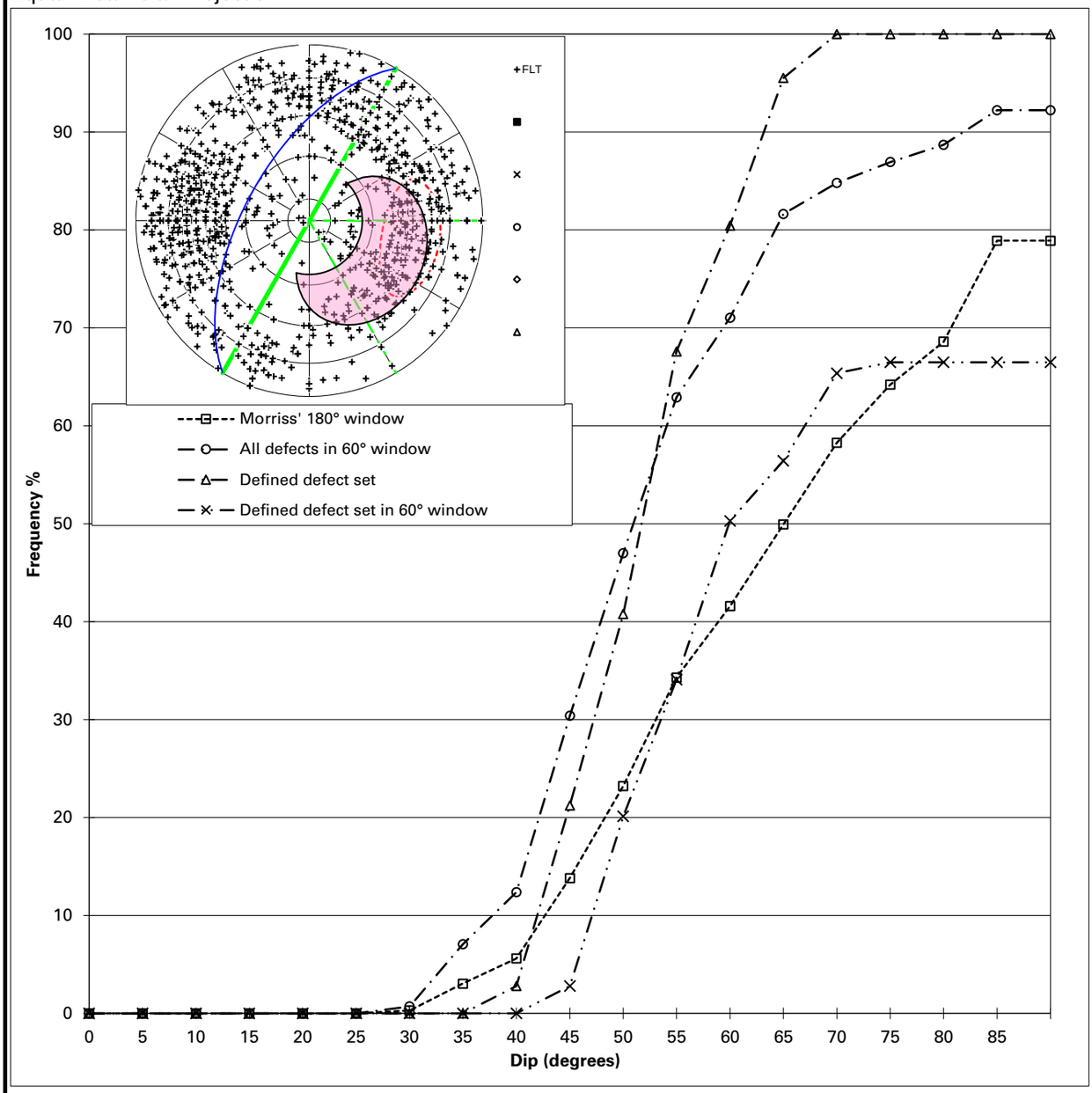
SECOND SET - BLUE

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 ±	30

DEFECT SET

FT1	Mean	±
Dip	50	15
Dip Direction	280	25

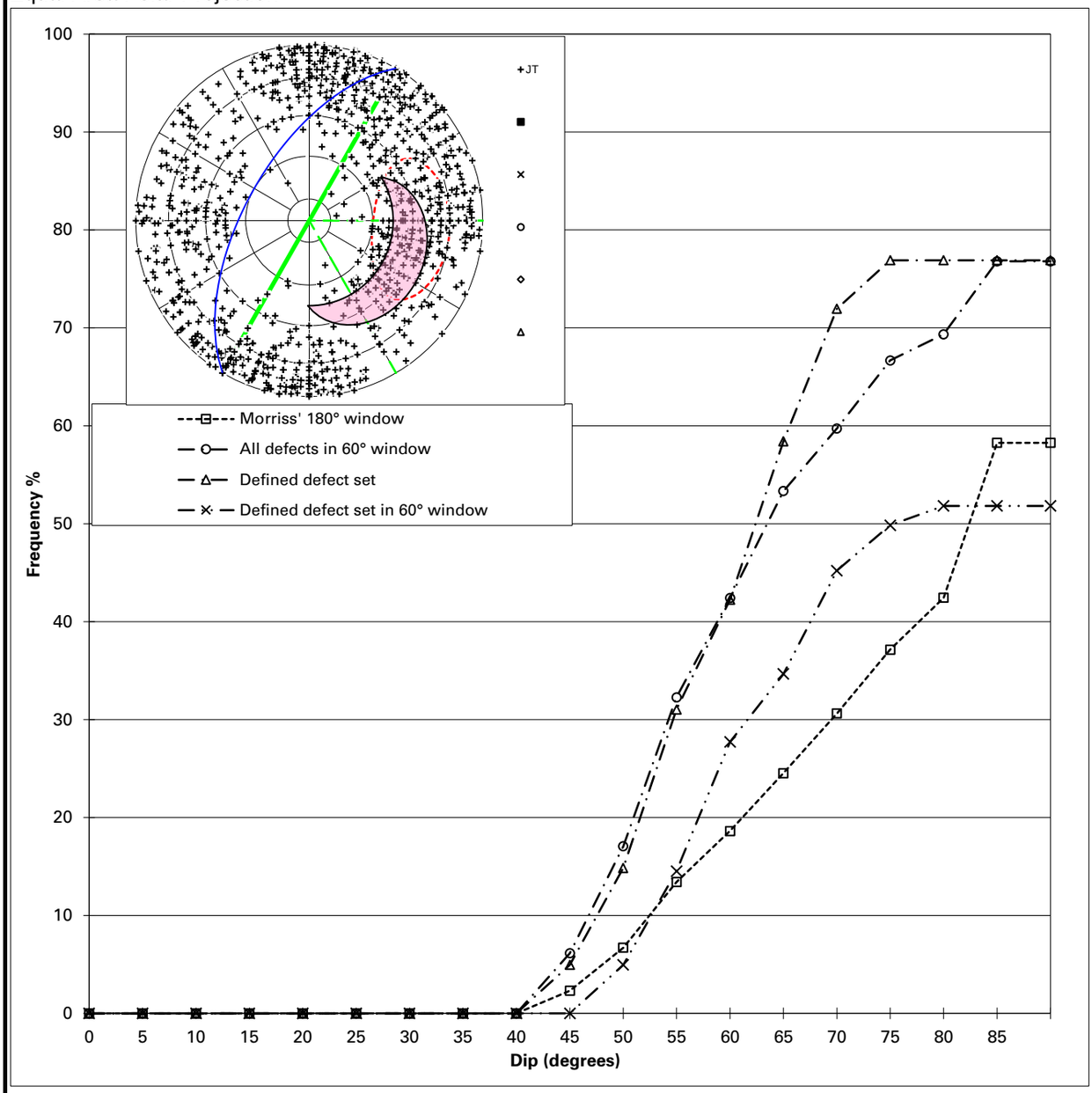
DEFECT SHEAR STRENGTHS

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

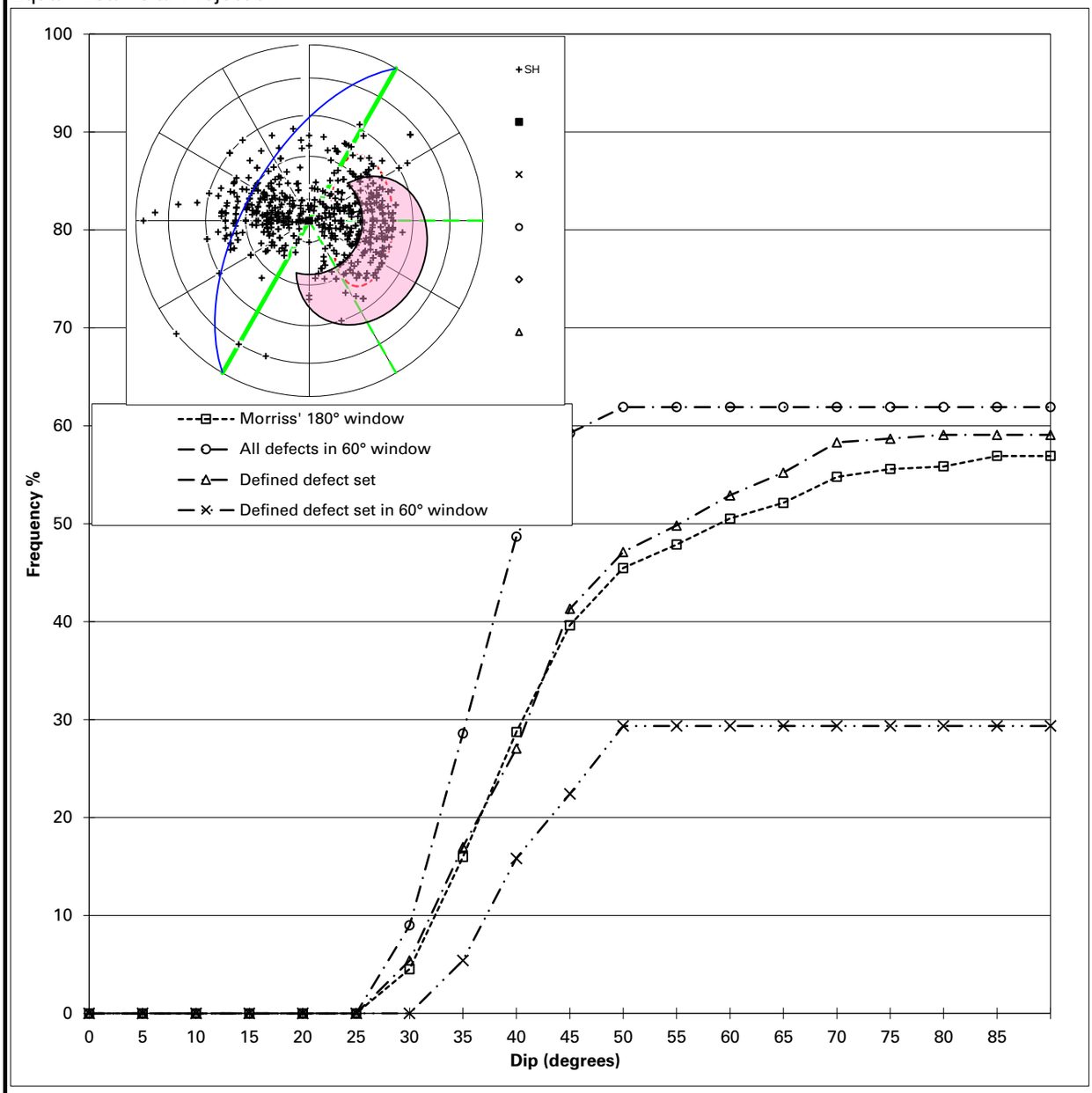
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

SH1	Mean	±
Dip	25	15
Dip Direction	270	30

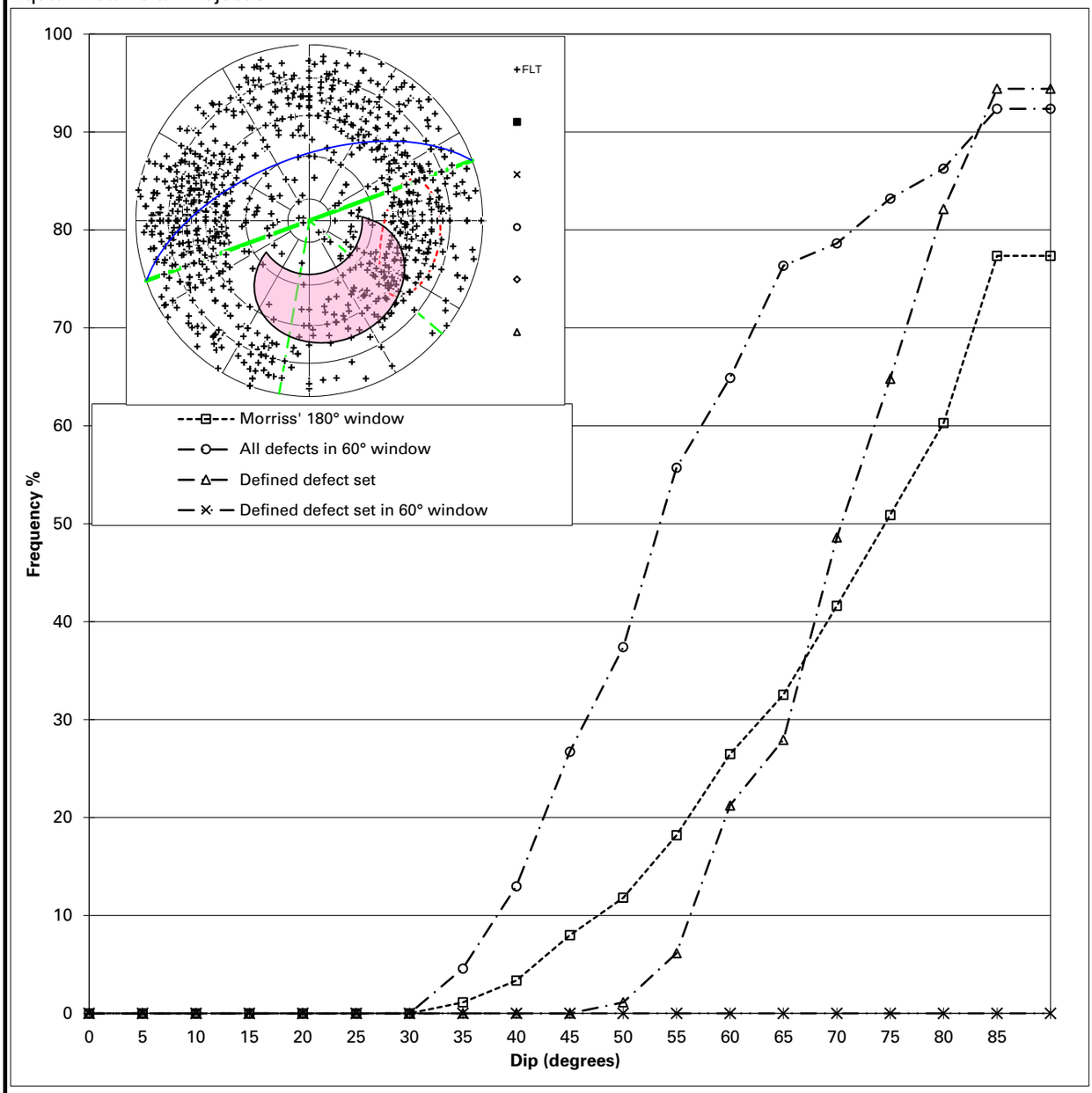
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

