

Supplementary Information 2
for
Climate Change and Income Inequality: Panel Evidence from 34
Indonesian Provinces, 2009–2024

Appendices

I. Appendix A: Full Regression Results

Table S2.1 Effect of temperature and precipitation on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Average Daily Temperatures	0.801** (0.296)	0.430 (1.104)	0.215 (0.344)
Average Monthly Precipitation	-0.0460* (0.0235)	-0.0275 (0.0721)	0.0151 (0.0167)
Provincial per Capita GDP	-0.0920 (0.0600)	-0.152 (0.181)	-0.0339 (0.0256)
Squared Provincial per Capita GDP	0.000427* (0.000216)	0.00108* (0.000593)	0.0000676 (0.0000787)
Employment Share in Agriculture	0.203 (0.166)	-0.0406 (0.293)	0.000289 (0.0916)
Employment Share in Manufacturing	0.262 (0.164)	0.189 (0.253)	0.0737 (0.0990)
Employment Share in Services	0.196 (0.147)	0.163 (0.270)	0.0583 (0.100)
Unemployment Rate	0.0447 (0.126)	0.320 (0.264)	-0.0221 (0.0990)
Electrification Ratio	-0.0668 (0.0406)	-0.0530 (0.0673)	-0.0358 (0.0212)
Internet Penetration	0.00273 (0.0371)	-0.0925 (0.0631)	-0.0203 (0.0178)
Average Years of Schooling	0.609 (0.982)	1.291 (2.090)	-0.233 (0.645)
Observations	536	535	535
<i>R-squared</i>	0.429	0.281	0.202

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S2.2 Interactional effect of temperature and agricultural share on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Average Daily Temperatures	-0.421 (0.487)	3.063 (2.396)	1.127** (0.428)
Employment Share in Agriculture	-0.578 (0.391)	1.499 (0.932)	0.549 (0.351)
Temperature x Agriculture Interaction Term	0.0294** (0.0136)	-0.0579 (0.0404)	-0.0207 (0.0125)
Provincial per Capita GDP	-0.0856 (0.0613)	-0.158 (0.185)	-0.0361 (0.0257)
Squared Provincial per Capita GDP	0.000419* (0.000222)	0.00107* (0.000607)	0.0000647 (0.0000808)
Employment Share in Manufacturing	0.270* (0.152)	0.160 (0.256)	0.0639 (0.111)
Employment Share in Services	0.196 (0.139)	0.164 (0.273)	0.0608 (0.109)
Unemployment Rate	0.0537 (0.126)	0.315 (0.279)	-0.0305 (0.103)
Electrification Ratio	-0.0746 (0.0460)	-0.0338 (0.0722)	-0.0305 (0.0210)
Internet Penetration	0.00268 (0.0395)	-0.0986 (0.0676)	-0.0221 (0.0194)
Average Years of Schooling	0.644 (1.046)	1.031 (2.024)	-0.302 (0.692)
Observations	538	537	537
<i>R-squared</i>	0.415	0.285	0.209

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S2.3 Interactional effect of precipitation and agricultural share on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Average Monthly Precipitation	-0.148** (0.0578)	-0.198 (0.277)	0.0272 (0.0382)
Share of Employment in Agriculture	0.169 (0.174)	-0.112 (0.381)	0.00928 (0.0933)
Precipitation x Agriculture Interaction Term	0.00243* (0.00137)	0.00430 (0.00607)	-0.000373 (0.000870)
Provincial per Capita GDP	-0.0977 (0.0668)	-0.156 (0.173)	-0.0351 (0.0258)
Squared Provincial per Capita GDP	0.000433* (0.000235)	0.00108* (0.000556)	0.0000720 (0.0000794)
Employment Share in Manufacturing	0.276 (0.173)	0.198 (0.254)	0.0771 (0.0984)
Employment Share in Services	0.206 (0.155)	0.169 (0.277)	0.0607 (0.0993)
Unemployment Rate	0.0655 (0.125)	0.345 (0.271)	-0.0211 (0.0986)
Electrification Ratio	-0.0708* (0.0403)	-0.0572 (0.0671)	-0.0362* (0.0209)
Internet Penetration	-0.00116 (0.0386)	-0.106 (0.0756)	-0.0174 (0.0164)
Average Years of Schooling	0.529 (0.966)	1.165 (2.001)	-0.225 (0.650)
Observations	536	535	535
<i>R-squared</i>	0.427	0.283	0.201

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S2.4 Effect of temperature and precipitation on income decile shares

