



## Appendix 11: Global Market Shock - Rates DVO1 (Adverse) (Cont.)

### DKK Directional Risks

Governments	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Agencies	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Municipals	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Swaps / Discounting Curve	2.0	2.2	5.5	13.8	27.5	82.5	104.5	110.0	121.0	123.8	143.0	159.5	176.0
Instruments shocked by MV**													
Other	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4

### DKK Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis													
1m Basis													
3m Basis													
6m Basis													
12m Basis													
Other Basis													

### EUR Directional Risks

Governments: Austria	100.0	90.0	85.0	80.0	75.0	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Governments: Belgium	137.9	124.1	117.2	110.3	103.4	102.4	129.7	136.5	150.2	153.6	177.5	197.9	218.4
Governments: Finland	100.0	90.0	85.0	80.0	75.0	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Governments: France	151.5	136.4	128.8	121.2	113.6	112.5	142.5	150.0	165.0	168.8	195.0	217.5	240.0
Governments: Germany	100.0	90.0	85.0	80.0	75.0	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Governments: Greece	1,327.3	1,194.5	1,128.2	1,061.8	995.5	985.5	1,248.3	1,314.0	1,445.4	1,478.3	1,708.2	1,905.3	2,102.4
Governments: Ireland	254.5	229.1	216.4	203.6	190.9	189.0	239.4	252.0	277.2	283.5	327.6	365.4	403.2
Governments: Italy	370.7	333.6	315.1	296.6	278.0	275.3	348.7	367.0	403.7	412.9	477.1	532.2	587.2
Governments: Netherlands	124.7	112.3	106.0	99.8	93.6	92.6	117.3	123.5	135.9	138.9	160.6	179.1	197.6
Governments: Portugal	636.9	573.2	541.3	509.5	477.7	472.9	599.0	630.5	693.6	709.3	819.7	914.2	1,008.8
Governments: Spain	353.0	317.7	300.1	282.4	264.8	262.1	332.0	349.5	384.5	393.2	454.4	506.8	559.2
Governments: Other	353.0	317.7	300.1	282.4	264.8	262.1	332.0	349.5	384.5	393.2	454.4	506.8	559.2
Agencies	151.5	136.4	128.8	121.2	113.6	112.5	142.5	150.0	165.0	168.8	195.0	217.5	240.0
Municipals	151.5	136.4	128.8	121.2	113.6	112.5	142.5	150.0	165.0	168.8	195.0	217.5	240.0
Swaps / Discounting Curve	80.0	72.0	68.0	64.0	70.0	82.5	104.5	110.0	121.0	123.8	143.0	159.5	176.0
Instruments shocked by MV**													
Other	80.0	72.0	68.0	64.0	70.0	82.5	104.5	110.0	121.0	123.8	143.0	159.5	176.0

### EUR Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis	(7.7)	(7.7)	(7.7)	(7.7)	(7.7)	(7.2)	(6.1)	(5.8)	(5.5)	(5.3)	(5.0)	(4.7)	(4.6)
1m Basis	(3.9)	(3.9)	(3.9)	(3.9)	(3.9)	(3.6)	(3.1)	(2.9)	(2.8)	(2.7)	(2.5)	(2.4)	(2.3)
3m Basis													
6m Basis	11.0	11.0	11.0	11.0	11.0	7.5	5.4	3.8	3.0	2.3	1.7	1.4	1.0
12m Basis	29.6	29.6	29.6	29.6	29.6	18.2	12.9	8.7	6.6	4.9	3.6	2.9	1.9
Other Basis													

### GBP Directional Risks

Governments	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Agencies	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Municipals	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Swaps / Discounting Curve	2.0	2.2	5.5	13.8	27.5	82.5	104.5	110.0	121.0	123.8	143.0	159.5	176.0
Instruments shocked by MV**													
Other	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4

### GBP Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis	(9.7)	(9.7)	(9.7)	(9.7)	(9.7)	(9.0)	(7.6)	(7.2)	(6.9)	(6.6)	(6.2)	(5.9)	(5.8)
1m Basis	(4.8)	(4.8)	(4.8)	(4.8)	(4.8)	(4.5)	(3.8)	(3.6)	(3.4)	(3.3)	(3.1)	(2.9)	(2.9)
3m Basis													
6m Basis	19.3	19.3	19.3	19.3	19.3	11.6	8.8	6.5	5.3	4.5	3.9	3.7	3.6
12m Basis	42.0	42.0	42.0	42.0	42.0	30.4	25.9	18.5	14.5	11.5	9.1	8.2	7.3
Other Basis													

## Appendix 11: Global Market Shock - Rates DVO1 (Adverse) (Cont.)

### JPY Directional Risks

Governments	0.0	0.6	1.6	4.0	7.9	23.8	30.1	31.7	34.8	35.6	41.2	45.9	50.7
Agencies	0.0	0.6	1.6	4.0	7.9	23.8	30.1	31.7	34.8	35.6	41.2	45.9	50.7
Municipals	0.0	0.6	1.6	4.0	7.9	23.8	30.1	31.7	34.8	35.6	41.2	45.9	50.7
Swaps / Discounting Curve	0.0	0.7	1.7	4.2	8.3	25.0	31.7	33.3	36.7	37.5	43.3	48.3	53.3
Instruments shocked by MV**													
Other	0.0	0.6	1.6	4.0	7.9	23.8	30.1	31.7	34.8	35.6	41.2	45.9	50.7

### JPY Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis	(7.50)	(7.50)	(7.50)	(7.00)	(6.50)	(6.00)	(5.50)	(5.00)	(4.50)	(4.00)	(3.50)	(3.00)	(3.00)
1m TIBOR Basis	(5.0)	(5.0)	(5.0)	(4.5)	(4.0)	(3.5)	(3.0)	(2.5)	(2.0)	(1.5)	(1.0)	(0.5)	(0.5)
3m TIBOR Basis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6m TIBOR Basis	4.8	4.8	4.8	4.8	4.8	2.8	1.8	2.0	1.4	1.1	0.7	0.4	0.3
12m TIBOR Basis													
1m LIBOR Basis	(5.0)	(5.0)	(5.0)	(4.5)	(4.0)	(3.5)	(3.0)	(2.5)	(2.0)	(1.5)	(1.0)	(0.5)	(0.5)
3m LIBOR Basis													
6m LIBOR Basis	4.8	4.8	4.8	4.8	4.8	2.8	1.8	2.0	1.4	1.1	0.7	0.4	0.3
12m LIBOR Basis													
Other Basis													

### NOK Directional Risks

Governments	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Agencies	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Municipals	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4
Swaps / Discounting Curve	2.0	2.2	5.5	13.8	27.5	82.5	104.5	110.0	121.0	123.8	143.0	159.5	176.0
Instruments shocked by MV**													
Other	1.8	2.0	5.0	12.4	24.8	74.3	94.1	99.0	108.9	111.4	128.7	143.6	158.4

### NOK Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis													
1m Basis													
3m Basis													
6m Basis													
12m Basis													
Other Basis													

### NZD Directional Risks

Governments	0.0	1.4	3.6	9.0	18.1	54.2	68.6	72.3	79.5	81.3	93.9	104.8	115.6
Agencies	0.0	1.4	3.6	9.0	18.1	54.2	68.6	72.3	79.5	81.3	93.9	104.8	115.6
Municipals	0.0	1.4	3.6	9.0	18.1	54.2	68.6	72.3	79.5	81.3	93.9	104.8	115.6
Swaps / Discounting Curve	0.0	1.7	4.3	10.6	21.3	63.8	80.8	85.0	93.5	95.6	110.5	123.3	136.0
Instruments shocked by MV**													
Other	0.0	1.4	3.6	9.0	18.1	54.2	68.6	72.3	79.5	81.3	93.9	104.8	115.6

### NZD Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis													
1m Basis													
3m Basis													
6m Basis													
12m Basis													
Other Basis													

### SEK Directional Risks

Governments	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4
Agencies	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4
Municipals	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4
Swaps / Discounting Curve	0.0	1.7	4.3	10.6	21.3	63.8	80.8	85.0	93.5	95.6	110.5	123.3	136.0
Instruments shocked by MV**													
Other	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4

## Appendix 11: Global Market Shock - Rates DVO1 (Adverse) (Cont.)

### SEK Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis													
1m Basis													
3m Basis													
6m Basis													
12m Basis													
Other Basis													

### USD Directional Risks

Governments	0.0	1.8	4.5	11.3	22.5	67.5	85.5	90.0	99.0	101.3	117.0	130.5	144.0
Agencies	0.0	1.8	4.5	11.3	22.5	67.5	85.5	90.0	99.0	101.3	117.0	130.5	144.0
Municipals	0.0	1.8	4.5	11.3	22.5	67.5	85.5	90.0	99.0	101.3	117.0	130.5	144.0
Swaps / Discounting Curve	0.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0
Instruments shocked by MV**													
Other	0.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0

### USD Basis Risks (Do not include the swap/discounting curve specified above)

Prime Basis	(5.0)	(7.5)	(12.5)	(17.5)	(15.0)	(9.0)	(6.0)	(5.0)	(4.5)	(4.0)	(3.5)	(2.5)	(1.5)
CP Basis	(5.0)	(7.5)	(12.5)	(17.5)	(15.0)	(9.0)	(6.0)	(5.0)	(4.5)	(4.0)	(3.5)	(2.5)	(1.5)
OIS Basis	(5.0)	(7.5)	(12.5)	(17.5)	(15.0)	(9.0)	(6.0)	(5.0)	(4.5)	(4.0)	(3.5)	(2.5)	(1.5)
1m Basis	(2.5)	(5.0)	(10.0)	(15.0)	(13.0)	(6.7)	(4.2)	(3.5)	(3.0)	(2.5)	(2.0)	(1.5)	(1.0)
3m Basis													
6m Basis	13.0	13.0	13.0	13.0	13.0	9.3	8.0	6.1	5.4	5.1	5.1	5.1	5.1
12m Basis	26.9	26.9	26.9	26.9	26.9	20.0	16.8	12.7	11.1	11.1	8.2	7.2	5.3
Other Basis													

Absolute increase in Muni SIFMA/Libor Ratio (Pts)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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### Other Advanced Economies Directional Risks

Governments	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4
Agencies	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4
Municipals	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4
Swaps / Discounting Curve	0.0	1.7	4.3	10.6	21.3	63.8	80.8	85.0	93.5	95.6	110.5	123.3	136.0
Instruments shocked by MV**													
Other	0.0	1.5	3.8	9.6	19.1	57.4	72.7	76.5	84.2	86.1	99.5	110.9	122.4

### Directional Risks: Emerging Europe

BGN	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
CZK	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
HRK	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
HUF	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
PLN	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
RON	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
RUB	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
Other Emerging Europe	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0

## Appendix 11: Global Market Shock - Rates DVO1 (Adverse) (Cont.)

### Directional Risks: Latin America & Caribbean

ARS	150.0	150.0	150.0	150.0	150.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
BRL	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
CLP	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
COP	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
MXN	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
PEN	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
VEF	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
Other Latam & Caribbean	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0

### Directional Risks: Asia Ex-Japan

CNY	0.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0
HKD	0.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0
IDR	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
INR	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
KRW	1.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0
MYR	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
PHP	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
SGD	0.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0
THB	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
TWD	0.0	2.0	5.0	12.5	25.0	75.0	95.0	100.0	110.0	112.5	130.0	145.0	160.0
Other Asia Ex-Japan	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0

### Directional Risks: Middle East/North Africa

ILS	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
TRY	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
Other Middle East/Africa	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0

### Directional Risks: Sub-Saharan Africa

ZAR	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0
Other Sub-Saharan Africa	93.8	93.8	93.8	93.8	93.8	93.8	118.8	125.0	137.5	140.6	162.5	181.3	200.0



## Appendix 11: Global Market Shock – Relative Normal Interest Rate Shocks (Adverse) (Cont.)

USD															
EXPIRY	1M	15.9%	19.1%	25.4%	28.6%	31.8%	26.6%	25.6%	16.8%	15.4%	21.4%	22.4%	29.7%	30.0%	33.5%
	3M	21.8%	21.8%	21.8%	26.2%	32.7%	31.2%	23.7%	16.1%	14.8%	20.2%	21.0%	27.7%	28.3%	30.4%
	6M	21.3%	21.3%	21.3%	21.3%	26.6%	25.5%	19.3%	14.9%	13.9%	19.4%	20.5%	26.7%	28.1%	28.3%
	9M	21.3%	14.2%	14.2%	14.2%	42.6%	25.0%	18.4%	14.3%	13.3%	13.5%	14.3%	18.2%	21.4%	24.6%
	1Y	21.4%	33.4%	41.7%	50.0%	59.6%	38.7%	28.0%	13.7%	13.3%	13.2%	14.1%	14.6%	18.0%	21.2%
	2Y	27.8%	30.9%	37.0%	43.2%	49.4%	35.5%	21.3%	12.5%	12.6%	12.9%	14.4%	14.4%	14.9%	21.1%
	3Y	48.0%	45.6%	43.2%	41.8%	40.8%	28.6%	19.1%	12.2%	12.4%	12.8%	14.2%	14.5%	14.9%	21.4%
	5Y	62.4%	55.4%	48.5%	41.6%	34.6%	25.6%	18.5%	17.7%	17.5%	18.1%	19.8%	17.7%	18.5%	22.2%
	7Y	62.8%	53.1%	43.5%	38.6%	31.4%	24.4%	18.9%	18.0%	18.6%	19.3%	21.2%	21.9%	23.1%	23.7%
	10Y	61.8%	50.6%	42.1%	33.7%	28.1%	21.9%	21.2%	20.2%	21.0%	21.2%	23.7%	24.6%	25.7%	26.1%
	15Y	67.4%	56.8%	46.1%	36.9%	28.4%	24.2%	23.9%	23.8%	24.2%	24.6%	27.3%	28.9%	29.6%	30.3%
20Y	66.5%	54.0%	41.5%	37.4%	29.1%	28.3%	27.8%	27.2%	27.7%	28.2%	31.4%	32.3%	33.1%	34.0%	
30Y	67.2%	56.9%	46.5%	39.3%	36.2%	34.7%	33.1%	31.0%	31.2%	31.3%	34.4%	33.3%	36.6%	40.1%	

Other Advanced Economies															
EXPIRY	1M	5.8%	7.0%	9.3%	10.4%	11.6%	10.5%	11.5%	11.6%	11.1%	14.7%	13.8%	17.5%	17.3%	19.1%
	3M	8.3%	8.3%	8.3%	9.9%	12.4%	10.4%	10.4%	10.9%	10.4%	13.9%	13.1%	16.7%	16.5%	17.4%
	6M	7.9%	7.9%	7.9%	7.9%	9.9%	10.6%	10.1%	10.8%	10.3%	13.9%	13.2%	16.8%	16.6%	16.6%
	9M	8.6%	5.7%	5.7%	5.7%	17.2%	12.8%	11.2%	10.6%	10.3%	10.0%	9.6%	11.4%	13.1%	15.0%
	1Y	9.0%	14.0%	17.4%	20.9%	24.9%	21.0%	18.2%	10.4%	10.4%	10.1%	9.7%	9.6%	11.4%	13.4%
	2Y	17.8%	19.8%	23.7%	27.7%	31.6%	25.7%	16.5%	10.4%	10.3%	10.5%	10.3%	10.3%	10.2%	14.5%
	3Y	39.9%	37.9%	35.9%	34.7%	33.9%	24.4%	16.5%	10.8%	11.0%	11.2%	11.2%	11.1%	11.1%	15.9%
	5Y	57.5%	51.1%	44.7%	38.3%	31.9%	23.6%	17.5%	16.9%	17.1%	17.8%	18.0%	15.5%	15.5%	18.9%
	7Y	62.6%	53.0%	43.4%	38.6%	31.3%	22.7%	18.3%	17.9%	18.5%	19.2%	19.4%	19.4%	19.9%	20.9%
	10Y	56.8%	46.5%	38.7%	31.0%	25.8%	20.9%	19.6%	19.0%	19.8%	20.4%	20.5%	20.5%	21.9%	23.1%
	15Y	52.8%	44.5%	36.1%	28.9%	22.2%	19.8%	20.1%	20.8%	21.0%	21.2%	21.0%	23.2%	25.0%	26.6%
20Y	42.8%	34.8%	26.8%	24.1%	18.7%	19.1%	19.5%	20.1%	20.4%	20.7%	24.3%	27.0%	29.2%	31.2%	
30Y	76.1%	64.4%	52.7%	44.5%	41.0%	42.1%	43.2%	44.8%	47.0%	49.0%	51.4%	53.6%	55.7%	57.7%	

Total Emerging Europe															
EXPIRY	1M	24.4%	29.3%	39.1%	44.0%	48.9%	59.7%	64.9%	47.5%	38.3%	43.2%	35.8%	43.6%	43.2%	47.9%
	3M	50.3%	50.3%	50.3%	60.3%	75.4%	66.7%	60.7%	45.7%	37.2%	42.4%	35.4%	43.3%	42.9%	45.7%
	6M	63.4%	63.4%	63.4%	63.4%	79.3%	66.1%	54.7%	43.0%	35.6%	41.1%	34.8%	42.7%	42.5%	42.6%
	9M	66.6%	44.4%	44.4%	44.4%	133.1%	76.4%	56.1%	40.6%	34.0%	28.5%	24.4%	28.1%	32.7%	37.6%
	1Y	65.1%	101.2%	126.5%	151.8%	180.8%	119.1%	84.8%	38.2%	32.5%	27.6%	23.9%	23.1%	27.7%	32.6%
	2Y	91.1%	101.2%	121.5%	141.7%	161.9%	107.5%	58.6%	31.0%	27.5%	24.7%	22.4%	22.1%	22.2%	31.7%
	3Y	140.4%	133.4%	126.4%	122.2%	119.4%	74.7%	47.7%	26.9%	24.5%	22.7%	21.4%	21.4%	21.6%	31.2%
	5Y	149.6%	132.9%	116.3%	99.7%	83.1%	56.7%	38.4%	32.5%	30.3%	28.4%	28.3%	24.8%	25.3%	31.0%
	7Y	118.3%	100.1%	81.9%	72.8%	59.2%	42.8%	31.6%	28.5%	27.3%	27.1%	27.7%	28.6%	29.7%	31.3%
	10Y	89.2%	73.0%	60.8%	48.6%	40.5%	31.6%	28.3%	25.7%	26.4%	26.9%	28.3%	29.2%	31.2%	33.0%
	15Y	79.8%	67.2%	54.6%	43.7%	33.6%	29.1%	29.0%	28.8%	29.8%	30.6%	31.5%	34.3%	36.6%	38.6%
20Y	76.2%	61.9%	47.6%	42.9%	33.4%	33.2%	33.3%	33.4%	33.6%	33.8%	37.9%	40.8%	43.3%	45.5%	
30Y	97.6%	82.5%	67.5%	57.0%	52.5%	52.8%	53.3%	54.3%	55.2%	56.5%	58.7%	60.7%	62.7%	64.5%	

Total Latam & Caribbean															
EXPIRY	1M	5.4%	6.5%	8.7%	9.8%	10.8%	12.1%	11.1%	11.5%	7.8%	11.8%	10.6%	14.2%	13.7%	15.1%
	3M	9.7%	9.7%	9.7%	11.7%	14.6%	13.4%	9.8%	11.2%	7.6%	10.0%	10.7%	14.5%	14.1%	14.9%
	6M	8.2%	8.2%	8.2%	8.2%	10.2%	14.1%	8.8%	11.7%	7.4%	10.2%	10.8%	14.5%	14.1%	14.1%
	9M	10.7%	7.1%	7.1%	7.1%	21.4%	17.5%	9.5%	11.9%	7.3%	8.1%	7.5%	9.5%	10.8%	12.3%
	1Y	13.8%	21.4%	26.7%	32.1%	38.2%	29.1%	14.9%	12.2%	7.1%	9.5%	7.3%	7.7%	9.0%	10.5%
	2Y	26.7%	29.7%	35.6%	41.5%	47.5%	22.2%	12.6%	6.6%	6.4%	9.4%	6.6%	6.8%	6.8%	9.5%
	3Y	37.1%	35.2%	33.4%	32.3%	31.5%	18.2%	11.5%	6.3%	6.1%	6.2%	6.3%	6.5%	6.4%	9.1%
	5Y	43.1%	38.3%	33.5%	28.8%	24.0%	14.8%	10.0%	8.5%	8.3%	12.4%	8.3%	7.2%	7.2%	8.6%
	7Y	39.2%	33.2%	27.2%	24.2%	19.6%	14.4%	11.1%	9.2%	9.4%	11.7%	7.8%	8.0%	8.1%	8.4%
	10Y	28.2%	23.1%	19.2%	15.4%	12.8%	11.9%	12.9%	12.9%	12.3%	11.1%	7.4%	7.5%	7.9%	8.2%
	15Y	21.6%	18.2%	14.8%	11.8%	9.1%	9.4%	11.0%	11.9%	11.4%	10.3%	7.4%	8.0%	8.6%	9.2%
20Y	16.8%	13.6%	10.5%	9.4%	7.3%	8.7%	10.3%	11.2%	11.5%	10.9%	9.0%	10.2%	11.2%	12.0%	
30Y	58.2%	49.2%	40.3%	34.0%	31.3%	36.5%	42.6%	45.4%	45.9%	43.2%	32.2%	33.7%	35.1%	36.5%	