FT1	Mean	±
Dip	50	15
Dip Direction	280	25

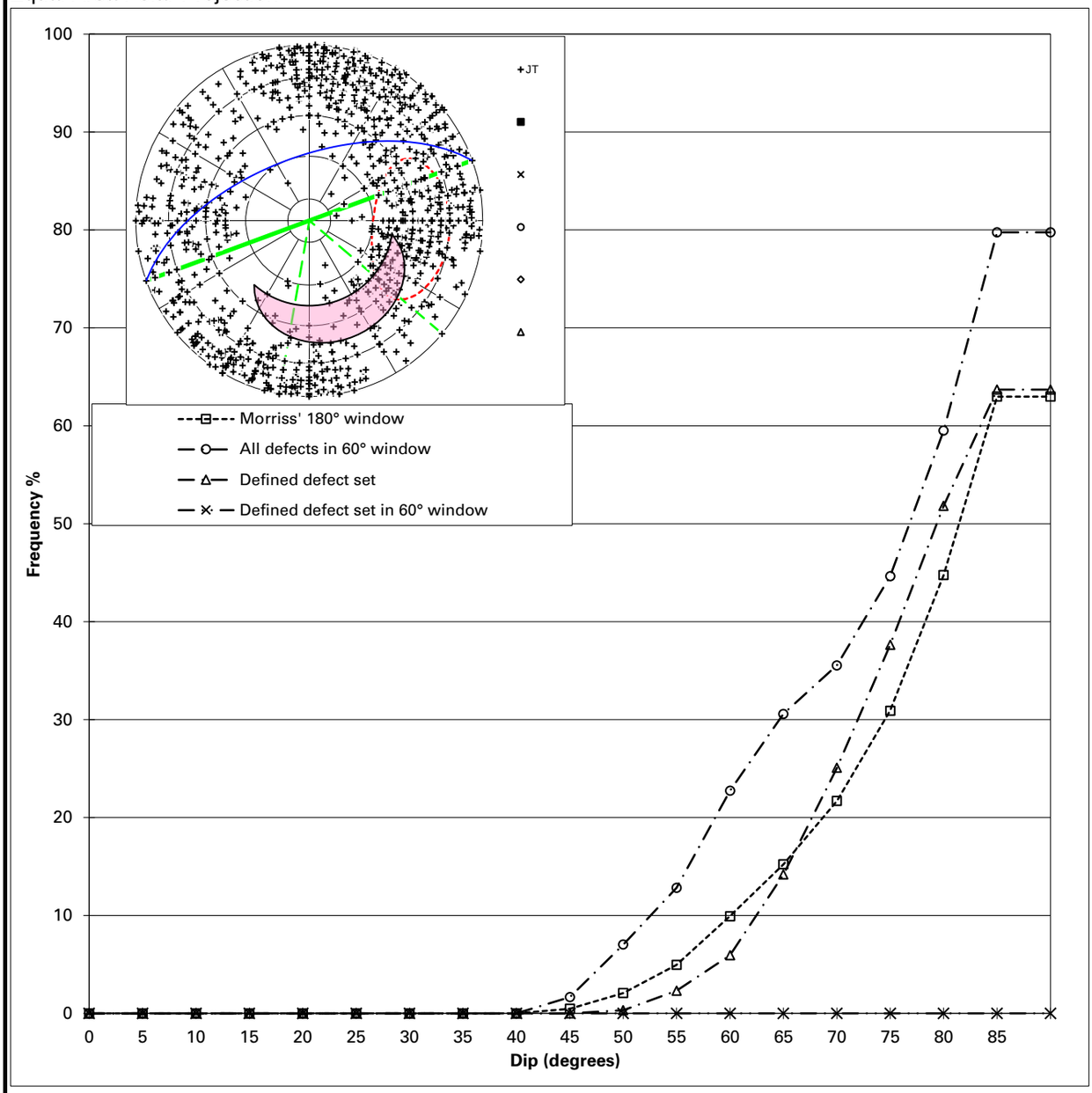
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

JN1	Mean	±
Dip	50	20
Dip Direction	275	30

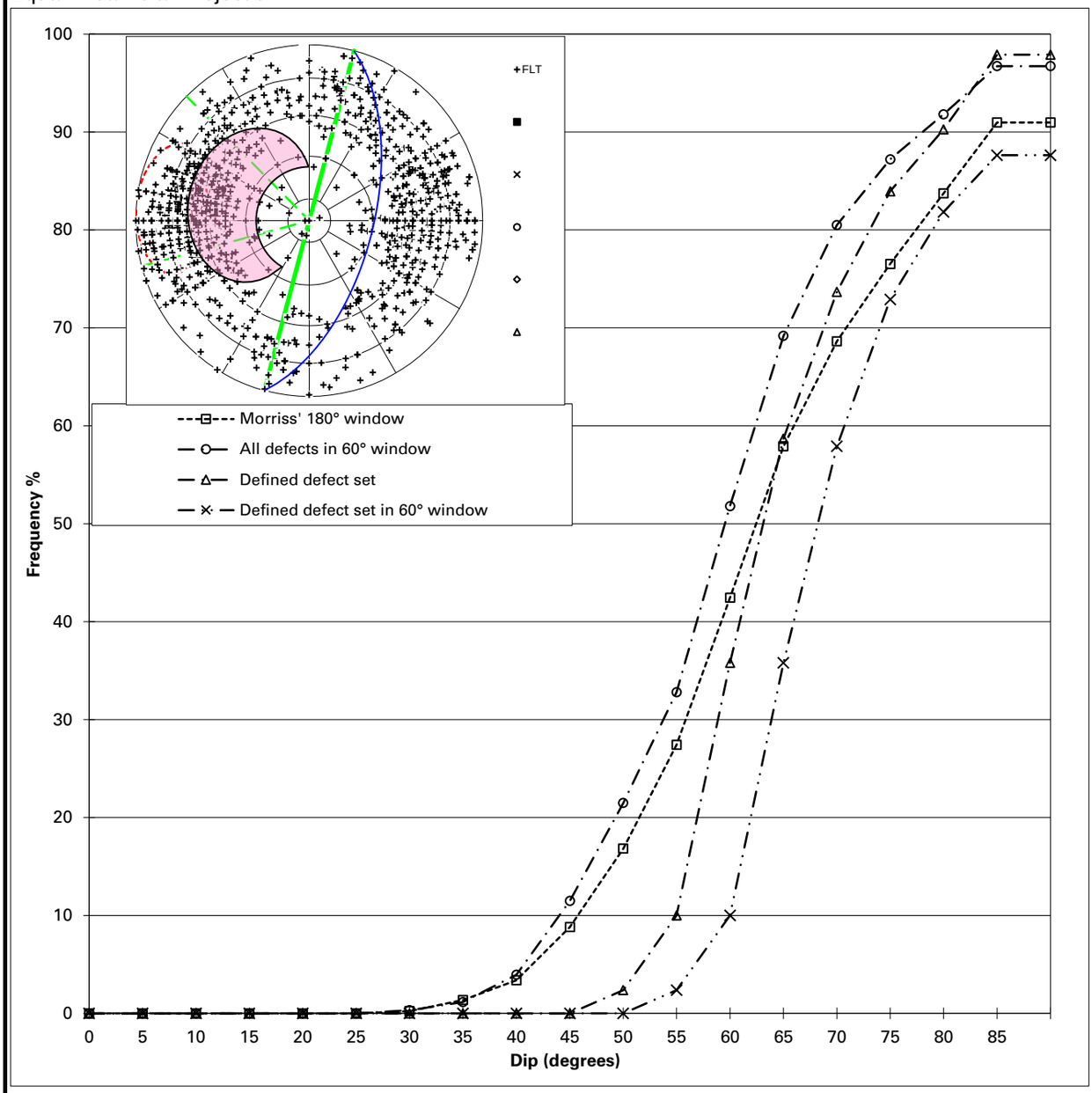
DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	40°

Defects in kinematic window	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 ±	30

DEFECT SET

FT3	Mean	±
Dip	70	20
Dip Direction	95	25

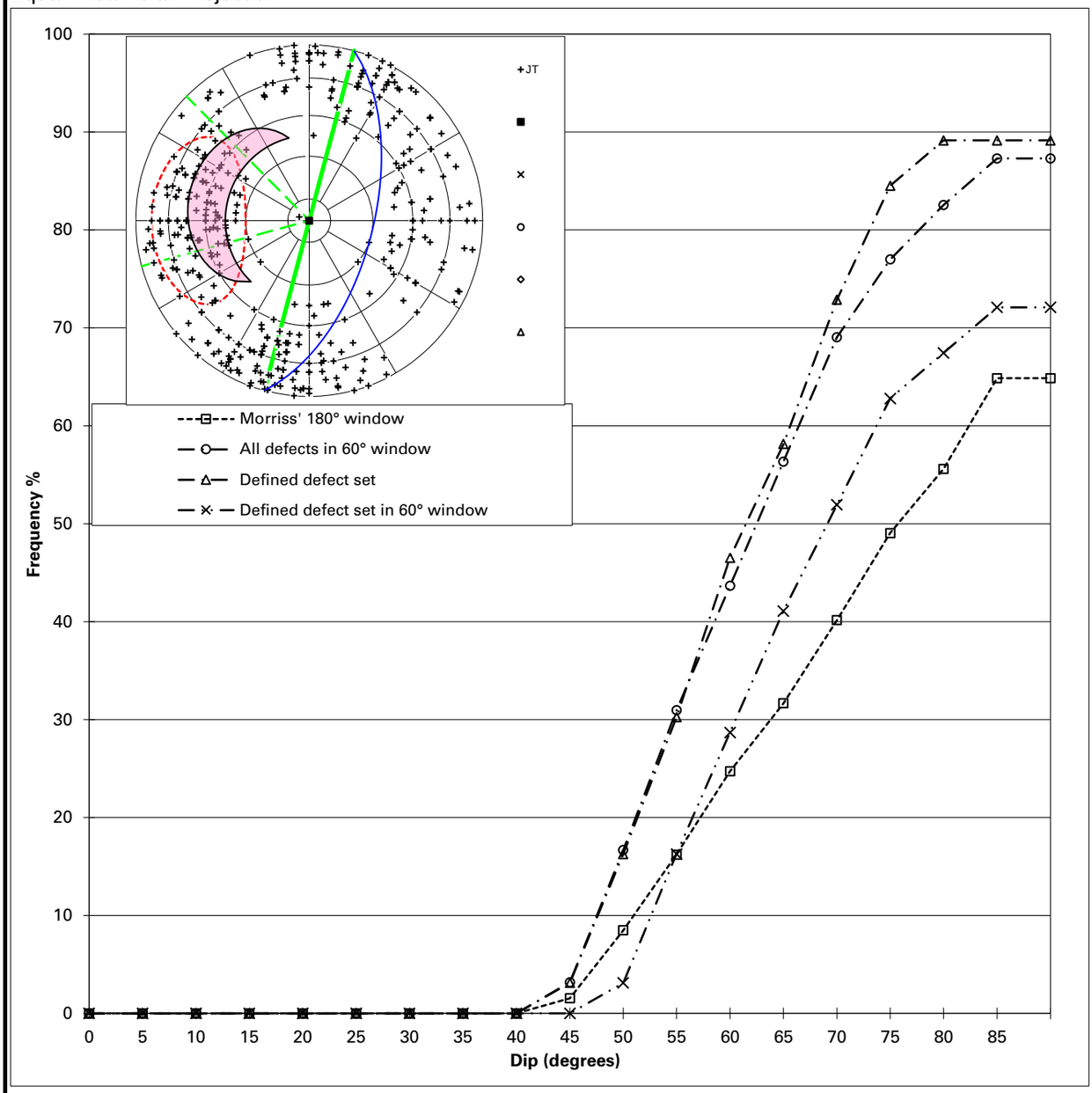
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

JN3	Mean	±
Dip	55	25
Dip Direction	90	35

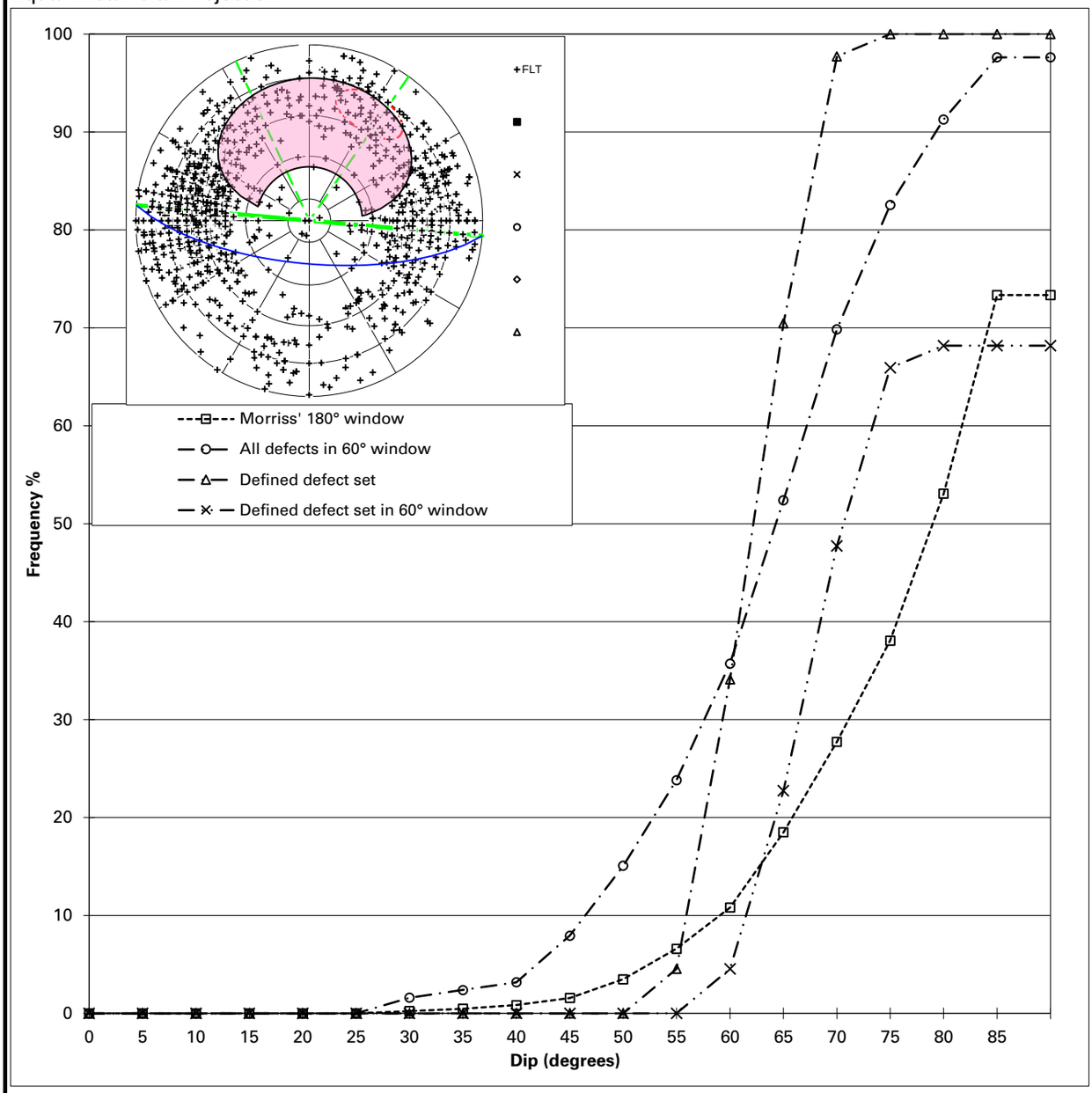
DEFECT SHEAR STRENGTHS

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

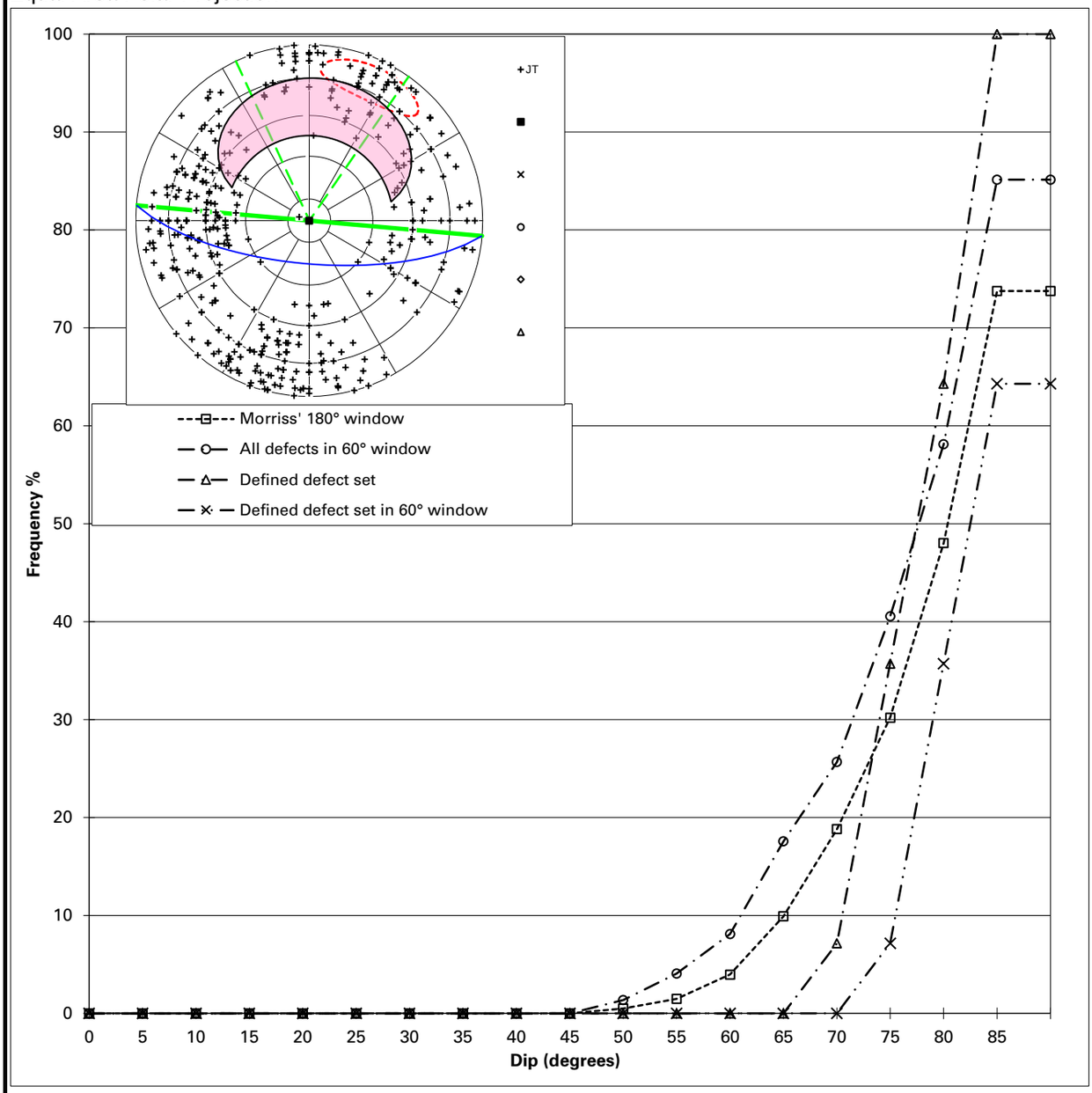
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