Dependent Variable:	1st Decile	2nd Decile	3rd Decile	4th Decile	5th Decile	6th Decile	7th Decile	8th Decile	9th Decile	10th Decile
Average Daily Temperatures	-0.0109 (0.0395)	-0.0861 (0.0611)	-0.104 (0.0682)	-0.120* (0.0672)	-0.0821 (0.0735)	0.0482 (0.0649)	0.0556 (0.0550)	0.0203 (0.130)	-0.0104 (0.152)	0.289 (0.396)
Average Monthly Precipitation	0.000379 (0.00198)	-0.00245 (0.00283)	-0.00408 (0.00447)	-0.00529 (0.00482)	-0.00489 (0.00534)	-0.00121 (0.00542)	0.00129 (0.00554)	0.00500 (0.00586)	0.0125* (0.00726)	-0.00120 (0.0270)
Provincial per Capita GDP	0.00635* (0.00366)	0.00944 (0.00728)	0.0135 (0.00838)	0.0138 (0.00940)	0.0170* (0.00991)	0.0160 (0.00959)	0.0114 (0.0112)	0.00817 (0.0157)	-0.00426 (0.0194)	-0.0914 (0.0633)
Squared Provincial per Capita GDP	-0.0000195* (0.0000111)	-0.0000221 (0.0000234)	-0.0000468* (0.0000269)	-0.0000495 (0.0000322)	-0.0000659** (0.0000319)	-0.0000718** (0.0000307)	-0.0000798** (0.0000332)	-0.000114** (0.0000486)	-0.0000567 (0.0000636)	0.000526** (0.000212)
Employment Share in Agriculture	-0.0138 (0.0132)	-0.0120 (0.0145)	-0.0121 (0.0144)	-0.00135 (0.0197)	0.00827 (0.0159)	0.0322* (0.0182)	0.00561 (0.0189)	-0.0145 (0.0340)	-0.000126 (0.0553)	0.00771 (0.119)
Employment Share in Manufacturing	-0.0220 (0.0137)	-0.0288* (0.0159)	-0.0267 (0.0163)	-0.0134 (0.0223)	-0.00379 (0.0170)	0.0132 (0.0179)	-0.00929 (0.0205)	-0.0259 (0.0380)	-0.00643 (0.0645)	0.123 (0.113)
Employment Share in Services	-0.0209 (0.0157)	-0.0191 (0.0175)	-0.0232 (0.0170)	-0.00873 (0.0215)	-0.00388 (0.0173)	0.0197 (0.0183)	-0.0133 (0.0163)	-0.0359 (0.0307)	0.000893 (0.0577)	0.104 (0.107)
Unemployment Rate	-0.0106 (0.0138)	-0.0205 (0.0198)	-0.0229 (0.0239)	-0.0226 (0.0256)	-0.0231 (0.0239)	-0.00112 (0.0216)	-0.000416 (0.0257)	-0.00988 (0.0333)	0.0123 (0.0459)	0.0989 (0.111)
Electrification Ratio	0.00899*** (0.00283)	0.0121*** (0.00419)	0.00801 (0.00487)	0.00284 (0.00524)	-0.00139 (0.00524)	-0.00626 (0.00519)	-0.00653 (0.00599)	-0.0238*** (0.00662)	-0.00794 (0.0158)	0.0140 (0.0318)
Internet Penetration	0.00319 (0.00262)	0.00464 (0.00421)	0.00653 (0.00456)	0.00751 (0.00512)	0.00583 (0.00464)	0.00179 (0.00501)	0.00376 (0.00507)	0.00120 (0.00611)	0.00427 (0.00782)	-0.0387 (0.0249)
Average Years of Schooling	0.102 (0.0950)	0.0232 (0.159)	-0.236 (0.160)	-0.216 (0.145)	-0.246 (0.164)	-0.193 (0.186)	-0.0452 (0.235)	0.219 (0.258)	0.145 (0.366)	0.448 (0.915)
Observations	535	535	535	535	535	535	535	535	535	535
<i>R-squared</i>	0.407	0.324	0.284	0.294	0.366	0.433	0.440	0.332	0.403	0.285

Note: provincial and yearly dummy variables are used but not included. Standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table S2.5 Interactional effect of temperature and agricultural share on income decile shares

