

Errata

Climate Change 2013: The Physical Science Basis

The Working Group I Contribution to the IPCC Fifth Assessment Report

Errata

| Page | Item | Correction |
|------|---|---|
| ii | Frontmatter | Insert the following text: The designations employed and the presentation of material on maps do not imply the expression of any opinion whatsoever on the part of the Intergovernmental Panel on Climate Change concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. |
| viii | Preface | Paragraph 7, Line 22, replace '2007' with '2013' |
| 20 | Summary for Policymakers Section E.1 | Paragraph 4, Line 3, replace ' <i>more likely than not</i> to exceed 2°C for RCP4.5 (<i>high confidence</i>)' with ' <i>more likely than not</i> to exceed 2°C for RCP4.5 (<i>medium confidence</i>)' |
| 28 | Summary for Policymakers Section E.8 | Paragraph 6, Line 5, replace 'CO ₂ concentration that is above 700 ppm but below 1500 ppm,' with 'CO ₂ -equivalent concentration (in 2100) that is above 700 ppm, but below 1500 ppm' |
| 38 | Technical Summary Figure TS.1 | Replace Figure TS.1 with Errata Figure TS.1. The glacier mass balance unit '10 ¹⁵ GT' has been corrected to read '10 ³ GT' |
| 39 | Technical Summary Section TS.2.3 | Paragraph 2, Line 12, replace '10 ¹⁵ W' with '10 ¹² W' |
| 40 | Technical Summary Section TS.2.5.1 | Paragraph 1, Lines 10-11, replace '(TFE.1, Figure 1)' with '(TFE.1, Figure 2)' Paragraph 2, Line 6, replace '{2.4.4, 2.5.5, 2.5.6}' with '{2.4.4, 2.5.4, 2.5.5}' Paragraph 3, Line 4, replace '{2.5.7}' with '{2.5.6}' |
| 41 | Technical Summary Figure TS.3 | Replace Figure TS.3 with Errata Figure TS.3 to be consistent with Errata Figure 4.25 (bottom panel). |
| 41 | Technical Summary Figure TS.3 | Figure caption, Line 3, replace '4.3.4' with '4.3, 4.4' |
| 43 | Technical Summary TFE.1, Figure 1 | Replace TFE.1, Figure 1 with TFE.1, Errata Figure 1. Panel c, 'PSS78 per decade' has been corrected to read 'PSS78 per 50 years' |
| 46 | Technical Summary Section TS.2.5.4 | Paragraph 2, Line 4, replace ' <i>low confidence</i> ' with ' <i>medium confidence</i> ' |
| 46 | Technical Summary Section TS.2.6 | Paragraph 5, Line 8, replace '-0.007' with '0.007' |
| 74 | Technical Summary Figure TS.12 | Figure caption, Line 3, delete ', together with the corresponding ensemble means (dark blue and dark red respectively)' Figure caption, Line 7, delete 'and precipitation panels' |
| 76 | Technical Summary Box TS.4, Figure 1 | Figure caption, Line 3, delete repeated word 'some' |
| 86 | Technical Summary Figure TS.13 | Figure caption, Line 1, replace 'several' with 'two' Figure caption, Line 3, replace 'three' with 'two' |
| 88 | Technical Summary Section TS.5.4.5 | Paragraph 2, Lines 6-7, replace 'and decades when this circulation increases are also to be expected.' with 'and there may be decades when increases occur.' |
| 91 | Technical Summary Section TS.5.5.4 | Paragraph 3, Line 9, replace ' <i>very likely</i> ' with ' <i>likely</i> ' |
| 92 | Technical Summary Section TS.5.5.4 | Paragraph 1, Line 3, insert ', southwest USA' after 'Mediterranean' |
| 100 | Technical Summary Section TS.5.7.2 | Paragraph 1, Lines 7-8, replace 'CO ₂ concentration that is above 700 ppm but below 1500 ppm,' with 'CO ₂ -equivalent concentration (in 2100) that is above 700 ppm, but below 1500 ppm' Paragraph 2, Line 5, replace '0.43 m' with '0.41 m' |
| 108 | Technical Summary Figure TS.26 | Figure caption, Line 6, replace 'denoted X' with 'denoted insf. d' |