JN6	Mean	±
Dip	75	10
Dip Direction	205	20

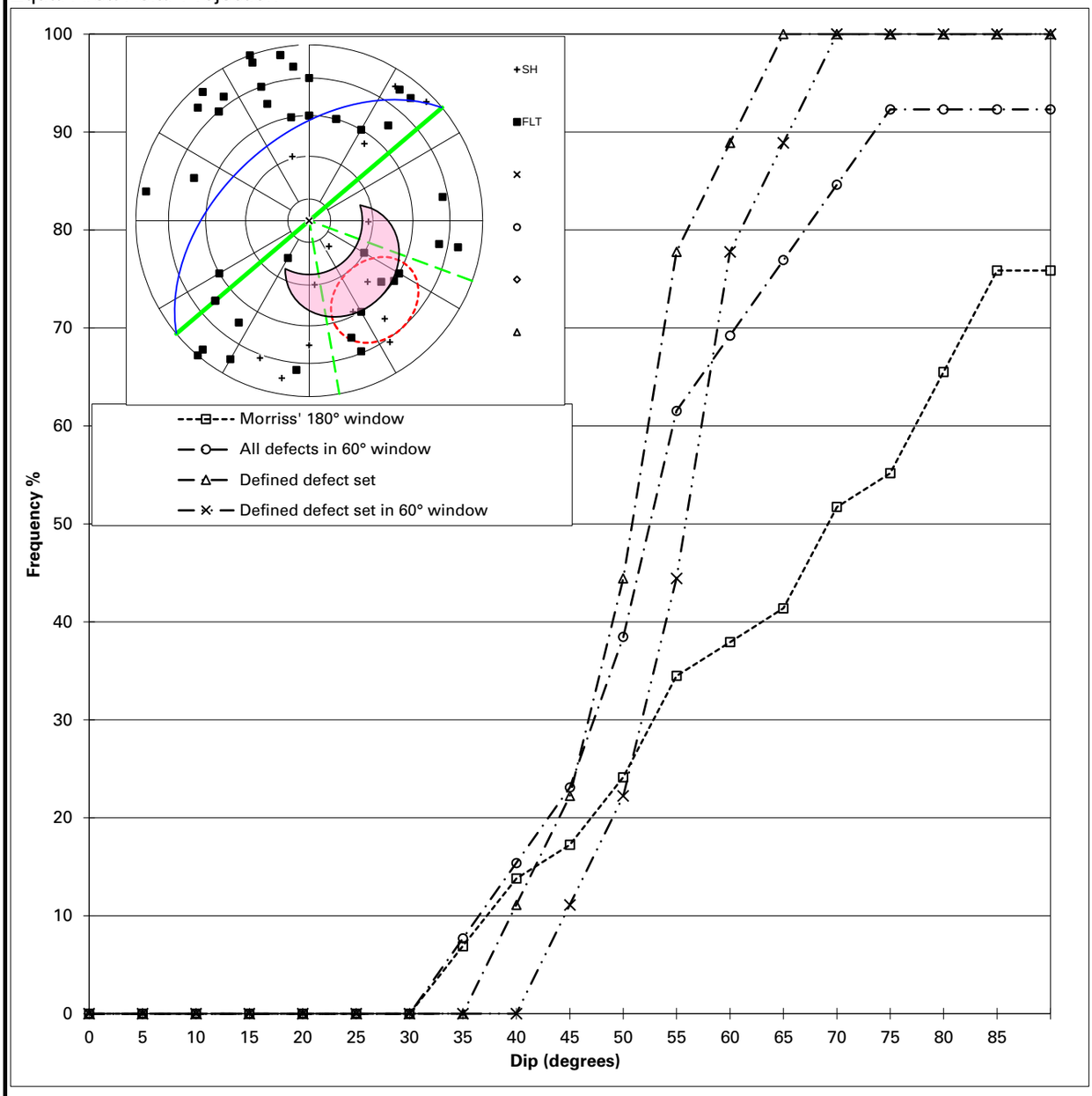
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