Dependent Variable:	1st Decile	2nd Decile	3rd Decile	4th Decile	5th Decile	6th Decile	7th Decile	8th Decile	9th Decile	10th Decile
Average Daily Temperatures	-0.173*** (0.0598)	-0.330*** (0.0825)	-0.369*** (0.108)	-0.302** (0.131)	-0.329* (0.162)	-0.106 (0.131)	-0.0650 (0.159)	0.383** (0.180)	0.413 (0.249)	0.880 (0.951)
Employment Share in Agriculture	-0.115*** (0.0335)	-0.165*** (0.0405)	-0.178*** (0.0532)	-0.115* (0.0580)	-0.147* (0.0789)	-0.0624 (0.0668)	-0.0687 (0.0897)	0.223* (0.111)	0.280* (0.157)	0.348 (0.413)
Temperature x Agriculture Interaction Term	0.00379*** (0.00113)	0.00574*** (0.00151)	0.00623*** (0.00218)	0.00428* (0.00250)	0.00584* (0.00313)	0.00356 (0.00262)	0.00279 (0.00337)	-0.00887** (0.00419)	-0.0105 (0.00622)	-0.0129 (0.0172)
Provincial per Capita GDP	0.00746** (0.00326)	0.0111 (0.00691)	0.0152* (0.00832)	0.0146 (0.00989)	0.0184* (0.0107)	0.0166 (0.0104)	0.0120 (0.0115)	0.00426 (0.0166)	-0.00836 (0.0203)	-0.0913 (0.0659)
Squared Provincial per Capita GDP	-0.0000215** (0.0000102)	-0.0000251 (0.0000227)	-0.0000496* (0.0000270)	-0.0000503 (0.0000335)	-0.0000680* (0.0000342)	-0.0000721** (0.0000332)	-0.0000805** (0.0000339)	-0.000104** (0.0000506)	-0.0000472 (0.0000670)	0.000518** (0.000219)
Employment Share in Manufacturing	-0.0215 (0.0150)	-0.0280 (0.0171)	-0.0257 (0.0193)	-0.0121 (0.0249)	-0.00255 (0.0192)	0.0145 (0.0200)	-0.00853 (0.0204)	-0.0243 (0.0401)	-0.00563 (0.0697)	0.114 (0.115)
Employment Share in Services	-0.0200 (0.0163)	-0.0181 (0.0176)	-0.0224 (0.0194)	-0.00890 (0.0241)	-0.00341 (0.0195)	0.0198 (0.0208)	-0.0127 (0.0160)	-0.0394 (0.0333)	-0.00208 (0.0637)	0.107 (0.111)
Unemployment Rate	-0.0122 (0.0134)	-0.0219 (0.0195)	-0.0235 (0.0241)	-0.0214 (0.0268)	-0.0230 (0.0252)	-0.000766 (0.0229)	-0.00128 (0.0252)	-0.00382 (0.0319)	0.0158 (0.0468)	0.0921 (0.115)
Electrification Ratio	0.00727** (0.00292)	0.00960** (0.00464)	0.00554 (0.00531)	0.00156 (0.00635)	-0.00344 (0.00696)	-0.00735 (0.00640)	-0.00757 (0.00591)	-0.0189** (0.00708)	-0.00333 (0.0148)	0.0166 (0.0357)
Internet Penetration	0.00301 (0.00264)	0.00434 (0.00435)	0.00630 (0.00484)	0.00756 (0.00539)	0.00573 (0.00534)	0.00197 (0.00558)	0.00383 (0.00532)	0.00280 (0.00606)	0.00568 (0.00799)	-0.0412 (0.0264)
Average Years of Schooling	0.109 (0.0991)	0.0318 (0.163)	-0.227 (0.161)	-0.208 (0.150)	-0.237 (0.170)	-0.183 (0.186)	-0.0373 (0.230)	0.222 (0.264)	0.150 (0.389)	0.378 (0.890)
Observations	537	537	537	537	537	537	537	537	537	537
<i>R-squared</i>	0.416	0.337	0.296	0.299	0.375	0.436	0.440	0.340	0.412	0.286

Note: provincial and yearly dummy variables are used but not included. Standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table S2.6 Interactional effect of precipitation and agricultural share on income decile shares