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| 115 | Technical Summary Section TS.6.4 | Bullet 2, Line 1, replace ' <i>medium confidence</i> ' with ' <i>low confidence</i> ' |
| 162 | Chapter 2 Executive Summary | Paragraph 10, Line 10, replace '{2.6.2.2}' with '{2.6.2.3}' |
| 192 | Chapter 2 Section 2.4.3 | Paragraph 3, Line 14, reference to 'Supplementary Material 2.SM.4.3.4' should be to 'Supplementary Material 2.SM.4.3.3' |
| 199 | Chapter 2 FAQ 2.1, Figure 2 | Replace FAQ 2.1, Figure 2 with FAQ 2.1, Errata Figure 2. The glacier mass balance unit '10 ¹⁵ GT' has been corrected to read '10 ³ GT' |
| 206 | Chapter 2 Section 2.5.5.1 | Paragraph 1, Line 7, reference to 'Supplementary Material 2.SM.6.1' should be to 'Supplementary Material 2.SM.6.2' |
| 218 | Chapter 2 FAQ 2.2, Figure 1 | Replace FAQ 2.2, Figure 1 with FAQ 2.2, Errata Figure 1. The values '10' and '5' on the horizontal axis were reversed and the order has been corrected. |
| 270 | Chapter 3 FAQ 3.2, Figure 1 | Replace FAQ 3.2, Figure 1 with FAQ 3.2, Errata Figure 1. Panel c, 'PSS78 per decade' has been corrected to read 'PSS78 per 50 years' |
| 297 | Chapter 3 FAQ 3.3 | Paragraph 6, Line 5, replace 'Table 1' with 'FAQ 3.3, Table 1' |
| 298 | Chapter 3 FAQ 3.3, Figure 1 | Replace FAQ 3.3, Figure 1 with FAQ 3.3, Errata Figure 1. The years '1998' and '1996' on the horizontal axis were reversed and the order has been corrected. |
| 318 | Chapter 4 Table of Contents | The page number for FAQ 4.2 should be given as 435 |
| 320 | Chapter 4 Executive Summary | Paragraph 9, Line 8, delete 'duration' |
| 330 | Chapter 4 Section 4.2.2.9 | Paragraph 1, Line 15 replace '1910' with '2010' |
| 336 | Chapter 4 Table 4.2 | Column 4, Row 20, replace '13,2267.4' with '132,267.4' |
| 337 | Chapter 4 Figure 4.8 | Figure caption, Line 1, replace '(diameter of the circle)' with '(area of the circle)' |
| 342 | Chapter 4 Table 4.4 | Column 2, Row 6, replace 'Greenland periphery' with 'Greenland' |
| 367 | Chapter 4 Figure 4.25 | Replace Figure 4.25 with Errata Figure 4.25. The representation of the uncertainty range for the glaciers contribution to sea level rise (bottom panel) has been corrected to be consistent with the uncertainties given in Table 4.5. |
| 393 | Chapter 5 FAQ 5.1 | Paragraph 2, Line 2, replace 'Figure 1a' with 'FAQ 5.1, Figure 1a' |
| 443 | Chapter 5 References | Insert 'Hurtt, G. C., et al., 2011: Harmonization of land-use scenarios for the period 1500–2100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. <i>Clim. Change</i> , 109 , 117–161.' |
| 456 | Chapter 5 Table 5.A.1 | Section 'PMIP3/CMIP5 Experiments' Column 3, Row 'HadCM3', replace reference '51' with '53' Column 3, Row 'MPI-ESM-P', replace reference '51' with '53' |
| 456 | Chapter 5 Table 5.A.1 Notes | Section '[5] Land use, land cover:' '[51]' replace 'Pongratz et al. (2009) spliced to Hurtt et al. (2006)' with 'Pongratz et al. (2008) spliced to Hurtt et al. (2011)' '[52]' replace 'Kaplan et al. (2011)' with 'Kaplan et al. (2011) spliced to Hurtt et al. (2011)' |
| 471 | Chapter 6 Figure 6.1 | Replace Figure 6.1 with Errata Figure 6.1. Figure 6.1 has been updated to correct the numbers given for cumulative changes of anthropogenic carbon for 'Fossil fuel reserves' and terrestrial reservoirs ('Vegetation' and 'Soils'). |
| 486 | Chapter 6 Table 6.1 | Column 2, Row 5, replace '30 ± 45' with '20 ± 45' |