SH3	Mean	±
Dip	50	20
Dip Direction	320	20

DEFECT SHEAR STRENGTHS

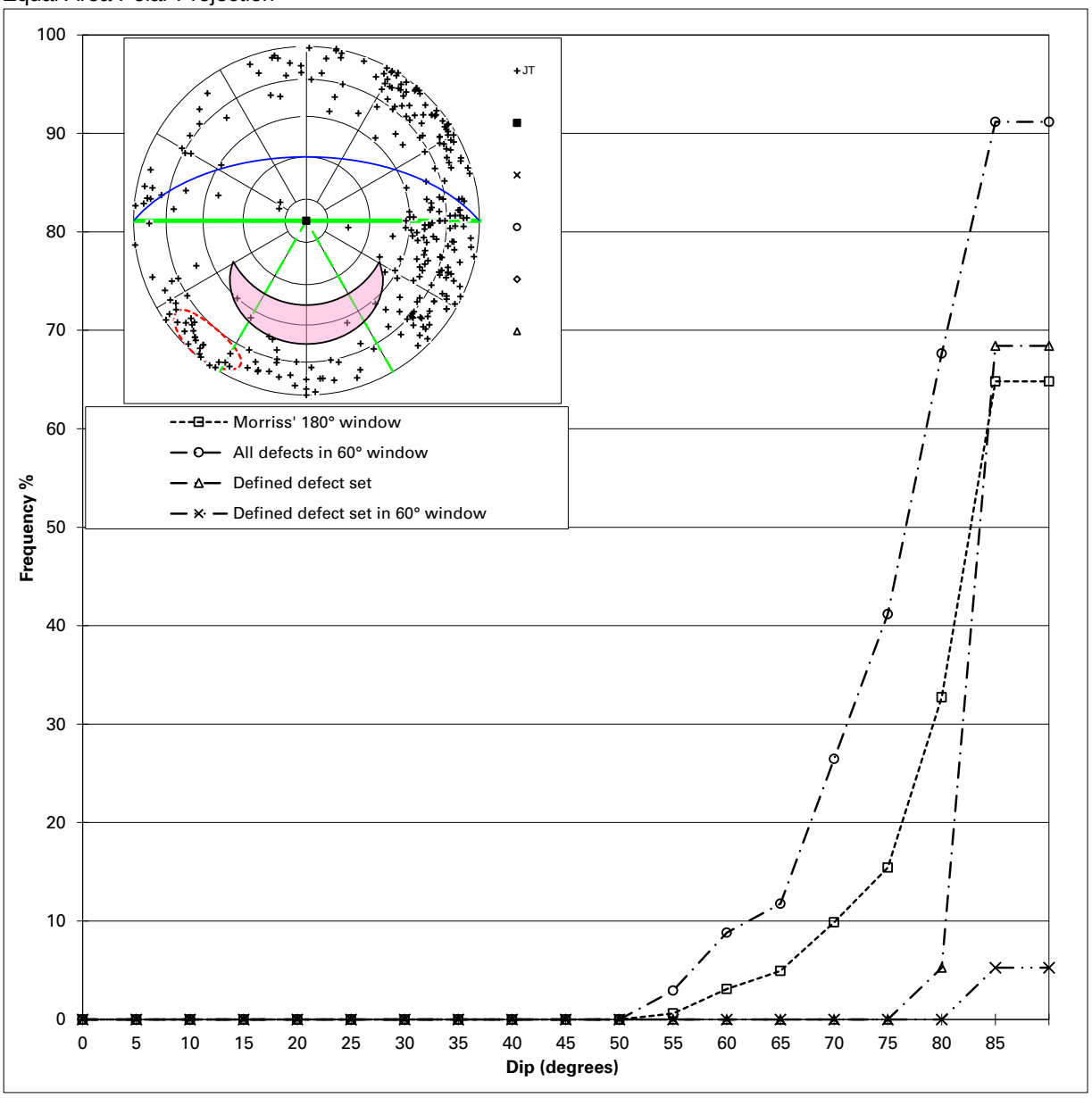
Cohesion	=	0 kPa
Friction Angle	=	25°

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 ±	30

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	40°

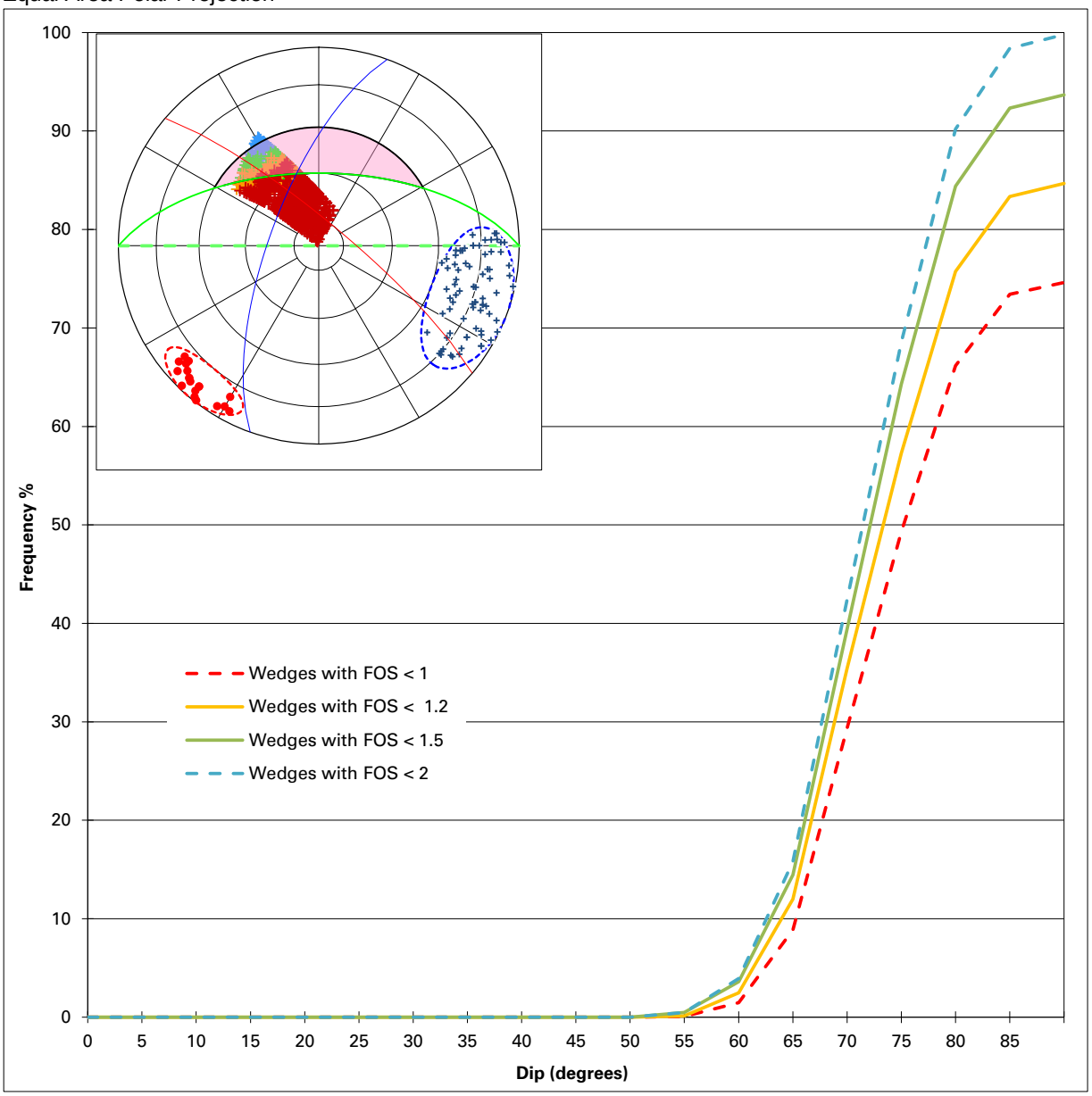
DEFECT SET

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa

Friction Angle = 40°

FIRST SET - RED

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

Defects in set JT 1 19

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

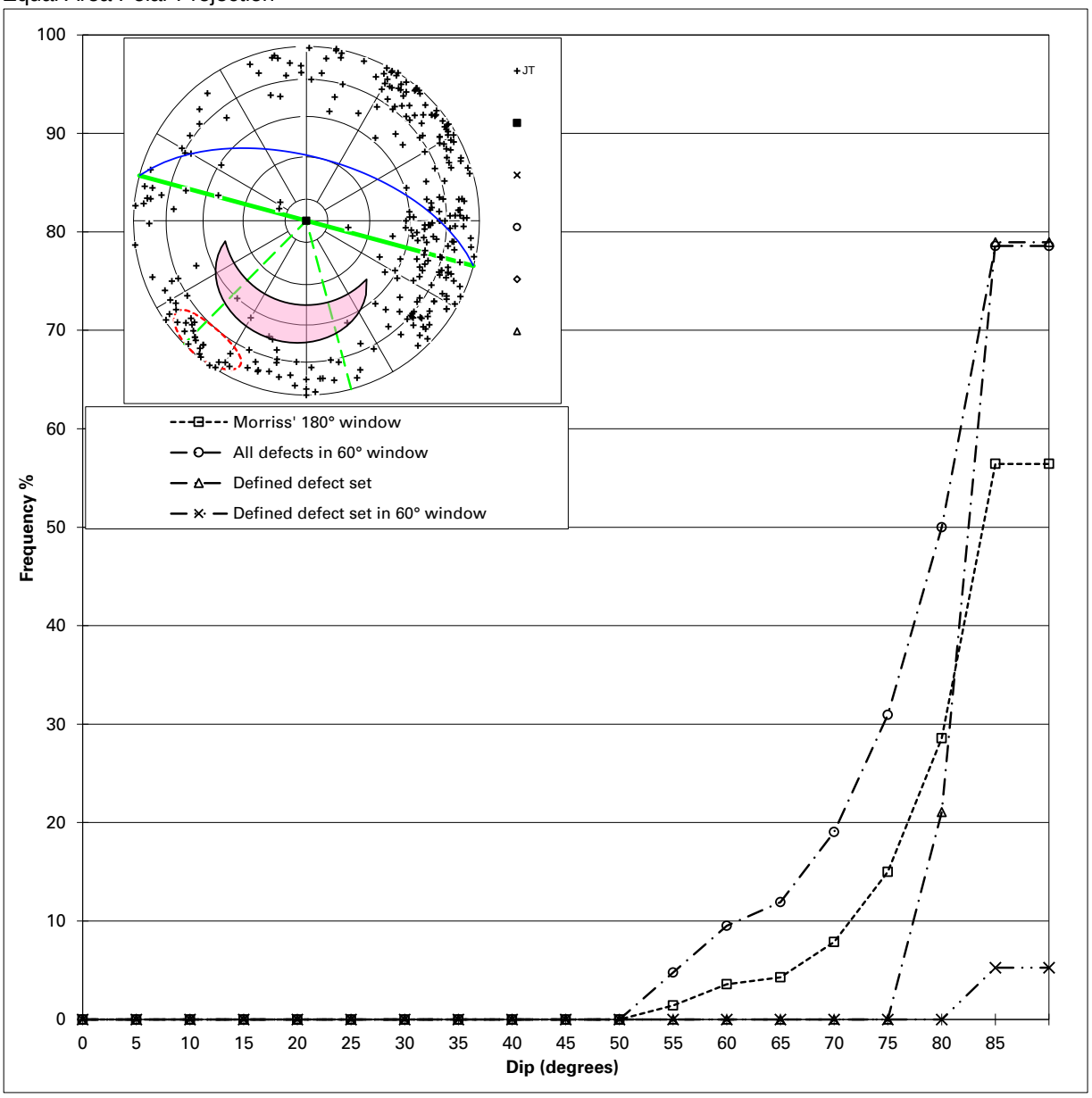
Defects in set JT 3 79

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 ±	30

DEFECT SET

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

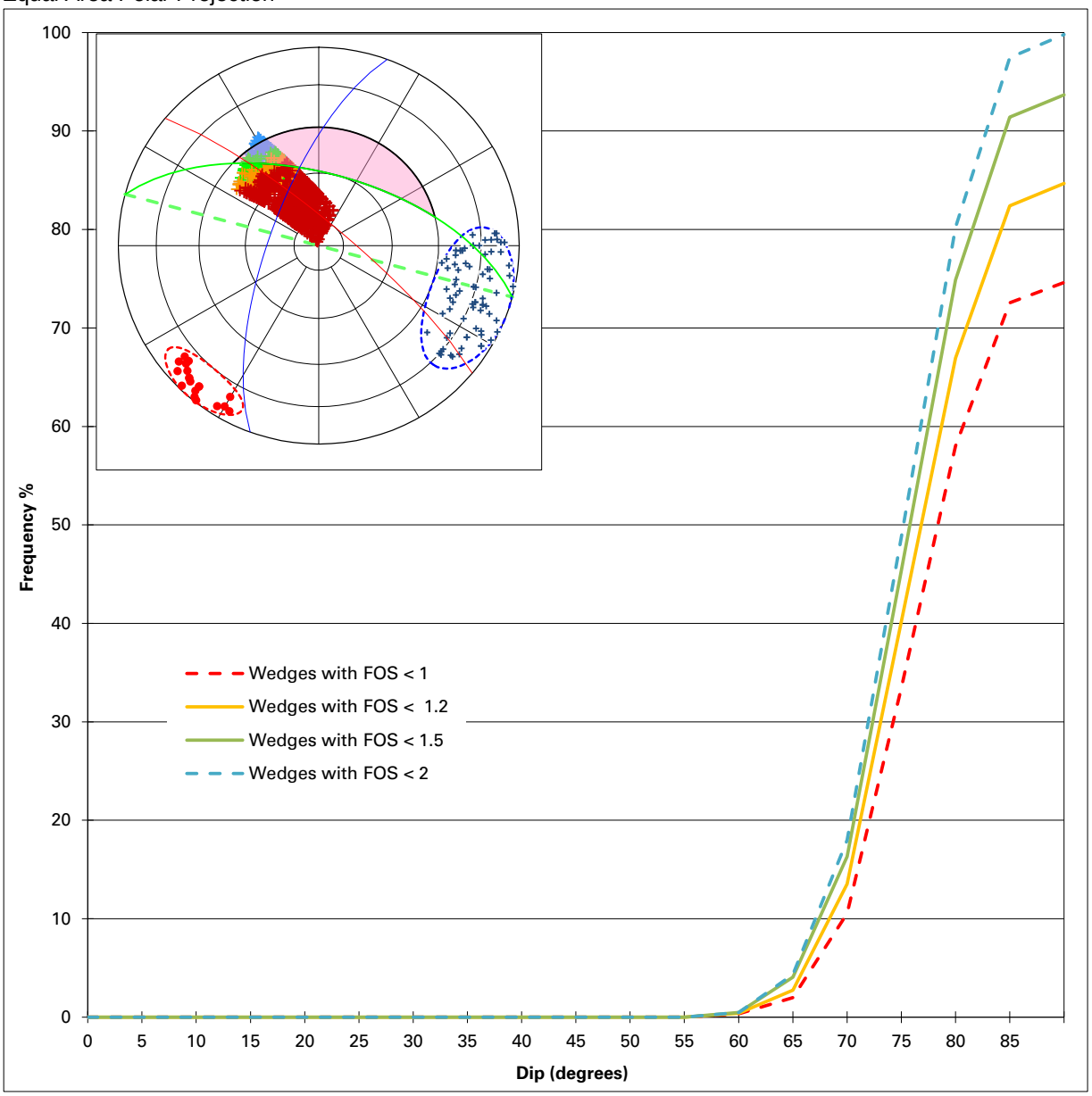
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

Defects in set JT 1 19

SECOND SET - BLUE

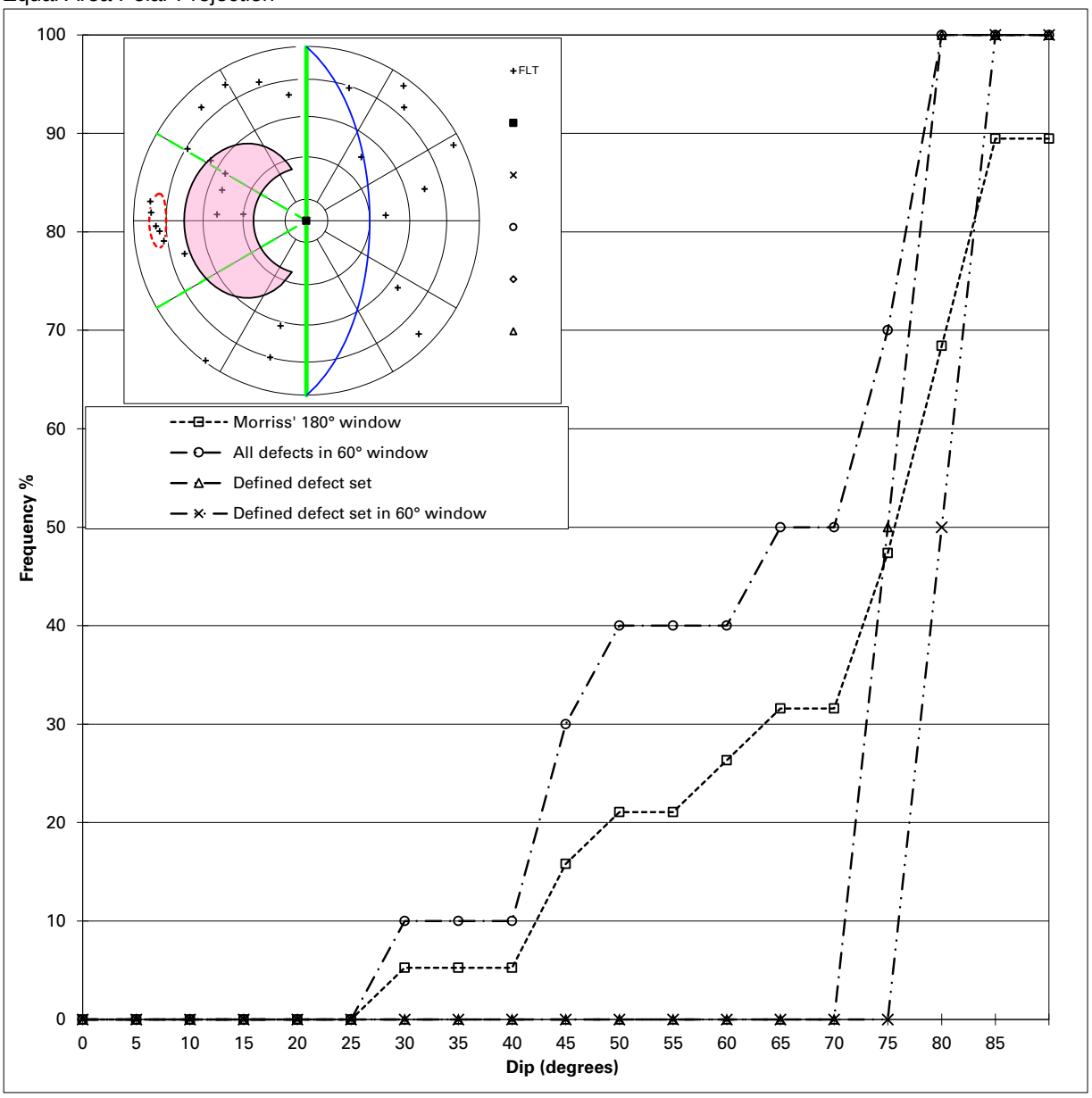
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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 ±	30

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	25°

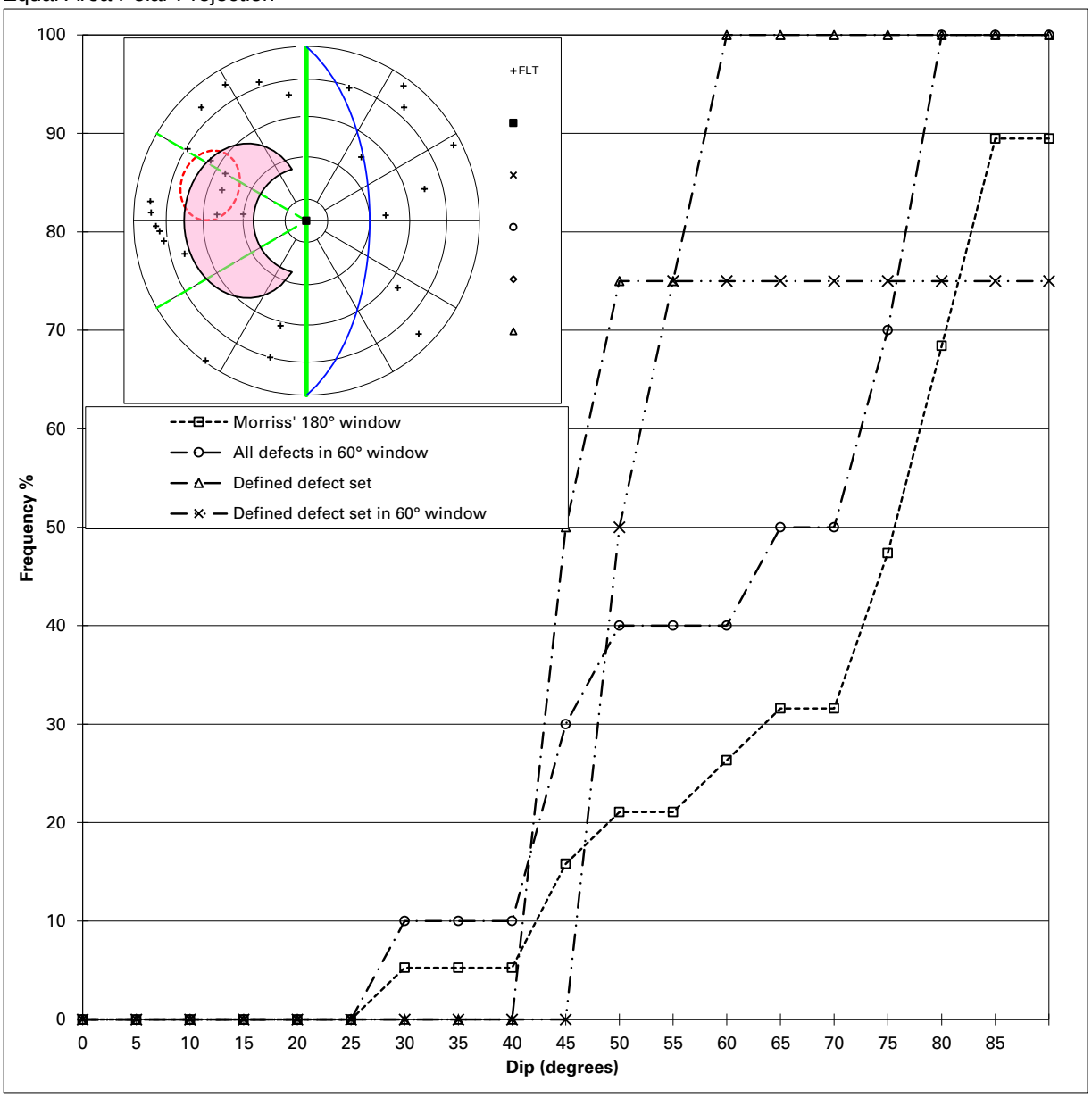
DEFECT SET

FLT 1	Mean	±
Dip	75	5
Dip Direction	90	10

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 ±	30

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	25°

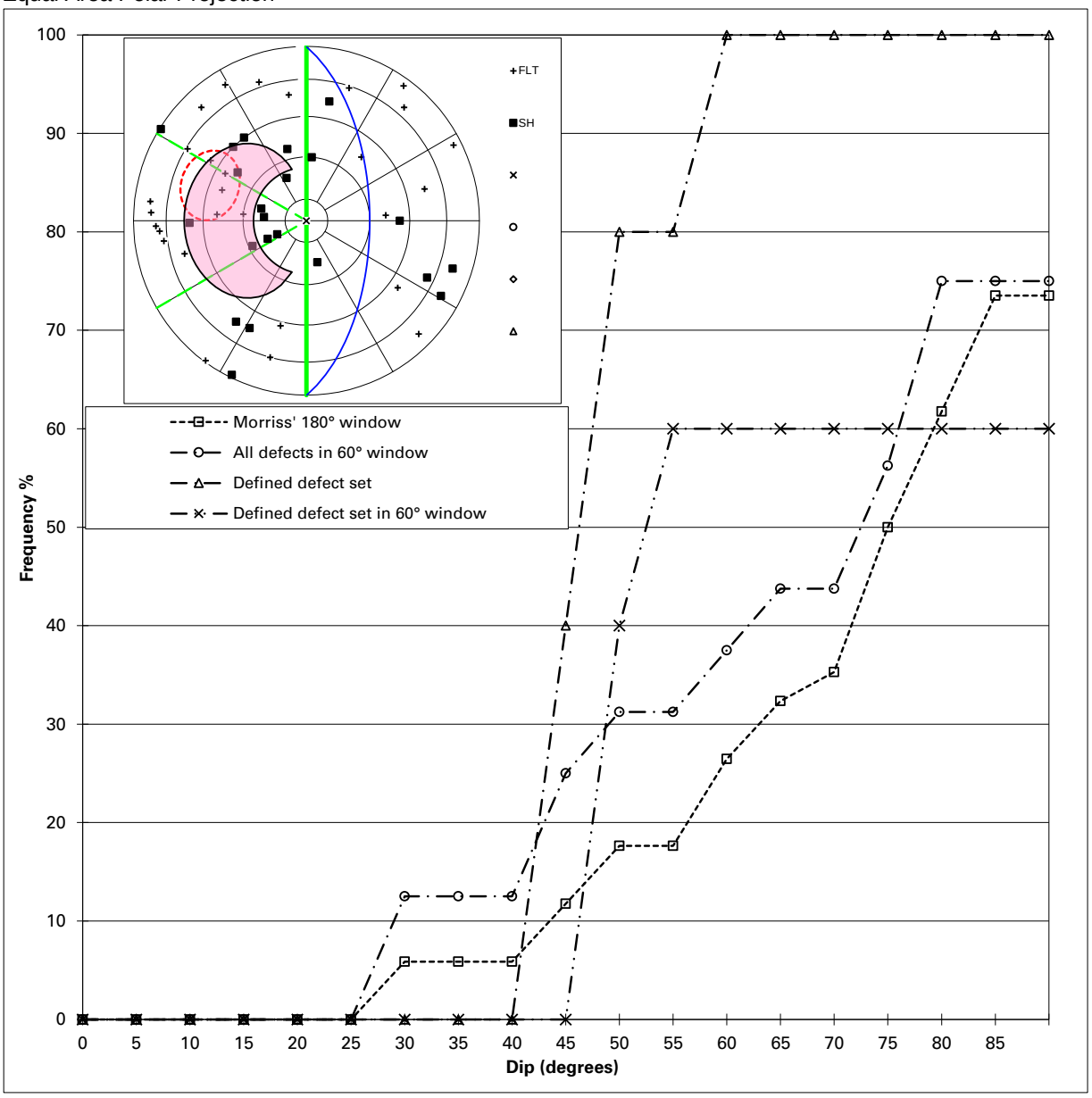
DEFECT SET

FLT 2	Mean	±
Dip	50	15
Dip Direction	110	15

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 ±	30

DEFECT SET

FLT 2	Mean	±
Dip	50	15
Dip Direction	110	15

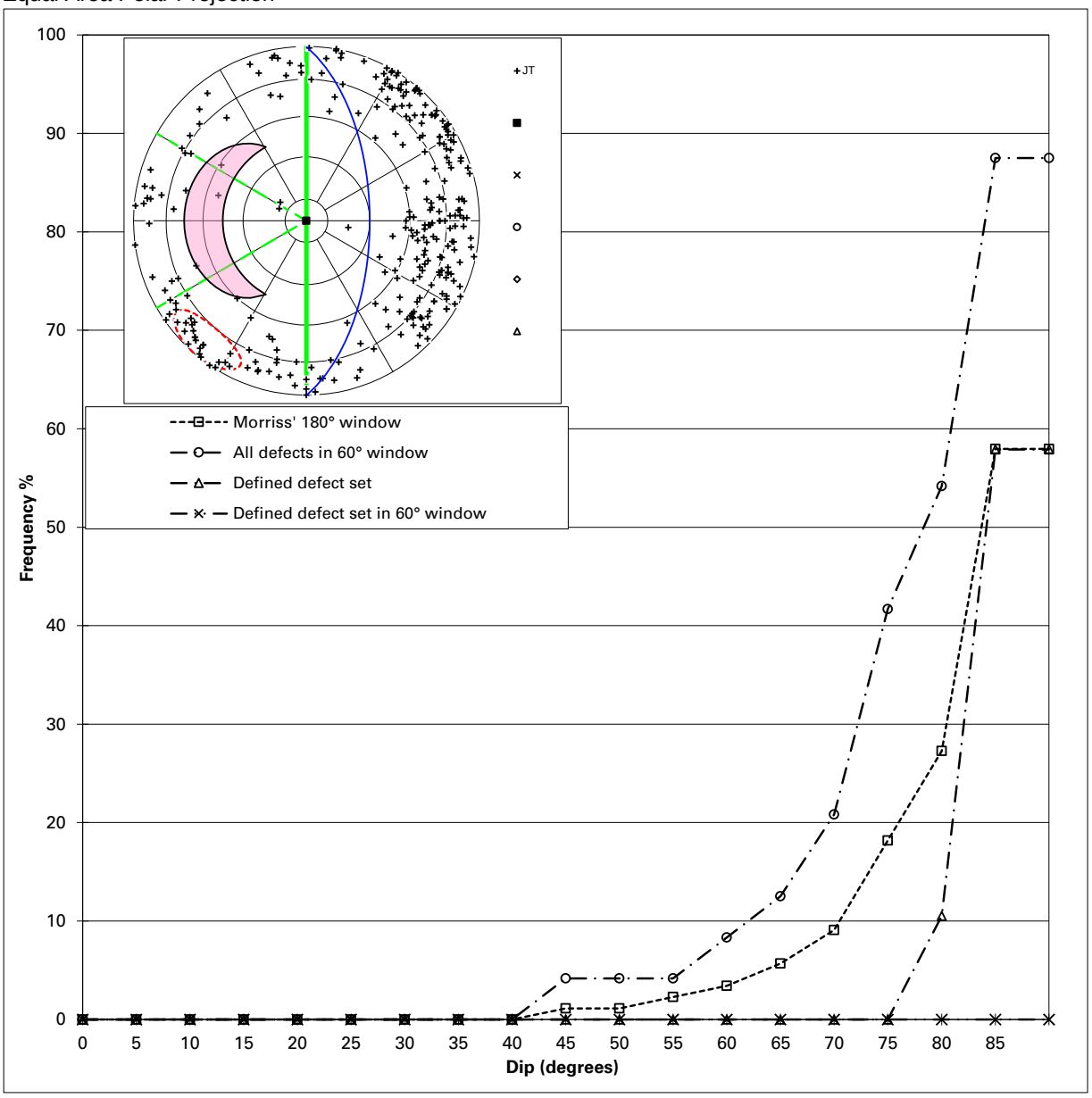
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