Dependent Variable:	1st Decile	2nd Decile	3rd Decile	4th Decile	5th Decile	6th Decile	7th Decile	8th Decile	9th Decile	10th Decile
Average Monthly Precipitation	-0.000907 (0.00601)	0.00146 (0.00929)	0.000866 (0.0142)	-0.0000794 (0.0144)	-0.00216 (0.0210)	-0.00293 (0.0181)	0.0126 (0.0201)	0.0142 (0.0165)	0.0319* (0.0164)	-0.0550 (0.0988)
Employment Share in Agriculture	-0.0146 (0.0142)	-0.0116 (0.0167)	-0.0115 (0.0176)	-0.000881 (0.0231)	0.00820 (0.0202)	0.0322 (0.0227)	0.0117 (0.0237)	-0.00992 (0.0361)	0.00863 (0.0549)	-0.0123 (0.148)
Precipitation x Agriculture Interaction Term	0.0000363 (0.000145)	-0.0000780 (0.000215)	-0.000100 (0.000310)	-0.000103 (0.000309)	-0.0000486 (0.000466)	0.0000314 (0.000403)	-0.000308 (0.000449)	-0.000245 (0.000353)	-0.000503 (0.000349)	0.00132 (0.00215)
Provincial per Capita GDP	0.00641* (0.00369)	0.00999 (0.00717)	0.0142 (0.00842)	0.0146 (0.00956)	0.0175* (0.0101)	0.0157 (0.00951)	0.0112 (0.0111)	0.00811 (0.0154)	-0.00405 (0.0182)	-0.0936 (0.0616)
Squared Provincial per Capita GDP	-0.0000197* (0.0000112)	-0.0000232 (0.0000230)	-0.0000482* (0.0000267)	-0.0000511 (0.0000321)	-0.0000670** (0.0000313)	-0.0000712** (0.0000297)	-0.0000781** (0.0000323)	-0.000113** (0.0000469)	-0.0000555 (0.0000605)	0.000527** (0.000201)
Employment Share in Manufacturing	-0.0222 (0.0136)	-0.0302* (0.0159)	-0.0285* (0.0165)	-0.0154 (0.0223)	-0.00515 (0.0169)	0.0140 (0.0180)	-0.00852 (0.0204)	-0.0256 (0.0380)	-0.00682 (0.0642)	0.128 (0.112)
Employment Share in Services	-0.0210 (0.0156)	-0.0201 (0.0176)	-0.0244 (0.0173)	-0.0101 (0.0217)	-0.00484 (0.0172)	0.0203 (0.0184)	-0.0127 (0.0163)	-0.0357 (0.0309)	0.000692 (0.0570)	0.108 (0.108)
Unemployment Rate	-0.0106 (0.0137)	-0.0220 (0.0202)	-0.0246 (0.0247)	-0.0246 (0.0266)	-0.0243 (0.0248)	-0.000379 (0.0215)	-0.00112 (0.0254)	-0.0107 (0.0328)	0.00989 (0.0452)	0.108 (0.112)
Electrification Ratio	0.00900*** (0.00280)	0.0124*** (0.00415)	0.00838* (0.00485)	0.00326 (0.00528)	-0.00112 (0.00531)	-0.00642 (0.00515)	-0.00648 (0.00607)	-0.0237*** (0.00649)	-0.00757 (0.0155)	0.0123 (0.0315)
Internet Penetration	0.00297 (0.00253)	0.00434 (0.00412)	0.00619 (0.00477)	0.00707 (0.00555)	0.00544 (0.00559)	0.00201 (0.00539)	0.00536 (0.00548)	0.00231 (0.00590)	0.00616 (0.00780)	-0.0418 (0.0278)
Average Years of Schooling	0.101 (0.0953)	0.0264 (0.160)	-0.232 (0.160)	-0.211 (0.145)	-0.244 (0.160)	-0.195 (0.179)	-0.0372 (0.231)	0.225 (0.254)	0.160 (0.362)	0.408 (0.888)
Observations	535	535	535	535	535	535	535	535	535	535
<i>R-squared</i>	0.407	0.319	0.278	0.287	0.363	0.433	0.441	0.333	0.406	0.286

Note: provincial and yearly dummy variables are used but not included. Standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

II. Appendix B: Random Effects Robustness Model

Table S2.7 Random effect of temperature and precipitation on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Average Daily Temperatures	0.703*** (0.250)	-0.0848 (0.790)	0.0783 (0.330)
Average Monthly Precipitation	-0.0477* (0.0257)	-0.0456 (0.0602)	0.0105 (0.0164)
Provincial per Capita GDP	-0.0711* (0.0400)	-0.212*** (0.0780)	-0.0380** (0.0165)
Squared Provincial per Capita GDP	0.000370** (0.000159)	0.00121*** (0.000304)	0.0000753 (0.0000611)
Employment Share in Agriculture	0.189 (0.166)	-0.0124 (0.287)	0.00302 (0.0908)
Employment Share in Manufacturing	0.255 (0.167)	0.161 (0.275)	0.0540 (0.100)
Employment Share in Services	0.249* (0.151)	0.134 (0.278)	0.0482 (0.0960)
Unemployment Rate	0.0230 (0.120)	0.219 (0.245)	-0.0448 (0.0930)
Electrification Ratio	-0.0758** (0.0382)	-0.0549 (0.0629)	-0.0352* (0.0208)
Internet Penetration	0.000725 (0.0350)	-0.0885 (0.0674)	-0.0200 (0.0173)
Average Years of Schooling	-0.243 (0.646)	-0.595 (1.029)	-0.279 (0.418)
Observations	536	535	535
Overall R-squared	0.252	0.264	0.165

