

Online Appendix

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Quality of Government and the Relationship between Natural Disasters and Child Poverty: A Comparative Analysis. MPIfG Discussion Paper 15/5.

1 Information deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|----------------|------------------|-------------------|-----------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.09 (0.06) | 0.11** (0.03) | 0.20*** (0.03) | 0.12* (0.05) | 0.18*** (0.03) | 0.45 (0.43) | 0.43 (0.41) | 0.72 (0.40) | 0.55 (0.40) | 0.64 (0.40) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) |
| nrchildren | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.16 (0.10) | | | | | 0.15 (0.10) | | | | |
| DisVic_climo | | 0.37* (0.15) | | | | 0.30* (0.14) | | | | |
| DisVic_geo | | | -0.23 (0.16) | | | | | -0.10 (0.15) | | |
| DisVic_hydro | | | | 0.14 (0.10) | | | | | 0.17 (0.10) | |
| DisVic_meteo | | | | | 0.03 (0.10) | | | | | 0.10 (0.09) |
| Year | | | | | | | | | | -0.01 (0.01) |
| Democracy | | | | | | | | | | 0.01 (0.01) |
| GDP | | | | | | | | | | -0.00 (0.01) |
| QoG | | | | | | | | | | -0.11 (0.07) |
| Country variance | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Num. obs. | 1409609 | 1409609 | 1409609 | 1409609 | 1409609 | 1409512 | 1409512 | 1409512 | 1409512 | 1409512 |
| DIC | 1134514 | 1134514 | 1134514 | 1134514 | 1134514 | 1077955 | 1077955 | 1077955 | 1077955 | 1077955 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is information deprivation

Table 1: Disaster victims and information deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.17*** (0.03) | 0.15*** (0.03) | 0.19*** (0.03) | 0.16*** (0.03) | 0.17*** (0.02) | 0.70* (0.40) | 0.58 (0.41) | 0.77* (0.40) | 0.71* (0.41) | 0.71* (0.40) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) |
| nrchildren | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 3.50 (3.05) | | | | | 0.94 (2.75) | | | | |
| DisFre_climo | | 62.66* (28.07) | | | | | 34.01 (25.87) | | | |
| DisFre_geo | | | -30.69 (47.82) | | | | | -46.05 (41.52) | | |
| DisFre_hydro | | | | | | | | | 0.73 (5.28) | |
| DisFre_meteo | | | | | 5.89 (7.15) | | | | | 3.05 (6.33) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01* (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | -0.00 (0.01) | -0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | -0.00 (0.01) |
| GDP | | | | | | -0.11* (0.07) | -0.10 (0.07) | -0.13* (0.07) | -0.12* (0.07) | -0.12* (0.07) |
| QoG | | | | | | -0.11* (0.06) | -0.11* (0.06) | -0.12* (0.06) | -0.11* (0.06) | -0.11* (0.06) |
| Country variance | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Num. obs. | 1409609 | 1409609 | 1409609 | 1409609 | 1409609 | 1409512 | 1409512 | 1409512 | 1409512 | 1409512 |
| DIC | 1134514 | 1134514 | 1134514 | 1134514 | 1134514 | 1077955 | 1077955 | 1077955 | 1077955 | 1077955 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is information deprivation

Table 2: Disaster frequencies and information deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|-----------------|-------------------|-----------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | -0.01 (0.09) | 0.03 (0.06) | 0.07 (0.05) | 0.04 (0.08) | 0.05 (0.05) | 0.46 (0.44) | 0.47 (0.42) | 0.54 (0.41) | 0.65 (0.42) | 0.79* (0.40) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) |
| nrchildren | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.11 (0.16) | | | | | 0.15 (0.16) | | | | |
| QoG | -0.10 (0.12) | -0.11 (0.07) | -0.19** (0.06) | -0.06 (0.11) | -0.16** (0.06) | -0.12 (0.12) | -0.08 (0.08) | -0.08 (0.11) | -0.13 (0.07) | -0.16* (0.07) |
| DisVic:QoG | -0.15 (0.21) | | | | | -0.00 (0.21) | | | | |
| DisVic.climo | | 0.09 (0.30) | | | | 0.04 (0.29) | | | | |
| DisVic.climo:QoG | | -0.46 (0.39) | | | | -0.39 (0.38) | | | | |
| DisVic.geo | | | 0.10 (0.28) | | | | | | | 0.28 (0.26) |
| DisVic.geo:QoG | | | 0.55 (0.56) | | | | | | | 0.88 (0.53) |
| DisVic.hydro | | | | 0.04 (0.15) | | | | 0.13 (0.15) | | |
| DisVic.hydro:QoG | | | | -0.27 (0.22) | | | | -0.09 (0.22) | | |
| DisVic.meteo | | | | | 0.07 (0.15) | | | | 0.11 (0.14) | |
| DisVic.meteo:QoG | | | | | -0.09 (0.24) | | | | 0.02 (0.23) | |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | -0.00 (0.01) | -0.00 (0.01) | -0.00 (0.01) | -0.00 (0.01) | 0.00 (0.01) |
| GDP | | | | | | -0.08 (0.07) | -0.08 (0.07) | -0.09 (0.07) | -0.11 (0.07) | -0.13* (0.07) |
| Country variance | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Num. obs. | 1409609 | 1409609 | 1409609 | 1409609 | 1409609 | 1409512 | 1409512 | 1409512 | 1409512 | 1409512 |
| DIC | 1134514 | 1134514 | 1134514 | 1134514 | 1134514 | 1077955 | 1077955 | 1077955 | 1077955 | 1077955 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^c*dot* $p < 0.1$. Dependent variable is information deprivation

Table 3: Disaster victims and information deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.06 (0.05) | 0.07 (0.05) | 0.08* (0.04) | 0.06 (0.05) | 0.07 (0.04) | 0.70* (0.42) | 0.61 (0.42) | 0.80* (0.41) | 0.71* (0.42) | 0.71* (0.41) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) | 0.15*** (0.00) |
| nrchildren | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 3.09 (7.29) | | | | | 1.95 (6.78) | | | | |
| QoG | -0.16** (0.06) | -0.14* (0.06) | -0.16** (0.06) | -0.16** (0.06) | -0.16** (0.05) | -0.12* (0.07) | -0.10 (0.07) | -0.13* (0.07) | -0.12* (0.07) | -0.12* (0.07) |
| DisFre:QoG | 0.52 (6.69) | | | | | 0.98 (6.21) | | | | |
| DisFre_climo | | 24.46 (74.13) | | | | | -2.48 (70.98) | | | |
| DisFre_climo:QoG | | -32.74 (75.61) | | | | | -40.04 (72.05) | | | |
| DisFre_geo | | | -25.68 (97.32) | | | | 4.68 (89.11) | | | |
| DisFre_geo:QoG | | | -6.00 (148.76) | | | | 87.72 (138.17) | | | |
| DisFre_hydro | | | | 6.27 (15.98) | | | | 1.55 (14.89) | | |
| DisFre_hydro:QoG | | | | 1.65 (13.97) | | | | 0.71 (12.96) | | |
| DisFre_meteo | | | | | 6.91 (15.04) | | | | | 8.06 (13.98) |
| DisFre_meteo:QoG | | | | | 2.41 (14.55) | | | | | 5.34 (13.47) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | -0.00 (0.01) | -0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | -0.00 (0.01) |
| GDP | | | | | | -0.12* (0.07) | -0.10 (0.07) | -0.13* (0.07) | -0.12* (0.07) | -0.12* (0.07) |
| Country variance | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Num. obs. | 1409609 | 1409609 | 1409609 | 1409609 | 1409609 | 1409512 | 1409512 | 1409512 | 1409512 | 1409512 |
| DIC | 1134514 | 1134514 | 1134514 | 1134514 | 1134514 | 1077955 | 1077955 | 1077955 | 1077955 | 1077955 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{dot} $p < 0.1$. Dependent variable is information deprivation