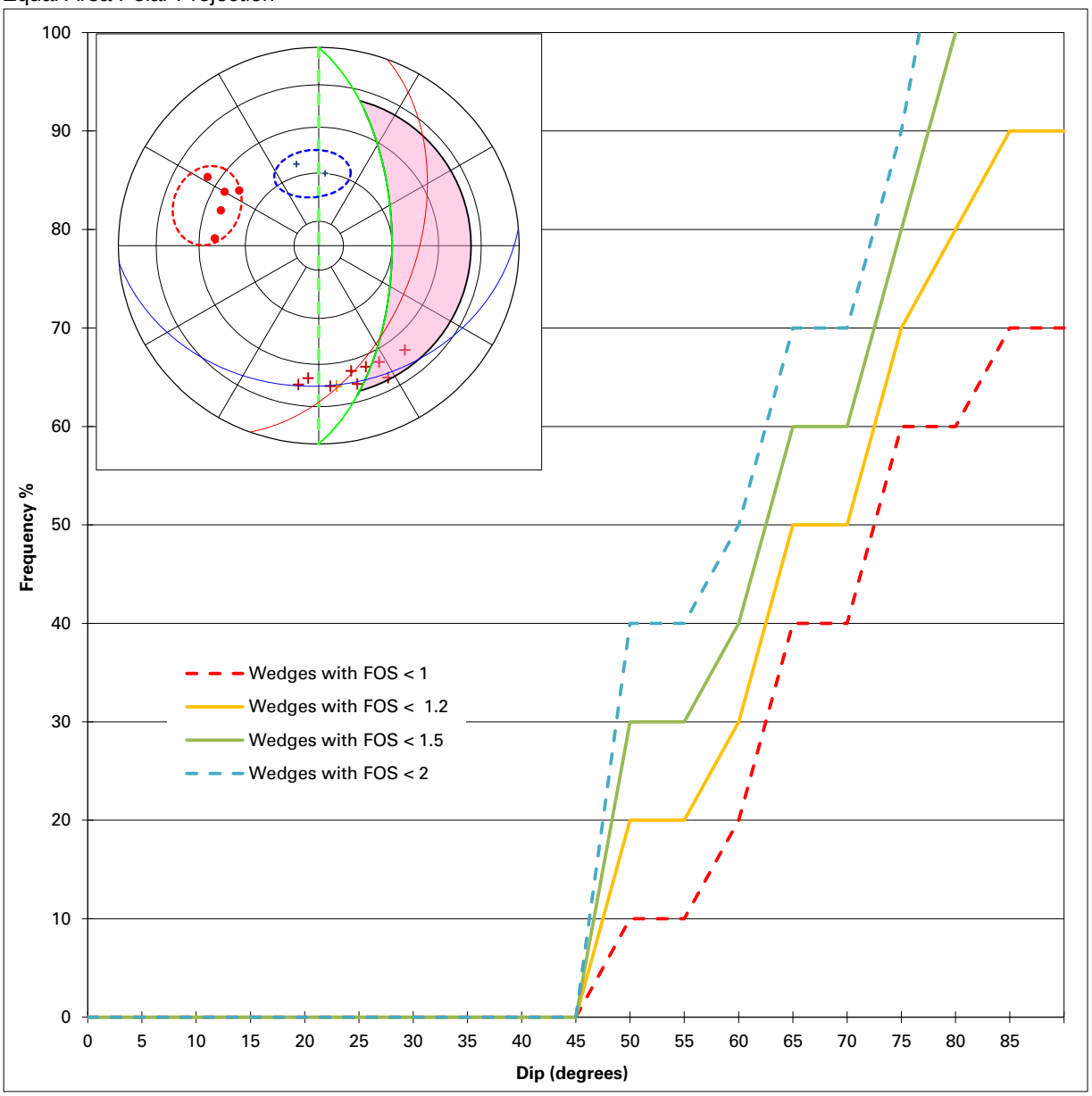
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	25°

FIRST SET - RED

FLT 2	Mean	±
Dip	50	15
Dip Direction	110	15

Defects in set FLT 2 5

SECOND SET - BLUE

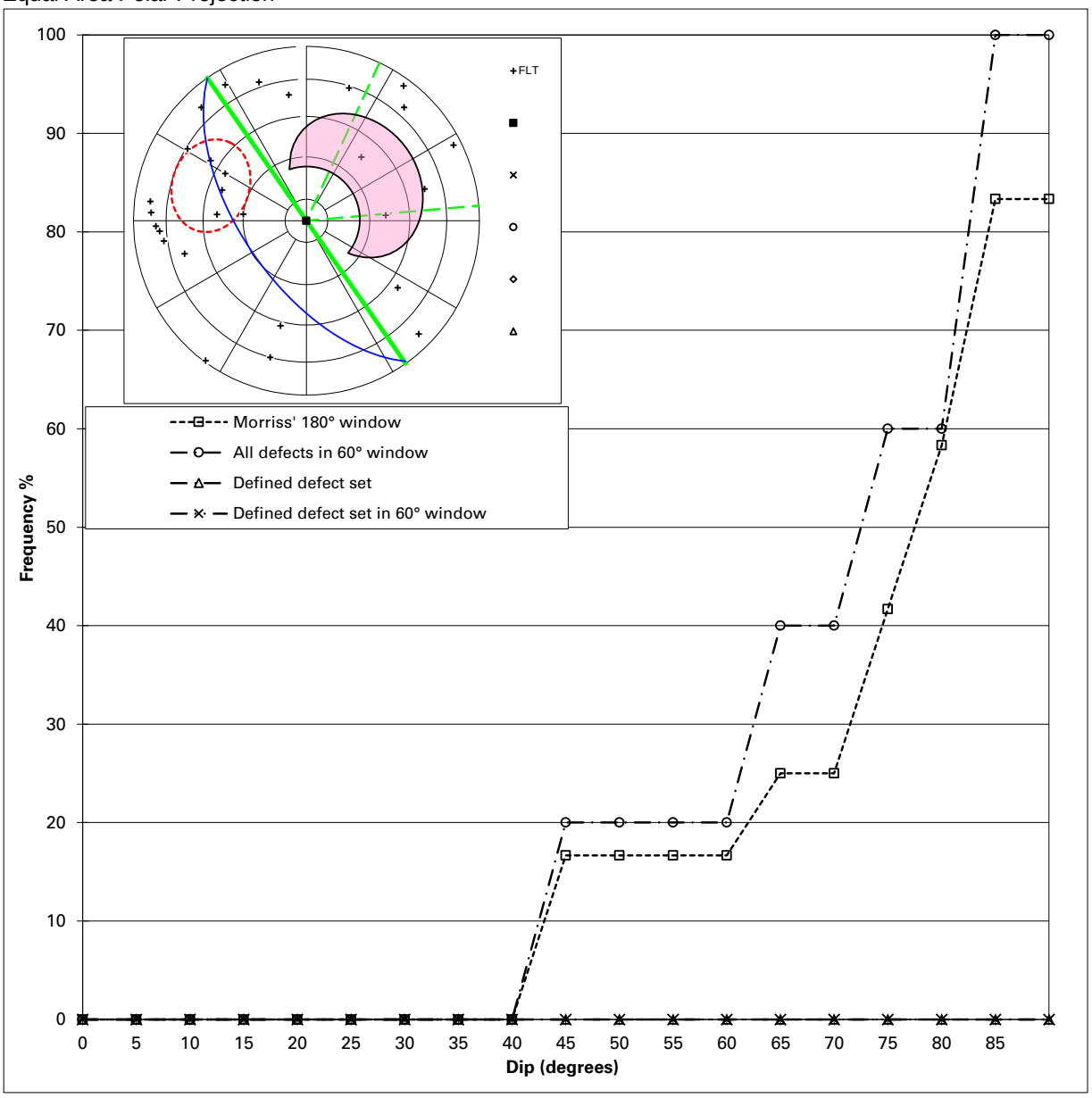
SH 1	Mean	±
Dip	30	10
Dip Direction	175	15

Defects in set SH 1 2

Number of Unstable Wedges 7
Number of Wedges Analysed 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