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S2.8 Random interactional effect of temperature and agricultural share on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Average Daily Temperatures	-0.485 (0.561)	2.072 (1.589)	0.850* (0.440)
Employment Share in Agriculture	-0.592 (0.390)	1.264* (0.740)	0.471 (0.368)
Temperatures x Agriculture Interaction Term	0.0293** (0.0138)	-0.0478 (0.0314)	-0.0176 (0.0132)
Provincial per Capita GDP	-0.0682* (0.0391)	-0.214** (0.0864)	-0.0389** (0.0178)
Squared Provincial per Capita GDP	0.000383** (0.000154)	0.00117*** (0.000330)	0.0000635 (0.0000618)
Employment Share in Manufacturing	0.263* (0.155)	0.140 (0.272)	0.0461 (0.111)
Employment Share in Services	0.256* (0.140)	0.135 (0.279)	0.0497 (0.104)
Unemployment Rate	0.0297 (0.120)	0.215 (0.259)	-0.0525 (0.0989)
Electrification Ratio	-0.0842* (0.0440)	-0.0382 (0.0634)	-0.0310* (0.0186)
Internet Penetration	0.000993 (0.0373)	-0.0959 (0.0703)	-0.0223 (0.0186)
Average Years of Schooling	-0.118 (0.693)	-0.931 (1.051)	-0.410 (0.459)
Observations	538	537	537
Overall R-squared	0.245	0.255	0.172

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S2.9 Random interactional effect of precipitation and agricultural share on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Average Monthly Precipitation	-0.166*** (0.0581)	-0.205 (0.259)	0.0288 (0.0374)
Employment Share in Agriculture	0.142 (0.176)	-0.0883 (0.377)	0.0127 (0.0920)
Precipitation x Agriculture Interaction Term	0.00282** (0.00135)	0.00411 (0.00583)	-0.000498 (0.000849)
Provincial per Capita GDP	-0.0691 (0.0439)	-0.212*** (0.0751)	-0.0379** (0.0163)
Squared Provincial per Capita GDP	0.000362** (0.000170)	0.00120*** (0.000289)	0.0000758 (0.0000608)
Employment Share in Manufacturing	0.262 (0.179)	0.165 (0.276)	0.0537 (0.0994)
Employment Share in Services	0.263 (0.162)	0.138 (0.281)	0.0483 (0.0945)
Unemployment Rate	0.0431 (0.117)	0.239 (0.247)	-0.0472 (0.0922)
Electrification Ratio	-0.0774** (0.0375)	-0.0531 (0.0623)	-0.0353* (0.0203)
Internet Penetration	-0.00482 (0.0364)	-0.102 (0.0780)	-0.0179 (0.0162)
Average Years of Schooling	-0.154 (0.635)	-0.520 (1.091)	-0.279 (0.414)
Observations	536	535	535
Overall R-squared	0.283	0.257	0.175

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S2.10 Random effect of temperature and precipitation on income decile shares