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| 487 | Chapter 6 Section 6.3.1 | Paragraph 2, Line 14, replace '30 ± 45' with '20 ± 45' |
| 501 | Chapter 6 Table 6.6 | Column 2, Row 5, replace '0.9' with '0.21' Column 3, Row 5, replace '±0.2' with '±0.07' |
| 507 | Chapter 6 Table 6.8 | Column 2, Row 32, replace reference '38' with '39' |
| 535 | Chapter 6 Figure 6.30 | Figure caption, Line 2, replace 'µmol m ⁻³ ' with 'mmol m ⁻³ ' |
| 549 | Chapter 6 Table 6.15 | Column 5, Row 5, replace '15–60 PgC' with '32–126 PgC' |
| 574 | Chapter 7 Executive Summary | Paragraph 3, Line 11, replace footnote reference '4' with '5' Paragraph 3, Line 15, delete footnote reference '5'; insert footnote: 'The RFari from biomass burning emissions is made up of a positive black carbon RFari and a negative organic carbon RFari.' |
| 684 | Chapter 8 FAQ 8.2, Figure 1 | Figure caption, Line 1, delete 'black' |
| 782 | Chapter 9 Figure 9.17 | Replace Figure 9.17 with Errata Figure 9.17. In panel b of Figure 9.17, the CMIP5 mean curve was erroneously copied from panel a. The correct curve is shown in Errata Figure 9.17. Minor inconsistencies in the time axes have also been corrected. |
| 848 | Chapter 9 References | Replace 'Stevens, B., et al., 2012: The atmospheric component of the MPI-M Earth System Model: ECHAM6. <i>J. Adv. Model. Earth Syst.</i> , doi:10.1002/jame.20015.' with 'Stevens, B., et al., 2013: The atmospheric component of the MPI-M Earth System Model: ECHAM6. <i>J. Adv. Model. Earth Syst.</i> , 5, 146–172.' |
| 862 | Chapter 9 Table 9.A.1 | Column 3, Rows 3-5, replace 'Stevens et al. (2012)' with 'Stevens et al. (2013)' |
| 925 | Chapter 10 Figure 10.20 | Figure caption, Line 2, replace 'very likely range' with 'likely range' Figure caption, Line 3, replace '<3' with '>3' |
| 935 | Chapter 10 Table 10.1 | Column 2, Row 4, replace text with 'Observed pattern of decrease in oxygen content from the 1960s to the 1990s is, in part, attributable to anthropogenic forcing.' |
| 949 | Chapter 10 References | Replace 'Seidel, D. J., Y. Zhang, A. Beljaars, J.-C. Golaz, A. R. Jacobson, and B. Medeiros, 2012: Climatology of the planetary boundary layer over the continental United States and Europe. <i>J. Geophys. Res. Atmos.</i> , 117, D17106.' with 'Seidel, D. J., M. Free, and J. S. Wang, 2012: Reexamining the warming in the tropical upper troposphere: Models versus radiosonde observations. <i>Geophys. Res. Lett.</i> , 39, L22701.' |
| 956 | Chapter 11 Executive Summary | Paragraph 8, Line 1, replace 'medium confidence' with 'low confidence' |
| 988 | Chapter 11 Section 11.3.2.4.1 | Paragraph 4, Line 1, replace 'medium confidence' with 'low confidence' |
| 1140 | Chapter 13 Executive Summary | Paragraph 4, Line 9, replace 'that corresponds to above 700 pm CO ₂ -eq but below 1500 ppm,' with 'that in 2100 corresponds to above 700 pm CO ₂ -eq, but below 1500 ppm CO ₂ -eq' |
| 1187 | Chapter 13 Section 13.5.4 | Paragraph 1, Line 6, replace 'the 22nd century' with '2100' Paragraph 1, Line 8, replace 'CO ₂ ' with 'CO ₂ -eq' Paragraph 1, Line 10, replace '700 ppm.' with '700 ppm but below 1500 ppm CO ₂ -eq as in RCP8.5.' |
| 1192 | Chapter 13 Section 13.6.1 | Paragraph 3, Line 3, replace 'region between Japan and Korea' with 'Sea of Japan' |
| 1196 | Chapter 13 Figure 13.21 | Replace Figure 13.21 with Errata Figure 13.21. Figure 13.21b has been updated to correct an error in the calculation of the uncertainty in the printed version. |
| 1198 | Chapter 13 Figure 13.23 | Replace Figure 13.23 with Errata Figure 13.23. The time series in Figure 13.23 included a GIA component that used a starting point of zero at 2006. The correct time series starting at 1996 is used in Errata Figure 13.23. |