Table 4: Disaster frequencies and information deprivation - interactive models

2 Food deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| cons | 0.09** (0.03) | 0.10*** (0.02) | 0.14*** (0.01) | 0.11*** (0.03) | 0.13*** (0.01) | 0.50* (0.20) | 0.44* (0.19) | 0.55** (0.18) | 0.54** (0.19) | 0.56*** (0.19) |
| Child variables | | | | | | | | | | |
| age | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Male | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| rural | | | | | | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.07 (0.05) | | | | | 0.04 (0.05) | | | | |
| DisVic_climo | | 0.15 (0.08) | | | | 0.13* (0.07) | | | | |
| DisVic_geo | | | -0.17 (0.09) | | | | | -0.14 (0.07) | | |
| DisVic_hydro | | | | | | | | | 0.02 (0.05) | |
| DisVic_meteo | | | | | -0.07 (0.07) | | | | | -0.04 (0.06) |
| Year | | | | | | | | | 0.00 (0.00) | 0.00 (0.00) |
| Democracy | | | | | | | | | 0.00 (0.00) | 0.00 (0.00) |
| GDP | | | | | | | | | | |
| QoG | | | | | | | | | | |
| Country variance | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Child variance | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Num. obs. | 409667 | 409667 | 409667 | 409667 | 409667 | 409624 | 409624 | 409624 | 409624 | 409624 |
| DIC | 269779 | 269779 | 269779 | 269779 | 269779 | 267022 | 267022 | 267022 | 267022 | 267022 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is food deprivation

Table 5: Disaster victims and food deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| cons | 0.13*** (0.01) | 0.12*** (0.01) | 0.13*** (0.01) | 0.13*** (0.01) | 0.13*** (0.01) | 0.56*** (0.19) | 0.52** (0.19) | 0.57** (0.19) | 0.57** (0.19) | 0.55** (0.19) |
| Child variables | | | | | | | | | | |
| age | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Male | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| rural | | | | | | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 0.07 (1.77) | | | | | -1.04 (1.49) | | | | |
| DisFre_climo | | 15.96 (13.13) | | | | | 17.45 (11.07) | | | |
| DisFre_geo | | | -14.21 (24.13) | | | | | -17.62 (19.92) | | |
| DisFre_hydro | | | | | | | | | -2.35 (2.73) | |
| DisFre_meteo | | | | | | | | | | -3.61 (3.67) |
| Year | | | | | | | | | | 0.00 (0.00) |
| Democracy | | | | | | | | | | 0.00 (0.00) |
| GDP | | | | | | | | | | 0.00 (0.00) |
| QoG | | | | | | | | | | 0.00 (0.00) |
| Country variance | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Child variance | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Num. obs. | 409667 | 409667 | 409667 | 409667 | 409667 | 409624 | 409624 | 409624 | 409624 | 409624 |
| DIC | 269779 | 269779 | 269779 | 269779 | 269779 | 267022 | 267022 | 267022 | 267022 | 267022 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} , $p < 0.1$. Dependent variable is food deprivation

Table 6: Disaster frequencies and food deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|------------------------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| cons | 0.07 (0.05) | 0.06 [*] (0.03) | 0.08 ^{***} (0.02) | 0.10 ^{**} (0.04) | 0.07 ^{**} (0.02) | 0.48 [*] (0.21) | 0.44 [*] (0.20) | 0.50 [*] (0.20) | 0.59 ^{**} (0.19) | 0.63 ^{***} (0.18) |
| Child variables | | | | | | | | | | |
| age | | | | | | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) |
| Male | | | | | | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) | 0.01 ^{***} (0.00) |
| rural | | | | | | 0.05 ^{***} (0.00) | 0.05 ^{***} (0.00) | 0.05 ^{***} (0.00) | 0.05 ^{***} (0.00) | 0.05 ^{***} (0.00) |
| nrchildren | | | | | | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.01 (0.08) | | | | | -0.01 (0.08) | | | | |
| QoG | -0.01 (0.06) | -0.06 [*] (0.03) | -0.10 ^{***} (0.03) | 0.01 (0.05) | -0.09 ^{**} (0.03) | -0.01 (0.06) | -0.03 (0.04) | 0.01 (0.05) | -0.08 [*] (0.03) | -0.08 ^{**} (0.03) |
| DisVic:QoG | -0.13 (0.10) | | | | | -0.08 (0.10) | | | | |
| DisVic_climo | | 0.09 (0.13) | | | | | 0.04 (0.12) | | | |
| DisVic_climo:QoG | | -0.16 (0.17) | | | | | -0.15 (0.15) | | | |
| DisVic_geo | | | 0.11 (0.16) | | | | | | | 0.19 (0.14) |
| DisVic_geo:QoG | | | 0.56 [*] (0.31) | | | | | | | 0.74 ^{**} (0.28) |
| DisVic_hydro | | | | | | | | | | |
| DisVic_hydro:QoG | | | | -0.04 (0.07) | | | | -0.04 (0.07) | | |
| DisVic_meteo | | | | | | | | | | |
| DisVic_meteo:QoG | | | | | 0.04 (0.10) | | | | 0.06 (0.08) | |
| Year | | | | | | | | | | |
| Democracy | | | | | | | | | | |
| GDP | | | | | | | | | | |
| Country variance | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 |
| Child variance | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Num. obs. | 409667 | 409667 | 409667 | 409667 | 409667 | 409624 | 409624 | 409624 | 409624 | 409624 |
| DIC | 269779 | 269779 | 269779 | 269779 | 269779 | 267022 | 267022 | 267022 | 267022 | 267022 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{*dot*} $p < 0.1$. Dependent variable is food deprivation