Dependent Variable:	1st Decile	2nd Decile	3rd Decile	4th Decile	5th Decile	6th Decile	7th Decile	8th Decile	9th Decile	10th Decile
Average Daily Temperatures	-0.00169 (0.0277)	-0.0601 (0.0524)	-0.0685 (0.0649)	-0.0760 (0.0667)	-0.0351 (0.0771)	0.0700 (0.0700)	0.0992* (0.0585)	0.0332 (0.0655)	-0.0695 (0.156)	0.0734 (0.275)
Average Monthly Precipitation	0.000960 (0.00204)	-0.00149 (0.00277)	-0.00317 (0.00445)	-0.00384 (0.00479)	-0.00323 (0.00523)	0.000519 (0.00499)	0.00326 (0.00427)	0.00300 (0.00504)	0.00897 (0.00833)	-0.00801 (0.0218)
Provincial per Capita GDP	0.00671*** (0.00184)	0.00993** (0.00427)	0.0156*** (0.00583)	0.0162** (0.00639)	0.0176*** (0.00601)	0.0146*** (0.00440)	0.0107*** (0.00376)	0.00857 (0.00716)	-0.00701 (0.0106)	-0.0924*** (0.0271)
Squared per Capita GDP	-0.000022*** (0.00000773)	-0.000023 (0.0000160)	-0.0000474** (0.0000200)	-0.0000525** (0.0000234)	-0.000063*** (0.0000198)	-0.000065*** (0.0000160)	-0.000079*** (0.0000155)	-0.000112*** (0.0000275)	-0.0000539 (0.0000447)	0.000516*** (0.000106)
Employment Share in Agriculture	-0.0127 (0.0133)	-0.0123 (0.0144)	-0.0150 (0.0141)	-0.00380 (0.0192)	0.00575 (0.0148)	0.0306 (0.0189)	0.00500 (0.0176)	-0.0142 (0.0329)	0.00168 (0.0557)	0.0160 (0.117)
Employment Share in Manufacturing	-0.0190 (0.0141)	-0.0248 (0.0164)	-0.0251 (0.0164)	-0.0121 (0.0221)	-0.00134 (0.0168)	0.0190 (0.0199)	-0.00538 (0.0198)	-0.0308 (0.0358)	-0.0159 (0.0633)	0.110 (0.119)
Employment Share in Services	-0.0215 (0.0154)	-0.0184 (0.0170)	-0.0194 (0.0166)	-0.00565 (0.0211)	0.000589 (0.0166)	0.0240 (0.0181)	-0.0115 (0.0172)	-0.0381 (0.0313)	-0.00782 (0.0558)	0.0965 (0.110)
Unemployment Rate	-0.00824 (0.0127)	-0.0172 (0.0184)	-0.0166 (0.0225)	-0.0168 (0.0242)	-0.0144 (0.0230)	0.00946 (0.0213)	0.0151 (0.0244)	0.00121 (0.0289)	-0.00356 (0.0409)	0.0566 (0.107)
Electrification Ratio	0.00846*** (0.00277)	0.0118*** (0.00396)	0.00797* (0.00479)	0.00311 (0.00495)	-0.00115 (0.00498)	-0.00568 (0.00465)	-0.00670 (0.00567)	-0.0228*** (0.00632)	-0.00827 (0.0150)	0.0135 (0.0297)
Internet Penetration	0.00273 (0.00232)	0.00450 (0.00417)	0.00671 (0.00489)	0.00765 (0.00552)	0.00626 (0.00492)	0.00280 (0.00484)	0.00327 (0.00481)	0.0000332 (0.00597)	0.00353 (0.00714)	-0.0386 (0.0253)
Average Years of Schooling	0.0450 (0.0421)	0.0258 (0.0744)	-0.0774 (0.0845)	-0.0787 (0.0948)	-0.0732 (0.100)	-0.0318 (0.106)	0.103 (0.105)	0.322*** (0.111)	0.0896 (0.221)	-0.361 (0.491)
Observations	535	535	535	535	535	535	535	535	535	535
Overall R-squared	0.309	0.215	0.197	0.180	0.170	0.233	0.404	0.488	0.359	0.261

Note: provincial and yearly dummy variables are used but not included. Standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table S2.11 Random interactional effect of temperature and agricultural share on income decile shares