## Appendix 11: Global Market Shock – Relative Normal Interest Rate Shocks (Adverse) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	12.3%	14.8%	19.7%	22.2%	24.6%	35.7%	32.2%	26.3%	25.8%	32.7%	32.3%	39.7%	41.5%	48.1%
	3M	24.4%	24.4%	24.4%	29.2%	36.6%	42.4%	31.8%	26.0%	25.6%	32.5%	32.1%	39.7%	41.5%	46.1%
	6M	21.2%	21.2%	21.2%	21.2%	26.5%	30.6%	29.1%	26.8%	25.6%	32.9%	32.5%	40.4%	42.3%	44.1%
	9M	24.7%	16.4%	16.4%	16.4%	49.3%	38.6%	32.6%	27.1%	26.1%	24.1%	23.8%	27.8%	34.0%	40.5%
	1Y	27.7%	43.1%	53.9%	64.7%	77.1%	66.4%	54.0%	27.5%	26.5%	24.8%	24.5%	24.0%	30.1%	36.7%
	2Y	56.3%	62.6%	75.1%	87.6%	100.1%	78.5%	47.7%	27.2%	26.8%	26.4%	26.0%	26.0%	27.4%	40.0%
	3Y	114.9%	109.1%	103.4%	100.0%	97.7%	67.9%	44.5%	27.0%	26.8%	26.7%	26.1%	26.7%	28.2%	41.3%
	5Y	149.8%	133.2%	116.5%	99.9%	83.2%	60.7%	42.4%	37.6%	36.8%	37.5%	35.9%	33.0%	34.9%	42.8%
	7Y	138.7%	117.3%	96.0%	85.3%	69.3%	53.4%	40.0%	36.6%	37.2%	36.6%	37.0%	39.8%	42.2%	44.4%
	10Y	121.7%	99.6%	83.0%	66.4%	55.3%	44.7%	41.5%	38.7%	36.8%	35.6%	39.6%	42.8%	45.4%	47.8%
	15Y	90.0%	75.8%	61.6%	49.3%	37.9%	33.5%	33.2%	32.4%	36.2%	40.3%	45.1%	48.7%	51.7%	54.4%
	20Y	125.6%	102.0%	78.5%	70.6%	54.9%	56.2%	56.5%	56.4%	57.7%	59.7%	62.5%	65.2%	67.7%	70.1%
30Y	129.0%	109.1%	89.3%	75.4%	69.4%	70.9%	71.1%	70.7%	72.0%	74.2%	77.1%	79.9%	82.6%	85.2%	

### Total ME/N. Africa

EXPIRY	1M	12.9%	15.5%	20.7%	23.3%	25.9%	30.5%	34.7%	27.6%	21.7%	25.0%	22.1%	27.5%	28.7%	33.2%
	3M	24.6%	24.6%	24.6%	29.5%	36.9%	34.2%	32.8%	26.4%	21.0%	24.5%	21.9%	27.3%	28.5%	31.7%
	6M	26.3%	26.3%	26.3%	26.3%	32.9%	33.9%	30.0%	24.7%	20.1%	23.8%	21.5%	27.0%	28.2%	29.4%
	9M	29.2%	19.5%	19.5%	19.5%	58.5%	39.4%	31.2%	23.2%	19.2%	16.5%	15.1%	17.8%	21.8%	26.0%
	1Y	31.4%	48.8%	61.0%	73.2%	87.2%	62.6%	48.0%	21.7%	18.4%	16.0%	14.8%	14.7%	18.5%	22.5%
	2Y	50.2%	55.8%	66.9%	78.1%	89.3%	63.3%	35.0%	17.6%	15.8%	14.5%	13.9%	14.1%	14.9%	21.9%
	3Y	86.4%	82.1%	77.8%	75.2%	73.5%	45.7%	27.7%	15.3%	14.1%	13.5%	13.2%	13.8%	14.7%	21.6%
	5Y	78.9%	70.1%	61.3%	52.6%	43.8%	30.3%	20.9%	18.2%	17.5%	17.3%	17.6%	16.4%	17.5%	21.6%
	7Y	66.0%	55.9%	45.7%	40.6%	33.0%	24.6%	18.2%	16.9%	16.9%	17.1%	18.1%	19.8%	21.3%	22.6%
	10Y	54.3%	44.4%	37.0%	29.6%	24.7%	19.5%	18.1%	17.0%	17.4%	17.6%	20.2%	22.2%	23.9%	25.3%
	15Y	50.4%	42.4%	34.5%	27.6%	21.2%	18.6%	18.6%	18.7%	21.0%	23.5%	26.5%	28.8%	30.7%	32.4%
	20Y	74.7%	60.7%	46.7%	42.0%	32.7%	33.1%	33.6%	34.5%	35.3%	36.6%	38.5%	40.3%	42.0%	43.6%
30Y	80.3%	68.0%	55.6%	47.0%	43.3%	43.8%	44.2%	45.2%	46.1%	47.4%	49.4%	51.4%	53.3%	55.0%	

### Total Sub-Saharan Africa

EXPIRY	1M	2.4%	2.9%	3.8%	4.3%	4.8%	6.6%	9.2%	9.5%	8.9%	11.7%	11.1%	14.2%	14.2%	15.7%
	3M	4.7%	4.7%	4.7%	5.6%	7.0%	7.8%	9.0%	9.3%	8.8%	11.6%	11.0%	14.1%	14.1%	15.0%
	6M	5.4%	5.4%	5.4%	5.4%	6.8%	8.4%	8.7%	9.1%	8.6%	11.4%	10.9%	13.9%	14.0%	14.0%
	9M	6.5%	4.3%	4.3%	4.3%	13.0%	10.5%	9.6%	8.9%	8.5%	8.0%	7.7%	9.2%	10.8%	12.3%
	1Y	7.5%	11.6%	14.5%	17.4%	20.7%	18.1%	15.7%	8.7%	8.3%	7.9%	7.6%	7.6%	9.2%	10.7%
	2Y	16.8%	18.6%	22.4%	26.1%	29.8%	23.0%	14.1%	8.2%	7.9%	7.6%	7.4%	7.4%	7.5%	10.6%
	3Y	33.6%	32.0%	30.3%	29.3%	28.6%	19.8%	12.8%	7.8%	7.5%	7.3%	7.2%	7.3%	7.3%	10.4%
	5Y	40.8%	36.3%	31.7%	27.2%	22.7%	16.6%	11.6%	10.4%	9.9%	9.8%	9.9%	8.6%	8.6%	10.4%
	7Y	37.4%	31.7%	25.9%	23.0%	18.7%	14.2%	10.7%	9.6%	9.6%	9.6%	9.8%	10.0%	10.2%	10.6%
	10Y	29.1%	23.8%	19.8%	15.9%	13.2%	10.7%	9.9%	9.4%	9.6%	9.8%	10.1%	10.2%	10.8%	11.3%
	15Y	27.3%	23.0%	18.7%	15.0%	11.5%	10.2%	10.4%	10.7%	10.7%	11.0%	10.9%	12.0%	13.0%	13.8%
	20Y	25.0%	20.3%	15.6%	14.1%	10.9%	11.1%	11.3%	11.6%	11.3%	11.4%	13.4%	15.0%	16.4%	17.7%
30Y	60.0%	50.7%	41.5%	35.1%	32.3%	32.8%	33.2%	34.2%	35.0%	36.3%	38.3%	40.1%	41.8%	43.4%	





## Appendix 11: Global Market Shock – Relative LogNormal Interest Rate Shocks (Adverse) (Cont.)

USD																
EXPIRY	1M	47.6%	25.8%	10.9%	-13.1%	-32.3%	-51.7%	-43.3%	-28.7%	-23.0%	-13.3%	-12.0%	-7.9%	-7.9%	-6.6%	
	3M	34.6%	21.4%	-7.7%	-29.4%	-41.2%	-50.2%	-42.3%	-28.3%	-22.7%	-13.8%	-12.8%	-9.1%	-8.8%	-8.5%	
	6M	-4.1%	-14.3%	-35.6%	-47.5%	-53.3%	-51.8%	-41.9%	-27.9%	-22.5%	-13.9%	-12.9%	-9.4%	-8.7%	-9.6%	
	9M	-33.5%	-43.6%	-51.9%	-57.7%	-52.9%	-50.5%	-40.1%	-27.3%	-22.1%	-17.8%	-17.2%	-15.2%	-13.2%	-11.8%	
	1Y	-42.5%	-41.8%	-44.6%	-46.9%	-48.5%	-41.3%	-31.8%	-26.0%	-20.9%	-17.2%	-16.9%	-17.4%	-15.2%	-13.7%	
	2Y	-25.4%	-26.3%	-26.8%	-27.1%	-27.5%	-19.6%	-20.4%	-20.9%	-16.4%	-14.1%	-14.4%	-15.4%	-15.6%	-11.6%	
	3Y	12.5%	8.2%	2.9%	-1.4%	-5.1%	-8.0%	-12.1%	-14.5%	-13.1%	-12.0%	-12.9%	-13.5%	-14.0%	-9.4%	
	5Y	35.4%	27.8%	19.6%	11.8%	4.3%	-4.8%	-6.4%	-6.3%	-5.1%	-7.4%	-7.8%	-9.6%	-10.3%	-7.0%	
	7Y	44.8%	35.2%	25.3%	19.8%	12.3%	4.1%	-2.4%	-2.4%	-4.6%	-6.0%	-6.1%	-6.3%	-6.2%	-5.4%	
	10Y	39.6%	29.4%	21.3%	13.4%	7.9%	2.0%	-1.6%	-6.6%	-6.2%	-7.9%	-5.7%	-6.6%	-5.0%	-4.7%	
	15Y	30.6%	22.0%	13.4%	5.9%	-1.0%	-5.3%	-6.6%	-8.9%	-7.4%	-7.2%	-6.9%	-4.7%	-4.3%	-4.2%	
20Y	29.7%	19.9%	10.0%	6.6%	0.1%	-1.5%	-2.7%	-4.9%	-5.7%	-7.5%	-4.0%	-3.7%	-3.9%	-4.4%		
30Y	25.5%	17.8%	10.0%	4.6%	2.2%	0.2%	-1.8%	-4.9%	-5.9%	-7.5%	-7.0%	-10.1%	-15.1%	-18.5%		

Other Advanced Economies																
EXPIRY	1M	9.0%	8.8%	8.7%	5.8%	1.5%	-9.0%	-10.6%	-9.5%	-9.3%	-5.6%	-7.9%	-6.6%	-7.1%	-6.4%	
	3M	12.1%	10.9%	6.8%	3.0%	-1.2%	-10.6%	-11.9%	-10.3%	-9.9%	-6.3%	-8.5%	-7.2%	-7.7%	-7.7%	
	6M	10.0%	7.9%	1.9%	-4.8%	-8.5%	-12.5%	-12.5%	-10.6%	-10.0%	-6.2%	-8.4%	-7.0%	-7.4%	-8.3%	
	9M	5.4%	-0.1%	-7.0%	-11.9%	-7.1%	-12.5%	-11.9%	-10.8%	-10.0%	-9.3%	-11.2%	-11.1%	-10.0%	-9.4%	
	1Y	-1.8%	-0.5%	-2.0%	-3.3%	-4.2%	-7.1%	-5.9%	-10.8%	-9.7%	-9.0%	-10.9%	-12.2%	-11.1%	-10.6%	
	2Y	0.1%	-0.1%	0.4%	0.8%	1.2%	1.8%	-6.0%	-9.1%	-7.1%	-7.3%	-9.6%	-10.7%	-11.0%	-9.2%	
	3Y	25.4%	22.4%	18.8%	16.1%	13.7%	2.7%	-3.0%	-6.6%	-6.1%	-6.0%	-8.4%	-9.2%	-9.6%	-8.0%	
	5Y	38.5%	32.0%	25.2%	18.5%	11.9%	4.6%	0.3%	0.8%	-1.1%	-3.0%	-5.2%	-5.7%	-6.5%		
	7Y	42.3%	33.5%	24.4%	19.7%	12.9%	9.9%	1.6%	2.0%	0.5%	-0.8%	-2.1%	-2.3%	-4.1%	-7.2%	
	10Y	39.4%	29.9%	22.6%	15.3%	10.4%	5.0%	1.7%	-1.8%	-1.7%	-3.2%	-2.6%	-2.8%	-6.8%	-10.1%	
	15Y	22.9%	16.1%	9.2%	3.3%	-2.2%	-5.2%	-5.9%	-7.1%	-4.9%	-4.5%	-4.5%	-10.4%	-14.9%	-18.5%	
20Y	19.6%	12.9%	6.0%	3.7%	-0.8%	-1.4%	-2.1%	-3.1%	-2.3%	-3.3%	-13.1%	-19.4%	-23.9%	-27.3%		
30Y	-30.1%	-34.8%	-39.4%	-42.7%	-44.0%	-44.3%	-44.5%	-45.1%	-45.4%	-46.3%	-48.0%	-49.4%	-50.7%	-51.8%		

Total Emerging Europe																
EXPIRY	1M	-53.4%	-54.7%	-52.6%	-48.2%	-44.3%	-37.7%	-31.9%	-24.6%	-24.9%	-15.4%	-18.1%	-14.8%	-16.5%	-15.7%	
	3M	-50.3%	-52.6%	-48.9%	-39.7%	-37.6%	-34.0%	-31.6%	-24.6%	-24.7%	-15.4%	-18.2%	-14.8%	-16.5%	-16.8%	
	6M	-43.0%	-41.9%	-34.4%	-41.4%	-40.3%	-32.2%	-30.8%	-24.6%	-24.3%	-15.5%	-18.2%	-14.8%	-16.5%	-18.4%	
	9M	-13.9%	-20.7%	-38.1%	-43.9%	-15.0%	-27.3%	-27.3%	-24.8%	-24.1%	-22.5%	-24.2%	-23.2%	-22.0%	-21.1%	
	1Y	-27.0%	-13.1%	-5.6%	1.4%	9.3%	-9.5%	-11.1%	-25.2%	-24.1%	-22.6%	-24.2%	-26.0%	-24.7%	-23.8%	
	2Y	-5.2%	-3.1%	2.1%	6.9%	11.3%	5.8%	-12.3%	-24.9%	-22.2%	-22.2%	-23.8%	-25.5%	-27.0%	-23.5%	
	3Y	52.9%	46.1%	38.5%	33.0%	28.5%	6.6%	-10.6%	-21.2%	-19.9%	-20.9%	-23.1%	-24.9%	-26.6%	-23.2%	
	5Y	55.7%	43.9%	31.7%	19.8%	8.3%	-5.4%	-12.8%	-12.8%	-14.5%	-16.2%	-18.5%	-22.6%	-24.4%	-23.7%	
	7Y	52.6%	39.1%	25.3%	18.0%	7.7%	0.0%	-8.4%	-12.7%	-14.3%	-16.2%	-18.6%	-20.4%	-22.4%	-24.4%	
	10Y	27.0%	15.5%	6.7%	-2.0%	-8.0%	-13.3%	-14.9%	-17.2%	-17.9%	-19.5%	-20.9%	-22.9%	-25.1%	-27.0%	
	15Y	12.1%	4.0%	-4.1%	-11.2%	-17.6%	-20.0%	-20.7%	-22.2%	-22.6%	-23.6%	-25.7%	-28.4%	-30.6%	-32.5%	
20Y	0.6%	-7.6%	-15.9%	-18.7%	-24.2%	-24.0%	-24.5%	-25.4%	-26.4%	-27.9%	-31.4%	-34.0%	-36.0%	-37.7%		
30Y	-22.6%	-28.4%	-34.3%	-38.4%	-40.2%	-40.2%	-40.6%	-41.2%	-41.9%	-42.8%	-44.1%	-45.3%	-46.3%	-47.3%		

Total Latam & Caribbean																
EXPIRY	1M	-9.9%	-6.9%	-4.3%	-3.8%	-3.8%	-2.3%	-4.5%	-3.0%	-5.6%	-0.6%	-1.1%	2.7%	5.6%	7.6%	
	3M	1.3%	2.7%	1.9%	2.5%	3.9%	3.0%	-1.1%	1.9%	-1.1%	2.0%	2.2%	5.5%	7.8%	8.6%	
	6M	1.7%	1.8%	0.4%	-0.9%	-0.1%	3.0%	-2.1%	2.5%	-1.0%	2.6%	2.7%	6.2%	8.4%	8.4%	
	9M	4.0%	0.3%	-1.0%	-2.0%	10.0%	5.3%	-1.6%	2.8%	-0.9%	1.1%	0.2%	2.2%	5.8%	7.2%	
	1Y	7.7%	14.3%	18.3%	22.3%	26.9%	16.4%	4.5%	4.3%	0.0%	3.7%	1.0%	1.6%	5.1%	6.3%	
	2Y	20.7%	22.0%	25.2%	28.2%	31.2%	11.0%	3.9%	-1.0%	0.6%	5.9%	2.4%	3.9%	5.6%	7.8%	
	3Y	36.0%	32.6%	28.5%	25.3%	22.6%	11.4%	6.0%	1.8%	1.6%	4.1%	4.1%	6.6%	8.0%	9.8%	
	5Y	46.2%	40.2%	33.7%	27.3%	21.1%	9.6%	7.3%	5.3%	8.7%	12.1%	8.0%	11.8%	12.7%	12.2%	
	7Y	46.8%	39.8%	32.6%	28.6%	23.1%	15.6%	10.2%	12.8%	11.8%	15.9%	12.9%	16.0%	15.4%	13.1%	
	10Y	48.3%	41.9%	36.8%	31.8%	28.2%	25.2%	23.9%	17.9%	21.1%	18.0%	19.1%	19.7%	16.1%	12.9%	
	15Y	48.4%	43.9%	39.4%	35.5%	31.9%	29.8%	29.1%	23.6%	31.5%	32.7%	23.6%	15.5%	9.1%	3.9%	
20Y	69.5%	64.9%	60.3%	58.7%	55.6%	55.2%	54.9%	49.3%	43.7%	34.9%	8.1%	-3.1%	-10.8%	-16.5%		
30Y	-45.8%	-48.8%	-51.9%	-54.0%	-55.0%	-53.0%	-50.9%	-51.2%	-52.3%	-55.2%	-62.9%	-64.2%	-65.3%	-66.2%		