Table 7: Disaster victims and food deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|--------------------|----------------------|--------------------|--------------------|--------------------|-------------------|----------------------|---------------------|-------------------|-------------------|
| cons | 0.06** (0.02) | 0.05* (0.02) | 0.07*** (0.02) | 0.06** (0.02) | 0.07*** (0.02) | 0.54** (0.19) | 0.43* (0.18) | 0.63*** (0.18) | 0.54** (0.19) | 0.57** (0.19) |
| Child variables | | | | | | | | | | |
| age | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Male | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| rural | | | | | | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) | 0.05*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 8.13 (4.64) | | | | | 7.54 (4.03) | | | | |
| QoG | -0.09*** (0.02) | -0.11*** (0.02) | -0.10*** (0.02) | -0.09*** (0.02) | -0.09*** (0.02) | -0.07* (0.03) | -0.09*** (0.03) | -0.07* (0.03) | -0.07* (0.03) | -0.06 (0.03) |
| DisFre:QoG | 8.12* (4.05) | | | | | 7.96* (3.51) | | | | |
| DisFre_climo | | 104.66*** (31.59) | | | | | 101.98*** (27.59) | | | |
| DisFre_climo:QoG | | 135.95** (45.50) | | | | | 129.71** (39.46) | | | |
| DisFre_geo | | | 98.70 (63.15) | | | | | 123.63* (53.83) | | |
| DisFre_geo:QoG | | | 184.80 (96.93) | | | | | 234.34** (84.07) | | |
| DisFre_hydro | | | | 15.06 (8.99) | | | | | 12.28 (7.84) | |
| DisFre_hydro:QoG | | | | 14.82 (7.79) | | | | | 13.43* (6.79) | |
| DisFre_meteo | | | | | 12.38 (12.33) | | | | | 14.14 (10.78) |
| DisFre_meteo:QoG | | | | | 13.80 (10.37) | | | | | 15.65 (9.00) |
| Year | | | | | | 0.00 (0.00) | 0.00 (0.00) | -0.00 (0.00) | -0.00 (0.00) | 0.00 (0.00) |
| Democracy | | | | | | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) |
| GDP | | | | | | -0.09** (0.03) | -0.08** (0.03) | -0.11*** (0.03) | -0.09** (0.03) | -0.09** (0.03) |
| Country variance | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 |
| Child variance | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Num. obs. | 409667 | 409667 | 409667 | 409667 | 409667 | 409624 | 409624 | 409624 | 409624 | 409624 |
| DIC | 269779 | 269779 | 269779 | 269779 | 269779 | 267022 | 267022 | 267022 | 267022 | 267022 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is food deprivation

Table 8: Disaster frequencies and food deprivation - interactive models

3 Health deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.16** (0.05) | 0.19*** (0.03) | 0.22*** (0.02) | 0.18*** (0.04) | 0.22*** (0.02) | 0.54 (0.32) | 0.61* (0.31) | 0.71* (0.30) | 0.62* (0.30) | 0.72* (0.30) |
| Child variables | | | | | | | | | | |
| age | | | | | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) |
| Male | | | | | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) |
| rural | | | | | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) |
| nrchildren | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.09 (0.08) | | | | | 0.10 (0.08) | | | | |
| DisVic_climo | | 0.15 (0.12) | | | | | 0.10 (0.11) | | | |
| DisVic_geo | | | -0.13 (0.13) | | | | | -0.04 (0.12) | | |
| DisVic_hydro | | | | | | | | | 0.09 (0.07) | |
| DisVic_meteo | | | | | | | | | | -0.02 (0.07) |
| Year | | | | | | | | | | -0.01 (0.00) |
| Democracy | | | | | | | | | | -0.01 (0.00) |
| GDP | | | | | | | | | | 0.00 (0.00) |
| QoG | | | | | | | | | | 0.00 (0.00) |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 528065 | 528065 | 528065 | 528065 | 528065 | 528021 | 528021 | 528021 | 528021 | 528021 |
| DIC | 511846 | 511846 | 511845 | 511846 | 511845 | 497685 | 497685 | 497685 | 497685 | 497685 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, $\overset{c}{dot}p < 0.1$. Dependent variable is health deprivation

Table 9: Disaster victims and health deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.21*** (0.02) | 0.22*** (0.02) | 0.22*** (0.02) | 0.20*** (0.02) | 0.21*** (0.02) | 0.71* (0.30) | 0.73* (0.30) | 0.73* (0.30) | 0.71* (0.30) | 0.71* (0.30) |
| Child variables | | | | | | | | | | |
| age | | | | | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) |
| Male | | | | | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) |
| rural | | | | | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) |
| nchildren | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 0.64 (2.14) | | | | -0.09 (1.93) | | | | | |
| DisFre_climo | | -3.04 (17.81) | | | | -14.79 (15.73) | | | | |
| DisFre_geo | | | -14.15 (34.57) | | | | | -24.55 (30.96) | | |
| DisFre_hydro | | | | 4.12 (4.52) | | | | | -0.11 (4.15) | |
| DisFre_meteo | | | | | -0.45 (4.00) | | | | | 0.95 (3.66) |
| Year | | | | | | -0.01 (0.00) | -0.01 (0.00) | -0.01 (0.00) | -0.01 (0.00) | -0.01 (0.00) |
| Democracy | | | | | | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) |
| GDP | | | | | -0.10* (0.05) | -0.10* (0.05) | -0.10* (0.05) | -0.10* (0.05) | -0.10* (0.05) | -0.10* (0.05) |
| QoG | | | | | -0.11* (0.05) | -0.11* (0.05) | -0.11* (0.05) | -0.11* (0.05) | -0.11* (0.05) | -0.10* (0.05) |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 528065 | 528065 | 528065 | 528065 | 528065 | 528021 | 528021 | 528021 | 528021 | 528021 |
| DIC | 511846 | 511846 | 511846 | 511846 | 511846 | 497685 | 497685 | 497685 | 497685 | 497685 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is health deprivation

Table 10: Disaster frequencies and health deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|------------------|------------------|-------------------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.12* (0.07) | 0.12** (0.04) | 0.13*** (0.03) | 0.15** (0.06) | 0.14*** (0.04) | 0.51 (0.32) | 0.62* (0.31) | 0.57 (0.30) | 0.71* (0.30) | 0.76** (0.29) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) |
| Male | | | | | | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) |
| rural | | | | | | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | -0.00 (0.12) | | | | | 0.00 (0.12) | | | | |
| QoG | 0.03 (0.09) | -0.06 (0.05) | -0.14** (0.04) | 0.03 (0.08) | -0.10* (0.05) | -0.03 (0.09) | -0.07 (0.06) | -0.04 (0.08) | -0.11* (0.05) | -0.15** (0.05) |
| DisVic:QoG | -0.30* (0.15) | | | | | -0.17 (0.16) | | | | |
| DisVic.climo | | -0.00 (0.20) | | | | | -0.08 (0.19) | | | |
| DisVic.climo:QoG | | -0.42* (0.26) | | | | | -0.28 (0.25) | | | |
| DisVic.geo | | | 0.11 (0.26) | | | | | | | 0.29 (0.20) |
| DisVic.geo:QoG | | | 0.45 (0.50) | | | | | | | 0.78* (0.41) |
| DisVic.hydro | | | | -0.05 (0.11) | | | | 0.00 (0.11) | | |
| DisVic.hydro:QoG | | | | -0.36* (0.17) | | | | -0.17 (0.17) | | |
| DisVic.meteo | | | | | -0.04 (0.15) | | | | -0.02 (0.11) | |
| DisVic.meteo:QoG | | | | | -0.19 (0.20) | | | | 0.00 (0.18) | |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.00) | -0.01 (0.01) | -0.01 (0.00) | -0.01* (0.00) |
| Democracy | | | | | | -0.00 (0.01) | 0.00 (0.01) | -0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) |
| GDP | | | | | | -0.06 (0.05) | -0.08 (0.05) | -0.07 (0.05) | -0.10* (0.05) | -0.11* (0.05) |
| Country variance | 0.01 | 0.01 | 0.02 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 409667 | 409667 | 409667 | 409667 | 409667 | 528021 | 528021 | 528021 | 528021 | 528021 |
| DIC | 381728 | 381728 | 381728 | 381728 | 381728 | 497685 | 497685 | 497685 | 497685 | 497685 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^c*dot* $p < 0.1$. Dependent variable is health deprivation