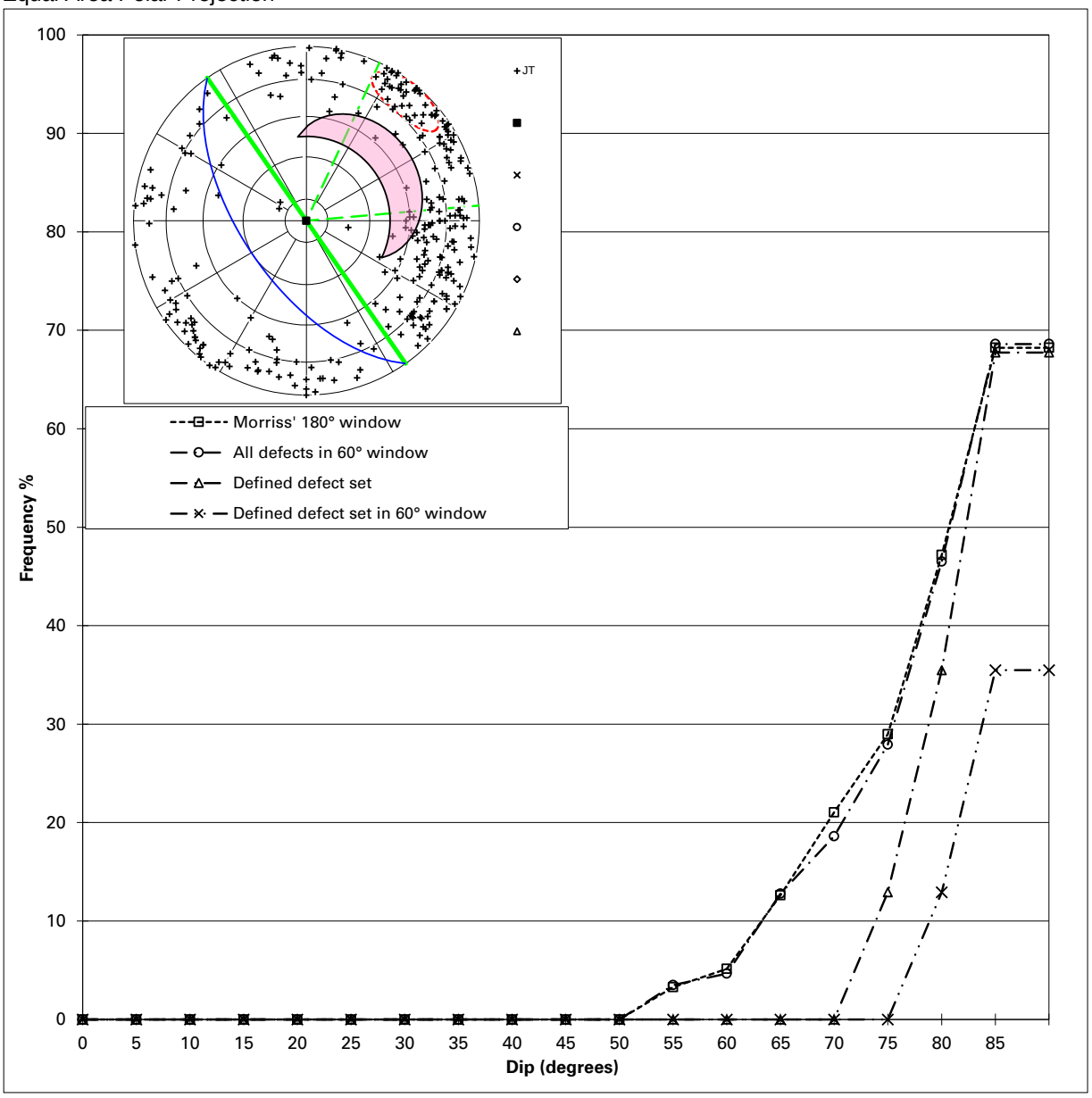
DEFECT SHEAR STRENGTHS

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

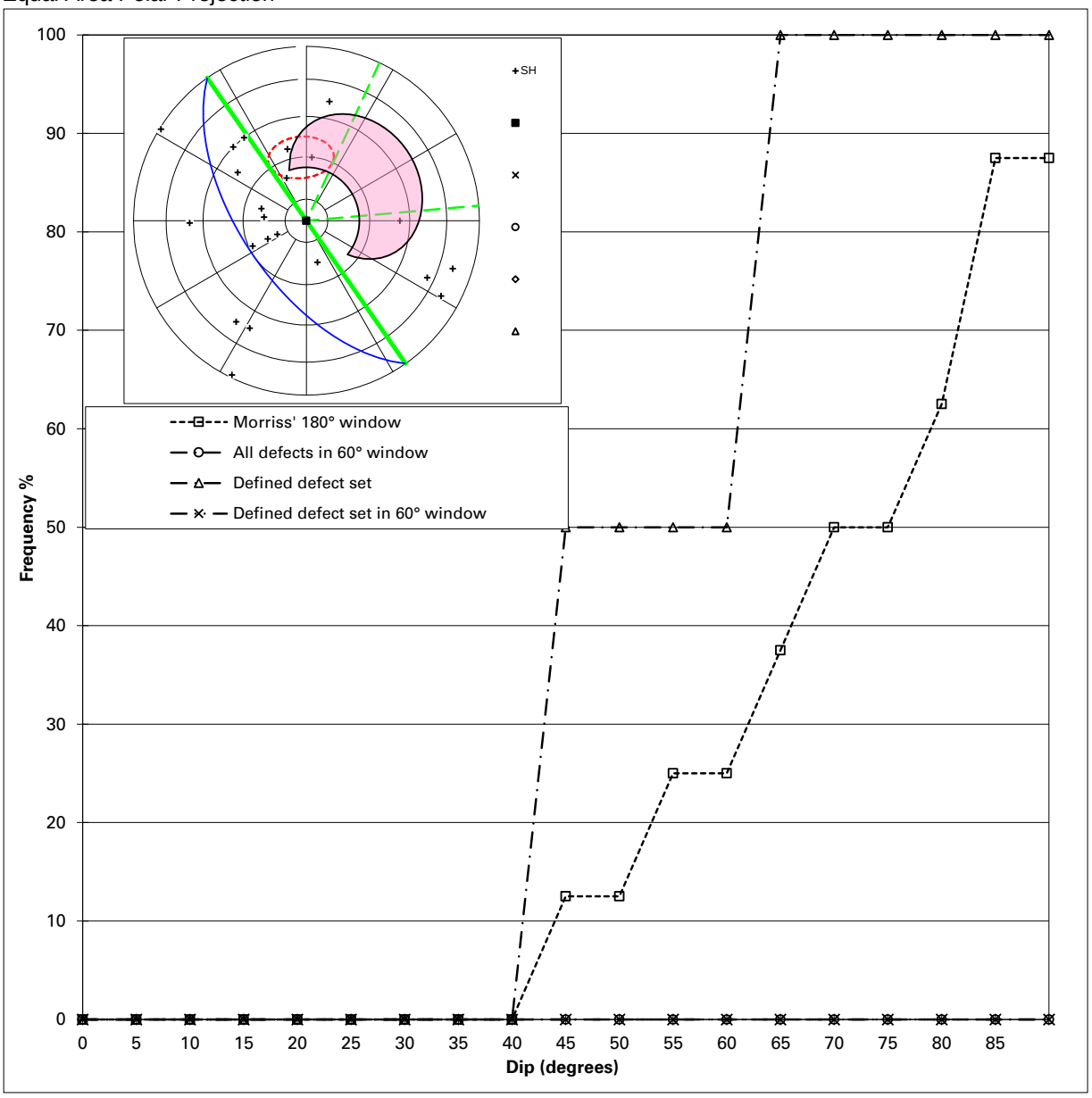
DEFECT SHEAR STRENGTHS

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 ±	30

DEFECT SET

SH 1	Mean	±
Dip	30	10
Dip Direction	175	15

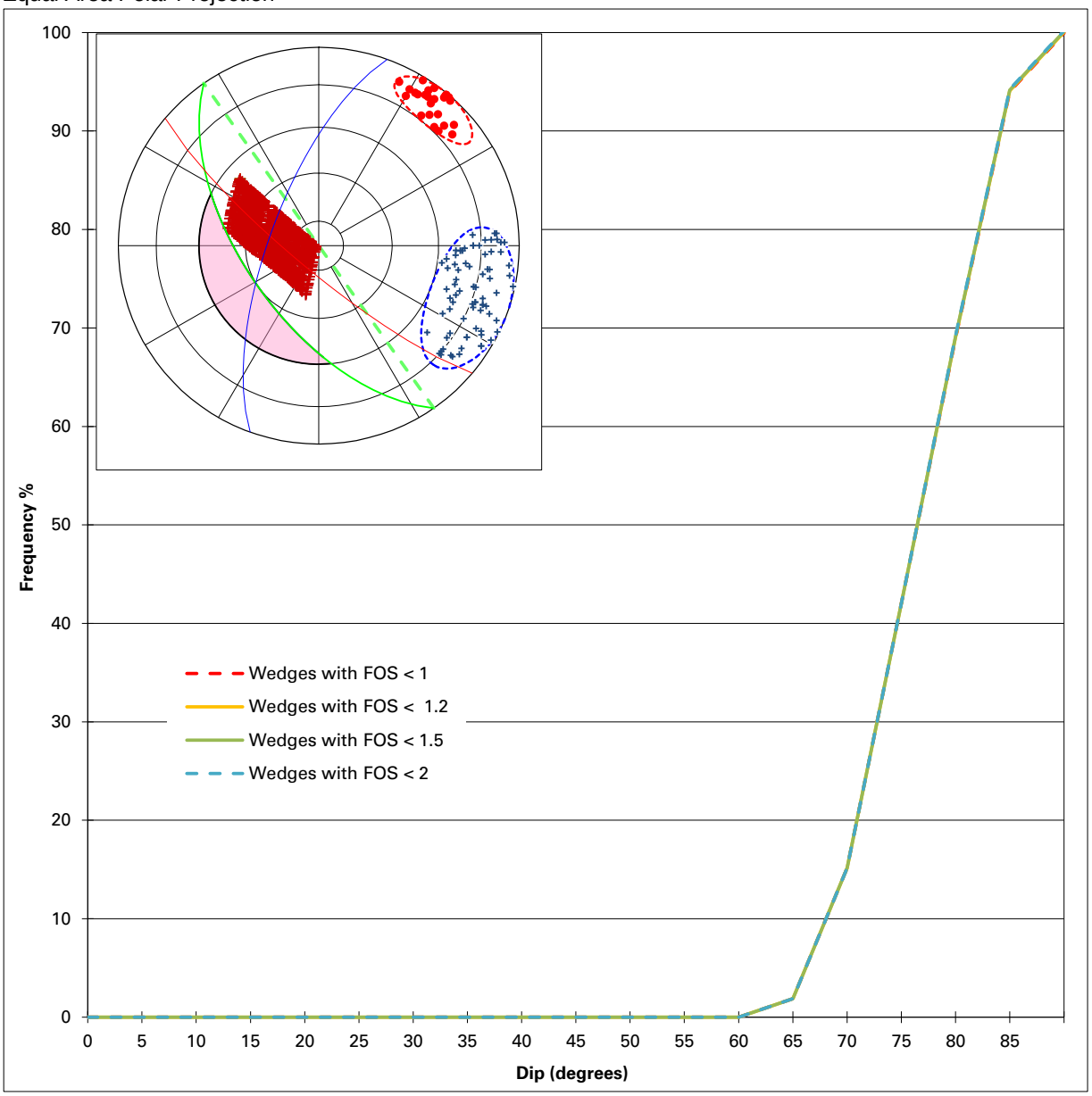
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

SECOND SET - BLUE

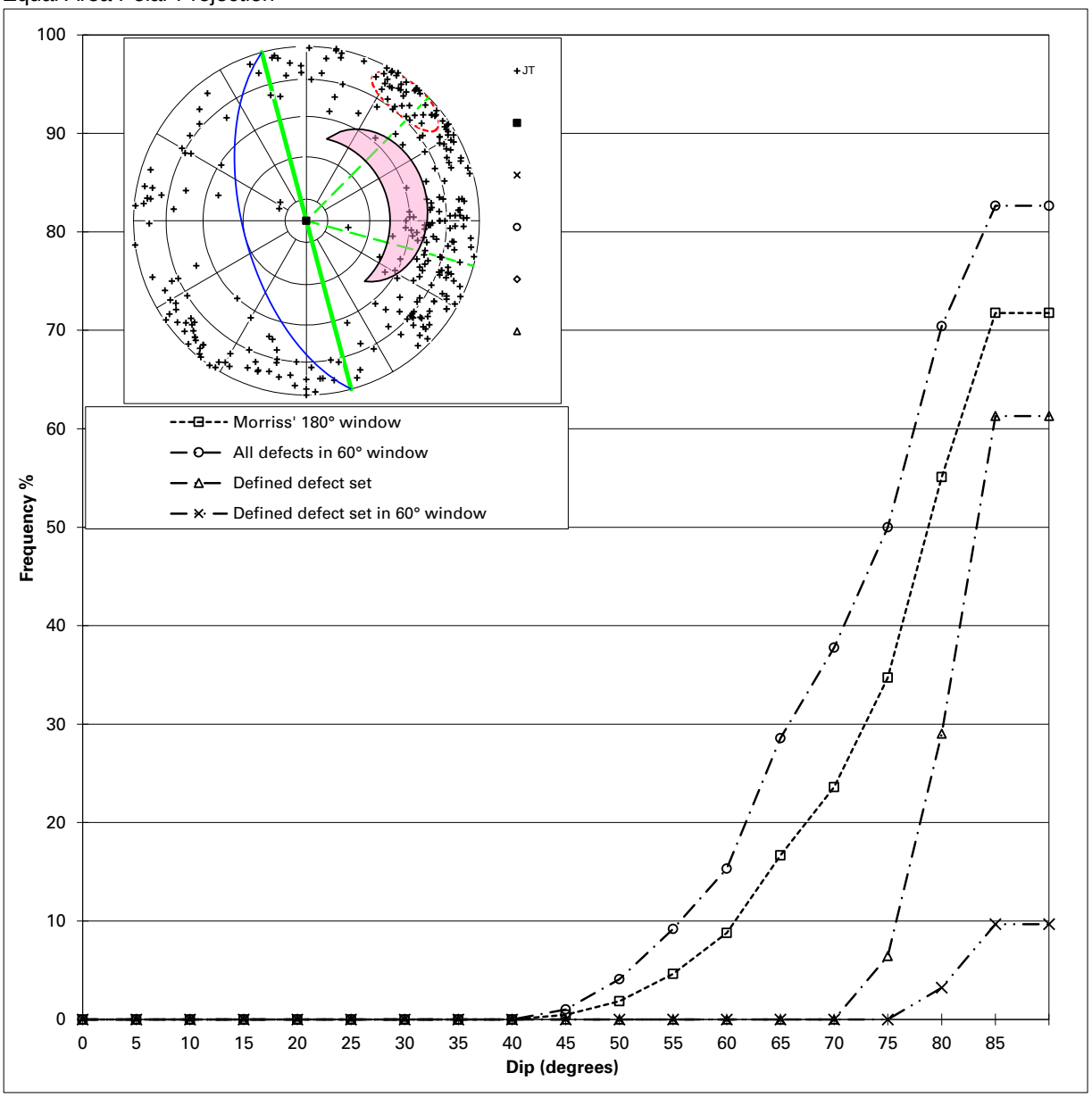
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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 ±	30

DEFECT SET

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

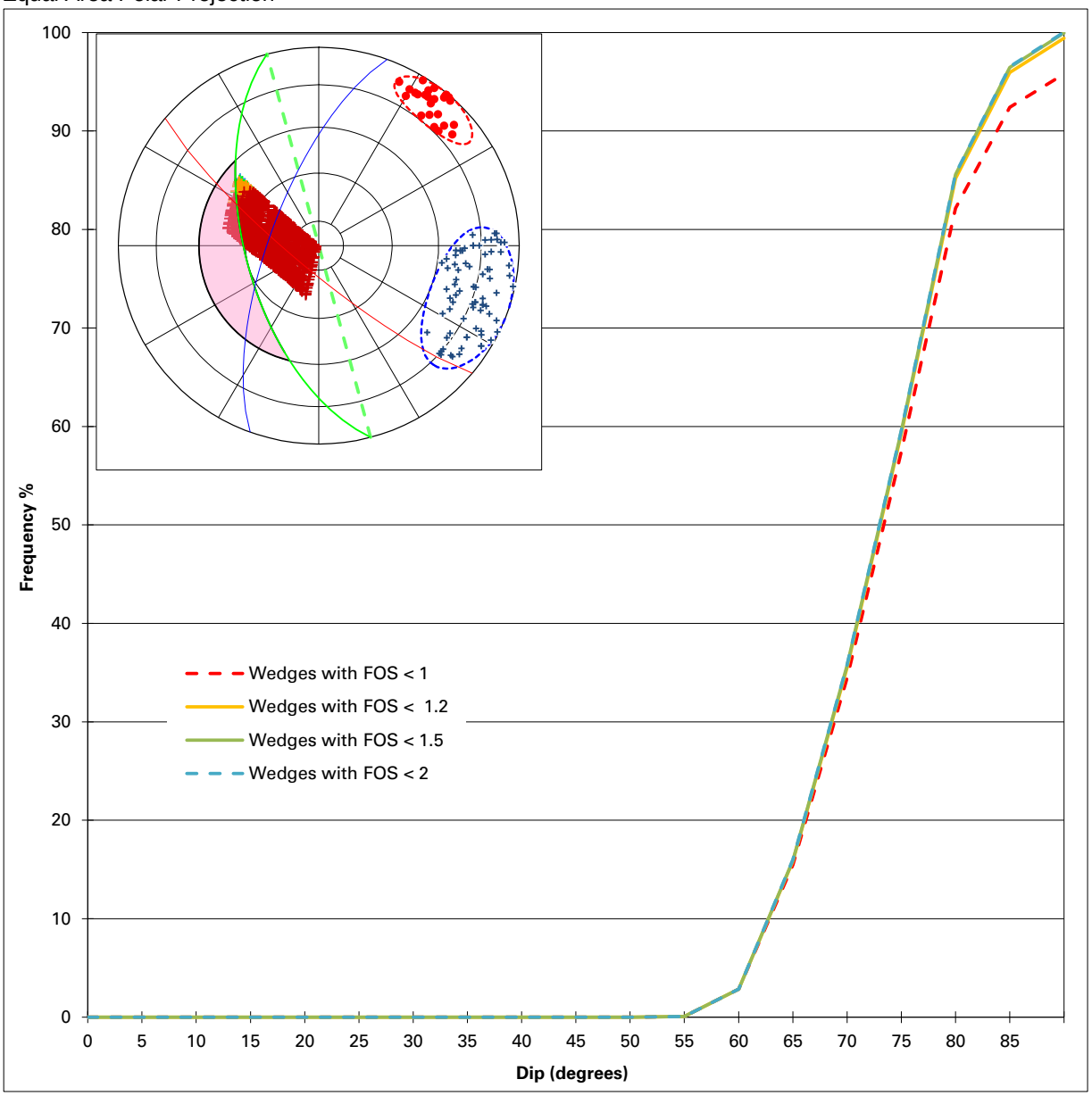
DEFECT SHEAR STRENGTHS

Cohesion	=	0 kPa
Friction Angle	=	40°

Defects in kinematic window	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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

SECOND SET - BLUE

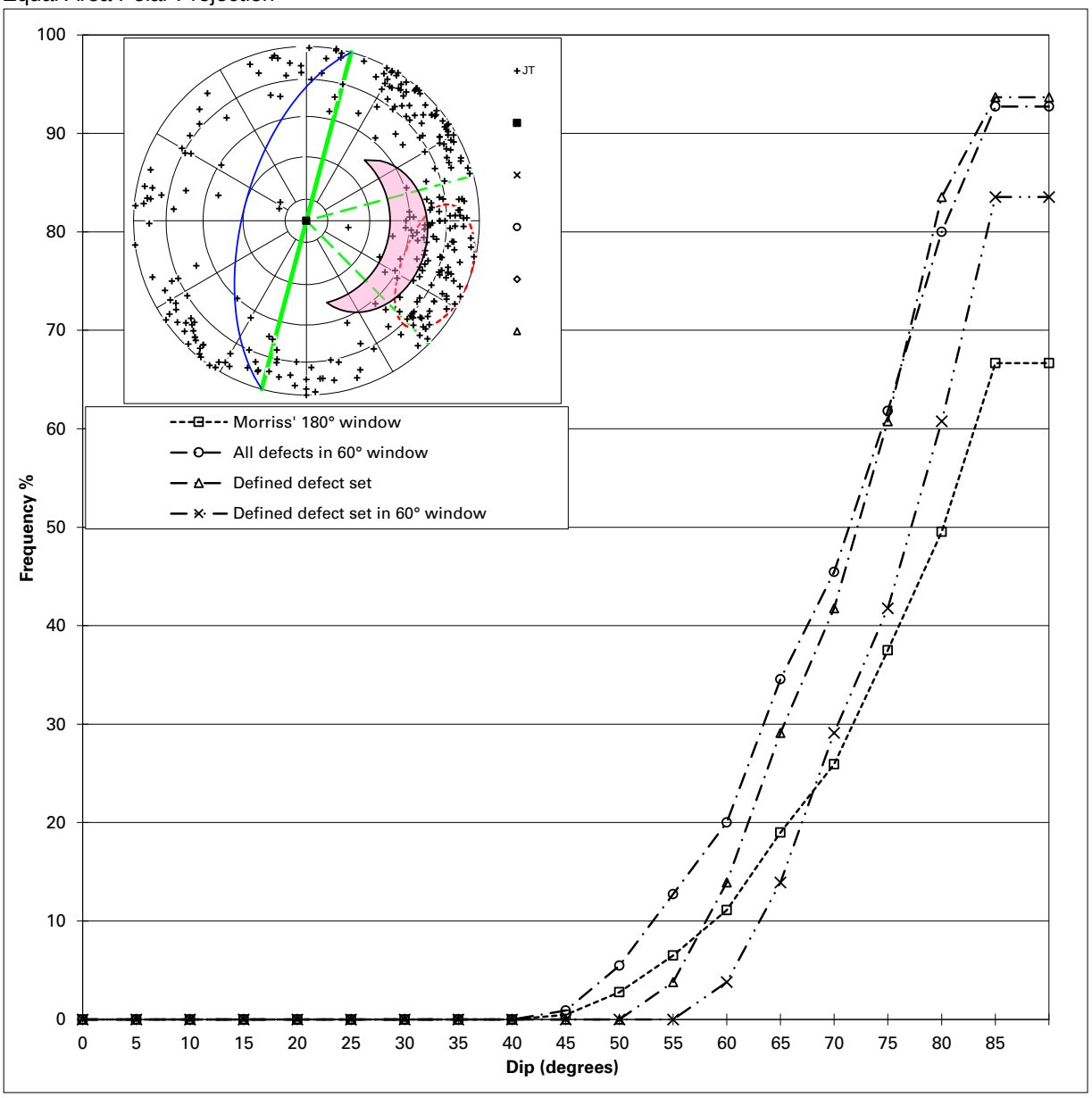
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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 ±	30