Dependent Variable:	1st Decile	2nd Decile	3rd Decile	4th Decile	5th Decile	6th Decile	7th Decile	8th Decile	9th Decile	10th Decile
Average Daily Temperatures	-0.126** (0.0492)	-0.260*** (0.0672)	-0.285*** (0.0920)	-0.234** (0.111)	-0.243* (0.137)	-0.0653 (0.103)	-0.0360 (0.113)	0.242* (0.145)	0.289 (0.224)	0.562 (0.693)
Employment Share in Agriculture	-0.0912*** (0.0308)	-0.139*** (0.0391)	-0.151*** (0.0531)	-0.101* (0.0538)	-0.124* (0.0713)	-0.0520 (0.0617)	-0.0790 (0.0806)	0.128 (0.0887)	0.239 (0.160)	0.294 (0.324)
Temperature x Agriculture Interaction Term	0.00293*** (0.00100)	0.00472*** (0.00140)	0.00511** (0.00207)	0.00367 (0.00225)	0.00486* (0.00277)	0.00310 (0.00234)	0.00313 (0.00292)	-0.00526* (0.00316)	-0.00886 (0.00612)	-0.0105 (0.0134)
Provincial per Capita GDP	0.00702*** (0.00192)	0.0106** (0.00453)	0.0164*** (0.00633)	0.0166** (0.00709)	0.0183*** (0.00706)	0.0151*** (0.00519)	0.0110*** (0.00396)	0.00849 (0.00718)	-0.00855 (0.0116)	-0.0928*** (0.0304)
Squared Provincial per Capita GDP	-0.000021*** (0.0000076)	-0.0000224 (0.0000164)	-0.0000467** (0.0000211)	-0.0000511** (0.0000252)	-0.000062*** (0.0000227)	-0.000064*** (0.0000179)	-0.000078*** (0.0000155)	-0.000116*** (0.0000267)	-0.0000542 (0.0000457)	0.000507*** (0.000115)
Employment Share in Manufacturing	-0.0185 (0.0150)	-0.0241 (0.0172)	-0.0240 (0.0187)	-0.0109 (0.0241)	-0.000265 (0.0185)	0.0196 (0.0212)	-0.00480 (0.0195)	-0.0306 (0.0374)	-0.0156 (0.0681)	0.103 (0.119)
Employment Share in Services	-0.0208 (0.0159)	-0.0173 (0.0170)	-0.0186 (0.0185)	-0.00562 (0.0233)	0.00107 (0.0184)	0.0241 (0.0201)	-0.0108 (0.0166)	-0.0405 (0.0328)	-0.0108 (0.0611)	0.0987 (0.113)
Unemployment Rate	-0.00942 (0.0125)	-0.0183 (0.0185)	-0.0168 (0.0230)	-0.0156 (0.0255)	-0.0145 (0.0243)	0.00905 (0.0223)	0.0134 (0.0242)	0.00631 (0.0284)	0.000283 (0.0414)	0.0514 (0.111)
Electrification Ratio	0.00714*** (0.00253)	0.00983** (0.00406)	0.00601 (0.00511)	0.00204 (0.00603)	-0.00284 (0.00662)	-0.00677 (0.00578)	-0.00816 (0.00499)	-0.0198*** (0.00633)	-0.00430 (0.0136)	0.0156 (0.0329)
Internet Penetration	0.00274 (0.00235)	0.00443 (0.00425)	0.00668 (0.00502)	0.00784 (0.00567)	0.00633 (0.00538)	0.00299 (0.00526)	0.00342 (0.00496)	0.000699 (0.00598)	0.00442 (0.00749)	-0.0413 (0.0263)
Average Years of Schooling	0.0611 (0.0460)	0.0498 (0.0817)	-0.0553 (0.0912)	-0.0604 (0.102)	-0.0530 (0.104)	-0.0169 (0.107)	0.119 (0.105)	0.301*** (0.112)	0.0553 (0.227)	-0.438 (0.487)
Observations	537	537	537	537	537	537	537	537	537	537
Overall R-squared	0.288	0.205	0.189	0.193	0.179	0.237	0.409	0.481	0.373	0.259

Note: provincial and yearly dummy variables are used but not included. Standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table S2.12 Random interactional effect of precipitation and agricultural share on income decile shares