Table 11: Disaster victims and health deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.13*** (0.03) | 0.13*** (0.03) | 0.13*** (0.03) | 0.13*** (0.03) | 0.13*** (0.03) | 0.70* (0.30) | 0.73* (0.30) | 0.78** (0.29) | 0.70* (0.30) | 0.70* (0.30) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) | -0.04*** (0.00) |
| Male | | | | | | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) | 0.00 (0.00) |
| rural | | | | | | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) | 0.07*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 1.90 (7.35) | | | | | -0.23 (3.17) | | | | |
| QoG | -0.11** (0.04) | -0.12** (0.04) | -0.13** (0.04) | -0.11** (0.04) | -0.12** (0.04) | -0.11* (0.05) | -0.12* (0.05) | -0.13** (0.05) | -0.11* (0.05) | -0.10* (0.05) |
| DisFre:QoG | -0.64 (6.42) | | | | | -0.19 (3.35) | | | | |
| DisFre_climo | | 13.54 (53.57) | | | | | -0.31 (36.29) | | | |
| DisFre_climo:QoG | | 17.83 (77.19) | | | | | 18.92 (43.38) | | | |
| DisFre_geo | | | 26.37 (100.76) | | | | | 66.00 (65.23) | | |
| DisFre_geo:QoG | | | 60.70 (154.72) | | | | | 164.29 (105.65) | | |
| DisFre_hydro | | | | 2.19 (14.20) | | | | | -1.54 (9.87) | |
| DisFre_hydro:QoG | | | | -2.31 (12.31) | | | | | -1.39 (8.86) | |
| DisFre_meteo | | | | | 10.47 (19.15) | | | | | 0.16 (4.65) |
| DisFre_meteo:QoG | | | | | 2.23 (16.10) | | | | | -1.67 (6.27) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.00) | -0.01* (0.00) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) | 0.00 (0.01) |
| GDP | | | | | | -0.10 (0.05) | -0.10* (0.05) | -0.11* (0.05) | -0.10 (0.05) | -0.09 (0.05) |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 409667 | 409667 | 409667 | 409667 | 409667 | 528021 | 528021 | 528021 | 528021 | 528021 |
| DIC | 381728 | 381728 | 381728 | 381728 | 381728 | 497685 | 497685 | 497685 | 497685 | 497685 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{*cdot*} $p < 0.1$. Dependent variable is health deprivation

Table 12: Disaster frequencies and health deprivation - interactive models

4 Education deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|------------------|-------------------|-----------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.03 (0.05) | 0.09** (0.03) | 0.15*** (0.02) | 0.06 (0.04) | 0.15*** (0.02) | 0.50 (0.38) | 0.61 (0.37) | 0.74* (0.35) | 0.60* (0.36) | 0.83* (0.35) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) |
| Male | | | | | | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) |
| rural | | | | | | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.17* (0.09) | | | | | 0.14 (0.09) | | | | |
| DisVic_climo | | 0.22* (0.13) | | | | 0.15 (0.13) | | | | |
| DisVic_geo | | | -0.21 (0.14) | | | | | -0.17 (0.14) | | |
| DisVic_hydro | | | | 0.14* (0.08) | | | | | 0.13 (0.09) | |
| DisVic_meteo | | | | | -0.13 (0.08) | | | | | -0.13 (0.09) |
| Year | | | | | | | | | | |
| Democracy | | | | | | | | | | |
| GDP | | | | | | | | | | |
| QoG | | | | | | | | | | |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Num. obs. | 1150711 | 1150711 | 1150711 | 1150711 | 1150711 | 1150627 | 1150627 | 1150627 | 1150627 | 1150627 |
| DIC | 590021 | 590021 | 590021 | 590021 | 590021 | 558780 | 558779 | 558780 | 558779 | 558779 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is education deprivation

Table 13: Disaster victims and education deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.14*** (0.02) | 0.14*** (0.02) | 0.14*** (0.02) | 0.14*** (0.02) | 0.14*** (0.02) | 0.79* (0.34) | 0.81* (0.34) | 0.81* (0.34) | 0.84* (0.34) | 0.72* (0.35) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) |
| Male | | | | | | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) |
| rural | | | | | | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | -3.29 (2.34) | | | | | -4.60* (2.21) | | | | |
| DisFre_climo | | -25.69 (19.52) | | | | | -37.71* (18.16) | | | |
| DisFre_geo | | | -54.30 (37.89) | | | | | -71.92* (35.72) | | |
| DisFre_hydro | | | | -4.76 (5.02) | | | | | -9.76* (4.76) | |
| DisFre_meteo | | | | | -6.01 (4.41) | | | | | -6.23 (4.29) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) |
| GDP | | | | | | -0.12* (0.06) | -0.12* (0.06) | -0.13* (0.06) | -0.13* (0.06) | -0.11* (0.06) |
| QoG | | | | | | -0.08 (0.05) | -0.07 (0.05) | -0.08 (0.05) | -0.09 (0.05) | -0.08 (0.05) |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Num. obs. | 1150711 | 1150711 | 1150711 | 1150711 | 1150711 | 1150627 | 1150627 | 1150627 | 1150627 | 1150627 |
| DIC | 590021 | 590021 | 590021 | 590021 | 590021 | 558779 | 558779 | 558780 | 558779 | 558779 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, dot $p < 0.1$. Dependent variable is education deprivation

Table 14: Disaster frequencies and education deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|-----------------|------------------|-----------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.01 (0.08) | 0.06 (0.05) | 0.09* (0.04) | 0.05 (0.07) | 0.10* (0.04) | 0.49 (0.39) | 0.61 (0.37) | 0.58 (0.37) | 0.85* (0.36) | 0.78* (0.35) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) |
| Male | | | | | | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) |
| rural | | | | | | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.09 (0.14) | | | | | 0.08 (0.14) | | | | |
| QoG | -0.01 (0.11) | -0.05 (0.06) | -0.10* (0.05) | -0.01 (0.10) | -0.08 (0.05) | -0.03 (0.11) | -0.04 (0.07) | -0.04 (0.10) | -0.08 (0.06) | -0.10 (0.06) |
| DisVic:QoG | -0.18 (0.19) | | | | | -0.09 (0.19) | | | | |
| DisVic_climo | | 0.07 (0.24) | | | | | -0.02 (0.23) | | | |
| DisVic_climo:QoG | | -0.27 (0.31) | | | | | -0.25 (0.30) | | | |
| DisVic_geo | | | -0.03 (0.25) | | | | | | | 0.07 (0.25) |
| DisVic_geo:QoG | | | 0.38 (0.52) | | | | | | | 0.58 (0.50) |
| DisVic_hydro | | | | 0.05 (0.13) | | | | 0.09 (0.13) | | |
| DisVic_hydro:QoG | | | | -0.20 (0.20) | | | | -0.07 (0.20) | | |
| DisVic_meteo | | | | | -0.09 (0.14) | | | | -0.07 (0.13) | |
| DisVic_meteo:QoG | | | | | 0.00 (0.22) | | | | 0.15 (0.21) | |
| Year | | | | | | -0.01 (0.01) | -0.00 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) |
| GDP | | | | | | -0.08 (0.06) | -0.09 (0.06) | -0.09 (0.06) | -0.14* (0.06) | -0.12* (0.06) |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Num. obs. | 1150711 | 1150711 | 1150711 | 1150711 | 1150711 | 1150627 | 1150627 | 1150627 | 1150627 | 1150627 |
| DIC | 590021 | 590021 | 590021 | 590021 | 590021 | 558780 | 558780 | 558780 | 558780 | 558780 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is education deprivation