DEFECT SET

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

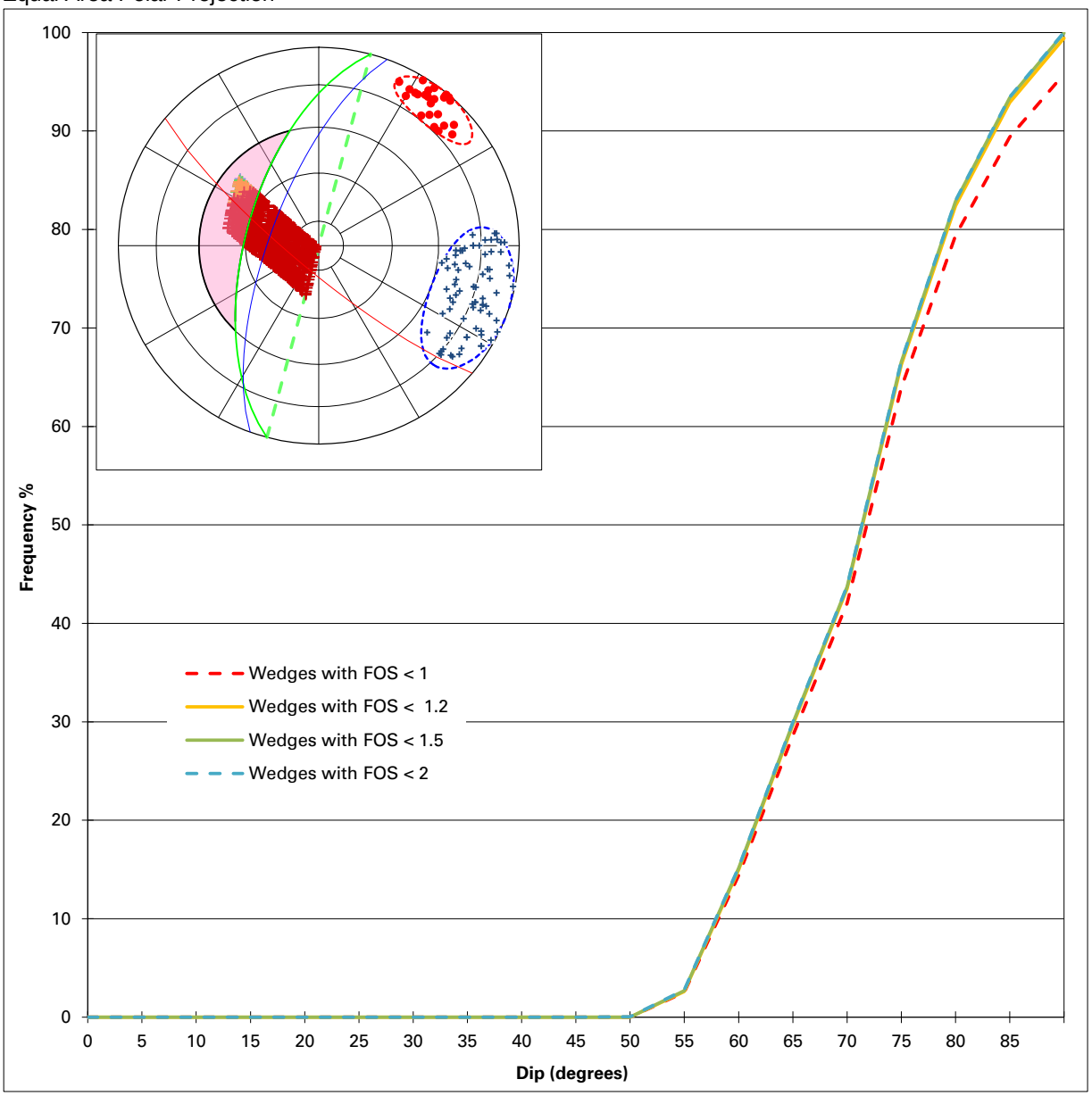
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

SECOND SET - BLUE

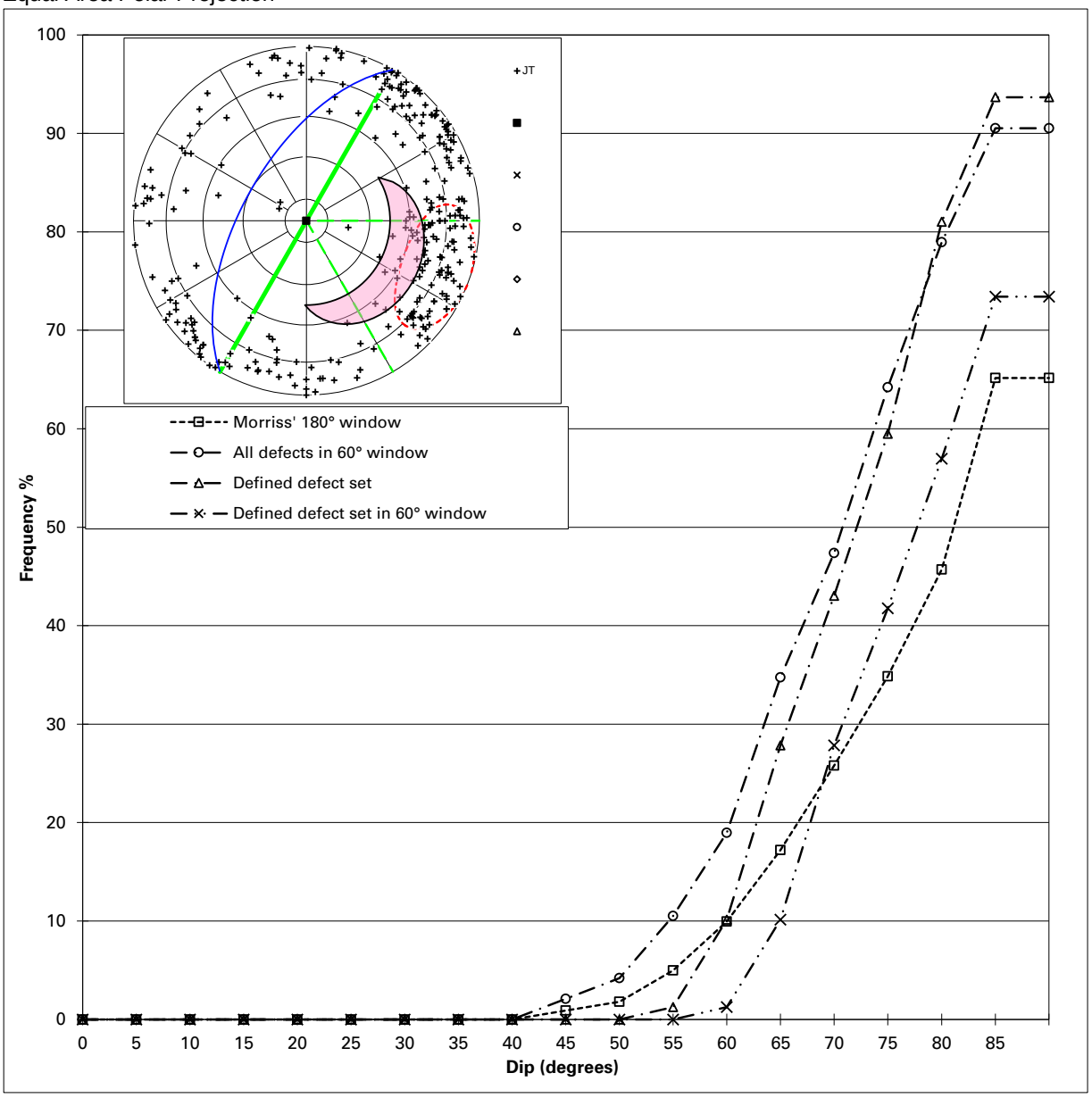
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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 ±	30

DEFECT SET

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

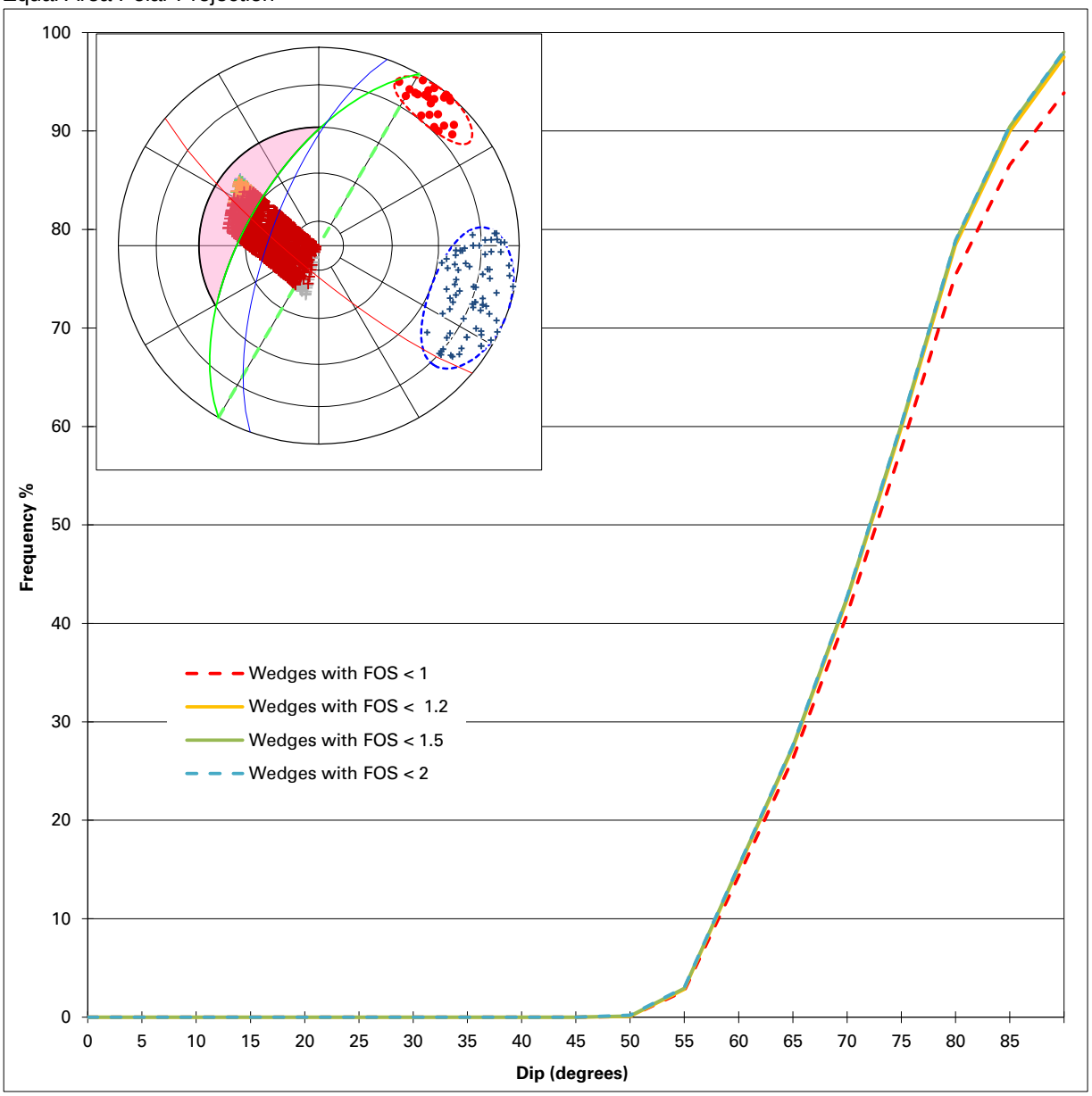
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

SECOND SET - BLUE

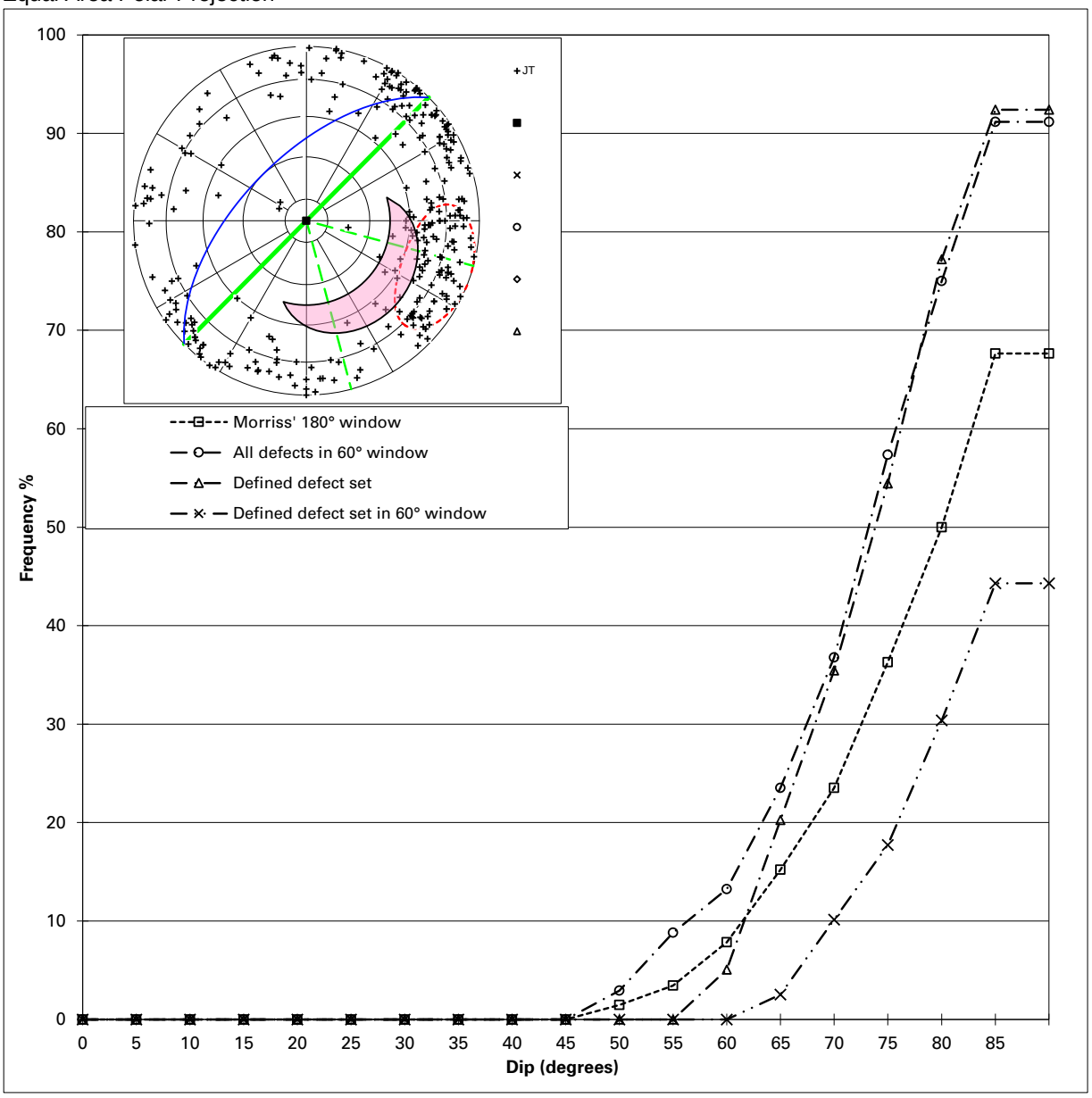
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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 ±	30

DEFECT SET

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

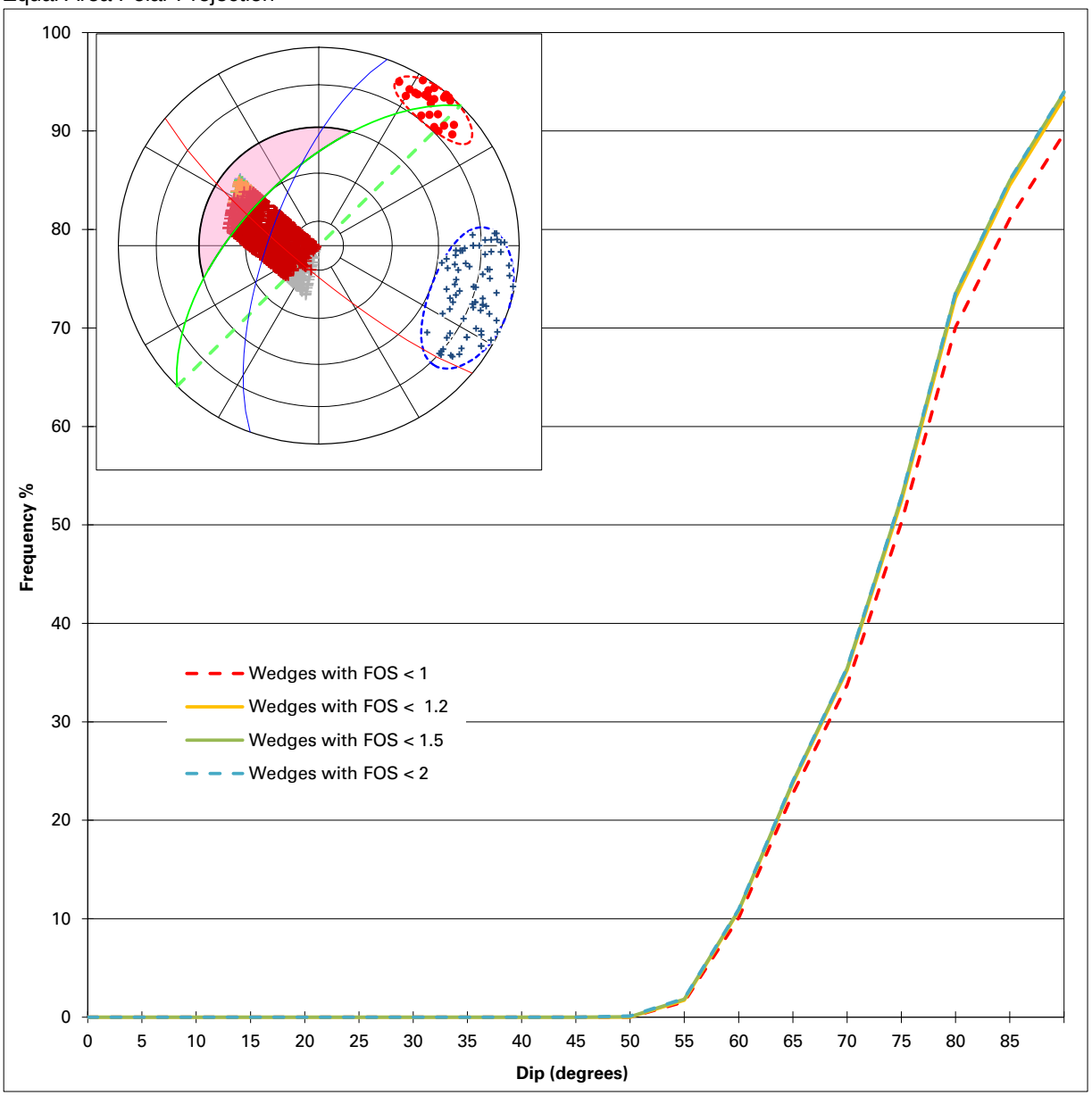
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