## Appendix 11: Global Market Shock – Relative LogNormal Interest Rate Shocks (Adverse) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	11.4%	14.0%	18.0%	15.1%	11.3%	5.4%	-1.2%	-5.3%	-6.6%	-0.9%	-4.6%	-1.1%	-5.6%	-6.4%
	3M	25.8%	26.4%	19.5%	16.5%	16.7%	8.0%	-2.5%	-6.1%	-7.1%	-1.4%	-4.9%	-1.5%	-5.9%	-7.9%
	6M	15.0%	12.5%	5.3%	0.2%	0.1%	-4.4%	-6.0%	-6.5%	-7.6%	-1.6%	-4.9%	-1.4%	-5.7%	-9.5%
	9M	6.5%	-3.5%	-7.3%	-10.9%	10.0%	-1.4%	-4.5%	-7.1%	-7.6%	-8.5%	-11.4%	-10.7%	-11.6%	-12.1%
	1Y	2.1%	11.4%	15.2%	18.7%	23.1%	16.0%	10.6%	-7.2%	-7.3%	-8.2%	-11.0%	-13.7%	-14.5%	-14.7%
	2Y	16.6%	19.8%	26.8%	33.5%	39.9%	30.2%	8.9%	-6.6%	-5.8%	-6.8%	-9.7%	-13.0%	-17.3%	-13.4%
	3Y	67.6%	62.4%	56.8%	53.1%	50.4%	27.1%	8.4%	-5.0%	-4.6%	-6.8%	-9.6%	-13.6%	-17.8%	-13.6%
	5Y	88.4%	75.1%	61.6%	48.2%	35.1%	17.5%	5.9%	3.4%	1.3%	-1.5%	-3.9%	-12.6%	-16.9%	-15.6%
	7Y	85.9%	68.9%	51.9%	43.2%	30.4%	17.9%	7.2%	1.6%	-1.1%	-2.8%	-6.9%	-12.0%	-15.7%	-18.0%
	10Y	59.5%	43.4%	31.2%	19.0%	10.9%	2.4%	-1.7%	-6.3%	-5.9%	-7.0%	-13.2%	-18.0%	-20.4%	-22.4%
	15Y	40.3%	29.5%	18.7%	9.4%	0.8%	-3.3%	-4.4%	-6.9%	-11.8%	-16.8%	-22.5%	-25.0%	-27.1%	-28.8%
	20Y	6.2%	-4.9%	-16.0%	-19.8%	-27.2%	-27.7%	-28.6%	-30.7%	-32.1%	-33.8%	-34.5%	-35.6%	-36.7%	-37.7%
30Y	-12.2%	-19.8%	-27.4%	-32.7%	-35.0%	-35.1%	-35.7%	-37.1%	-37.8%	-38.6%	-39.9%	-41.1%	-42.2%	-43.1%	

### Total ME/N. Africa

EXPIRY	1M	-41.4%	-40.1%	-37.5%	-36.4%	-35.6%	-25.8%	-22.3%	-17.5%	-16.8%	-10.2%	-12.8%	-11.0%	-15.2%	-16.9%
	3M	-31.9%	-31.9%	-32.5%	-29.5%	-28.3%	-23.0%	-22.1%	-17.2%	-16.5%	-10.1%	-12.7%	-11.0%	-15.2%	-17.6%
	6M	-23.5%	-23.8%	-23.0%	-26.8%	-25.9%	-21.9%	-21.7%	-17.0%	-16.1%	-10.0%	-12.6%	-11.0%	-15.1%	-18.8%
	9M	-10.5%	-17.1%	-23.5%	-26.8%	-6.3%	-17.6%	-19.0%	-16.7%	-15.6%	-14.6%	-16.8%	-17.2%	-19.2%	-20.7%
	1Y	-10.9%	-1.0%	4.3%	9.3%	15.2%	-3.4%	-6.4%	-16.3%	-15.1%	-14.2%	-16.5%	-19.1%	-21.2%	-22.6%
	2Y	1.7%	2.5%	5.3%	7.9%	10.3%	4.4%	-8.5%	-16.1%	-13.8%	-13.4%	-15.8%	-18.9%	-23.0%	-22.2%
	3Y	41.0%	35.5%	29.2%	24.3%	20.3%	5.2%	-5.7%	-12.2%	-11.7%	-12.1%	-14.7%	-18.6%	-22.8%	-21.9%
	5Y	46.8%	38.1%	28.8%	19.8%	11.1%	0.2%	-4.3%	-5.1%	-5.5%	-8.3%	-10.7%	-17.7%	-22.1%	-22.8%
	7Y	44.7%	35.0%	25.0%	19.5%	11.9%	4.3%	-2.0%	-3.8%	-6.3%	-8.5%	-13.0%	-18.5%	-22.5%	-25.2%
	10Y	29.3%	20.6%	13.8%	7.1%	2.4%	-2.8%	-6.0%	-10.1%	-10.7%	-12.6%	-19.9%	-25.3%	-28.3%	-30.8%
	15Y	13.0%	6.8%	0.6%	-4.8%	-9.8%	-12.7%	-13.7%	-15.8%	-21.6%	-27.4%	-33.7%	-36.6%	-38.9%	-40.9%
	20Y	-20.7%	-27.1%	-33.5%	-35.6%	-39.9%	-40.7%	-41.5%	-42.9%	-44.3%	-46.1%	-47.1%	-48.3%	-49.5%	-50.6%
30Y	-34.8%	-39.2%	-43.7%	-46.8%	-48.2%	-48.6%	-48.9%	-49.7%	-50.3%	-51.3%	-52.7%	-53.9%	-54.9%	-55.9%	

### Total Sub-Saharan Africa

EXPIRY	1M	-9.1%	-11.5%	-15.0%	-14.1%	-11.2%	-8.6%	-8.9%	-7.8%	-8.8%	-5.6%	-7.7%	-6.8%	-7.7%	-7.2%
	3M	-12.1%	-15.4%	-15.3%	-8.2%	-8.7%	-7.8%	-8.7%	-7.7%	-8.6%	-5.5%	-7.5%	-6.6%	-7.5%	-7.5%
	6M	-9.9%	-11.0%	-0.6%	-4.4%	-5.8%	-6.8%	-7.8%	-7.2%	-8.1%	-5.0%	-7.1%	-6.2%	-7.1%	-7.9%
	9M	14.3%	16.0%	2.4%	-2.6%	2.0%	-5.1%	-6.2%	-6.9%	-7.7%	-7.4%	-9.4%	-9.7%	-9.2%	-8.9%
	1Y	-0.6%	2.1%	3.1%	4.0%	5.3%	-1.7%	-1.9%	-7.5%	-7.9%	-7.4%	-9.3%	-10.8%	-10.3%	-9.9%
	2Y	0.7%	0.9%	2.0%	3.1%	4.2%	3.7%	-3.5%	-8.4%	-7.2%	-6.8%	-8.6%	-9.8%	-10.5%	-9.2%
	3Y	23.0%	20.6%	17.9%	15.8%	14.1%	4.4%	-1.3%	-6.1%	-5.7%	-5.7%	-7.7%	-8.9%	-9.5%	-8.5%
	5Y	28.4%	23.7%	18.7%	13.7%	8.9%	0.4%	-1.9%	-1.8%	-1.6%	-3.5%	-5.1%	-7.1%	-7.5%	-8.6%
	7Y	28.5%	22.8%	16.9%	13.8%	9.3%	4.8%	1.2%	0.6%	-1.0%	-2.6%	-4.5%	-5.3%	-7.0%	-9.7%
	10Y	23.8%	18.4%	14.3%	10.2%	7.3%	2.8%	0.9%	-3.1%	-3.3%	-5.5%	-6.6%	-7.0%	-10.8%	-14.0%
	15Y	12.4%	8.5%	4.5%	1.1%	-2.0%	-5.0%	-6.7%	-9.9%	-9.6%	-11.1%	-11.1%	-17.4%	-22.2%	-26.0%
	20Y	4.2%	0.2%	-3.7%	-5.1%	-7.7%	-9.3%	-10.7%	-13.4%	-11.7%	-12.5%	-23.5%	-30.4%	-35.2%	-38.9%
30Y	-52.9%	-55.6%	-58.3%	-60.2%	-61.0%	-61.4%	-61.8%	-62.6%	-63.3%	-64.2%	-65.6%	-66.7%	-67.7%	-68.5%	





## Appendix 11: Global Market Shock – Absolute Normal Interest Rate Shocks (Adverse) (Cont.)

### Total Asia Ex-Japan

<b>EXPIRY</b>	<b>1M</b>	2.8	3.3	4.4	5.0	5.5	8.3	12.1	13.8	13.8	19.3	19.3	24.8	24.8	27.5	
	<b>3M</b>	5.5	5.5	5.5	6.6	8.3	9.9	12.1	13.8	13.8	19.3	19.3	24.8	24.8	26.4	
	<b>6M</b>	6.6	6.6	6.6	6.6	8.3	11.0	12.1	13.8	13.8	19.3	19.3	24.8	24.8	24.8	
	<b>9M</b>	8.3	5.5	5.5	5.5	16.5	14.3	13.8	13.8	13.8	13.8	13.8	16.5	19.3	22.0	
	<b>1Y</b>	9.9	15.4	19.3	23.1	27.5	25.3	23.1	13.8	13.8	13.8	13.8	13.8	13.8	16.5	19.3
	<b>2Y</b>	24.8	27.5	33.0	38.5	44.0	35.8	22.6	13.8	13.8	13.8	13.8	13.8	13.8	13.8	19.3
	<b>3Y</b>	55.0	52.3	49.5	47.9	46.8	33.0	22.0	13.8	13.8	13.8	13.8	13.8	13.8	13.8	19.3
	<b>5Y</b>	74.3	66.0	57.8	49.5	41.3	30.3	21.5	19.8	19.3	19.3	19.3	19.3	16.5	16.5	19.3
	<b>7Y</b>	71.5	60.5	49.5	44.0	35.8	27.5	20.9	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
	<b>10Y</b>	60.5	49.5	41.3	33.0	27.5	22.0	20.4	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
	<b>15Y</b>	52.3	44.0	35.8	28.6	22.0	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
	<b>20Y</b>	44.0	35.8	27.5	24.8	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
<b>30Y</b>	35.8	30.3	24.8	20.9	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	

### Total ME/N. Africa

<b>EXPIRY</b>	<b>1M</b>	3.3	3.9	5.2	5.9	6.5	9.8	14.3	16.3	16.3	22.8	22.8	29.3	29.3	32.5	
	<b>3M</b>	6.5	6.5	6.5	7.8	9.8	11.7	14.3	16.3	16.3	22.8	22.8	29.3	29.3	31.2	
	<b>6M</b>	7.8	7.8	7.8	7.8	9.8	13.0	14.3	16.3	16.3	22.8	22.8	29.3	29.3	29.3	
	<b>9M</b>	9.8	6.5	6.5	6.5	19.5	16.9	16.3	16.3	16.3	16.3	16.3	19.5	22.8	26.0	
	<b>1Y</b>	11.7	18.2	22.8	27.3	32.5	29.9	27.3	16.3	16.3	16.3	16.3	16.3	19.5	22.8	
	<b>2Y</b>	29.3	32.5	39.0	45.5	52.0	42.3	26.7	16.3	16.3	16.3	16.3	16.3	16.3	16.3	22.8
	<b>3Y</b>	65.0	61.8	58.5	56.6	55.3	39.0	26.0	16.3	16.3	16.3	16.3	16.3	16.3	16.3	22.8
	<b>5Y</b>	87.8	78.0	68.3	58.5	48.8	35.8	25.4	23.4	22.8	22.8	22.8	22.8	19.5	19.5	22.8
	<b>7Y</b>	84.5	71.5	58.5	52.0	42.3	32.5	24.7	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	<b>10Y</b>	71.5	58.5	48.8	39.0	32.5	26.0	24.1	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	<b>15Y</b>	61.8	52.0	42.3	33.8	26.0	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	<b>20Y</b>	52.0	42.3	32.5	29.3	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
<b>30Y</b>	42.3	35.8	29.3	24.7	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	

### Total Sub-Saharan Africa

<b>EXPIRY</b>	<b>1M</b>	3.3	3.9	5.2	5.9	6.5	9.8	14.3	16.3	16.3	22.8	22.8	29.3	29.3	32.5	
	<b>3M</b>	6.5	6.5	6.5	7.8	9.8	11.7	14.3	16.3	16.3	22.8	22.8	29.3	29.3	31.2	
	<b>6M</b>	7.8	7.8	7.8	7.8	9.8	13.0	14.3	16.3	16.3	22.8	22.8	29.3	29.3	29.3	
	<b>9M</b>	9.8	6.5	6.5	6.5	19.5	16.9	16.3	16.3	16.3	16.3	16.3	19.5	22.8	26.0	
	<b>1Y</b>	11.7	18.2	22.8	27.3	32.5	29.9	27.3	16.3	16.3	16.3	16.3	16.3	19.5	22.8	
	<b>2Y</b>	29.3	32.5	39.0	45.5	52.0	42.3	26.7	16.3	16.3	16.3	16.3	16.3	16.3	16.3	22.8
	<b>3Y</b>	65.0	61.8	58.5	56.6	55.3	39.0	26.0	16.3	16.3	16.3	16.3	16.3	16.3	16.3	22.8
	<b>5Y</b>	87.8	78.0	68.3	58.5	48.8	35.8	25.4	23.4	22.8	22.8	22.8	22.8	19.5	19.5	22.8
	<b>7Y</b>	84.5	71.5	58.5	52.0	42.3	32.5	24.7	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	<b>10Y</b>	71.5	58.5	48.8	39.0	32.5	26.0	24.1	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	<b>15Y</b>	61.8	52.0	42.3	33.8	26.0	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	<b>20Y</b>	52.0	42.3	32.5	29.3	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
<b>30Y</b>	42.3	35.8	29.3	24.7	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	

# Appendix 11: Global Market Shock - Absolute LogNormal Interest Rate Shocks (Adverse)

## Absolute LogNormal Interest Rate Shocks (Vol Pts)

		MATURITY													
		1M	3M	6M	9M	1Y	2Y	3Y	5Y	7Y	10Y	15Y	20Y	25Y	30Y
<b>AUD</b>															
EXPIRY	1M	1.2	1.2	1.2	0.8	0.2	(1.8)	(2.6)	(2.2)	(2.1)	(1.2)	(1.7)	(1.5)	(1.6)	(1.4)
	3M	2.3	2.0	1.3	0.5	(0.2)	(2.5)	(3.1)	(2.5)	(2.4)	(1.4)	(2.0)	(1.7)	(1.8)	(1.8)
	6M	2.2	1.7	0.4	(1.1)	(1.9)	(3.1)	(3.2)	(2.6)	(2.3)	(1.4)	(1.9)	(1.6)	(1.7)	(1.9)
	9M	1.3	0.0	(1.7)	(2.9)	(1.7)	(3.1)	(3.0)	(2.6)	(2.3)	(2.1)	(2.5)	(2.5)	(2.2)	(2.1)
	1Y	(0.5)	(0.1)	(0.5)	(0.9)	(1.1)	(1.8)	(1.5)	(2.5)	(2.2)	(1.9)	(2.4)	(2.6)	(2.4)	(2.3)
	2Y	0.0	0.0	0.1	0.2	0.3	0.5	(1.4)	(2.0)	(1.5)	(1.4)	(1.9)	(2.1)	(2.2)	(1.8)
	3Y	6.0	5.3	4.5	3.8	3.2	0.6	(0.6)	(1.3)	(1.1)	(1.1)	(1.5)	(1.6)	(1.7)	(1.4)
	5Y	7.4	6.1	4.8	3.5	2.3	0.8	0.0	0.0	0.1	(0.2)	(0.5)	(0.8)	(0.9)	(1.0)
	7Y	7.1	5.6	4.1	3.3	2.2	1.7	0.3	0.3	0.1	(0.1)	(0.3)	(0.3)	(0.6)	(1.0)
	10Y	5.6	4.3	3.2	2.2	1.5	0.7	0.2	(0.2)	(0.2)	(0.4)	(0.3)	(0.4)	(0.9)	(1.3)
	15Y	3.3	2.3	1.3	0.5	(0.3)	(0.7)	(0.8)	(1.0)	(0.6)	(0.6)	(0.6)	(1.4)	(2.0)	(2.4)
20Y	2.8	1.8	0.9	0.5	(0.1)	(0.2)	(0.3)	(0.4)	(0.3)	(0.4)	(1.7)	(2.6)	(3.1)	(3.6)	
30Y	(4.3)	(5.0)	(5.6)	(6.1)	(6.3)	(6.2)	(6.2)	(6.1)	(6.0)	(6.1)	(6.3)	(6.5)	(6.7)	(6.8)	
<b>EUR</b>															
EXPIRY	1M	(28.1)	(28.8)	(28.9)	(29.2)	(31.6)	(30.2)	(27.4)	(15.3)	(9.3)	(4.5)	(3.4)	(2.3)	(2.4)	(2.2)
	3M	(24.8)	(26.3)	(24.3)	(27.8)	(28.3)	(26.4)	(25.3)	(14.4)	(9.7)	(4.9)	(3.9)	(2.7)	(2.8)	(2.6)
	6M	(15.9)	(15.3)	(24.2)	(26.2)	(26.6)	(27.6)	(23.8)	(13.8)	(9.7)	(5.2)	(4.3)	(3.1)	(3.2)	(3.4)
	9M	(25.8)	(29.5)	(29.2)	(30.1)	(24.3)	(26.7)	(21.9)	(13.3)	(9.6)	(6.7)	(5.7)	(5.1)	(4.6)	(4.2)
	1Y	(22.9)	(20.5)	(19.9)	(19.4)	(18.7)	(21.6)	(16.3)	(12.6)	(9.3)	(6.7)	(5.8)	(5.8)	(5.3)	(4.9)
	2Y	(19.2)	(19.3)	(18.8)	(18.4)	(18.0)	(11.3)	(11.4)	(10.4)	(7.5)	(5.9)	(5.7)	(5.9)	(6.1)	(5.0)
	3Y	4.5	2.6	0.4	(1.2)	(2.7)	(5.0)	(6.7)	(7.4)	(6.0)	(5.1)	(5.3)	(5.6)	(5.9)	(4.7)
	5Y	11.2	8.5	5.7	2.9	0.3	(3.7)	(4.5)	(3.6)	(3.1)	(3.7)	(4.1)	(4.9)	(5.3)	(4.4)
	7Y	10.6	7.6	4.6	3.0	0.8	(1.0)	(2.4)	(2.3)	(2.8)	(3.4)	(3.9)	(4.1)	(4.1)	(3.8)
	10Y	7.1	4.7	2.7	0.8	(0.5)	(1.3)	(2.3)	(3.2)	(3.4)	(4.0)	(3.8)	(4.2)	(3.5)	(3.2)
	15Y	3.0	1.3	(0.4)	(1.9)	(3.2)	(4.5)	(4.8)	(5.3)	(4.8)	(4.8)	(4.4)	(3.7)	(3.2)	(2.5)
20Y	1.1	(0.6)	(2.4)	(3.0)	(4.1)	(5.0)	(5.1)	(5.3)	(5.2)	(5.2)	(3.6)	(2.9)	(2.0)	(1.7)	
30Y	2.6	1.4	0.2	(0.6)	(1.0)	(2.4)	(2.3)	(2.1)	(2.3)	(2.2)	(0.8)	(0.5)	(0.8)	(1.0)	
<b>GBP</b>															
EXPIRY	1M	14.6	11.9	7.2	(1.2)	(8.9)	(18.6)	(19.6)	(15.0)	(10.4)	(5.6)	(4.5)	(3.1)	(2.7)	(2.1)
	3M	15.1	11.7	2.4	(8.6)	(12.9)	(20.6)	(20.1)	(13.8)	(9.8)	(5.6)	(4.5)	(3.1)	(2.7)	(2.3)
	6M	4.7	0.1	(14.7)	(19.8)	(22.8)	(23.8)	(20.7)	(13.3)	(9.5)	(5.5)	(4.5)	(3.2)	(2.9)	(2.7)
	9M	(16.4)	(21.4)	(23.8)	(26.6)	(25.1)	(23.4)	(18.8)	(12.6)	(9.0)	(6.3)	(5.4)	(4.5)	(3.8)	(3.2)
	1Y	(19.1)	(19.6)	(21.8)	(23.7)	(25.1)	(20.2)	(14.6)	(11.6)	(8.4)	(6.0)	(5.3)	(5.0)	(4.3)	(3.7)
	2Y	(13.0)	(13.5)	(13.9)	(14.2)	(14.6)	(9.4)	(9.3)	(8.3)	(6.1)	(4.8)	(4.7)	(4.5)	(4.4)	(3.5)
	3Y	2.6	1.2	(0.5)	(1.9)	(3.2)	(4.7)	(5.8)	(5.5)	(4.6)	(4.0)	(4.1)	(4.0)	(4.1)	(3.2)
	5Y	6.0	4.2	2.2	0.3	(1.5)	(3.4)	(3.3)	(2.6)	(2.3)	(2.5)	(2.7)	(3.0)	(3.2)	(2.6)
	7Y	7.8	5.9	3.8	2.7	1.2	(0.3)	(1.4)	(1.5)	(1.9)	(2.1)	(2.2)	(2.3)	(2.4)	(2.2)
	10Y	5.0	3.3	2.0	0.6	(0.3)	(1.2)	(1.8)	(2.3)	(2.3)	(2.4)	(2.3)	(2.4)	(2.3)	(2.2)
	15Y	2.1	0.9	(0.2)	(1.3)	(2.2)	(2.7)	(2.8)	(2.9)	(2.6)	(2.4)	(2.5)	(2.2)	(2.1)	(1.9)
20Y	0.7	(0.5)	(1.7)	(2.1)	(2.9)	(2.8)	(2.8)	(2.8)	(2.7)	(2.7)	(2.3)	(2.1)	(1.9)	(1.7)	
30Y	1.9	1.1	0.2	(0.3)	(0.6)	(3.0)	(2.9)	(2.7)	(2.6)	(2.4)	(2.0)	(1.8)	(2.1)	(2.2)	
<b>JPY</b>															
EXPIRY	1M	17.2	8.0	3.2	2.3	(2.1)	1.5	(11.6)	(12.3)	(12.4)	(4.4)	(2.5)	(0.7)	(0.5)	(0.6)
	3M	2.6	(3.7)	1.1	(5.1)	(6.4)	(9.2)	(19.0)	(14.9)	(12.2)	(4.7)	(3.1)	(1.2)	(1.1)	(1.3)
	6M	11.5	11.6	1.6	(0.5)	(0.4)	(7.4)	(17.9)	(15.4)	(11.5)	(5.0)	(3.4)	(1.5)	(1.4)	(1.9)
	9M	(12.5)	(17.4)	(17.9)	(19.1)	(11.5)	(13.0)	(20.7)	(16.6)	(11.5)	(7.0)	(5.0)	(3.5)	(2.7)	(2.6)
	1Y	(26.3)	(23.3)	(23.1)	(22.9)	(22.3)	(12.9)	(17.9)	(17.1)	(11.2)	(6.8)	(5.0)	(4.1)	(3.4)	(3.2)
	2Y	(18.0)	(17.2)	(15.3)	(13.5)	(11.8)	(12.7)	(14.6)	(13.0)	(9.1)	(5.4)	(4.2)	(3.7)	(3.6)	(2.7)
	3Y	10.1	7.6	4.8	2.7	0.9	(4.7)	(9.4)	(9.3)	(6.3)	(4.0)	(3.6)	(3.2)	(3.4)	(2.3)
	5Y	11.8	8.0	3.9	(0.1)	(3.9)	(5.6)	(6.3)	(3.7)	(2.5)	(1.7)	(2.0)	(2.0)	(2.5)	(1.5)
	7Y	10.9	7.3	3.5	1.3	(1.5)	(2.0)	(2.7)	(1.8)	(1.2)	(0.7)	(1.1)	(1.0)	(1.1)	(0.4)
	10Y	7.9	5.4	3.3	1.3	(0.1)	(0.9)	(0.8)	(0.8)	(0.3)	(0.4)	(0.6)	(1.1)	(0.6)	0.4
	15Y	4.7	3.2	1.7	0.4	(0.9)	(1.1)	(0.9)	(0.8)	(0.2)	0.2	(1.3)	(0.6)	0.6	(0.1)
20Y	4.0	2.4	0.9	0.4	(0.7)	(0.3)	0.0	0.3	(0.2)	(0.8)	(0.9)	0.7	(0.3)	(1.1)	
30Y	2.4	1.3	0.2	(0.5)	(0.9)	(0.3)	0.1	0.7	2.4	3.5	0.0	(1.7)	(2.9)	(3.8)	