Table 15: Disaster victims and education deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|-------------------|-------------------|-------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.10* (0.04) | 0.10** (0.04) | 0.09* (0.03) | 0.10** (0.04) | 0.09* (0.03) | 0.78* (0.35) | 0.80* (0.35) | 0.85* (0.35) | 0.84* (0.35) | 0.73* (0.35) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) | -0.01*** (0.00) |
| Male | | | | | | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) | -0.02*** (0.00) |
| rural | | | | | | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) | 0.09*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | -4.90 (3.90) | | | | | -4.81 (3.70) | | | | |
| QoG | -0.08 (0.05) | -0.07 (0.05) | -0.10* (0.05) | -0.08 (0.05) | -0.08 (0.04) | -0.09 (0.06) | -0.06 (0.06) | -0.09 (0.06) | -0.07 (0.06) | -0.09 (0.06) |
| DisFre:QoG | -1.76 (4.12) | | | | | -0.13 (3.93) | | | | |
| DisFre_climo | | -58.18 (45.42) | | | | | -59.28 (42.59) | | | |
| DisFre_climo:QoG | | -38.52 (54.40) | | | | | -27.51 (50.85) | | | |
| DisFre_geo | | | -22.07 (83.31) | | | | | -1.02 (77.73) | | |
| DisFre_geo:QoG | | | 59.53 (133.69) | | | | | 131.57 (126.09) | | |
| DisFre_hydro | | | | -15.71 (12.25) | | | | | -17.84 (11.48) | |
| DisFre_hydro:QoG | | | | -9.04 (11.01) | | | | | -7.75 (10.32) | |
| DisFre_meteo | | | | | -5.36 (5.69) | | | | | -4.57 (5.52) |
| DisFre_meteo:QoG | | | | | 0.49 (7.81) | | | | | 4.00 (7.55) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) | 0.01 (0.01) |
| GDP | | | | | | -0.12* (0.06) | -0.12* (0.06) | -0.13* (0.06) | -0.13* (0.06) | -0.12* (0.06) |
| Country variance | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Num. obs. | 1150711 | 1150711 | 1150711 | 1150711 | 1150711 | 1150627 | 1150627 | 1150627 | 1150627 | 1150627 |
| DIC | 590021 | 590021 | 590021 | 590021 | 590021 | 558780 | 558780 | 558780 | 558780 | 558780 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{*ci dot t*} $p < 0.1$. Dependent variable is education deprivation

Table 16: Disaster frequencies and education deprivation - interactive models

5 Shelter deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.19* (0.09) | 0.27*** (0.05) | 0.49*** (0.04) | 0.26*** (0.07) | 0.49*** (0.04) | 0.66 (0.56) | 0.49 (0.47) | 1.33* (0.56) | 0.93 (0.52) | 1.45** (0.56) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) |
| nrchildren | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.47** (0.15) | | | | | 0.42** (0.13) | | | | |
| DisVic_climo | | 1.02*** (0.20) | | | | | 0.94*** (0.16) | | | |
| DisVic_geo | | | -0.29 (0.25) | | | | | -0.14 (0.21) | | |
| DisVic_hydro | | | | | | | | | 0.45*** (0.12) | |
| DisVic_meteo | | | | | -0.17 (0.15) | | | | | -0.15 (0.13) |
| Year | | | | | | | | | | -0.01 (0.01) |
| Democracy | | | | | | | | | | 0.03 (0.03) |
| GDP | | | | | | | | | | -0.18* (0.09) |
| QoG | | | | | | | | | | -0.20* (0.08) |
| Country variance | 0.07 | 0.05 | 0.07 | 0.07 | 0.07 | 0.04 | 0.03 | 0.05 | 0.04 | 0.05 |
| Child variance | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1926435 | 1926435 | 1926435 | 1926435 | 1926435 | 1926282 | 1926282 | 1926282 | 1926282 | 1926282 |
| DIC | 2102432 | 2102432 | 2102432 | 2102432 | 2102432 | 1868129 | 1868129 | 1868129 | 1868129 | 1868129 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, dot $p < 0.1$. Dependent variable is shelter deprivation

Table 17: Disaster victims and shelter deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.45*** (0.04) | 0.44*** (0.04) | 0.47*** (0.04) | 0.44*** (0.04) | 0.46*** (0.04) | 1.42* (0.56) | 1.34* (0.57) | 1.39* (0.56) | 1.41* (0.57) | 1.38* (0.56) |
| Child variables | | | | | | | | | | |
| age | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) |
| nrchildren | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 2.41 (4.78) | | | | | -3.36 (4.00) | | | | |
| DisFre_climo | | 34.79 (36.32) | | | | | -1.03 (30.57) | | | |
| DisFre_geo | | | -40.46 (68.83) | | | | | -65.19 (56.31) | | |
| DisFre_hydro | | | | | | | | | -4.91 (7.77) | |
| DisFre_meteo | | | | | -0.50 (11.18) | | | | | -9.49 (9.22) |
| Year | | | | | | | | | | |
| Democracy | | | | | | | | | | |
| GDP | | | | | | | | | | |
| QoG | | | | | | | | | | |
| Country variance | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Child variance | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1926435 | 1926435 | 1926435 | 1926435 | 1926435 | 1926282 | 1926282 | 1926282 | 1926282 | 1926282 |
| DIC | 2102432 | 2102432 | 2102432 | 2102432 | 2102432 | 1868129 | 1868129 | 1868129 | 1868129 | 1868129 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, dot $p < 0.1$. Dependent variable is shelter deprivation