SECOND SET - BLUE

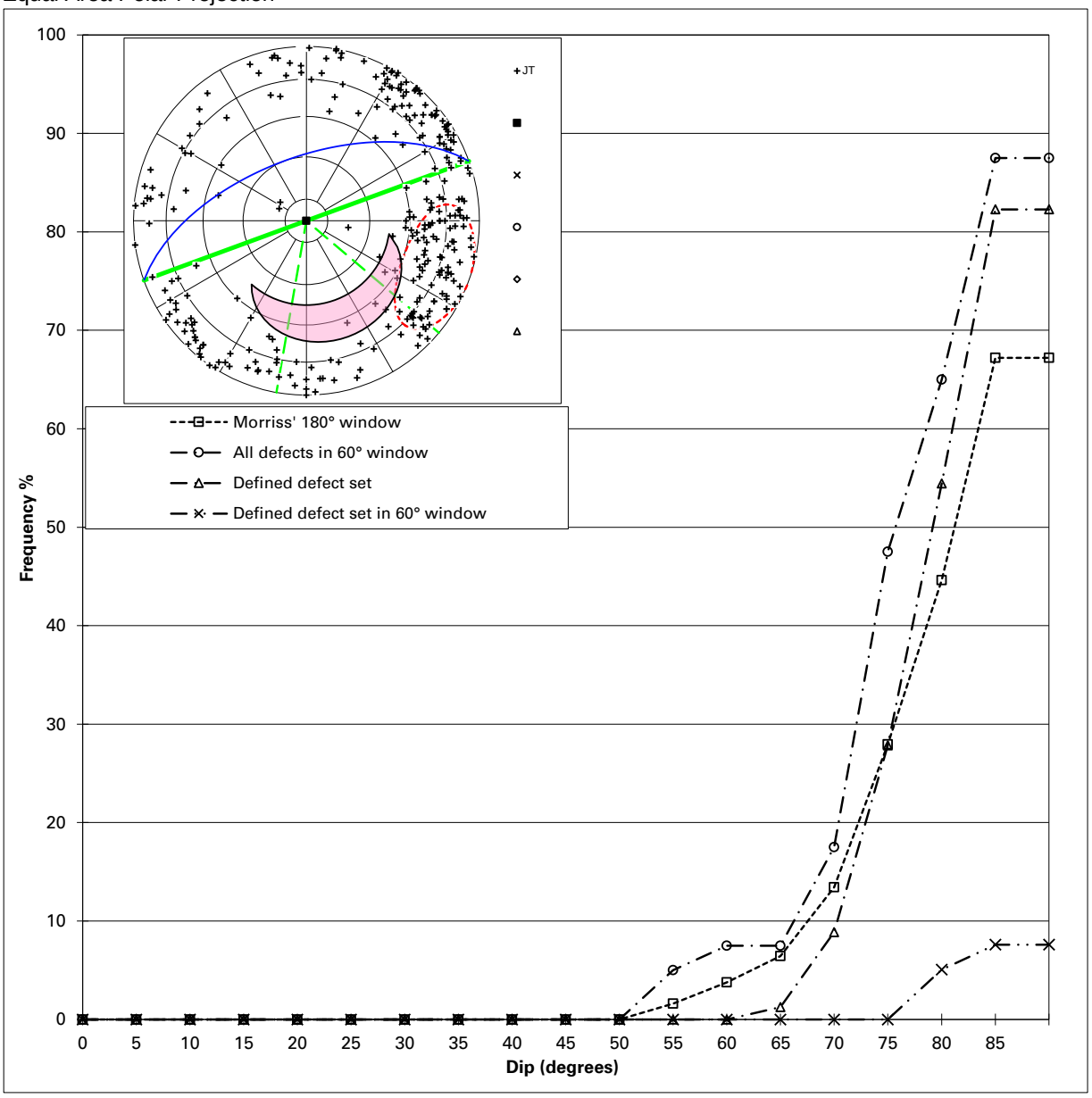
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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 ±	30

DEFECT SET

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

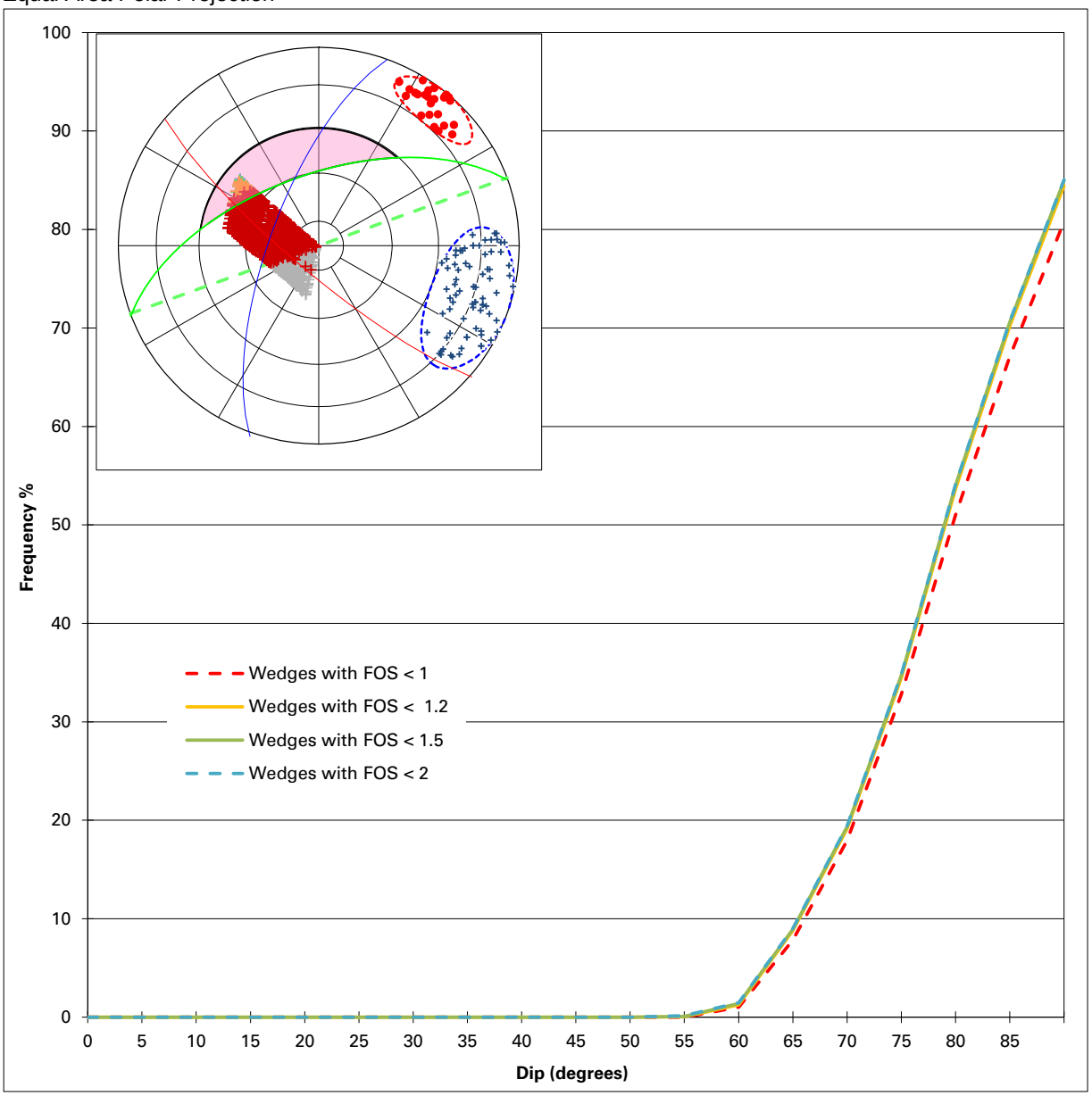
DEFECT SHEAR STRENGTHS

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 2	Mean	±
Dip	80	10
Dip Direction	220	15

Defects in set JT 2 31

SECOND SET - BLUE

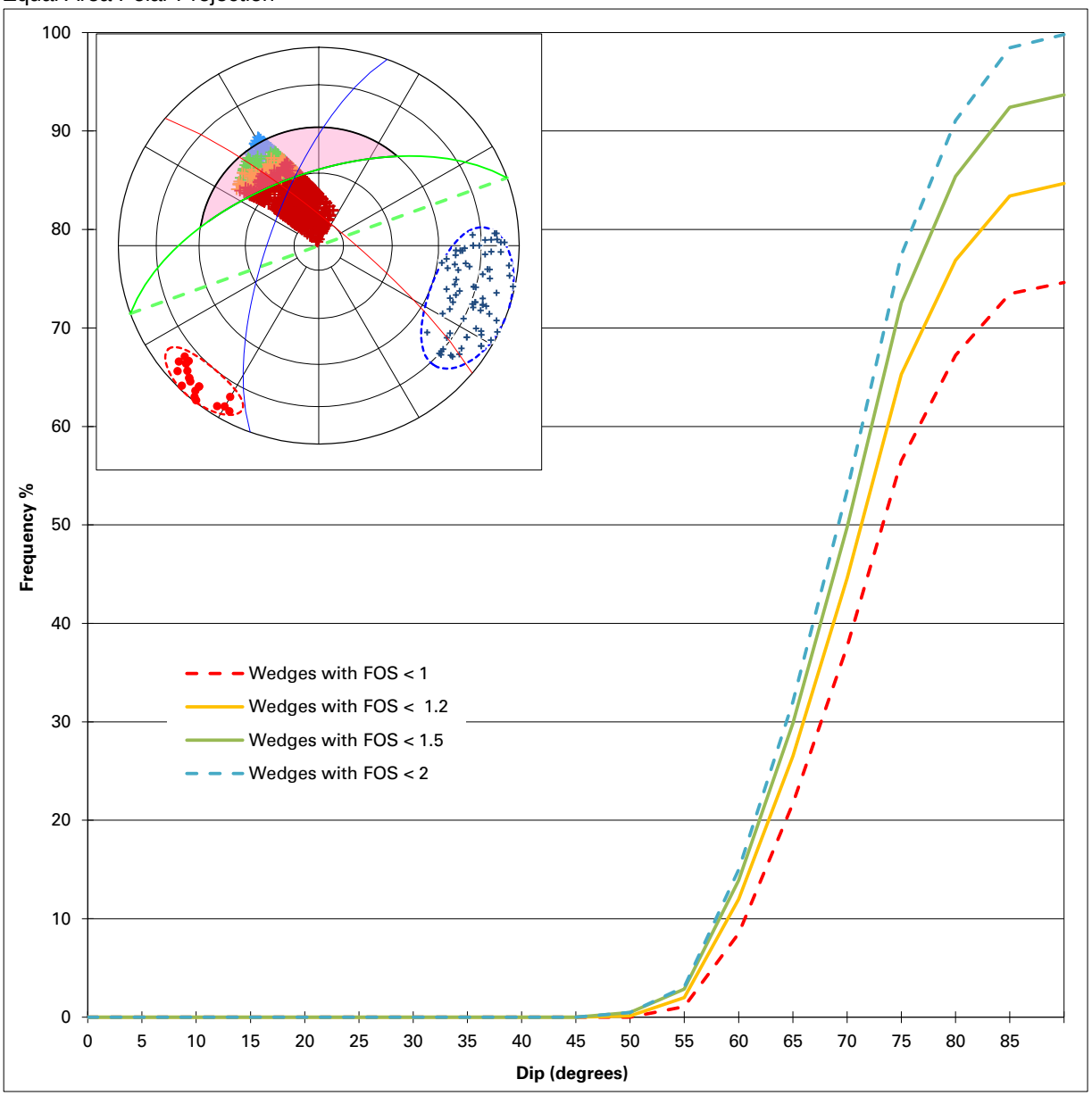
JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

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

DEFECT SHEAR STRENGTHS

Cohesion = 0 kPa
Friction Angle = 40°

FIRST SET - RED

JT 1	Mean	±
Dip	80	10
Dip Direction	40	15

Defects in set JT 1 19

SECOND SET - BLUE

JT 3	Mean	±
Dip	70	20
Dip Direction	290	25

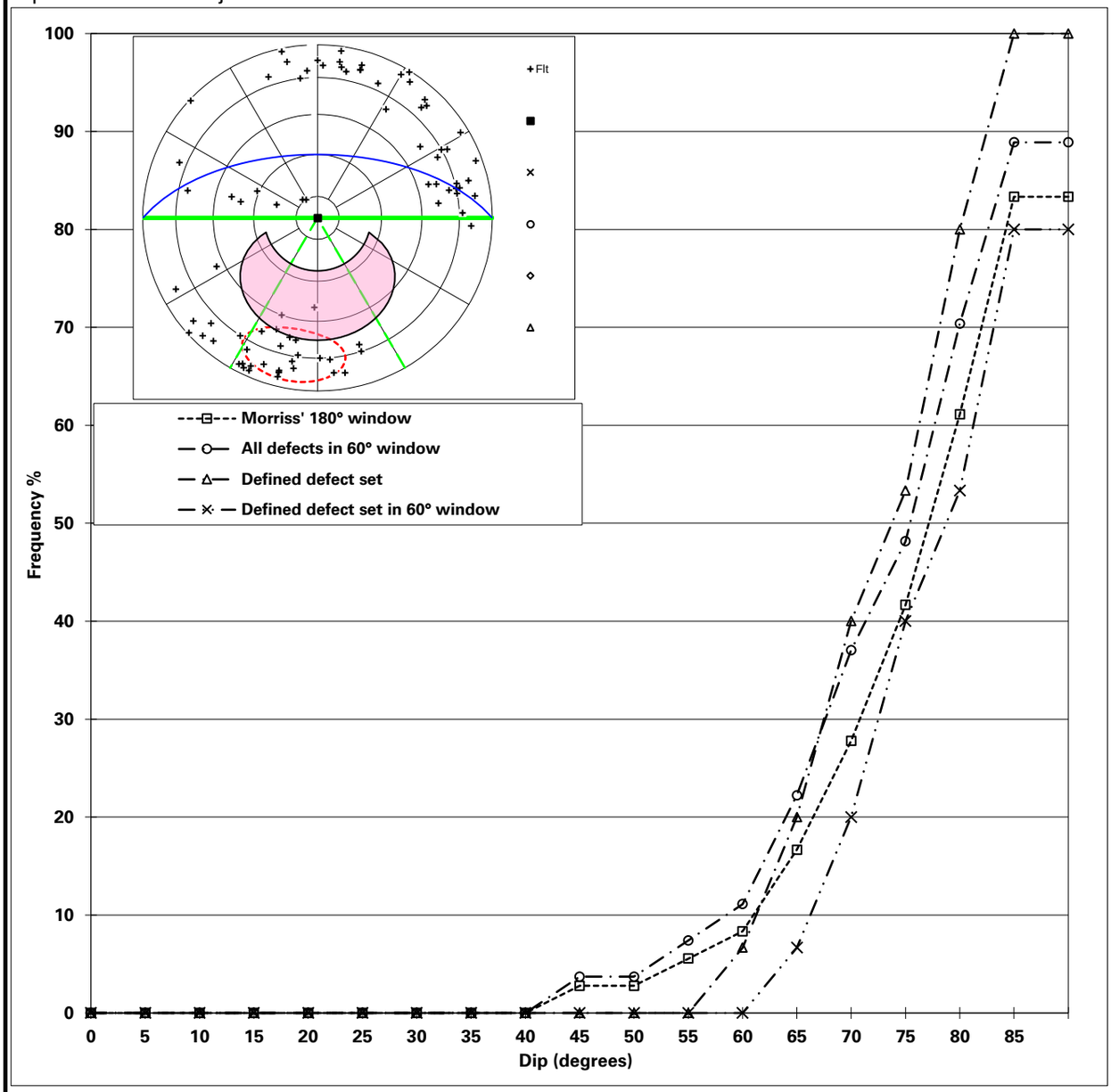
Defects in set JT 3 79

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