## Appendix 11: Global Market Shock - Absolute LogNormal Interest Rate Shocks (Adverse) (Cont.)

### USD

EXPIRY	1M	22.1	12.0	5.1	(6.1)	(15.0)	(29.4)	(23.0)	(13.3)	(8.4)	(3.8)	(2.8)	(1.7)	(1.6)	(1.3)
	3M	21.1	13.1	(4.7)	(18.0)	(25.2)	(25.9)	(21.7)	(12.9)	(8.3)	(4.1)	(3.1)	(2.1)	(1.9)	(1.8)
	6M	(2.7)	(9.3)	(23.2)	(30.9)	(34.7)	(30.3)	(22.5)	(12.6)	(8.2)	(4.2)	(3.2)	(2.2)	(1.8)	(2.0)
	9M	(23.4)	(30.4)	(36.2)	(40.3)	(36.9)	(32.8)	(22.3)	(11.7)	(8.1)	(5.3)	(4.2)	(3.4)	(2.8)	(2.5)
	1Y	(29.8)	(29.3)	(31.3)	(32.9)	(33.9)	(25.5)	(16.9)	(10.8)	(7.2)	(5.0)	(4.1)	(3.9)	(3.3)	(2.9)
	2Y	(15.7)	(16.3)	(16.6)	(16.8)	(17.0)	(10.0)	(8.7)	(7.3)	(4.9)	(3.7)	(3.2)	(3.3)	(3.2)	(2.4)
	3Y	5.7	3.7	1.3	(0.6)	(2.3)	(3.1)	(4.2)	(4.3)	(3.5)	(2.9)	(2.7)	(2.8)	(2.8)	(1.8)
	5Y	10.4	8.1	5.8	3.5	1.2	(1.3)	(1.7)	(1.5)	(1.2)	(1.6)	(1.5)	(1.8)	(1.9)	(1.3)
	7Y	10.9	8.6	6.2	4.8	3.0	1.0	(0.6)	(0.5)	(1.0)	(1.2)	(1.1)	(1.1)	(1.0)	(0.9)
	10Y	7.7	5.7	4.1	2.6	1.5	0.4	(0.3)	(1.2)	(1.1)	(1.4)	(0.9)	(1.0)	(0.8)	(0.7)
	15Y	4.8	3.5	2.1	0.9	(0.2)	(0.9)	(1.1)	(1.5)	(1.2)	(1.2)	(1.0)	(0.7)	(0.6)	(0.6)
20Y	4.1	2.7	1.4	0.9	0.0	(0.2)	(0.4)	(0.7)	(0.8)	(1.1)	(0.5)	(0.5)	(0.5)	(0.6)	
30Y	3.1	2.2	1.2	0.6	0.3	0.0	(0.2)	(0.7)	(0.9)	(1.1)	(1.0)	(1.5)	(2.2)	(2.6)	

### Other Advanced Economies

EXPIRY	1M	1.2	1.2	1.2	0.8	0.2	(1.8)	(2.6)	(2.2)	(2.1)	(1.2)	(1.7)	(1.5)	(1.6)	(1.4)
	3M	2.3	2.0	1.3	0.5	(0.2)	(2.5)	(3.1)	(2.5)	(2.4)	(1.4)	(2.0)	(1.7)	(1.8)	(1.8)
	6M	2.2	1.7	0.4	(1.1)	(1.9)	(3.1)	(3.2)	(2.6)	(2.3)	(1.4)	(1.9)	(1.6)	(1.7)	(1.9)
	9M	1.3	0.0	(1.7)	(2.9)	(1.7)	(3.1)	(3.0)	(2.6)	(2.3)	(2.1)	(2.5)	(2.5)	(2.2)	(2.1)
	1Y	(0.5)	(0.1)	(0.5)	(0.9)	(1.1)	(1.8)	(1.5)	(2.5)	(2.2)	(1.9)	(2.4)	(2.6)	(2.4)	(2.3)
	2Y	0.0	0.0	0.1	0.2	0.3	0.5	(1.4)	(2.0)	(1.5)	(1.4)	(1.9)	(2.1)	(2.2)	(1.8)
	3Y	6.0	5.3	4.5	3.8	3.2	0.6	(0.6)	(1.3)	(1.1)	(1.1)	(1.5)	(1.6)	(1.7)	(1.4)
	5Y	7.4	6.1	4.8	3.5	2.3	0.8	0.0	0.0	0.1	(0.2)	(0.5)	(0.8)	(0.9)	(1.0)
	7Y	7.1	5.6	4.1	3.3	2.2	1.7	0.3	0.3	0.1	(0.1)	(0.3)	(0.3)	(0.6)	(1.0)
	10Y	5.6	4.3	3.2	2.2	1.5	0.7	0.2	(0.2)	(0.2)	(0.4)	(0.3)	(0.4)	(0.9)	(1.3)
	15Y	3.3	2.3	1.3	0.5	(0.3)	(0.7)	(0.8)	(1.0)	(0.6)	(0.6)	(0.6)	(1.4)	(2.0)	(2.4)
20Y	2.8	1.8	0.9	0.5	(0.1)	(0.2)	(0.3)	(0.4)	(0.3)	(0.4)	(1.7)	(2.6)	(3.1)	(3.6)	
30Y	(4.3)	(5.0)	(5.6)	(6.1)	(6.3)	(6.2)	(6.2)	(6.1)	(6.0)	(6.1)	(6.3)	(6.5)	(6.7)	(6.8)	

### Total Emerging Europe

EXPIRY	1M	(13.7)	(14.0)	(13.5)	(12.3)	(11.3)	(9.6)	(8.1)	(6.2)	(6.3)	(3.9)	(4.6)	(3.7)	(4.1)	(4.0)
	3M	(12.8)	(13.4)	(12.5)	(10.1)	(9.6)	(8.6)	(8.0)	(6.2)	(6.2)	(3.9)	(4.6)	(3.7)	(4.1)	(4.2)
	6M	(10.8)	(10.5)	(8.7)	(10.4)	(10.1)	(8.1)	(7.7)	(6.2)	(6.1)	(3.9)	(4.6)	(3.7)	(4.1)	(4.6)
	9M	(3.5)	(5.2)	(9.6)	(11.0)	(3.8)	(6.9)	(6.9)	(6.2)	(6.1)	(5.7)	(6.1)	(5.8)	(5.5)	(5.3)
	1Y	(6.8)	(3.3)	(1.4)	0.3	2.3	(2.4)	(2.8)	(6.3)	(6.0)	(5.7)	(6.1)	(6.5)	(6.2)	(6.0)
	2Y	(1.3)	(0.8)	0.5	1.7	2.8	1.4	(3.1)	(6.2)	(5.6)	(5.6)	(6.0)	(6.4)	(6.8)	(5.9)
	3Y	13.3	11.6	9.7	8.3	7.1	1.7	(2.7)	(5.3)	(5.0)	(5.2)	(5.8)	(6.2)	(6.6)	(5.8)
	5Y	13.9	11.0	7.9	4.9	2.1	(1.3)	(3.2)	(3.2)	(3.6)	(4.0)	(4.6)	(5.6)	(6.1)	(5.9)
	7Y	13.1	9.7	6.3	4.5	1.9	0.0	(2.1)	(3.1)	(3.5)	(4.0)	(4.6)	(5.0)	(5.5)	(6.0)
	10Y	6.7	3.8	1.7	(0.5)	(2.0)	(3.3)	(3.7)	(4.2)	(4.4)	(4.8)	(5.1)	(5.6)	(6.2)	(6.6)
	15Y	2.9	1.0	(1.0)	(2.7)	(4.3)	(4.9)	(5.0)	(5.4)	(5.5)	(5.7)	(6.2)	(6.9)	(7.4)	(7.9)
20Y	0.1	(1.8)	(3.8)	(4.5)	(5.8)	(5.7)	(5.9)	(6.1)	(6.3)	(6.7)	(7.5)	(8.1)	(8.6)	(9.0)	
30Y	(5.3)	(6.7)	(8.0)	(9.0)	(9.4)	(9.4)	(9.5)	(9.6)	(9.8)	(10.0)	(10.3)	(10.6)	(10.8)	(11.0)	

### Total Latam & Caribbean

EXPIRY	1M	(1.6)	(1.1)	(0.7)	(0.6)	(0.6)	(0.5)	(1.4)	(0.8)	(2.0)	(0.2)	(0.3)	0.7	1.5	2.0
	3M	0.2	0.5	0.3	0.4	0.7	0.6	(0.3)	0.5	(0.4)	0.7	0.6	1.4	2.0	2.2
	6M	0.4	0.4	0.1	(0.2)	0.0	0.6	(0.7)	0.6	(0.3)	0.8	0.8	1.6	2.1	2.1
	9M	0.9	0.1	(0.2)	(0.5)	2.2	1.1	(0.6)	0.7	(0.3)	0.3	0.1	0.6	1.5	1.8
	1Y	1.5	2.9	3.7	4.5	5.4	3.6	1.6	0.9	0.0	0.9	0.3	0.4	1.3	1.6
	2Y	4.5	4.7	5.4	6.1	6.7	3.7	1.4	(0.4)	0.2	1.3	0.7	1.1	1.5	2.1
	3Y	10.2	9.2	8.1	7.2	6.4	3.7	1.9	0.6	0.5	1.3	1.2	1.8	2.2	2.7
	5Y	11.9	10.4	8.7	7.0	5.4	2.9	2.3	1.8	2.7	2.4	2.3	3.3	3.5	3.4
	7Y	11.8	10.1	8.2	7.2	5.8	4.1	2.6	3.4	3.0	3.1	3.8	4.6	4.4	3.7
	10Y	11.9	10.3	9.0	7.8	6.9	5.3	4.3	3.1	3.7	3.5	5.6	5.7	4.7	3.8
	15Y	11.9	10.8	9.7	8.7	7.8	6.2	5.2	4.1	5.5	6.4	6.9	4.5	2.7	1.2
20Y	17.1	15.9	14.8	14.4	13.7	11.6	9.9	8.5	7.7	6.8	2.4	(0.9)	(3.2)	(4.8)	
30Y	(11.2)	(12.0)	(12.7)	(13.3)	(13.5)	(11.1)	(9.2)	(8.9)	(9.2)	(10.8)	(18.3)	(18.7)	(19.1)	(19.3)	



## Appendix 11: Global Market Shock – Absolute LogNormal Interest Rate Shocks (Adverse) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	0.9	1.2	1.5	1.2	0.9	0.4	(0.2)	(0.9)	(1.1)	(0.2)	(0.8)	(0.2)	(1.0)	(1.1)
	3M	2.1	2.2	1.6	1.4	1.4	0.7	(0.3)	(1.0)	(1.2)	(0.2)	(0.8)	(0.3)	(1.0)	(1.4)
	6M	1.7	1.4	0.6	0.0	0.0	(0.5)	(0.8)	(1.1)	(1.2)	(0.3)	(0.8)	(0.2)	(1.0)	(1.6)
	9M	0.8	(0.4)	(0.9)	(1.3)	1.2	(0.2)	(0.6)	(1.1)	(1.2)	(1.4)	(1.9)	(1.8)	(1.9)	(2.0)
	1Y	0.3	1.4	1.9	2.3	2.8	2.0	1.5	(1.1)	(1.1)	(1.3)	(1.8)	(2.2)	(2.3)	(2.4)
	2Y	2.3	2.8	3.7	4.7	5.6	4.3	1.3	(1.0)	(0.8)	(1.0)	(1.4)	(1.9)	(2.5)	(2.0)
	3Y	9.8	9.0	8.2	7.7	7.3	3.9	1.2	(0.7)	(0.7)	(1.0)	(1.4)	(1.9)	(2.6)	(2.0)
	5Y	12.3	10.5	8.6	6.7	4.9	2.4	0.8	0.5	0.2	(0.2)	(0.6)	(1.8)	(2.4)	(2.2)
	7Y	12.0	9.6	7.2	6.0	4.2	2.5	1.0	0.2	(0.2)	(0.4)	(1.0)	(1.7)	(2.2)	(2.6)
	10Y	8.3	6.1	4.3	2.7	1.5	0.3	(0.2)	(0.9)	(0.8)	(1.0)	(1.9)	(2.5)	(2.9)	(3.2)
	15Y	5.6	4.1	2.6	1.3	0.1	(0.5)	(0.6)	(1.0)	(1.7)	(2.4)	(3.2)	(3.5)	(3.8)	(4.1)
	20Y	0.9	(0.7)	(2.2)	(2.8)	(3.8)	(3.8)	(4.0)	(4.4)	(4.6)	(4.8)	(4.9)	(5.1)	(5.2)	(5.4)
30Y	(1.7)	(2.8)	(3.8)	(4.6)	(4.9)	(4.8)	(5.0)	(5.3)	(5.4)	(5.5)	(5.7)	(5.8)	(6.0)	(6.1)	

### Total ME/N. Africa

EXPIRY	1M	(10.4)	(10.0)	(9.4)	(9.1)	(8.9)	(6.5)	(5.6)	(4.4)	(4.2)	(2.6)	(3.2)	(2.7)	(3.8)	(4.2)
	3M	(8.0)	(8.0)	(8.1)	(7.4)	(7.1)	(5.8)	(5.5)	(4.3)	(4.1)	(2.5)	(3.2)	(2.7)	(3.8)	(4.4)
	6M	(5.9)	(5.9)	(5.7)	(6.7)	(6.5)	(5.5)	(5.4)	(4.2)	(4.0)	(2.5)	(3.1)	(2.7)	(3.8)	(4.7)
	9M	(2.6)	(4.3)	(5.9)	(6.7)	(1.6)	(4.4)	(4.7)	(4.2)	(3.9)	(3.6)	(4.2)	(4.3)	(4.8)	(5.2)
	1Y	(2.7)	(0.2)	1.1	2.3	3.8	(0.8)	(1.6)	(4.1)	(3.8)	(3.5)	(4.1)	(4.8)	(5.3)	(5.6)
	2Y	0.4	0.6	1.3	2.0	2.6	1.1	(2.1)	(4.0)	(3.4)	(3.3)	(3.9)	(4.7)	(5.7)	(5.5)
	3Y	10.2	8.8	7.2	6.0	5.0	1.3	(1.4)	(3.0)	(2.9)	(3.0)	(3.7)	(4.6)	(5.7)	(5.4)
	5Y	11.6	9.4	7.1	4.9	2.7	0.1	(1.1)	(1.3)	(1.4)	(2.0)	(2.6)	(4.4)	(5.5)	(5.6)
	7Y	11.0	8.6	6.1	4.8	2.9	1.1	(0.5)	(0.9)	(1.5)	(2.1)	(3.2)	(4.5)	(5.5)	(6.2)
	10Y	7.1	5.0	3.4	1.7	0.6	(0.7)	(1.5)	(2.5)	(2.6)	(3.1)	(4.8)	(6.2)	(6.9)	(7.5)
	15Y	3.1	1.6	0.1	(1.2)	(2.4)	(3.1)	(3.3)	(3.8)	(5.2)	(6.6)	(8.1)	(8.8)	(9.4)	(9.8)
	20Y	(4.9)	(6.4)	(7.9)	(8.5)	(9.5)	(9.7)	(9.9)	(10.2)	(10.5)	(11.0)	(11.2)	(11.5)	(11.8)	(12.0)
30Y	(8.1)	(9.1)	(10.1)	(10.9)	(11.2)	(11.3)	(11.3)	(11.5)	(11.7)	(11.9)	(12.2)	(12.5)	(12.7)	(13.0)	