Table 18: Disaster frequencies and shelter deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.15 (0.13) | 0.11 (0.07) | 0.34*** (0.06) | 0.26* (0.10) | 0.36*** (0.07) | 0.61 (0.55) | 0.49 (0.46) | 0.80 (0.50) | 1.46** (0.56) | 1.33* (0.56) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) |
| nrchildren | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.24 (0.21) | | | | | 0.20 (0.20) | | | | |
| QoG | -0.00 (0.16) | -0.24** (0.09) | -0.22* (0.09) | 0.09 (0.15) | -0.19* (0.09) | -0.04 (0.16) | -0.23** (0.09) | 0.01 (0.14) | -0.20* (0.10) | -0.21* (0.09) |
| DisVic:QoG | -0.51 (0.28) | | | | | -0.38 (0.28) | | | | |
| DisVic.climo | | 0.97** (0.32) | | | | 0.80** (0.29) | | | | |
| DisVic.climo:QoG | | -0.24 (0.41) | | | | -0.22 (0.38) | | | | |
| DisVic.geo | | | -0.25 (0.43) | | | | | | | -0.09 (0.39) |
| DisVic.geo:QoG | | | -0.20 (0.87) | | | | | | | 0.10 (0.78) |
| DisVic.hydro | | | | 0.10 (0.20) | | | | 0.17 (0.19) | | |
| DisVic.hydro:QoG | | | | -0.77** (0.29) | | | | -0.53 (0.28) | | |
| DisVic.meteo | | | | | -0.18 (0.23) | | | | -0.14 (0.20) | |
| DisVic.meteo:QoG | | | | | -0.25 (0.36) | | | | 0.01 (0.32) | |
| Year | | | | | | -0.01 (0.01) | -0.00 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.01 (0.02) | 0.02 (0.01) | 0.01 (0.01) | 0.03 (0.02) | 0.03 (0.02) |
| GDP | | | | | | -0.12 (0.09) | -0.11 (0.08) | -0.14 (0.08) | -0.25** (0.09) | -0.23* (0.09) |
| Country variance | 0.05 | 0.04 | 0.07 | 0.05 | 0.07 | 0.04 | 0.03 | 0.04 | 0.05 | 0.05 |
| Child variance | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1926435 | 1926435 | 1926435 | 1926435 | 1926435 | 1926282 | 1926282 | 1926282 | 1926282 | 1926282 |
| DIC | 2102432 | 2102432 | 2102432 | 2102432 | 2102432 | 1868129 | 1868129 | 1868129 | 1868129 | 1868129 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^c*dot* $p < 0.1$. Dependent variable is shelter deprivation

Table 19: Disaster victims and shelter deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|--------------------|---------------------|--------------------|--------------------|--------------------|
| cons | 0.34*** (0.06) | 0.33*** (0.06) | 0.35*** (0.06) | 0.33*** (0.07) | 0.33*** (0.06) | 1.45* (0.56) | 1.36* (0.57) | 1.32* (0.56) | 1.45* (0.57) | 1.39* (0.55) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) | 0.30*** (0.00) |
| nrchildren | | | | | | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) | 0.01*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | -5.70 (10.64) | | | | | -9.96 (9.32) | | | | |
| QoG | -0.21** (0.08) | -0.20* (0.08) | -0.19* (0.08) | -0.22** (0.08) | -0.22** (0.08) | -0.20* (0.09) | -0.19* (0.09) | -0.19* (0.09) | -0.20* (0.09) | -0.21* (0.09) |
| DisFre:QoG | -6.32 (9.91) | | | | | -6.75 (8.65) | | | | |
| DisFre_climo | | -35.39 (80.43) | | | | -46.89 (72.98) | | | | |
| DisFre_climo:QoG | | -79.96 (95.34) | | | | -59.04 (85.71) | | | | |
| DisFre_geo | | | -208.28 (137.02) | | | | -171.35 (121.69) | | | |
| DisFre_geo:QoG | | | -303.98 (219.63) | | | | -193.16 (197.49) | | | |
| DisFre_hydro | | | | -4.90 (23.50) | | | | | -16.63 (20.71) | |
| DisFre_hydro:QoG | | | | -7.50 (20.70) | | | | | -11.07 (18.17) | |
| DisFre_meteo | | | | | -15.36 (22.40) | | | | | -20.98 (19.70) |
| DisFre_meteo:QoG | | | | | -13.31 (21.90) | | | | | -12.59 (19.16) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.03 (0.02) | 0.02 (0.02) | 0.03 (0.02) | 0.03 (0.02) | 0.03 (0.02) |
| GDP | | | | | | -0.25** (0.09) | -0.23* (0.09) | -0.23* (0.09) | -0.25** (0.09) | -0.24** (0.09) |
| Country variance | 0.07 | 0.06 | 0.06 | 0.07 | 0.07 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Child variance | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1926435 | 1926435 | 1926435 | 1926435 | 1926435 | 1926282 | 1926282 | 1926282 | 1926282 | 1926282 |
| DIC | 2102432 | 2102432 | 2102432 | 2102432 | 2102432 | 1868129 | 1868129 | 1868129 | 1868129 | 1868129 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{*cdot*} $p < 0.1$. Dependent variable is shelter deprivation

Table 20: Disaster frequencies and shelter deprivation - interactive models

6 Sanitation deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | -0.01 (0.07) | 0.13*** (0.04) | 0.26*** (0.03) | 0.09 (0.06) | 0.25*** (0.03) | 0.29 (0.49) | 0.50 (0.48) | 0.95* (0.48) | 0.62 (0.48) | 0.97* (0.49) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) |
| rural | | | | | | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.45*** (0.11) | | | | | 0.39** (0.12) | | | | |
| DisVic_climo | | 0.64*** (0.17) | | | | 0.48*** (0.17) | | | | |
| DisVic_geo | | | -0.21 (0.20) | | | | | -0.16 (0.19) | | |
| DisVic_hydro | | | | | | | | | 0.30** (0.12) | |
| DisVic_meteo | | | | | -0.01 (0.12) | | | | | -0.04 (0.12) |
| Year | | | | | | | | | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | | | | 0.01 (0.01) | 0.01 (0.01) |
| GDP | | | | | | | | | 0.02 (0.01) | 0.02 (0.02) |
| QoG | | | | | | | | | -0.13* (0.08) | -0.17* (0.08) |
| Country variance | 0.04 | 0.04 | 0.05 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Child variance | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1940599 | 1940599 | 1940599 | 1940599 | 1940599 | 1940446 | 1940446 | 1940446 | 1940446 | 1940446 |
| DIC | 1979247 | 1979247 | 1979248 | 1979247 | 1979247 | 1762331 | 1762331 | 1762331 | 1762331 | 1762331 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is sanitation deprivation

Table 21: Disaster victims and sanitation deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| cons | 0.26*** (0.03) | 0.27*** (0.03) | 0.28*** (0.03) | 0.26*** (0.03) | 0.25*** (0.03) | 1.00* (0.47) | 1.05* (0.46) | 1.09* (0.45) | 1.08* (0.48) | 0.92* (0.48) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) |
| rural | | | | | | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) |
| nchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | -3.65 (3.26) | | | | | -5.86* (3.07) | | | | |
| DisFre_climo | | -39.13 (26.98) | | | | | -60.81* (24.75) | | | |
| DisFre_geo | | | -115.61* (51.35) | | | | | -148.98** (47.16) | | |
| DisFre_hydro | | | | | | | | | -12.87* (6.59) | |
| DisFre_meteo | | | | | | | | | | -6.02 (5.98) |
| Year | | | | | | | | | | -0.01 (0.01) |
| Democracy | | | | | | | | | | 0.02 (0.02) |
| GDP | | | | | | | | | | 0.02 (0.02) |
| QoG | | | | | | | | | | -0.17* (0.08) |
| Country variance | 0.05 | 0.05 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Child variance | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1940599 | 1940599 | 1940599 | 1940599 | 1940599 | 1940446 | 1940446 | 1940446 | 1940446 | 1940446 |
| DIC | 1979247 | 1979247 | 1979247 | 1979247 | 1979247 | 1762331 | 1762331 | 1762331 | 1762331 | 1762331 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, $\overset{c}{d}o\overset{t}{t}$ $p < 0.1$. Dependent variable is sanitation deprivation

