

Supplementary Material

A Within-Country Study of Biased Comparative Judgements About the Severity of Environmental Problems

We report detailed results for the measurement invariance analysis for the state and Brazil scales below. States with significant noninvariant measurement parameters are in boldface in parentheses. As noted in the main article, only 1% (four out of 378) parameters are non-invariant for the state scale (see Table S1), while all loadings and intercepts were invariant for the Brazil scale (see Table S2).

Table S1. Approximate measurement invariance (non-invariance) for intercepts and loadings of scale items assessing the seriousness of local (participants' state) environmental problems across samples from all 27 Brazilian states

<i>Intercepts</i>	
Deforestation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 (22) 23 24 25 26 27
Water pollution	1 2 3 4 5 6 (7) 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Air pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Land pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Overpopulation	1 2 3 4 5 6 (7) 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 (25) 26 27
Global warming	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Climate change	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
<i>Loadings</i>	
Deforestation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Water pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Air pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Land pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Overpopulation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Global warming	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Climate change	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

Note. The number labels of the Brazilian states are as follows: 1. Acre, 2. Alagoas, 3. Amapá, 4. Amazonas, 5. Bahia, 6. Ceara, 7. Distrito Federal, 8. Espírito Santo, 9. Goiás, 10. Maranhão, 11. Mato Grosso, 12. Mato Grosso do Sul, 13. Minas Gerais, 14. Pará, 15. Paraíba, 16. Paraná, 17. Pernambuco, 18. Piauí, 19. Rio de Janeiro, 20. Rio Grande do Norte, 21. Rio Grande do Sul, 22. Rondônia, 23. Roraima, 24. Santa Catarina, 25. São Paulo, 26. Sergipe, and 27. Tocantins.

Table S2. Approximate measurement invariance (non-invariance) for intercepts and loadings of scale items assessing the seriousness of global (whole of Brazil) environmental problems across samples from all 27 Brazilian states

<i>Intercepts</i>	
Deforestation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Water pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Air pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Land pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Overpopulation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Global warming	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Climate change	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
<i>Loadings</i>	
Deforestation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Water pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Air pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Land pollution	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Overpopulation	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Global warming	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
Climate change	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

Note. The number labels of the Brazilian states are as follows: 1. Acre, 2. Alagoas, 3. Amapá, 4. Amazonas, 5. Bahia, 6. Ceara, 7. Distrito Federal, 8. Espírito Santo, 9. Goiás, 10. Maranhão, 11. Mato Grosso, 12. Mato Grosso do Sul, 13. Minas Gerais, 14. Pará, 15. Paraíba, 16. Paraná, 17. Pernambuco, 18. Piauí, 19. Rio de Janeiro, 20. Rio Grande do Norte, 21. Rio Grande do Sul, 22. Rondônia, 23. Roraima, 24. Santa Catarina, 25. São Paulo, 26. Sergipe, and 27. Tocantins.