### Total Sub-Saharan Africa

EXPIRY	1M	(2.3)	(2.9)	(3.8)	(3.5)	(2.8)	(2.1)	(2.2)	(1.9)	(2.2)	(1.4)	(1.9)	(1.7)	(1.9)	(1.8)
	3M	(3.0)	(3.9)	(3.8)	(2.0)	(2.2)	(1.9)	(2.2)	(1.9)	(2.1)	(1.4)	(1.9)	(1.6)	(1.9)	(1.9)
	6M	(2.5)	(2.7)	(0.2)	(1.1)	(1.5)	(1.7)	(1.9)	(1.8)	(2.0)	(1.3)	(1.8)	(1.5)	(1.8)	(2.0)
	9M	3.6	4.0	0.6	(0.7)	0.5	(1.3)	(1.5)	(1.7)	(1.9)	(1.9)	(2.3)	(2.4)	(2.3)	(2.2)
	1Y	(0.1)	0.5	0.8	1.0	1.3	(0.4)	(0.5)	(1.9)	(2.0)	(1.9)	(2.3)	(2.7)	(2.6)	(2.5)
	2Y	0.2	0.2	0.5	0.8	1.0	0.9	(0.9)	(2.1)	(1.8)	(1.7)	(2.1)	(2.4)	(2.6)	(2.3)
	3Y	5.7	5.1	4.4	3.9	3.5	1.1	(0.3)	(1.5)	(1.4)	(1.4)	(1.9)	(2.2)	(2.4)	(2.1)
	5Y	7.0	5.8	4.6	3.4	2.2	0.1	(0.5)	(0.4)	(0.4)	(0.9)	(1.2)	(1.7)	(1.9)	(2.1)
	7Y	7.0	5.6	4.2	3.4	2.3	1.2	0.3	0.1	(0.2)	(0.6)	(1.1)	(1.3)	(1.7)	(2.4)
	10Y	5.8	4.5	3.5	2.5	1.8	0.7	0.2	(0.8)	(0.8)	(1.3)	(1.6)	(1.7)	(2.6)	(3.4)
	15Y	3.0	2.0	1.1	0.3	(0.5)	(1.2)	(1.6)	(2.4)	(2.3)	(2.7)	(2.7)	(4.2)	(5.3)	(6.3)
	20Y	1.0	0.1	(0.9)	(1.2)	(1.8)	(2.2)	(2.5)	(3.2)	(2.8)	(3.0)	(5.6)	(7.2)	(8.4)	(9.2)
30Y	(12.3)	(12.9)	(13.5)	(14.0)	(14.2)	(14.2)	(14.3)	(14.5)	(14.7)	(14.9)	(15.2)	(15.5)	(15.7)	(15.9)	

## Appendix 11: Global Market Shock - Other Rates (Adverse)

### Other Rates

#### Absolute Change in Inflation (bps)

Currency	MATURITY												
	1M	3M	6M	9M	1Y	2Y	3Y	5Y	7Y	10Y	15Y	20Y	30Y
AUD	20.0	30.0	40.0	47.5	52.5	55.0	60.0	65.0	72.5	80.0	72.5	65.0	60.0
EUR	22.5	35.0	45.0	55.0	60.0	62.5	67.5	72.5	80.0	90.0	80.0	72.5	67.5
GBP	22.5	32.5	45.0	52.5	57.5	62.5	67.5	72.5	80.0	90.0	72.5	72.5	67.5
JPY	10.0	15.0	20.0	25.0	27.5	30.0	32.5	35.0	37.5	40.0	37.5	35.0	30.0
USD	25.0	37.5	50.0	60.0	65.0	70.0	75.0	80.0	90.0	100.0	90.0	80.0	75.0
Other	22.5	35.0	45.0	55.0	60.0	62.5	67.5	72.5	80.0	90.0	80.0	72.5	67.5

#### Absolute Change in Cross-Currency vs. USD Basis (bps)

(move in bps of curve relative to base curve)

Currency	MATURITY												
	1M	3M	6M	9M	1Y	2Y	3Y	5Y	7Y	10Y	15Y	20Y	30Y
AUD	(25.0)	(22.5)	(20.0)	(17.5)	(15.0)	(10.0)	(7.5)	(5.0)	(2.5)	0.0	0.0	0.0	0.0
EUR	(62.5)	(60.0)	(55.0)	(52.5)	(50.0)	(40.0)	(30.0)	(20.0)	(12.5)	(7.5)	(5.0)	(2.5)	(2.5)
GBP	(35.0)	(32.5)	(30.0)	(27.5)	(25.0)	(20.0)	(15.0)	(12.5)	(10.0)	(7.5)	(5.0)	(2.5)	(2.5)
JPY	(30.0)	(27.5)	(25.0)	(22.5)	(20.0)	(15.0)	(12.5)	(10.0)	(7.5)	(5.0)	(2.5)	(2.5)	(2.5)
Other	(35.0)	(32.5)	(30.0)	(27.5)	(25.0)	(20.0)	(15.0)	(12.5)	(10.0)	(7.5)	(5.0)	(2.5)	(2.5)







## Appendix 12: Global Market Shock - Rates DVO1 (Severe) (Cont.)

### SEK Directional Risks

Governments	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8
Agencies	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8
Municipals	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8
Swaps / Discounting Curve	0.0	3.4	8.5	21.3	42.5	127.5	161.5	170.0	187.0	191.3	221.0	246.5	272.0
Instruments shocked by MV**													
Other	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8

### SEK Basis Risks (Do not include the swap/discounting curve specified above)

OIS Basis													
1m Basis													
3m Basis													
6m Basis													
12m Basis													
Other Basis													

### USD Directional Risks

Governments	0.0	3.6	9.0	22.5	45.0	135.0	171.0	180.0	198.0	202.5	234.0	261.0	288.0
Agencies	0.0	3.6	9.0	22.5	45.0	135.0	171.0	180.0	198.0	202.5	234.0	261.0	288.0
Municipals	0.0	3.6	9.0	22.5	45.0	135.0	171.0	180.0	198.0	202.5	234.0	261.0	288.0
Swaps / Discounting Curve	0.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
Instruments shocked by MV**													
Other	0.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0

### USD Basis Risks (Do not include the swap/discounting curve specified above)

Prime Basis	(10.0)	(15.0)	(25.0)	(35.0)	(30.0)	(18.0)	(12.0)	(10.0)	(9.0)	(8.0)	(7.0)	(5.0)	(3.0)
CP Basis	(10.0)	(15.0)	(25.0)	(35.0)	(30.0)	(18.0)	(12.0)	(10.0)	(9.0)	(8.0)	(7.0)	(5.0)	(3.0)
OIS Basis	(10.0)	(15.0)	(25.0)	(35.0)	(30.0)	(18.0)	(12.0)	(10.0)	(9.0)	(8.0)	(7.0)	(5.0)	(3.0)
1m Basis	(5.0)	(10.0)	(20.0)	(30.0)	(26.0)	(13.5)	(8.5)	(7.0)	(6.0)	(5.0)	(4.0)	(3.0)	(2.0)
3m Basis													
6m Basis	26.0	26.0	26.0	26.0	26.0	18.7	16.0	12.3	10.8	10.3	10.3	10.3	10.3
12m Basis	53.9	53.9	53.9	53.9	53.9	40.0	33.6	25.5	22.1	22.3	16.4	14.4	10.7
Other Basis													

Absolute increase in Muni SIFMA/Libor Ratio (Pts)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
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### Other Advanced Economies Directional Risks

Governments	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8
Agencies	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8
Municipals	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8
Swaps / Discounting Curve	0.0	3.4	8.5	21.3	42.5	127.5	161.5	170.0	187.0	191.3	221.0	246.5	272.0
Instruments shocked by MV**													
Other	0.0	3.1	7.7	19.1	38.3	114.8	145.4	153.0	168.3	172.1	198.9	221.9	244.8

## Appendix 12: Global Market Shock - Rates DVO1 (Severe) (Cont.)

### Directional Risks: Emerging Europe

BGN	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
CZK	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
HRK	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
HUF	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
PLN	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
RON	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
RUB	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
Other Emerging Europe	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0

### Directional Risks: Latin America & Caribbean

ARS	300.0	300.0	300.0	300.0	300.0	300.0	380.0	400.0	440.0	450.0	520.0	580.0	640.0
BRL	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
CLP	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
COP	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
MXN	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
PEN	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
VEF	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
Other Latam & Caribbean	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0

### Directional Risks: Asia Ex-Japan

CNY	0.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
HKD	0.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
IDR	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
INR	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
KRW	2.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
MYR	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
PHP	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
SGD	0.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
THB	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
TWD	0.0	4.0	10.0	25.0	50.0	150.0	190.0	200.0	220.0	225.0	260.0	290.0	320.0
Other Asia Ex-Japan	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0

### Directional Risks: Middle East/North Africa

ILS	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
TRY	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
Other Middle East/Africa	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0

### Directional Risks: Sub-Saharan Africa

ZAR	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0
Other Sub-Saharan Africa	187.5	187.5	187.5	187.5	187.5	187.5	237.5	250.0	275.0	281.3	325.0	362.5	400.0





## Appendix 12: Global Market Shock - Relative Normal Interest Rates (Severe) (Cont.)

### USD

EXPIRY	1M	31.8%	38.2%	50.9%	57.3%	63.6%	53.3%	51.3%	33.7%	30.7%	42.8%	44.8%	59.4%	60.0%	67.1%
	3M	43.6%	43.6%	43.6%	52.4%	65.4%	62.3%	47.4%	32.2%	29.6%	40.5%	42.0%	55.3%	56.6%	60.8%
	6M	42.5%	42.5%	42.5%	42.5%	53.1%	51.1%	38.5%	29.8%	27.8%	38.8%	41.0%	53.4%	56.2%	56.6%
	9M	42.6%	28.4%	28.4%	28.4%	85.3%	50.0%	36.8%	28.7%	26.5%	27.1%	28.6%	36.4%	42.7%	49.2%
	1Y	42.9%	66.7%	83.4%	100.1%	119.1%	77.3%	56.1%	27.4%	26.6%	26.5%	28.1%	29.2%	35.9%	42.4%
	2Y	55.5%	61.7%	74.1%	86.4%	98.7%	71.1%	42.7%	24.9%	25.3%	25.7%	28.9%	28.8%	29.7%	42.2%
	3Y	96.0%	91.2%	86.4%	83.5%	81.6%	57.2%	38.2%	24.3%	24.8%	25.5%	28.3%	28.9%	29.8%	42.8%
	5Y	124.7%	110.9%	97.0%	83.1%	69.3%	51.2%	36.9%	35.3%	35.1%	36.3%	39.7%	35.5%	37.0%	44.5%
	7Y	125.5%	106.2%	86.9%	77.3%	62.8%	48.8%	37.8%	36.0%	37.1%	38.6%	42.3%	43.9%	46.2%	47.3%
	10Y	123.6%	101.1%	84.3%	67.4%	56.2%	43.8%	42.4%	40.5%	42.0%	42.5%	47.4%	49.1%	51.4%	52.2%
	15Y	134.8%	113.5%	92.2%	73.8%	56.8%	48.4%	47.9%	47.5%	48.3%	49.2%	54.6%	57.7%	59.3%	60.7%
20Y	133.0%	108.0%	83.1%	74.8%	58.2%	56.5%	55.5%	54.5%	55.4%	56.5%	62.7%	64.6%	66.2%	67.9%	
30Y	134.4%	113.7%	93.0%	78.6%	72.4%	69.3%	66.3%	62.1%	62.4%	62.7%	68.9%	66.6%	73.3%	80.1%	

### Other Advanced Economies

EXPIRY	1M	11.6%	13.9%	18.6%	20.9%	23.2%	21.1%	22.9%	23.3%	22.2%	29.5%	27.7%	35.1%	34.6%	38.1%
	3M	16.6%	16.6%	16.6%	19.9%	24.8%	20.8%	20.9%	21.9%	20.8%	27.9%	26.3%	33.4%	32.9%	34.9%
	6M	15.9%	15.9%	15.9%	15.9%	19.8%	21.2%	20.2%	21.5%	20.6%	27.9%	26.4%	33.5%	33.2%	33.1%
	9M	17.2%	11.4%	11.4%	11.4%	34.3%	25.6%	22.4%	21.2%	20.6%	20.1%	19.1%	22.7%	26.2%	30.0%
	1Y	17.9%	27.9%	34.9%	41.9%	49.8%	42.0%	36.5%	20.9%	20.7%	20.2%	19.4%	19.3%	22.9%	26.8%
	2Y	35.6%	39.5%	47.4%	55.3%	63.2%	51.5%	32.9%	20.7%	20.6%	21.1%	20.7%	20.6%	20.5%	29.1%
	3Y	79.9%	75.9%	71.9%	69.5%	67.9%	48.8%	33.0%	21.7%	22.0%	22.5%	22.3%	22.3%	22.2%	31.9%
	5Y	114.9%	102.2%	89.4%	76.6%	63.9%	47.2%	34.9%	33.8%	34.1%	35.6%	36.1%	31.0%	31.0%	37.8%
	7Y	125.3%	106.0%	86.7%	77.1%	62.6%	45.4%	36.6%	35.7%	37.1%	38.4%	38.8%	38.9%	39.8%	41.8%
	10Y	113.6%	92.9%	77.4%	61.9%	51.6%	41.7%	39.2%	38.0%	39.6%	40.9%	41.0%	41.0%	43.8%	46.3%
	15Y	105.7%	89.0%	72.3%	57.8%	44.5%	39.6%	40.3%	41.6%	42.0%	42.4%	42.1%	46.3%	50.0%	53.1%
20Y	85.7%	69.6%	53.5%	48.2%	37.5%	38.3%	38.9%	40.3%	40.9%	41.5%	48.5%	53.9%	58.5%	62.4%	
30Y	152.1%	128.7%	105.3%	88.9%	81.9%	84.1%	86.4%	89.7%	94.0%	98.1%	102.8%	107.3%	111.5%	115.4%	

### Total Emerging Europe

EXPIRY	1M	48.9%	58.6%	78.2%	88.0%	97.7%	119.4%	129.9%	95.1%	76.7%	86.5%	71.6%	87.2%	86.4%	95.7%
	3M	100.5%	100.5%	100.5%	120.6%	150.8%	133.3%	121.3%	91.3%	74.4%	84.7%	70.8%	86.5%	85.8%	91.5%
	6M	126.8%	126.8%	126.8%	126.8%	158.5%	132.2%	109.5%	86.1%	71.1%	82.2%	69.5%	85.4%	84.9%	85.1%
	9M	133.1%	88.7%	88.7%	88.7%	266.2%	152.7%	112.3%	81.1%	68.0%	56.9%	48.8%	56.3%	65.4%	75.1%
	1Y	130.1%	202.4%	253.1%	303.7%	361.5%	238.2%	169.7%	76.3%	64.9%	55.2%	47.9%	46.3%	55.4%	65.2%
	2Y	182.2%	202.4%	242.9%	283.4%	323.9%	215.0%	117.1%	61.9%	55.1%	49.5%	44.9%	44.2%	44.4%	63.5%
	3Y	280.9%	266.9%	252.8%	244.4%	238.8%	149.4%	95.4%	53.7%	49.1%	45.3%	42.7%	42.7%	43.2%	62.4%
	5Y	299.1%	265.9%	232.7%	199.4%	166.2%	113.3%	76.8%	65.0%	60.7%	56.7%	56.6%	49.7%	50.6%	61.9%
	7Y	236.7%	200.3%	163.8%	145.6%	118.3%	85.5%	63.3%	56.9%	54.6%	54.2%	55.5%	57.1%	59.3%	62.5%
	10Y	178.4%	145.9%	121.6%	97.3%	81.1%	63.2%	56.6%	51.3%	52.8%	53.7%	56.5%	58.3%	62.4%	65.9%
	15Y	159.6%	134.4%	109.2%	87.3%	67.2%	58.2%	58.0%	57.6%	59.5%	61.2%	63.0%	68.5%	73.1%	77.1%
20Y	152.5%	123.9%	95.3%	85.8%	66.7%	66.5%	66.6%	66.9%	67.2%	67.7%	75.7%	81.7%	86.6%	90.9%	
30Y	195.1%	165.1%	135.1%	114.1%	105.1%	105.7%	106.7%	108.6%	110.4%	113.1%	117.4%	121.5%	125.3%	129.0%	

### Total Latam & Caribbean

EXPIRY	1M	10.8%	13.0%	17.4%	19.5%	21.7%	24.2%	22.3%	23.0%	15.6%	23.6%	21.1%	28.4%	27.4%	30.1%
	3M	19.5%	19.5%	19.5%	23.4%	29.2%	26.8%	19.5%	22.4%	15.2%	20.0%	21.4%	28.9%	28.1%	29.9%
	6M	16.3%	16.3%	16.3%	16.3%	20.4%	28.2%	17.5%	23.3%	14.9%	20.3%	21.6%	29.0%	28.3%	28.2%
	9M	21.4%	14.3%	14.3%	14.3%	42.9%	35.0%	19.0%	23.7%	14.6%	16.1%	15.1%	18.9%	21.6%	24.7%
	1Y	27.5%	42.8%	53.5%	64.2%	76.4%	58.2%	29.8%	24.4%	14.2%	19.1%	14.7%	15.3%	18.0%	21.1%
	2Y	53.4%	59.3%	71.2%	83.1%	94.9%	44.4%	25.2%	13.1%	12.7%	18.7%	13.2%	13.7%	13.5%	19.1%
	3Y	74.2%	70.5%	66.8%	64.6%	63.1%	36.4%	22.9%	12.6%	12.2%	12.4%	12.5%	12.9%	12.9%	18.3%
	5Y	86.3%	76.7%	67.1%	57.5%	47.9%	29.6%	19.9%	17.0%	16.7%	24.8%	16.5%	14.4%	14.4%	17.3%
	7Y	78.5%	66.4%	54.3%	48.3%	39.2%	28.8%	22.1%	18.5%	18.9%	23.4%	15.7%	16.0%	16.3%	16.8%
	10Y	56.4%	46.1%	38.4%	30.7%	25.6%	23.9%	25.8%	25.7%	24.6%	22.1%	14.8%	15.0%	15.7%	16.4%
	15Y	43.1%	36.3%	29.5%	23.6%	18.2%	18.7%	22.1%	23.7%	22.7%	20.7%	14.7%	16.1%	17.3%	18.3%
20Y	33.5%	27.2%	21.0%	18.9%	14.7%	17.4%	20.6%	22.4%	23.0%	21.8%	18.0%	20.3%	22.3%	24.1%	
30Y	116.3%	98.4%	80.5%	68.0%	62.6%	72.9%	85.1%	90.7%	91.9%	86.4%	64.4%	67.4%	70.3%	73.0%	

## Appendix 12: Global Market Shock – Relative Normal Interest Rates (Severe) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	24.6%	29.5%	39.4%	44.3%	49.2%	71.4%	64.3%	52.5%	51.5%	65.4%	64.6%	79.5%	83.1%	96.1%
	3M	48.7%	48.7%	48.7%	58.5%	73.1%	84.7%	63.6%	52.1%	51.2%	65.1%	64.3%	79.4%	83.1%	92.3%
	6M	42.4%	42.4%	42.4%	42.4%	53.0%	61.3%	58.2%	53.6%	51.2%	65.7%	65.0%	80.9%	84.7%	88.3%
	9M	49.3%	32.9%	32.9%	32.9%	98.6%	77.3%	65.1%	54.3%	52.1%	48.2%	47.6%	55.6%	68.0%	81.0%
	1Y	55.5%	86.3%	107.9%	129.4%	154.1%	132.7%	108.1%	55.0%	53.1%	49.5%	48.9%	47.9%	60.3%	73.4%
	2Y	112.6%	125.1%	150.1%	175.2%	200.2%	156.9%	95.4%	54.4%	53.6%	52.7%	51.9%	52.0%	54.7%	80.1%
	3Y	229.8%	218.3%	206.8%	199.9%	195.3%	135.8%	89.0%	53.9%	53.6%	53.4%	52.2%	53.4%	56.4%	82.6%
	5Y	299.6%	266.3%	233.1%	199.8%	166.5%	121.4%	84.8%	75.1%	73.7%	75.1%	71.8%	66.0%	69.9%	85.6%
	7Y	277.3%	234.7%	192.0%	170.7%	138.7%	106.8%	80.0%	73.2%	74.5%	73.1%	73.9%	79.6%	84.4%	88.8%
	10Y	243.4%	199.1%	165.9%	132.7%	110.6%	89.4%	83.0%	77.4%	73.6%	71.2%	79.2%	85.5%	90.8%	95.6%
	15Y	180.0%	151.6%	123.2%	98.5%	75.8%	66.9%	66.4%	64.7%	72.3%	80.6%	90.1%	97.3%	103.4%	108.7%
20Y	251.1%	204.1%	157.0%	141.3%	109.9%	112.4%	112.9%	112.8%	115.3%	119.3%	125.0%	130.4%	135.4%	140.2%	
30Y	257.9%	218.3%	178.6%	150.8%	138.9%	141.8%	142.2%	141.5%	144.1%	148.3%	154.2%	159.9%	165.2%	170.4%	