Dependent Variable:	1st Decile	2nd Decile	3rd Decile	4th Decile	5th Decile	6th Decile	7th Decile	8th Decile	9th Decile	10th Decile
Average Monthly Precipitation	-0.00220 (0.00590)	0.00112 (0.00906)	0.00217 (0.0137)	0.00136 (0.0139)	-0.000342 (0.0201)	-0.000557 (0.0168)	0.0127 (0.0184)	0.0200 (0.0150)	0.0320* (0.0172)	-0.0635 (0.0925)
Employment Share in Agriculture	-0.0142 (0.0142)	-0.0118 (0.0167)	-0.0134 (0.0177)	-0.00240 (0.0229)	0.00662 (0.0197)	0.0310 (0.0232)	0.0106 (0.0231)	-0.00571 (0.0346)	0.0117 (0.0546)	-0.00912 (0.147)
Precipitation x Agriculture Interaction Term	0.0000815 (0.000144)	-0.0000480 (0.000206)	-0.000116 (0.000295)	-0.000110 (0.000297)	-0.0000620 (0.000452)	0.00000739 (0.000391)	-0.000275 (0.000430)	-0.000456 (0.000337)	-0.000591* (0.000353)	0.00140 (0.00209)
Provincial per Capita GDP	0.00669*** (0.00183)	0.00980** (0.00412)	0.0155*** (0.00559)	0.0161*** (0.00618)	0.0174*** (0.00585)	0.0148*** (0.00452)	0.0112*** (0.00416)	0.00886 (0.00680)	-0.00725 (0.00964)	-0.0923*** (0.0260)
Squared Provincial per Capita GDP	-0.000022*** (0.0000077)	-0.0000229 (0.0000157)	-0.0000470** (0.0000193)	-0.0000522** (0.0000226)	-0.000062*** (0.0000189)	-0.000065*** (0.0000162)	-0.000080*** (0.0000164)	-0.000112*** (0.0000261)	-0.0000525 (0.0000427)	0.000515*** (0.0000999)
Employment Share in Manufacturing	-0.0189 (0.0139)	-0.0252 (0.0165)	-0.0256 (0.0167)	-0.0128 (0.0222)	-0.00155 (0.0168)	0.0197 (0.0198)	-0.00536 (0.0198)	-0.0321 (0.0351)	-0.0194 (0.0625)	0.112 (0.118)
Employment Share in Services	-0.0214 (0.0150)	-0.0192 (0.0170)	-0.0204 (0.0168)	-0.00673 (0.0212)	0.000134 (0.0167)	0.0249 (0.0180)	-0.0107 (0.0171)	-0.0387 (0.0313)	-0.0108 (0.0548)	0.0993 (0.110)
Unemployment Rate	-0.00784 (0.0126)	-0.0179 (0.0188)	-0.0178 (0.0232)	-0.0180 (0.0251)	-0.0149 (0.0238)	0.0103 (0.0210)	0.0139 (0.0239)	0.00175 (0.0278)	-0.0103 (0.0395)	0.0644 (0.108)
Electrification Ratio	0.00848*** (0.00272)	0.0119*** (0.00386)	0.00812* (0.00469)	0.00330 (0.00497)	-0.00106 (0.00500)	-0.00577 (0.00457)	-0.00698 (0.00607)	-0.0233*** (0.00608)	-0.00832 (0.0146)	0.0136 (0.0293)
Internet Penetration	0.00246 (0.00230)	0.00431 (0.00415)	0.00670 (0.00508)	0.00758 (0.00588)	0.00628 (0.00572)	0.00321 (0.00514)	0.00464 (0.00516)	0.00110 (0.00594)	0.00486 (0.00702)	-0.0428 (0.0280)
Average Years of Schooling	0.0464 (0.0427)	0.0192 (0.0755)	-0.0833 (0.0862)	-0.0852 (0.0982)	-0.0753 (0.104)	-0.0234 (0.106)	0.106 (0.108)	0.320*** (0.107)	0.0804 (0.207)	-0.326 (0.512)
Observations	535	535	535	535	535	535	535	535	535	535
Overall R-squared	0.315	0.224	0.213	0.202	0.182	0.215	0.364	0.504	0.372	0.266

Note: provincial and yearly dummy variables are used but not included. Standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

III. Appendix C: Log Model Robustness Check

Table S2.13 Log effect of temperature and precipitation on income inequality indicators

Dependent Variable:	Gini Index	Theil Index	90:10 Income Ratio
Log of Average Daily Temperatures	0.701 *** (0.226)	0.266 (0.688)	0.735 (0.876)
Log of Average Monthly Precipitation	-0.0175 (0.0127)	-0.0267 (0.0332)	0.0195 (0.0337)
Provincial per Capita GDP	-0.00238 (0.00184)	-0.00339 (0.00414)	-0.00427 (0.00281)
Squared Provincial per Capita GDP	0.0000114* (0.00000639)	0.0000198 (0.0000132)	0.00000818 (0.00000831)
Employment Share in Agriculture	0.00612 (0.00476)	0.00129 (0.00773)	0.00149 (0.0107)
Employment Share in Manufacturing	0.00762 (0.00478)	0.00649 (0.00693)	0.00781 (0.0118)
Employment Share in Services	0.00575 (0.00419)	0.00598 (0.00762)	0.00662 (0.0118)
Unemployment Rate	0.00155 (0.00372)	0.00999 (0.00758)	-0.000521 (0.0112)
Electrification Ratio	-0.00170 (0.00115)	-0.00106 (0.00193)	-0.00299 (0.00206)
Internet Penetration	-0.0000549 (0.00104)	-0.00217 (0.00170)	-0.00175 (0.00200)
Average Years of Schooling	0.0283 (0.0289)	0.0235 (0.0571)	-0.0264 (0.0700)
Observations	536	535	535
<i>R-squared</i>	0.429	0.292	0.224

Note: provincial and yearly dummy variables are used but not included.

Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.