Table 22: Disaster frequencies and sanitation deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|-----------------------------|-------------------------------|-----------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| cons | 0.04 (0.11) | 0.14 [*] (0.07) | 0.23 ^{***} (0.05) | 0.16 [*] (0.10) | 0.25 ^{***} (0.06) | 0.26 (0.50) | 0.51 (0.49) | 0.58 (0.49) | 0.94 [*] (0.51) | 1.03 [*] (0.48) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00 ^{***} (0.00) | -0.00 ^{***} (0.00) | -0.00 ^{***} (0.00) | -0.00 ^{***} (0.00) | -0.00 ^{***} (0.00) |
| Male | | | | | | 0.00 ^{**} (0.00) | 0.00 ^{**} (0.00) | 0.00 ^{**} (0.00) | 0.00 ^{**} (0.00) | 0.00 ^{**} (0.00) |
| rural | | | | | | 0.28 ^{***} (0.00) | 0.28 ^{***} (0.00) | 0.28 ^{***} (0.00) | 0.28 ^{***} (0.00) | 0.28 ^{***} (0.00) |
| nrchildren | | | | | | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) | 0.00 ^{***} (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.30 (0.19) | | | | | 0.31 (0.19) | | | | |
| QoG | 0.07 (0.14) | -0.00 (0.09) | -0.08 (0.07) | 0.12 (0.14) | -0.00 (0.08) | 0.02 (0.14) | -0.01 (0.09) | 0.03 (0.13) | -0.01 (0.09) | -0.09 (0.08) |
| DisVic:QoG | -0.27 (0.25) | | | | | -0.14 (0.25) | | | | |
| DisVic_climo | 0.39 (0.33) | | | | | 0.29 (0.30) | | | | |
| DisVic_climo:QoG | -0.37 (0.42) | | | | | -0.29 (0.40) | | | | |
| DisVic_geo | | | 0.18 (0.36) | | | | | | | 0.40 (0.33) |
| DisVic_geo:QoG | | | 0.99 (0.74) | | | | | | | 1.38 [*] (0.68) |
| DisVic_hydro | | | | 0.13 (0.19) | | | | 0.23 (0.18) | | |
| DisVic_hydro:QoG | | | | -0.38 (0.28) | | | | -0.14 (0.27) | | |
| DisVic_meteo | | | | | -0.11 (0.19) | | | | -0.08 (0.18) | |
| DisVic_meteo:QoG | | | | | -0.27 (0.31) | | | | -0.09 (0.30) | |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.01 (0.01) | 0.02 (0.01) | 0.01 (0.01) | 0.02 (0.02) | 0.02 (0.01) |
| GDP | | | | | | -0.07 (0.08) | -0.10 (0.08) | -0.12 (0.08) | -0.17 [*] (0.08) | -0.19 [*] (0.08) |
| Country variance | 0.04 | 0.04 | 0.05 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Child variance | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1925300 | 1925300 | 1925300 | 1925300 | 1925300 | 1940446 | 1940446 | 1940446 | 1940446 | 1940446 |
| DIC | 1978600 | 1978600 | 1978600 | 1978600 | 1978600 | 1762332 | 1762332 | 1762332 | 1762331 | 1762332 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{cdot} $p < 0.1$. Dependent variable is sanitation deprivation

Table 23: Disaster victims and sanitation deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.27*** (0.05) | 0.25*** (0.05) | 0.26*** (0.05) | 0.27*** (0.06) | 0.25*** (0.05) | 0.96* (0.48) | 1.04* (0.47) | 1.17* (0.46) | 1.08* (0.48) | 0.88* (0.49) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) | 0.00** (0.00) |
| rural | | | | | | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) | 0.28*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | -11.98 (9.10) | | | | | -9.05* (5.11) | | | | |
| QoG | -0.01 (0.07) | -0.04 (0.07) | -0.05 (0.07) | -0.01 (0.07) | -0.02 (0.07) | -0.03 (0.08) | -0.04 (0.08) | -0.08 (0.07) | -0.02 (0.08) | -0.03 (0.08) |
| DisFre:QoG | -9.43 (8.47) | | | | | -4.02 (5.43) | | | | |
| DisFre_climo | | -31.83 (69.62) | | | | | -57.55 (58.21) | | | |
| DisFre_climo:QoG | | -0.07 (82.52) | | | | | 5.50 (69.49) | | | |
| DisFre_geo | | | -64.18 (115.11) | | | | -12.40 (101.62) | | | |
| DisFre_geo:QoG | | | 107.37 (184.52) | | | | 251.83 (164.82) | | | |
| DisFre_hydro | | | | -27.00 (20.04) | | | | | -33.88* (15.71) | |
| DisFre_hydro:QoG | | | | -20.50 (17.65) | | | | | -20.41 (14.12) | |
| DisFre_meteo | | | | | -17.52 (19.29) | | | | | -9.26 (7.69) |
| DisFre_meteo:QoG | | | | | -18.17 (18.86) | | | | | -6.29 (10.51) |
| Year | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.02* (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| Democracy | | | | | | 0.02 (0.01) | 0.02 (0.01) | 0.02 (0.01) | 0.02 (0.01) | 0.02 (0.01) |
| GDP | | | | | | -0.17* (0.08) | -0.18* (0.08) | -0.21** (0.08) | -0.19* (0.08) | -0.16* (0.08) |
| Country variance | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.04 | 0.04 |
| Child variance | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Num. obs. | 1925300 | 1925300 | 1925300 | 1925300 | 1925300 | 1940446 | 1940446 | 1940446 | 1940446 | 1940446 |
| DIC | 1978600 | 1978600 | 1978600 | 1978600 | 1978600 | 1762331 | 1762332 | 1762332 | 1762332 | 1762331 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is sanitation deprivation

Table 24: Disaster frequencies and sanitation deprivation - interactive models

7 Water deprivation

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.22** (0.07) | 0.20*** (0.04) | 0.30*** (0.03) | 0.31*** (0.06) | 0.30*** (0.03) | 0.93* (0.39) | 0.85* (0.36) | 1.11** (0.36) | 1.13** (0.37) | 1.15** (0.36) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.09 (0.12) | | | | | 0.11 (0.09) | | | | |
| DisVic_climo | | 0.42* (0.17) | | | | 0.28* (0.13) | | | | |
| DisVic_geo | | | -0.29 (0.18) | | | | | -0.10 (0.14) | | |
| DisVic_hydro | | | | | | | | | -0.03 (0.09) | |
| DisVic_meteo | | | | | | | | | | -0.06 (0.09) |
| Year | | | | | | | | | | -0.03*** (0.01) |
| Democracy | | | | | | | | | | -0.03*** (0.01) |
| GDP | | | | | | | | | | -0.01 (0.01) |
| QoG | | | | | | | | | | -0.18** (0.06) |
| Country variance | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Num. obs. | 1941734 | 1941734 | 1941734 | 1941734 | 1941734 | 1941581 | 1941581 | 1941581 | 1941581 | 1941581 |
| DIC | 1771654 | 1771654 | 1771654 | 1771654 | 1771654 | 1628374 | 1628374 | 1628374 | 1628374 | 1628374 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is water deprivation