### Total ME/N. Africa

EXPIRY	1M	25.9%	31.1%	41.4%	46.6%	51.8%	61.0%	69.5%	55.2%	43.4%	50.0%	44.3%	55.0%	57.4%	66.3%
	3M	49.2%	49.2%	49.2%	59.0%	73.8%	68.4%	65.6%	52.8%	42.1%	49.0%	43.8%	54.6%	57.0%	63.3%
	6M	52.6%	52.6%	52.6%	52.6%	65.8%	67.9%	60.0%	49.4%	40.2%	47.6%	43.0%	54.0%	56.5%	58.9%
	9M	58.5%	39.0%	39.0%	39.0%	116.9%	78.9%	62.4%	46.3%	38.4%	33.0%	30.1%	35.6%	43.5%	51.9%
	1Y	62.8%	97.6%	122.0%	146.5%	174.4%	125.3%	96.1%	43.5%	36.8%	32.1%	29.6%	29.3%	37.0%	45.0%
	2Y	100.4%	111.6%	133.9%	156.2%	178.5%	126.7%	70.0%	35.3%	31.7%	29.1%	27.8%	28.3%	29.9%	43.9%
	3Y	172.8%	164.2%	155.5%	150.4%	146.9%	91.5%	55.5%	30.6%	28.3%	27.1%	26.5%	27.6%	29.3%	43.2%
	5Y	157.8%	140.2%	122.7%	105.2%	87.6%	60.6%	41.8%	36.5%	35.0%	34.7%	35.1%	32.8%	35.0%	43.3%
	7Y	132.1%	111.8%	91.4%	81.3%	66.0%	49.2%	36.5%	33.7%	33.8%	34.1%	36.2%	39.7%	42.6%	45.2%
	10Y	108.6%	88.9%	74.1%	59.3%	49.4%	39.1%	36.2%	34.1%	34.7%	35.3%	40.4%	44.4%	47.7%	50.7%
	15Y	100.8%	84.9%	68.9%	55.2%	42.4%	37.2%	37.3%	37.5%	42.1%	47.1%	53.0%	57.6%	61.5%	64.8%
20Y	149.3%	121.3%	93.3%	84.0%	65.3%	66.3%	67.1%	68.9%	70.7%	73.1%	77.0%	80.6%	84.0%	87.1%	
30Y	160.7%	136.0%	111.2%	93.9%	86.5%	87.5%	88.5%	90.3%	92.1%	94.8%	98.9%	102.8%	106.5%	110.0%	

### Total Sub-Saharan Africa

EXPIRY	1M	4.8%	5.8%	7.7%	8.7%	9.6%	13.3%	18.3%	18.9%	17.8%	23.4%	22.2%	28.3%	28.3%	31.4%
	3M	9.4%	9.4%	9.4%	11.3%	14.1%	15.6%	17.9%	18.6%	17.6%	23.2%	22.1%	28.1%	28.2%	30.0%
	6M	10.8%	10.8%	10.8%	10.8%	13.5%	16.7%	17.4%	18.2%	17.2%	22.8%	21.8%	27.9%	27.9%	28.0%
	9M	13.0%	8.6%	8.6%	8.6%	25.9%	21.0%	19.2%	17.8%	16.9%	16.1%	15.4%	18.4%	21.5%	24.7%
	1Y	14.9%	23.2%	29.0%	34.9%	41.5%	36.1%	31.3%	17.4%	16.7%	15.8%	15.3%	15.2%	18.3%	21.5%
	2Y	33.5%	37.3%	44.7%	52.2%	59.6%	46.0%	28.2%	16.3%	15.8%	15.1%	14.8%	14.9%	14.9%	21.1%
	3Y	67.3%	63.9%	60.5%	58.5%	57.2%	39.6%	25.6%	15.5%	15.1%	14.6%	14.5%	14.6%	14.6%	20.9%
	5Y	81.6%	72.5%	63.5%	54.4%	45.3%	33.3%	23.2%	20.8%	19.8%	19.6%	19.8%	17.2%	17.3%	20.9%
	7Y	74.9%	63.4%	51.8%	46.1%	37.4%	28.4%	21.3%	19.2%	19.1%	19.3%	19.7%	19.9%	20.4%	21.2%
	10Y	58.2%	47.6%	39.7%	31.7%	26.4%	21.3%	19.7%	18.9%	19.2%	19.7%	20.2%	20.3%	21.5%	22.6%
	15Y	54.7%	46.0%	37.4%	29.9%	23.0%	20.4%	20.7%	21.3%	21.4%	21.9%	21.9%	24.1%	25.9%	27.6%
20Y	50.0%	40.6%	31.2%	28.1%	21.9%	22.2%	22.6%	23.3%	22.6%	22.7%	26.8%	30.1%	32.9%	35.3%	
30Y	119.9%	101.5%	83.0%	70.1%	64.6%	65.5%	66.5%	68.3%	70.1%	72.6%	76.5%	80.2%	83.6%	86.8%	



## Appendix 12: Global Market Shock - Relative LogNormal Interest Rates (Severe) (Cont.)

### USD

EXPIRY	1M	56.1%	29.8%	8.6%	-22.4%	-43.2%	-63.8%	-55.9%	-41.3%	-34.5%	-20.7%	-18.8%	-12.4%	-12.5%	-10.2%
	3M	34.8%	18.1%	-19.9%	-42.7%	-52.6%	-61.7%	-55.2%	-41.0%	-34.4%	-21.7%	-20.2%	-14.4%	-14.2%	-13.3%
	6M	-20.1%	-30.4%	-51.2%	-61.2%	-65.1%	-63.8%	-55.3%	-40.9%	-34.4%	-22.2%	-20.6%	-15.1%	-14.1%	-15.2%
	9M	-50.8%	-60.7%	-66.7%	-71.1%	-63.0%	-62.6%	-53.5%	-40.2%	-34.2%	-28.4%	-27.3%	-24.2%	-21.3%	-18.8%
	1Y	-58.4%	-55.6%	-56.6%	-57.5%	-57.7%	-52.2%	-43.0%	-38.9%	-32.7%	-28.0%	-27.2%	-27.8%	-24.6%	-22.1%
	2Y	-40.3%	-40.0%	-38.4%	-37.0%	-35.7%	-27.3%	-30.1%	-32.5%	-27.1%	-24.5%	-24.4%	-25.9%	-26.3%	-19.9%
	3Y	11.1%	6.4%	1.0%	-3.1%	-6.6%	-12.3%	-20.2%	-24.9%	-22.6%	-22.0%	-22.9%	-24.0%	-24.7%	-17.7%
	5Y	46.0%	35.3%	24.2%	13.4%	3.0%	-9.2%	-13.7%	-12.8%	-12.6%	-15.0%	-15.8%	-19.1%	-19.9%	-15.1%
	7Y	61.6%	46.8%	31.9%	23.9%	12.8%	1.6%	-7.2%	-9.4%	-11.9%	-13.7%	-13.9%	-14.4%	-14.1%	-13.2%
	10Y	51.1%	35.3%	23.2%	11.2%	3.1%	-5.7%	-9.4%	-14.3%	-14.3%	-16.3%	-13.6%	-14.4%	-12.4%	-11.9%
	15Y	40.3%	27.3%	14.2%	2.9%	-7.5%	-13.5%	-14.9%	-17.2%	-15.7%	-15.5%	-14.1%	-11.2%	-10.3%	-9.8%
20Y	38.4%	23.4%	8.5%	3.4%	-6.6%	-8.5%	-9.9%	-12.3%	-12.9%	-14.5%	-9.5%	-8.6%	-8.4%	-8.4%	
30Y	35.2%	23.3%	11.3%	3.0%	-0.6%	-3.2%	-5.8%	-9.6%	-10.5%	-12.0%	-10.2%	-13.7%	-17.3%	-19.5%	

### Other Advanced Economies

EXPIRY	1M	14.2%	14.4%	14.8%	9.6%	2.7%	-15.9%	-17.8%	-15.5%	-15.6%	-9.2%	-12.8%	-10.5%	-11.7%	-10.5%
	3M	18.4%	16.4%	9.0%	2.6%	-2.5%	-18.5%	-19.9%	-16.9%	-16.7%	-10.5%	-13.9%	-11.6%	-12.7%	-12.6%
	6M	10.7%	7.2%	-2.7%	-11.3%	-15.2%	-21.2%	-21.1%	-17.6%	-17.0%	-10.6%	-13.9%	-11.5%	-12.4%	-13.7%
	9M	-0.8%	-9.5%	-17.1%	-22.8%	-12.6%	-20.7%	-20.0%	-18.0%	-17.0%	-16.1%	-18.8%	-18.5%	-16.9%	-15.7%
	1Y	-10.4%	-6.9%	-7.6%	-8.2%	-8.1%	-11.7%	-10.3%	-18.1%	-16.7%	-15.8%	-18.6%	-20.6%	-18.9%	-17.7%
	2Y	-4.9%	-4.2%	-1.7%	0.6%	2.7%	2.6%	-9.2%	-15.8%	-13.5%	-13.8%	-17.0%	-18.8%	-19.6%	-15.7%
	3Y	37.3%	33.0%	28.3%	24.8%	22.0%	5.6%	-5.3%	-12.4%	-11.4%	-12.1%	-15.5%	-17.0%	-17.9%	-13.7%
	5Y	60.2%	49.6%	38.8%	28.2%	17.7%	5.5%	-2.1%	-1.7%	-1.8%	-3.9%	-7.0%	-11.2%	-12.1%	-10.9%
	7Y	69.4%	54.4%	39.4%	31.6%	20.3%	12.3%	1.3%	0.0%	-1.8%	-3.6%	-5.8%	-6.6%	-8.3%	-10.7%
	10Y	59.1%	43.3%	31.3%	19.4%	11.3%	2.8%	-1.2%	-5.2%	-5.3%	-7.1%	-6.8%	-7.4%	-10.3%	-12.7%
	15Y	35.0%	23.9%	12.7%	3.1%	-5.8%	-10.1%	-10.8%	-12.0%	-9.5%	-9.0%	-9.3%	-13.5%	-16.8%	-19.5%
20Y	26.9%	15.9%	4.8%	1.0%	-6.4%	-6.8%	-7.3%	-8.1%	-7.4%	-8.4%	-15.6%	-20.2%	-23.6%	-26.3%	
30Y	-17.4%	-25.1%	-32.8%	-38.1%	-40.4%	-40.5%	-40.4%	-40.6%	-40.6%	-41.2%	-42.5%	-43.7%	-44.7%	-45.6%	

### Total Emerging Europe

EXPIRY	1M	-66.7%	-66.0%	-62.4%	-59.0%	-55.8%	-45.8%	-39.4%	-32.4%	-33.6%	-21.3%	-25.6%	-20.9%	-23.1%	-21.6%
	3M	-58.9%	-60.0%	-58.1%	-51.0%	-46.2%	-41.3%	-39.3%	-32.6%	-33.5%	-21.5%	-25.7%	-21.0%	-23.2%	-23.2%
	6M	-52.6%	-52.0%	-48.5%	-51.8%	-47.4%	-39.7%	-39.0%	-32.9%	-33.4%	-21.8%	-25.9%	-21.2%	-23.3%	-25.5%
	9M	-34.2%	-45.0%	-52.1%	-54.9%	-54.9%	-33.2%	-34.9%	-33.3%	-33.3%	-32.0%	-34.7%	-33.3%	-31.2%	-29.3%
	1Y	-35.6%	-16.6%	-4.9%	6.4%	19.0%	-9.4%	-13.1%	-33.9%	-33.3%	-32.2%	-34.8%	-37.4%	-35.2%	-33.2%
	2Y	-10.6%	-7.0%	1.1%	8.5%	15.4%	8.0%	-16.8%	-34.8%	-32.2%	-32.5%	-35.0%	-37.3%	-39.0%	-33.2%
	3Y	67.9%	59.8%	51.0%	44.8%	40.1%	9.3%	-15.5%	-31.1%	-29.7%	-31.6%	-34.7%	-37.0%	-38.8%	-32.9%
	5Y	75.9%	59.8%	43.3%	27.3%	11.7%	-8.1%	-19.4%	-19.9%	-22.6%	-25.2%	-28.6%	-34.0%	-35.9%	-33.5%
	7Y	74.0%	54.4%	34.8%	24.6%	10.0%	-2.6%	-14.3%	-20.9%	-23.3%	-26.0%	-29.1%	-31.1%	-32.8%	-34.1%
	10Y	35.2%	18.9%	6.4%	-5.9%	-14.1%	-22.0%	-24.6%	-27.5%	-28.7%	-30.7%	-32.1%	-34.0%	-35.1%	-36.3%
	15Y	13.1%	1.9%	-9.3%	-19.1%	-28.0%	-31.7%	-32.4%	-33.9%	-34.0%	-34.7%	-36.5%	-37.7%	-38.9%	-40.0%
20Y	0.1%	-11.4%	-22.8%	-26.7%	-34.3%	-34.2%	-34.7%	-35.6%	-36.5%	-37.9%	-39.5%	-40.9%	-42.0%	-43.0%	
30Y	-18.8%	-27.0%	-35.3%	-41.1%	-43.5%	-43.5%	-43.7%	-44.2%	-44.6%	-45.3%	-46.2%	-47.0%	-47.8%	-48.4%	

### Total Latam & Caribbean

EXPIRY	1M	-13.0%	-9.5%	-5.4%	-4.0%	-3.1%	-0.5%	-4.6%	-1.9%	-6.9%	1.7%	0.0%	6.2%	8.4%	11.0%
	3M	1.1%	2.3%	1.6%	3.8%	7.5%	5.5%	-2.1%	3.0%	-2.6%	2.9%	3.4%	9.2%	10.8%	11.9%
	6M	0.2%	0.3%	-0.9%	-2.1%	0.3%	5.6%	-3.7%	3.9%	-2.5%	3.6%	4.0%	9.9%	11.5%	11.0%
	9M	4.8%	-1.7%	-2.9%	-3.8%	19.2%	10.0%	-2.6%	4.4%	-2.5%	0.5%	-1.1%	2.0%	6.3%	8.5%
	1Y	11.1%	23.8%	32.0%	40.1%	49.4%	29.0%	7.6%	6.2%	-1.8%	4.3%	-0.6%	0.0%	4.1%	6.2%
	2Y	31.3%	34.4%	41.4%	48.1%	54.5%	19.1%	5.9%	-3.4%	-1.5%	6.2%	0.1%	1.5%	2.6%	6.9%
	3Y	59.1%	54.0%	48.2%	44.0%	40.4%	19.1%	8.2%	-0.1%	-0.2%	2.0%	1.6%	3.7%	4.6%	8.5%
	5Y	75.5%	65.1%	54.3%	43.7%	33.4%	14.2%	8.4%	5.6%	8.5%	15.0%	6.9%	9.2%	9.6%	10.4%
	7Y	75.1%	62.6%	49.8%	43.1%	33.5%	21.4%	13.2%	13.6%	12.3%	18.0%	11.0%	13.7%	13.0%	11.0%
	10Y	66.6%	55.1%	46.3%	37.5%	31.4%	27.5%	27.0%	20.7%	23.3%	18.8%	15.9%	16.1%	13.1%	10.4%
	15Y	59.5%	51.6%	43.6%	36.7%	30.3%	28.5%	29.3%	24.4%	31.7%	31.5%	19.3%	12.3%	6.8%	2.2%
20Y	75.4%	67.1%	58.8%	56.0%	50.4%	51.5%	53.0%	48.3%	42.8%	33.2%	5.7%	-4.2%	-11.0%	-16.1%	
30Y	-32.3%	-37.9%	-43.5%	-47.4%	-49.1%	-45.7%	-41.9%	-41.6%	-42.8%	-46.8%	-57.9%	-59.1%	-60.1%	-61.0%	

## Appendix 12: Global Market Shock – Relative LogNormal Interest Rates (Severe) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	22.7%	27.0%	33.3%	27.8%	20.8%	9.1%	-1.7%	-8.2%	-10.3%	-1.3%	-6.9%	-1.5%	-6.0%	-5.3%
	3M	47.2%	46.9%	34.6%	29.0%	29.4%	13.1%	-3.8%	-9.6%	-11.1%	-2.1%	-7.5%	-1.9%	-6.4%	-7.5%
	6M	25.6%	21.2%	8.6%	0.3%	0.5%	-6.6%	-9.2%	-10.2%	-11.9%	-2.5%	-7.6%	-1.8%	-6.1%	-9.8%
	9M	9.7%	-6.8%	-12.5%	-17.7%	16.2%	-2.0%	-6.9%	-11.0%	-11.9%	-13.5%	-17.7%	-16.0%	-15.1%	-13.7%
	1Y	1.9%	17.3%	23.5%	29.1%	35.8%	24.7%	16.6%	-11.2%	-11.5%	-13.1%	-17.1%	-20.5%	-19.3%	-17.6%
	2Y	24.2%	29.5%	40.6%	51.2%	61.4%	47.3%	14.3%	-10.5%	-9.3%	-11.1%	-15.3%	-19.2%	-23.1%	-15.2%
	3Y	107.0%	98.9%	90.4%	84.9%	80.9%	43.9%	13.3%	-8.2%	-7.6%	-11.1%	-15.3%	-19.5%	-23.5%	-15.0%
	5Y	138.0%	117.2%	96.0%	75.2%	54.7%	27.1%	8.8%	4.9%	1.3%	-2.6%	-6.6%	-16.7%	-20.6%	-16.7%
	7Y	136.2%	109.1%	81.9%	68.2%	47.9%	28.0%	11.0%	1.6%	-2.1%	-4.9%	-9.6%	-14.2%	-17.3%	-18.8%
	10Y	90.3%	65.4%	46.6%	27.9%	15.4%	2.6%	-3.0%	-9.2%	-9.3%	-11.0%	-15.9%	-20.0%	-21.3%	-22.6%
	15Y	57.7%	41.4%	25.0%	10.9%	-2.1%	-8.0%	-9.3%	-12.2%	-15.7%	-19.4%	-24.1%	-25.2%	-26.3%	-27.3%
	20Y	24.5%	7.7%	-9.1%	-14.7%	-25.9%	-26.2%	-27.2%	-29.5%	-30.8%	-32.5%	-32.1%	-32.4%	-32.9%	-33.5%
30Y	4.9%	-6.8%	-18.4%	-26.5%	-30.0%	-29.8%	-30.4%	-32.0%	-32.5%	-33.1%	-34.1%	-35.0%	-35.8%	-36.6%	

### Total ME/N. Africa

EXPIRY	1M	-56.0%	-54.2%	-50.7%	-48.9%	-47.5%	-35.8%	-31.1%	-25.4%	-25.5%	-15.8%	-19.8%	-16.6%	-20.8%	-21.3%
	3M	-45.1%	-45.1%	-45.4%	-41.6%	-37.8%	-32.1%	-31.0%	-25.4%	-25.2%	-15.8%	-19.8%	-16.7%	-20.8%	-22.5%
	6M	-37.5%	-37.6%	-37.2%	-39.3%	-35.8%	-30.9%	-30.9%	-25.4%	-24.9%	-15.9%	-19.8%	-16.8%	-20.9%	-24.4%
	9M	-26.1%	-35.1%	-38.6%	-40.4%	-9.3%	-25.1%	-27.2%	-25.3%	-24.5%	-23.5%	-26.6%	-26.5%	-27.2%	-27.4%
	1Y	-22.5%	-7.2%	2.3%	11.5%	21.8%	-4.9%	-9.1%	-25.2%	-24.1%	-23.3%	-26.5%	-29.7%	-30.4%	-30.4%
	2Y	-4.6%	-2.1%	3.8%	9.3%	14.3%	6.7%	-12.9%	-25.7%	-23.2%	-23.1%	-26.4%	-29.8%	-33.6%	-30.3%
	3Y	56.3%	49.4%	41.7%	36.2%	31.8%	7.8%	-10.4%	-21.6%	-20.6%	-22.1%	-25.7%	-29.6%	-33.6%	-30.1%
	5Y	64.6%	51.8%	38.6%	25.8%	13.4%	-2.9%	-10.9%	-11.8%	-13.5%	-16.9%	-20.4%	-28.0%	-32.0%	-30.9%
	7Y	62.8%	47.8%	32.5%	24.5%	13.1%	1.7%	-7.5%	-11.9%	-15.0%	-17.9%	-22.7%	-27.6%	-31.0%	-32.8%
	10Y	35.9%	22.5%	12.3%	2.2%	-4.7%	-12.2%	-15.8%	-20.1%	-21.1%	-23.4%	-29.3%	-33.8%	-35.8%	-37.5%
	15Y	14.0%	4.8%	-4.5%	-12.6%	-20.0%	-23.9%	-24.9%	-26.9%	-31.1%	-35.5%	-40.5%	-42.2%	-43.6%	-44.9%
	20Y	-15.4%	-25.0%	-34.5%	-37.8%	-44.1%	-44.9%	-45.6%	-46.8%	-48.1%	-49.7%	-49.8%	-50.3%	-51.0%	-51.7%
30Y	-28.5%	-35.3%	-42.1%	-46.8%	-48.8%	-49.1%	-49.4%	-50.0%	-50.5%	-51.2%	-52.2%	-53.2%	-54.0%	-54.7%	

