a

Climate. 48 42 36 30 24 18 12 6 0 | Clim. & Mismngt | 0 6 12 | Clim. & Geo/Econ. 0

Geo/Econ. 6 12 18 24

L America & Caribbean

Europe & C. Asia

Middle East & N. Africa

Mismngt. 0
Pol.Chng. 0
Other
Unknown

Oceania 0 6 12

E. Asia 0 6 12

Sub-Sah. Africa 24 18 12 6 0 | S. Asia 0 12

b

Geo/Econ. 1.4 0.7 2.1 2.8 3.5 4.2 4.9 5.6 | Pol.Chng. 0.7 0

Clim. & Geo/Econ. 1.4 0.7

Clim. & Mismngt

Climate. 3.5 2.8

L America & Caribbean 2.1 1.4 0.7 0

Other 0.7 1.4 2.1 2.8

Unknown 0.7
Oceania
E. Asia
S. Asia 0.7

Sub-Sah. Africa 0.7

Middle East & N. Africa 0.7 1.4 0.7

Europe & C. Asia 0 0.7 1.4 2.1 2.8 3.5 4.2 4.9

c

Geo/Econ. 2.5 2 1.5 1 0.5 3 3.5 4 4.5 5 5.5 | Mismngt & Geo/Econ.

Mismngt. 1

Mismngt & Pol.Chng. 1

Clim. & Geo/Econ. Clim. & Mismngt Climate.

Pol.Chng. 0.5

Other
Unknown
Oceania

N. America

L America & Caribbean 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

E. Asia

S. Asia

Sub-Sah. Africa 0.5

Middle East & N. Africa 0.5 1

Europe & C. Asia

d

Geo/Econ. 0.03 0.06 0.09 0.12 0.15 0.18 0.21 0.24 0.27 | Mismngt & Geo/Econ. Mismngt. Mismngt & Pol.Chng.

Other 0.03 0.06 0.09 0.12 0.15 0.18

Climate..

L America & Caribbean 0.06 0.03

Unknown
Oceania 0.03

E. Asia 0.06 0.09 0.12 0.15 0.18 0.21 0.24 0.27

Europe & C. Asia 0.03 0.06 0.09 0.12 0.15 | Middle East & N. Africa 0 | Sub-Sah. Africa 0 | S. Asia 0.03 0.06 0.09 0.12 0.15 0.18 0.21 0.24 0.27

Recovery time (years)

1–7   8–15   >15

Climate/weather events
Climate/weather events & mismanagement
Climate/weather & geopolitical/economic events
Geopolitical/economic events
Mismanagement & geopolitical/economic events
Mismanagement
Mismanagement & policy change
Policy change
Other
Unknown

Chord scale = Shock size (T x 10^7)