Table 25: Disaster victims and water deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.27*** (0.03) | 0.26*** (0.03) | 0.28*** (0.03) | 0.26*** (0.03) | 0.28*** (0.03) | 1.12** (0.36) | 1.11** (0.36) | 1.17*** (0.35) | 1.13** (0.36) | 1.10** (0.36) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | 0.08 (3.07) | | | | | -1.18 (2.32) | | | | |
| DisFre_climo | | 26.39 (25.34) | | | | | -5.94 (19.08) | | | |
| DisFre_geo | | | -34.81 (49.52) | | | | | -65.67 (36.49) | | |
| DisFre_hydro | | | | | | | | | -2.04 (4.99) | |
| DisFre_meteo | | | | 5.56 (6.50) | | | | | | |
| Year | | | | | -4.87 (5.74) | | | | | -1.45 (4.43) |
| Democracy | | | | | | -0.03*** (0.01) | -0.03*** (0.01) | -0.03*** (0.01) | -0.03*** (0.01) | -0.03*** (0.01) |
| GDP | | | | | | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) | -0.01 (0.01) |
| QoG | | | | | | -0.18** (0.06) | -0.17** (0.06) | -0.19** (0.06) | -0.18** (0.06) | -0.17** (0.06) |
| Country variance | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Num. obs. | 1941734 | 1941734 | 1941734 | 1941734 | 1941734 | 1941581 | 1941581 | 1941581 | 1941581 | 1941581 |
| DIC | 1771654 | 1771654 | 1771654 | 1771654 | 1771654 | 1628374 | 1628374 | 1628374 | 1628374 | 1628374 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is water deprivation

Table 26: Disaster frequencies and water deprivation - non-interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-----------------|--------------------|-------------------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.15 (0.11) | 0.02 (0.06) | 0.20*** (0.05) | 0.25** (0.09) | 0.19*** (0.05) | 0.94* (0.40) | 0.81* (0.36) | 1.16** (0.38) | 1.17** (0.37) | 1.12** (0.36) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisVic | 0.02 (0.18) | | | | | 0.19 (0.15) | | | | |
| QoG | -0.10 (0.13) | -0.27*** (0.08) | -0.16** (0.06) | -0.10 (0.12) | -0.17* (0.07) | -0.19* (0.11) | -0.19** (0.07) | -0.17 (0.10) | -0.13* (0.07) | -0.12* (0.06) |
| DisVic:QoG | -0.17 (0.24) | | | | | 0.15 (0.20) | | | | |
| DisVic.climo | | 0.73* (0.28) | | | | | 0.57* (0.22) | | | |
| DisVic.climo:QoG | | 0.40 (0.37) | | | | | 0.46 (0.29) | | | |
| DisVic.geo | | | -0.35 (0.31) | | | | | | | 0.03 (0.25) |
| DisVic.geo:QoG | | | -0.27 (0.63) | | | | | | | 0.32 (0.52) |
| DisVic.hydro | | | | | | | | 0.05 (0.14) | | |
| DisVic.hydro:QoG | | | | | | | | 0.15 (0.21) | | |
| DisVic.meteo | | | | | | | | | 0.01 (0.13) | |
| DisVic.meteo:QoG | | | | | | | | | 0.18 (0.22) | |
| Year | | | | | | | | | | |
| Democracy | | | | | | | | | | |
| GDP | | | | | | | | | | |
| Country variance | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Num. obs. | 1926435 | 1926435 | 1926435 | 1926435 | 1926435 | 1941581 | 1941581 | 1941581 | 1941581 | 1941581 |
| DIC | 1769256 | 1769256 | 1769256 | 1769256 | 1769256 | 1628375 | 1628375 | 1628375 | 1628374 | 1628375 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, c^{dot} $p < 0.1$. Dependent variable is water deprivation

Table 27: Disaster victims and water deprivation - interactive models

| | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| cons | 0.19*** (0.05) | 0.15*** (0.05) | 0.19*** (0.04) | 0.19*** (0.05) | 0.18*** (0.04) | 1.10*** (0.37) | 1.11*** (0.37) | 1.14*** (0.36) | 1.12*** (0.37) | 1.10*** (0.37) |
| Child variables | | | | | | | | | | |
| age | | | | | | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) | -0.00*** (0.00) |
| Male | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| rural | | | | | | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) | 0.22*** (0.00) |
| nrchildren | | | | | | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) | 0.00*** (0.00) |
| Country variables | | | | | | | | | | |
| DisFre | -8.13 (7.69) | | | | | -2.28 (3.88) | | | | |
| QoG | -0.16** (0.06) | -0.18** (0.06) | -0.15** (0.06) | -0.16** (0.06) | -0.17** (0.05) | -0.10* (0.06) | -0.10 (0.06) | -0.10* (0.06) | -0.09 (0.06) | -0.11* (0.06) |
| DisFre:QoG | -8.88 (7.16) | | | | | -1.31 (4.12) | | | | |
| DisFre_climo | | 18.60 (58.45) | | | | | -26.67 (44.79) | | | |
| DisFre_climo:QoG | | -18.29 (69.28) | | | | | -26.35 (53.47) | | | |
| DisFre_geo | | | -178.38* (99.25) | | | | | -107.63 (79.99) | | |
| DisFre_geo:QoG | | | -245.12 (159.08) | | | | | -73.47 (129.73) | | |
| DisFre_hydro | | | | | | | | | -12.87 (12.02) | |
| DisFre_hydro:QoG | | | | | | -15.54 (16.94) | | | -10.45 (10.80) | |
| DisFre_meteo | | | | | | | | | | -0.68 (5.71) |
| DisFre_meteo:QoG | | | | | | | | | | 2.11 (7.81) |
| Year | | | | | -20.83 (16.19) | | | | | -0.03*** (0.01) |
| Democracy | | | | | -18.88 (15.82) | | | | | -0.03*** (0.01) |
| GDP | | | | | | | | | | -0.03*** (0.01) |
| | | | | | | | | | | -0.01 (0.01) |
| | | | | | | | | | | -0.01 (0.01) |
| | | | | | | | | | | -0.17** (0.06) |
| | | | | | | | | | | -0.17** (0.06) |
| Country variance | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Child variance | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Num. obs. | 1926435 | 1926435 | 1926435 | 1926435 | 1926435 | 1941581 | 1941581 | 1941581 | 1941581 | 1941581 |
| DIC | 1769256 | 1769256 | 1769256 | 1769256 | 1769256 | 1628374 | 1628375 | 1628375 | 1628375 | 1628374 |

*** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, ^{dot} $p < 0.1$. Dependent variable is water deprivation

Table 28: Disaster frequencies and water deprivation - interactive models