### Total Sub-Saharan Africa

EXPIRY	1M	-19.4%	-20.9%	-22.8%	-21.7%	-19.0%	-14.8%	-14.9%	-13.2%	-14.8%	-9.6%	-12.9%	-11.2%	-12.6%	-11.7%
	3M	-19.6%	-22.3%	-22.2%	-15.7%	-15.0%	-13.5%	-14.8%	-13.3%	-14.7%	-9.6%	-12.8%	-11.0%	-12.5%	-12.4%
	6M	-16.8%	-17.7%	-9.4%	-12.4%	-12.4%	-12.8%	-14.2%	-13.1%	-14.3%	-9.4%	-12.6%	-10.8%	-12.2%	-13.5%
	9M	3.9%	3.0%	-7.5%	-11.5%	-0.3%	-10.4%	-12.2%	-13.0%	-14.1%	-14.0%	-16.9%	-17.1%	-16.2%	-15.3%
	1Y	-6.6%	-0.8%	2.4%	5.5%	9.2%	-2.7%	-3.9%	-13.7%	-14.3%	-14.1%	-16.9%	-19.1%	-18.2%	-17.3%
	2Y	-2.4%	-1.2%	1.8%	4.6%	7.3%	5.1%	-6.7%	-15.4%	-14.1%	-14.1%	-16.7%	-18.7%	-19.7%	-16.8%
	3Y	33.6%	30.1%	26.3%	23.5%	21.3%	6.0%	-4.8%	-12.9%	-12.3%	-13.2%	-16.2%	-18.0%	-19.0%	-16.3%
	5Y	42.3%	34.5%	26.4%	18.5%	10.7%	-1.7%	-6.6%	-6.8%	-7.5%	-10.1%	-12.7%	-15.9%	-16.8%	-16.6%
	7Y	42.5%	32.8%	22.9%	17.8%	10.4%	2.9%	-2.9%	-5.5%	-7.7%	-10.0%	-12.6%	-13.8%	-15.5%	-17.5%
	10Y	29.0%	20.1%	13.2%	6.4%	1.8%	-4.4%	-6.9%	-11.2%	-11.8%	-14.2%	-15.4%	-16.1%	-19.0%	-21.4%
	15Y	13.2%	6.7%	0.3%	-5.4%	-10.6%	-14.3%	-15.9%	-18.9%	-18.5%	-19.7%	-20.0%	-24.7%	-28.3%	-31.3%
	20Y	3.4%	-3.1%	-9.6%	-11.8%	-16.2%	-17.6%	-18.9%	-21.3%	-20.1%	-21.1%	-29.4%	-34.8%	-38.7%	-41.6%
30Y	-45.7%	-50.3%	-54.8%	-58.0%	-59.4%	-59.7%	-60.1%	-60.7%	-61.3%	-62.1%	-63.2%	-64.2%	-65.0%	-65.7%	





## Appendix 12: Global Market Shock – Absolute Normal Interest Rates (Severe) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	5.5	6.6	8.8	9.9	11.0	16.5	24.2	27.5	27.5	38.5	38.5	49.5	49.5	55.0	
	3M	11.0	11.0	11.0	13.2	16.5	19.8	24.2	27.5	27.5	38.5	38.5	49.5	49.5	52.8	
	6M	13.2	13.2	13.2	13.2	16.5	22.0	24.2	27.5	27.5	38.5	38.5	49.5	49.5	49.5	
	9M	16.5	11.0	11.0	11.0	33.0	28.6	27.5	27.5	27.5	27.5	27.5	33.0	38.5	44.0	
	1Y	19.8	30.8	38.5	46.2	55.0	50.6	46.2	27.5	27.5	27.5	27.5	27.5	33.0	38.5	
	2Y	49.5	55.0	66.0	77.0	88.0	71.5	45.1	27.5	27.5	27.5	27.5	27.5	27.5	38.5	
	3Y	110.0	104.5	99.0	95.7	93.5	66.0	44.0	27.5	27.5	27.5	27.5	27.5	27.5	38.5	
	5Y	148.5	132.0	115.5	99.0	82.5	60.5	42.9	39.6	38.5	38.5	38.5	38.5	33.0	33.0	38.5
	7Y	143.0	121.0	99.0	88.0	71.5	55.0	41.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	
	10Y	121.0	99.0	82.5	66.0	55.0	44.0	40.7	38.5	38.5	38.5	38.5	38.5	38.5	38.5	
	15Y	104.5	88.0	71.5	57.2	44.0	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	
	20Y	88.0	71.5	55.0	49.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	
30Y	71.5	60.5	49.5	41.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5		

### Total ME/N. Africa

EXPIRY	1M	6.5	7.8	10.4	11.7	13.0	19.5	28.6	32.5	32.5	45.5	45.5	58.5	58.5	65.0
	3M	13.0	13.0	13.0	15.6	19.5	23.4	28.6	32.5	32.5	45.5	45.5	58.5	58.5	62.4
	6M	15.6	15.6	15.6	15.6	19.5	26.0	28.6	32.5	32.5	45.5	45.5	58.5	58.5	58.5
	9M	19.5	13.0	13.0	13.0	39.0	33.8	32.5	32.5	32.5	32.5	32.5	39.0	45.5	52.0
	1Y	23.4	36.4	45.5	54.6	65.0	59.8	54.6	32.5	32.5	32.5	32.5	32.5	39.0	45.5
	2Y	58.5	65.0	78.0	91.0	104.0	84.5	53.3	32.5	32.5	32.5	32.5	32.5	32.5	45.5
	3Y	130.0	123.5	117.0	113.1	110.5	78.0	52.0	32.5	32.5	32.5	32.5	32.5	32.5	45.5
	5Y	175.5	156.0	136.5	117.0	97.5	71.5	50.7	46.8	45.5	45.5	45.5	45.5	39.0	45.5
	7Y	169.0	143.0	117.0	104.0	84.5	65.0	49.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5
	10Y	143.0	117.0	97.5	78.0	65.0	52.0	48.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5
	15Y	123.5	104.0	84.5	67.6	52.0	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
	20Y	104.0	84.5	65.0	58.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
30Y	84.5	71.5	58.5	49.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	

### Total Sub-Saharan Africa

EXPIRY	1M	6.5	7.8	10.4	11.7	13.0	19.5	28.6	32.5	32.5	45.5	45.5	58.5	58.5	65.0
	3M	13.0	13.0	13.0	15.6	19.5	23.4	28.6	32.5	32.5	45.5	45.5	58.5	58.5	62.4
	6M	15.6	15.6	15.6	15.6	19.5	26.0	28.6	32.5	32.5	45.5	45.5	58.5	58.5	58.5
	9M	19.5	13.0	13.0	13.0	39.0	33.8	32.5	32.5	32.5	32.5	32.5	39.0	45.5	52.0
	1Y	23.4	36.4	45.5	54.6	65.0	59.8	54.6	32.5	32.5	32.5	32.5	32.5	39.0	45.5
	2Y	58.5	65.0	78.0	91.0	104.0	84.5	53.3	32.5	32.5	32.5	32.5	32.5	32.5	45.5
	3Y	130.0	123.5	117.0	113.1	110.5	78.0	52.0	32.5	32.5	32.5	32.5	32.5	32.5	45.5
	5Y	175.5	156.0	136.5	117.0	97.5	71.5	50.7	46.8	45.5	45.5	45.5	45.5	39.0	45.5
	7Y	169.0	143.0	117.0	104.0	84.5	65.0	49.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5
	10Y	143.0	117.0	97.5	78.0	65.0	52.0	48.1	45.5	45.5	45.5	45.5	45.5	45.5	45.5
	15Y	123.5	104.0	84.5	67.6	52.0	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
	20Y	104.0	84.5	65.0	58.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
30Y	84.5	71.5	58.5	49.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	



## Appendix 12: Global Market Shock - Absolute LogNormal Interest Rates (Severe)

### Absolute LogNormal Interest Rate Shocks (Vol Pts)

		MATURITY													
		1M	3M	6M	9M	1Y	2Y	3Y	5Y	7Y	10Y	15Y	20Y	25Y	30Y
<b>AUD</b>															
EXPIRY	1M	1.9	2.0	2.0	1.3	0.4	(3.2)	(4.4)	(3.7)	(3.5)	(2.0)	(2.8)	(2.3)	(2.6)	(2.3)
	3M	3.4	3.1	1.7	0.5	(0.5)	(4.4)	(5.2)	(4.2)	(4.0)	(2.4)	(3.2)	(2.7)	(2.9)	(2.9)
	6M	2.4	1.6	(0.6)	(2.5)	(3.4)	(5.2)	(5.4)	(4.3)	(4.0)	(2.4)	(3.2)	(2.6)	(2.8)	(3.1)
	9M	(0.2)	(2.3)	(4.1)	(5.5)	(3.1)	(5.2)	(5.1)	(4.3)	(3.9)	(3.6)	(4.2)	(4.1)	(3.7)	(3.5)
	1Y	(2.7)	(1.8)	(2.0)	(2.1)	(2.1)	(3.0)	(2.6)	(4.3)	(3.7)	(3.4)	(4.0)	(4.4)	(4.1)	(3.8)
	2Y	(1.3)	(1.1)	(0.5)	0.2	0.7	0.7	(2.2)	(3.4)	(2.8)	(2.7)	(3.3)	(3.7)	(3.8)	(3.1)
	3Y	8.8	7.8	6.7	5.9	5.2	1.3	(1.1)	(2.4)	(2.1)	(2.1)	(2.7)	(3.0)	(3.2)	(2.4)
	5Y	11.6	9.5	7.5	5.4	3.4	1.0	(0.4)	(0.3)	(0.3)	(0.6)	(1.1)	(1.7)	(1.8)	(1.6)
	7Y	11.6	9.1	6.6	5.3	3.4	2.1	0.2	0.0	(0.3)	(0.5)	(0.8)	(0.9)	(1.2)	(1.5)
	10Y	8.4	6.2	4.5	2.8	1.6	0.4	(0.2)	(0.7)	(0.7)	(0.9)	(0.9)	(1.0)	(1.4)	(1.7)
	15Y	5.0	3.4	1.8	0.4	(0.8)	(1.4)	(1.5)	(1.6)	(1.3)	(1.2)	(1.2)	(1.8)	(2.2)	(2.6)
20Y	3.9	2.3	0.7	0.1	(0.9)	(1.0)	(1.0)	(1.1)	(1.0)	(1.1)	(2.0)	(2.7)	(3.1)	(3.5)	
30Y	(2.5)	(3.6)	(4.7)	(5.4)	(5.8)	(5.7)	(5.6)	(5.5)	(5.4)	(5.4)	(5.6)	(5.7)	(5.9)	(6.0)	
<b>EUR</b>															
EXPIRY	1M	(39.4)	(38.7)	(37.5)	(37.2)	(38.6)	(37.9)	(34.7)	(20.9)	(13.2)	(6.6)	(4.9)	(3.2)	(3.4)	(3.0)
	3M	(33.9)	(34.2)	(32.8)	(34.9)	(34.5)	(33.2)	(32.2)	(19.8)	(13.9)	(7.2)	(5.8)	(3.8)	(3.9)	(3.7)
	6M	(26.2)	(25.4)	(32.0)	(33.4)	(33.0)	(35.0)	(30.9)	(19.2)	(13.8)	(7.7)	(6.3)	(4.4)	(4.6)	(4.8)
	9M	(34.0)	(37.6)	(37.4)	(37.9)	(29.8)	(33.5)	(28.6)	(18.7)	(13.8)	(10.0)	(8.5)	(7.3)	(6.6)	(5.9)
	1Y	(32.6)	(28.8)	(27.0)	(25.4)	(23.5)	(27.1)	(21.6)	(17.9)	(13.6)	(10.0)	(8.6)	(8.5)	(7.7)	(7.0)
	2Y	(26.6)	(26.1)	(24.7)	(23.4)	(22.1)	(14.9)	(15.8)	(15.0)	(11.2)	(9.1)	(8.6)	(8.7)	(9.0)	(7.4)
	3Y	3.8	1.7	(0.6)	(2.3)	(3.6)	(7.2)	(10.3)	(11.2)	(9.2)	(8.1)	(8.0)	(8.4)	(8.8)	(7.1)
	5Y	13.9	10.3	6.5	2.8	(0.7)	(5.8)	(7.2)	(5.8)	(5.4)	(5.9)	(6.3)	(7.5)	(7.9)	(6.8)
	7Y	14.8	10.5	6.1	3.8	0.6	(1.9)	(3.9)	(4.4)	(4.7)	(5.4)	(6.0)	(6.2)	(6.2)	(5.8)
	10Y	8.6	5.0	2.2	(0.5)	(2.4)	(3.4)	(4.3)	(5.2)	(5.4)	(6.1)	(5.7)	(6.2)	(5.4)	(4.9)
	15Y	4.1	1.6	(0.8)	(2.9)	(4.8)	(6.6)	(6.9)	(7.4)	(6.8)	(6.8)	(6.2)	(5.4)	(4.7)	(3.9)
20Y	1.5	(1.0)	(3.5)	(4.3)	(6.0)	(7.1)	(7.2)	(7.5)	(7.2)	(7.0)	(5.2)	(4.0)	(3.1)	(2.6)	
30Y	2.9	1.2	(0.5)	(1.8)	(2.3)	(4.3)	(4.1)	(3.8)	(3.7)	(3.3)	(1.6)	(1.0)	(1.0)	(0.9)	
<b>GBP</b>															
EXPIRY	1M	16.3	13.1	6.1	(4.7)	(12.9)	(24.9)	(26.7)	(21.9)	(15.5)	(8.6)	(6.7)	(4.6)	(4.1)	(3.1)
	3M	15.8	11.1	(2.0)	(13.3)	(17.5)	(27.4)	(27.5)	(20.1)	(14.6)	(8.5)	(6.8)	(4.6)	(4.1)	(3.4)
	6M	(3.5)	(8.6)	(22.3)	(27.3)	(29.7)	(31.5)	(28.5)	(19.4)	(14.2)	(8.5)	(6.9)	(4.9)	(4.4)	(4.1)
	9M	(24.6)	(29.8)	(32.4)	(34.9)	(31.7)	(30.8)	(26.1)	(18.4)	(13.6)	(9.7)	(8.2)	(6.9)	(5.8)	(4.9)
	1Y	(29.6)	(29.0)	(30.3)	(31.4)	(32.0)	(26.8)	(20.6)	(17.1)	(12.8)	(9.4)	(8.2)	(7.6)	(6.6)	(5.7)
	2Y	(21.2)	(21.2)	(20.7)	(20.2)	(19.8)	(13.8)	(13.7)	(12.6)	(9.7)	(7.8)	(7.4)	(7.0)	(6.9)	(5.4)
	3Y	0.6	(1.0)	(2.8)	(4.1)	(5.2)	(7.2)	(9.1)	(9.0)	(7.5)	(6.6)	(6.7)	(6.5)	(6.5)	(5.1)
	5Y	7.3	4.8	2.2	(0.4)	(2.9)	(5.4)	(5.7)	(4.5)	(4.2)	(4.3)	(4.5)	(5.0)	(5.1)	(4.3)
	7Y	10.5	7.5	4.5	2.9	0.7	(1.3)	(2.8)	(3.1)	(3.5)	(3.6)	(3.8)	(3.9)	(3.9)	(3.7)
	10Y	6.2	3.7	1.7	(0.2)	(1.6)	(2.8)	(3.4)	(3.9)	(3.8)	(3.9)	(3.8)	(3.9)	(3.7)	(3.6)
	15Y	2.6	0.8	(0.9)	(2.4)	(3.8)	(4.5)	(4.5)	(4.5)	(4.1)	(3.8)	(3.9)	(3.4)	(3.2)	(3.0)
20Y	0.6	(1.2)	(2.9)	(3.5)	(4.7)	(4.5)	(4.5)	(4.4)	(4.2)	(4.0)	(3.4)	(3.0)	(2.8)	(2.5)	
30Y	2.8	1.5	0.3	(0.5)	(0.9)	(4.3)	(4.1)	(3.8)	(3.6)	(3.2)	(2.8)	(2.4)	(2.4)	(2.3)	
<b>JPY</b>															
EXPIRY	1M	23.3	12.9	7.3	3.8	(2.2)	2.1	(14.2)	(16.1)	(17.3)	(6.4)	(3.8)	(1.0)	(1.1)	(0.9)
	3M	9.1	1.4	2.3	(5.5)	(7.5)	(11.0)	(23.3)	(19.5)	(17.0)	(7.0)	(4.8)	(1.9)	(2.0)	(2.1)
	6M	14.7	13.2	2.4	(0.5)	(0.3)	(8.9)	(22.2)	(20.4)	(16.1)	(7.5)	(5.4)	(2.5)	(2.5)	(3.1)
	9M	(14.0)	(20.1)	(21.4)	(22.9)	(13.1)	(15.3)	(25.5)	(21.9)	(16.1)	(10.4)	(7.8)	(5.6)	(4.6)	(4.2)
	1Y	(32.7)	(28.4)	(27.6)	(26.9)	(25.9)	(15.2)	(22.1)	(22.8)	(15.8)	(10.3)	(8.0)	(6.8)	(5.8)	(5.3)
	2Y	(23.1)	(21.8)	(18.8)	(16.0)	(13.5)	(15.3)	(19.0)	(18.2)	(13.3)	(8.3)	(6.9)	(6.2)	(6.2)	(4.6)
	3Y	13.2	10.2	7.0	4.8	3.0	(5.7)	(12.7)	(13.4)	(9.5)	(6.4)	(6.0)	(5.6)	(5.8)	(4.1)
	5Y	17.1	11.8	6.3	1.0	(4.1)	(7.8)	(9.0)	(5.5)	(4.0)	(2.8)	(3.4)	(3.9)	(4.4)	(3.2)
	7Y	17.4	11.9	6.3	3.2	(0.9)	(2.5)	(3.9)	(3.1)	(2.2)	(1.5)	(2.4)	(2.3)	(2.4)	(1.9)
	10Y	11.5	7.6	4.5	1.5	(0.6)	(2.0)	(1.9)	(1.6)	(1.2)	(1.2)	(2.0)	(2.5)	(2.0)	(1.2)
	15Y	6.1	3.7	1.3	(0.7)	(2.6)	(2.9)	(2.5)	(2.0)	(1.3)	(0.9)	(2.8)	(2.1)	(1.1)	(1.5)
20Y	4.4	2.0	(0.4)	(1.3)	(2.9)	(2.4)	(1.8)	(1.2)	(1.4)	(1.8)	(2.4)	(1.0)	(1.7)	(2.4)	
30Y	2.4	0.7	(1.1)	(2.3)	(2.8)	(2.1)	(1.4)	(0.4)	1.1	2.2	(1.3)	(2.7)	(3.7)	(4.5)	

## Appendix 12: Global Market Shock - Absolute LogNormal Interest Rates (Severe) (Cont.)

### USD

EXPIRY	1M	26.0	13.8	4.0	(10.4)	(20.0)	(36.3)	(29.7)	(19.2)	(12.6)	(6.0)	(4.4)	(2.6)	(2.6)	(2.1)
	3M	21.3	11.1	(12.2)	(26.1)	(32.2)	(31.9)	(28.3)	(18.7)	(12.5)	(6.5)	(5.0)	(3.2)	(3.0)	(2.8)
	6M	(13.1)	(19.8)	(33.3)	(39.9)	(42.4)	(37.3)	(29.7)	(18.4)	(12.6)	(6.7)	(5.1)	(3.5)	(3.0)	(3.2)
	9M	(35.5)	(42.3)	(46.6)	(49.6)	(44.0)	(40.7)	(29.7)	(17.3)	(12.4)	(8.4)	(6.7)	(5.4)	(4.6)	(4.0)
	1Y	(40.9)	(38.9)	(39.7)	(40.3)	(40.4)	(32.2)	(22.9)	(16.1)	(11.3)	(8.2)	(6.7)	(6.3)	(5.3)	(4.7)
	2Y	(24.9)	(24.7)	(23.8)	(22.9)	(22.1)	(13.8)	(12.8)	(11.3)	(8.2)	(6.5)	(5.4)	(5.6)	(5.4)	(4.1)
	3Y	5.0	2.9	0.4	(1.4)	(3.0)	(4.7)	(6.9)	(7.3)	(6.0)	(5.4)	(4.8)	(4.9)	(4.9)	(3.4)
	5Y	13.5	10.4	7.1	3.9	0.9	(2.5)	(3.6)	(3.1)	(2.9)	(3.3)	(3.1)	(3.6)	(3.6)	(2.7)
	7Y	15.0	11.4	7.7	5.8	3.1	0.4	(1.6)	(2.0)	(2.5)	(2.7)	(2.5)	(2.5)	(2.4)	(2.2)
	10Y	9.9	6.8	4.5	2.2	0.6	(1.1)	(1.8)	(2.7)	(2.6)	(2.9)	(2.2)	(2.3)	(1.9)	(1.8)
	15Y	6.3	4.3	2.2	0.5	(1.2)	(2.2)	(2.4)	(2.8)	(2.6)	(2.5)	(2.1)	(1.6)	(1.4)	(1.4)
	20Y	5.3	3.2	1.2	0.5	(0.9)	(1.2)	(1.4)	(1.8)	(1.9)	(2.1)	(1.3)	(1.1)	(1.1)	(1.1)
30Y	4.3	2.8	1.4	0.4	(0.1)	(0.4)	(0.8)	(1.4)	(1.6)	(1.8)	(1.4)	(2.0)	(2.5)	(2.8)	

### Other Advanced Economies

EXPIRY	1M	1.9	2.0	2.0	1.3	0.4	(3.2)	(4.4)	(3.7)	(3.5)	(2.0)	(2.8)	(2.3)	(2.6)	(2.3)
	3M	3.4	3.1	1.7	0.5	(0.5)	(4.4)	(5.2)	(4.2)	(4.0)	(2.4)	(3.2)	(2.7)	(2.9)	(2.9)
	6M	2.4	1.6	(0.6)	(2.5)	(3.4)	(5.2)	(5.4)	(4.3)	(4.0)	(2.4)	(3.2)	(2.6)	(2.8)	(3.1)
	9M	(0.2)	(2.3)	(4.1)	(5.5)	(3.1)	(5.2)	(5.1)	(4.3)	(3.9)	(3.6)	(4.2)	(4.1)	(3.7)	(3.5)
	1Y	(2.7)	(1.8)	(2.0)	(2.1)	(2.1)	(3.0)	(2.6)	(4.3)	(3.7)	(3.4)	(4.0)	(4.4)	(4.1)	(3.8)
	2Y	(1.3)	(1.1)	(0.5)	0.2	0.7	0.7	(2.2)	(3.4)	(2.8)	(2.7)	(3.3)	(3.7)	(3.8)	(3.1)
	3Y	8.8	7.8	6.7	5.9	5.2	1.3	(1.1)	(2.4)	(2.1)	(2.1)	(2.7)	(3.0)	(3.2)	(2.4)
	5Y	11.6	9.5	7.5	5.4	3.4	1.0	(0.4)	(0.3)	(0.3)	(0.6)	(1.1)	(1.7)	(1.8)	(1.6)
	7Y	11.6	9.1	6.6	5.3	3.4	2.1	0.2	0.0	(0.3)	(0.5)	(0.8)	(0.9)	(1.2)	(1.5)
	10Y	8.4	6.2	4.5	2.8	1.6	0.4	(0.2)	(0.7)	(0.7)	(0.9)	(0.9)	(1.0)	(1.4)	(1.7)
	15Y	5.0	3.4	1.8	0.4	(0.8)	(1.4)	(1.5)	(1.6)	(1.3)	(1.2)	(1.2)	(1.8)	(2.2)	(2.6)
	20Y	3.9	2.3	0.7	0.1	(0.9)	(1.0)	(1.0)	(1.1)	(1.0)	(1.1)	(2.0)	(2.7)	(3.1)	(3.5)
30Y	(2.5)	(3.6)	(4.7)	(5.4)	(5.8)	(5.7)	(5.6)	(5.5)	(5.4)	(5.4)	(5.6)	(5.7)	(5.9)	(6.0)	

### Total Emerging Europe

EXPIRY	1M	(17.1)	(16.9)	(16.0)	(15.1)	(14.3)	(11.6)	(10.0)	(8.2)	(8.5)	(5.4)	(6.4)	(5.3)	(5.8)	(5.4)
	3M	(15.0)	(15.3)	(14.8)	(13.0)	(11.8)	(10.4)	(9.9)	(8.2)	(8.4)	(5.4)	(6.5)	(5.3)	(5.8)	(5.8)
	6M	(13.2)	(13.1)	(12.2)	(13.0)	(11.9)	(10.0)	(9.8)	(8.3)	(8.4)	(5.5)	(6.5)	(5.3)	(5.9)	(6.4)
	9M	(8.6)	(11.3)	(13.1)	(13.8)	(4.0)	(8.3)	(8.8)	(8.4)	(8.4)	(8.0)	(8.7)	(8.4)	(7.8)	(7.4)
	1Y	(8.9)	(4.2)	(1.2)	1.6	4.8	(2.4)	(3.3)	(8.5)	(8.4)	(8.1)	(8.7)	(9.4)	(8.8)	(8.3)
	2Y	(2.7)	(1.7)	0.3	2.1	3.9	2.0	(4.2)	(8.7)	(8.1)	(8.1)	(8.8)	(9.4)	(9.8)	(8.3)
	3Y	17.0	15.0	12.8	11.2	10.0	2.3	(3.9)	(7.8)	(7.4)	(7.9)	(8.7)	(9.2)	(9.7)	(8.2)
	5Y	18.9	14.9	10.8	6.8	2.9	(2.0)	(4.8)	(4.9)	(5.6)	(6.3)	(7.1)	(8.5)	(8.9)	(8.3)
	7Y	18.4	13.5	8.6	6.1	2.5	(0.7)	(3.5)	(5.2)	(5.8)	(6.4)	(7.2)	(7.7)	(8.1)	(8.4)
	10Y	8.7	4.7	1.6	(1.4)	(3.5)	(5.4)	(6.0)	(6.8)	(7.0)	(7.5)	(7.9)	(8.3)	(8.6)	(8.9)
	15Y	3.2	0.5	(2.3)	(4.7)	(6.8)	(7.7)	(7.9)	(8.2)	(8.2)	(8.4)	(8.8)	(9.1)	(9.4)	(9.7)
	20Y	0.0	(2.7)	(5.5)	(6.4)	(8.2)	(8.2)	(8.3)	(8.5)	(8.7)	(9.1)	(9.5)	(9.8)	(10.1)	(10.3)
30Y	(4.4)	(6.3)	(8.3)	(9.6)	(10.2)	(10.1)	(10.2)	(10.3)	(10.4)	(10.6)	(10.8)	(11.0)	(11.1)	(11.3)	

### Total Latam & Caribbean

EXPIRY	1M	(2.1)	(1.5)	(0.9)	(0.6)	(0.5)	(0.1)	(1.4)	(0.5)	(2.5)	0.5	0.0	1.6	2.2	2.9
	3M	0.2	0.4	0.3	0.6	1.3	1.2	(0.7)	0.8	(0.9)	1.0	1.0	2.3	2.8	3.0
	6M	0.1	0.1	(0.2)	(0.5)	0.1	1.2	(1.3)	1.0	(0.9)	1.2	1.1	2.5	2.9	2.8
	9M	1.1	(0.4)	(0.6)	(0.8)	4.2	2.2	(0.9)	1.0	(0.9)	0.1	(0.3)	0.5	1.6	2.1
	1Y	2.2	4.8	6.4	8.0	9.9	6.4	2.7	1.4	(0.6)	1.0	(0.2)	0.0	1.0	1.6
	2Y	6.7	7.4	8.9	10.3	11.7	6.5	2.0	(1.2)	(0.5)	1.4	0.0	0.4	0.7	1.9
	3Y	16.8	15.3	13.7	12.5	11.5	6.1	2.6	0.0	(0.1)	0.6	0.5	1.0	1.3	2.3
	5Y	19.5	16.8	14.0	11.3	8.6	4.3	2.6	1.8	2.6	3.0	2.0	2.6	2.7	2.9
	7Y	19.0	15.8	12.6	10.9	8.5	5.6	3.4	3.6	3.2	3.6	3.2	3.9	3.7	3.1
	10Y	16.3	13.5	11.4	9.2	7.7	5.8	4.9	3.6	4.1	3.7	4.6	4.7	3.8	3.0
	15Y	14.6	12.7	10.7	9.0	7.4	6.0	5.3	4.2	5.6	6.1	5.6	3.6	2.0	0.7
	20Y	18.5	16.5	14.4	13.7	12.4	10.8	9.5	8.4	7.5	6.5	1.7	(1.2)	(3.2)	(4.7)
30Y	(7.9)	(9.3)	(10.7)	(11.6)	(12.1)	(9.6)	(7.5)	(7.2)	(7.5)	(9.1)	(16.9)	(17.3)	(17.6)	(17.8)	

## Appendix 12: Global Market Shock – Absolute LogNormal Interest Rates (Severe) (Cont.)

### Total Asia Ex-Japan

EXPIRY	1M	1.9	2.2	2.7	2.3	1.7	0.7	(0.2)	(1.4)	(1.7)	(0.2)	(1.2)	(0.3)	(1.0)	(0.9)
	3M	3.9	3.8	2.8	2.4	2.4	1.1	(0.5)	(1.6)	(1.8)	(0.4)	(1.3)	(0.3)	(1.1)	(1.3)
	6M	2.8	2.4	1.0	0.0	0.1	(0.8)	(1.3)	(1.6)	(1.9)	(0.4)	(1.3)	(0.3)	(1.0)	(1.7)
	9M	1.1	(0.8)	(1.5)	(2.1)	1.9	(0.2)	(1.0)	(1.7)	(1.9)	(2.2)	(2.9)	(2.6)	(2.5)	(2.3)
	1Y	0.2	2.1	2.9	3.6	4.4	3.1	2.3	(1.7)	(1.8)	(2.1)	(2.7)	(3.3)	(3.1)	(2.8)
	2Y	3.4	4.1	5.7	7.2	8.6	6.7	2.0	(1.6)	(1.4)	(1.6)	(2.3)	(2.8)	(3.4)	(2.2)
	3Y	15.5	14.3	13.1	12.3	11.7	6.3	1.9	(1.2)	(1.1)	(1.6)	(2.2)	(2.8)	(3.4)	(2.2)
	5Y	19.3	16.3	13.4	10.5	7.6	3.7	1.2	0.7	0.2	(0.4)	(0.9)	(2.4)	(2.9)	(2.4)
	7Y	19.0	15.2	11.4	9.5	6.7	3.9	1.5	0.2	(0.3)	(0.7)	(1.4)	(2.0)	(2.5)	(2.7)
	10Y	12.6	9.1	6.5	3.9	2.2	0.4	(0.4)	(1.3)	(1.3)	(1.6)	(2.3)	(2.8)	(3.0)	(3.2)
	15Y	8.0	5.8	3.5	1.5	(0.3)	(1.1)	(1.3)	(1.7)	(2.2)	(2.8)	(3.4)	(3.6)	(3.7)	(3.9)
	20Y	3.4	1.1	(1.3)	(2.1)	(3.6)	(3.6)	(3.8)	(4.2)	(4.4)	(4.6)	(4.6)	(4.6)	(4.7)	(4.8)
30Y	0.7	(0.9)	(2.6)	(3.7)	(4.2)	(4.1)	(4.2)	(4.6)	(4.6)	(4.7)	(4.8)	(5.0)	(5.1)	(5.2)	

### Total ME/N. Africa

EXPIRY	1M	(14.0)	(13.5)	(12.7)	(12.2)	(11.9)	(9.0)	(7.8)	(6.4)	(6.4)	(3.9)	(4.9)	(4.2)	(5.2)	(5.3)
	3M	(11.3)	(11.3)	(11.3)	(10.4)	(9.4)	(8.0)	(7.8)	(6.3)	(6.3)	(4.0)	(4.9)	(4.2)	(5.2)	(5.6)
	6M	(9.4)	(9.4)	(9.3)	(9.8)	(8.9)	(7.7)	(7.7)	(6.3)	(6.2)	(4.0)	(5.0)	(4.2)	(5.2)	(6.1)
	9M	(6.5)	(8.8)	(9.6)	(10.1)	(2.3)	(6.3)	(6.8)	(6.3)	(6.1)	(5.9)	(6.6)	(6.6)	(6.8)	(6.8)
	1Y	(5.6)	(1.8)	0.6	2.9	5.4	(1.2)	(2.3)	(6.3)	(6.0)	(5.8)	(6.6)	(7.4)	(7.6)	(7.6)
	2Y	(1.1)	(0.5)	0.9	2.3	3.6	1.7	(3.2)	(6.4)	(5.8)	(5.8)	(6.6)	(7.4)	(8.4)	(7.5)
	3Y	14.0	12.2	10.3	9.0	7.9	1.9	(2.6)	(5.3)	(5.1)	(5.5)	(6.4)	(7.4)	(8.3)	(7.5)
	5Y	15.9	12.8	9.5	6.4	3.3	(0.7)	(2.7)	(2.9)	(3.3)	(4.2)	(5.0)	(6.9)	(7.9)	(7.6)
	7Y	15.4	11.7	8.0	6.0	3.2	0.4	(1.8)	(2.9)	(3.7)	(4.4)	(5.6)	(6.8)	(7.6)	(8.1)
	10Y	8.7	5.5	3.0	0.5	(1.1)	(3.0)	(3.9)	(4.9)	(5.1)	(5.7)	(7.1)	(8.2)	(8.7)	(9.1)
	15Y	3.4	1.1	(1.1)	(3.0)	(4.8)	(5.8)	(6.0)	(6.5)	(7.5)	(8.5)	(9.8)	(10.2)	(10.5)	(10.8)
	20Y	(3.7)	(5.9)	(8.2)	(9.0)	(10.5)	(10.7)	(10.8)	(11.1)	(11.4)	(11.8)	(11.8)	(12.0)	(12.1)	(12.3)
30Y	(6.6)	(8.2)	(9.8)	(10.9)	(11.3)	(11.4)	(11.5)	(11.6)	(11.7)	(11.9)	(12.1)	(12.3)	(12.5)	(12.7)	

### Total Sub-Saharan Africa

EXPIRY	1M	(4.9)	(5.2)	(5.7)	(5.4)	(4.8)	(3.7)	(3.7)	(3.3)	(3.7)	(2.4)	(3.2)	(2.8)	(3.1)	(2.9)
	3M	(4.9)	(5.6)	(5.5)	(3.9)	(3.7)	(3.4)	(3.7)	(3.3)	(3.7)	(2.4)	(3.2)	(2.8)	(3.1)	(3.1)
	6M	(4.2)	(4.4)	(2.3)	(3.1)	(3.1)	(3.2)	(3.5)	(3.3)	(3.6)	(2.3)	(3.2)	(2.7)	(3.0)	(3.4)
	9M	1.0	0.7	(1.9)	(2.9)	(0.1)	(2.6)	(3.0)	(3.2)	(3.5)	(3.5)	(4.2)	(4.3)	(4.0)	(3.8)
	1Y	(1.6)	(0.2)	0.6	1.4	2.3	(0.7)	(1.0)	(3.4)	(3.6)	(3.5)	(4.2)	(4.8)	(4.5)	(4.3)
	2Y	(0.6)	(0.3)	0.4	1.1	1.8	1.3	(1.7)	(3.8)	(3.5)	(3.5)	(4.2)	(4.6)	(4.9)	(4.2)
	3Y	8.3	7.5	6.5	5.8	5.3	1.5	(1.2)	(3.2)	(3.1)	(3.3)	(4.0)	(4.5)	(4.7)	(4.0)
	5Y	10.4	8.5	6.5	4.6	2.6	(0.4)	(1.6)	(1.7)	(1.9)	(2.5)	(3.1)	(3.9)	(4.2)	(4.1)
	7Y	10.4	8.0	5.6	4.4	2.6	0.7	(0.7)	(1.4)	(1.9)	(2.5)	(3.1)	(3.4)	(3.8)	(4.3)
	10Y	7.1	4.9	3.2	1.6	0.4	(1.1)	(1.7)	(2.7)	(2.9)	(3.5)	(3.8)	(3.9)	(4.6)	(5.2)
	15Y	3.2	1.6	0.1	(1.3)	(2.5)	(3.4)	(3.8)	(4.5)	(4.4)	(4.7)	(4.8)	(5.9)	(6.8)	(7.5)
	20Y	0.8	(0.7)	(2.3)	(2.8)	(3.8)	(4.2)	(4.5)	(5.1)	(4.8)	(5.0)	(7.0)	(8.3)	(9.2)	(9.9)
30Y	(10.6)	(11.7)	(12.7)	(13.5)	(13.8)	(13.9)	(13.9)	(14.1)	(14.2)	(14.4)	(14.7)	(14.9)	(15.1)	(15.2)	

## Appendix 12: Global Market Shock - Other Rates

### Other Rates

#### Absolute Change in Inflation (bps)

Currency	MATURITY												
	1M	3M	6M	9M	1Y	2Y	3Y	5Y	7Y	10Y	15Y	20Y	30Y
AUD	40.0	60.0	80.0	95.0	105.0	110.0	120.0	130.0	145.0	160.0	145.0	130.0	120.0
EUR	45.0	70.0	90.0	110.0	120.0	125.0	135.0	145.0	160.0	180.0	160.0	145.0	135.0
GBP	45.0	65.0	90.0	105.0	115.0	125.0	135.0	145.0	160.0	180.0	145.0	145.0	135.0
JPY	20.0	30.0	40.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	75.0	70.0	60.0
USD	50.0	75.0	100.0	120.0	130.0	140.0	150.0	160.0	180.0	200.0	180.0	160.0	150.0
Other	45.0	70.0	90.0	110.0	120.0	125.0	135.0	145.0	160.0	180.0	160.0	145.0	135.0

#### Absolute Change in Cross-Currency vs. USD Basis (bps)

(move in bps of curve relative to base curve)

Currency	MATURITY												
	1M	3M	6M	9M	1Y	2Y	3Y	5Y	7Y	10Y	15Y	20Y	30Y
AUD	(50.0)	(45.0)	(40.0)	(35.0)	(30.0)	(20.0)	(15.0)	(10.0)	(5.0)	0.0	0.0	0.0	0.0
EUR	(125.0)	(120.0)	(110.0)	(105.0)	(100.0)	(80.0)	(60.0)	(40.0)	(25.0)	(15.0)	(10.0)	(5.0)	(5.0)
GBP	(70.0)	(65.0)	(60.0)	(55.0)	(50.0)	(40.0)	(30.0)	(25.0)	(20.0)	(15.0)	(10.0)	(5.0)	(5.0)
JPY	(60.0)	(55.0)	(50.0)	(45.0)	(40.0)	(30.0)	(25.0)	(20.0)	(15.0)	(10.0)	(5.0)	(5.0)	(5.0)
Other	(70.0)	(65.0)	(60.0)	(55.0)	(50.0)	(40.0)	(30.0)	(25.0)	(20.0)	(15.0)	(10.0)	(5.0)	(5.0)