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| 1227 | Chapter 14 Figure 14.2 | Figure caption, Line 1, replace 'global land monsoon domain' with 'global monsoon domain' |
| 1245 | Chapter 14 Section 14.5.1 | Paragraph 3, Line 13, delete 'would' |
| 1273 | Chapter 14 Section 14.8.12 | Paragraph 2, Line 5, delete 'eastern' |
| 1278 | Chapter 14 Table 14.1 | Table caption, Line 6, replace 'Northern Australia (NAS)' with 'Northern Australia (NAU)' |
| 1338–1341 | Annex I Figures AI.24-AI.27 | Figure caption, region 'Central America', replace '116.3°W' with '118.3°W' |
| 1346–1349 | Annex I Figures AI.32-AI.35 | Figure caption, region 'southeastern South America', replace '66°W' with '66.4°W' |
| 1358–1361 | Annex I Figures AI.44-AI.47 | Figure caption, region 'East Africa', replace '11.3°S' with '11.4°S' |
| 1386–1389 | Annex I Figures AI.72-AI.75 | Figure caption, region 'Southern Topical Pacific', replace '5°S to 5°N, 155°E to 150°W' with '25°S to 5°S, 155°E to 130°W' |
| 1401 | Annex II Table All.1.1a | Column 'CH ₄ ', Row '1964', replace '319' with '1314' |
| 1402 | Annex II Table All.1.1a | Delete duplication of years from 2005 to 2008 |
| 1403 | Annex II Table All.1.1b | Column 'CH ₃ Br', Row '1970', replace '0.0' with '7.0' |
| 1417 | Annex II Table All.2.18 | Replace Table All.2.18 with Errata Table All.2.18 |
| 1426 | Annex II Table All.4.13 | Column 'RCP2.6', Row '2100', replace '1.43' with '0.50' Column 'RCP4.5', Row '2100', replace '1.28' with '0.25' Column 'RCP6.0', Row '2100', replace '1.42' with '0.45' Column 'RCP8.5', Row '2100', replace '1.56' with '0.64' Column 'A2', Row '2100', replace '2' with '60' Column 'B1', Row '2100', replace '2' with '36' |
| 1429–1432 | Annex II Tables All.5.3-All.5.7 | Column 'Year', replace '1180d' with '1880d' |
| 1458 | Annex III Glossary | 'Mole Fraction', Line 5, replace 'fmol mol ⁻¹ ' with 'pmol mol ⁻¹ ' |
| 8SM-7 | Chapter 8 Supplementary Material | Table 8.SM.1 Notes, replace '(MN)0.75' with '(MN) ^{0.75} ' |
| 8SM-13 | Chapter 8 Supplementary Material | Table 8.SM.6 caption, Lines 3-4, insert 'in determining the associated CO ₂ forcing' after 'taken into account' |
| 14SM-16– 14SM-32 | Chapter 14 Supplementary Material | Tables 14.SM.1a-14.SM.1c caption, Line 7, replace '(NAS)' with '(NAU)' |
| 14SM-18 | Chapter 14 Supplementary Material | Table 14.SM.1a, Region 'Caribbean (land and sea)', 'Annual' rows should read: Annual 2035 0.4 0.5 0.6 0.7 1.1 -11 -3 -1 2 8 Annual 2065 0.4 0.7 0.8 1.0 1.6 -9 -5 0 2 15 Annual 2100 -0.1 0.6 0.8 1.1 1.7 -25 -4 1 3 8 |
| 14SM-22 | Chapter 14 Supplementary Material | Table 14.SM.1a, Region 'South Australia/New Zealand', insert missing row: DJF 2035 0.3 0.5 0.7 0.9 1.3 -17 -4 -1 1 8 |
| AISM-48– AISM-55 | Annex I Supplementary Material | Figures AI.SM.44-AI.SM.51 caption, region 'Central America', replace '116.3°W' with '118.3°W' |

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| AISM-64– AISM-71 | Annex I Supplementary Material | Figures AI.SM.60-AI.SM.67 caption, region 'southeastern South America', replace '66°W' with '66.4°W' |
| AISM-88– AISM-95 | Annex I Supplementary Material | Figures AI.SM.84-AI.SM.90 caption, region 'East Africa', replace '11.3°S' with '11.4°S' |
| AISM-144– AISM-151 | Annex I Supplementary Material | Figures AI.SM.140-AI.SM.147 caption, region 'Southern Topical Pacific', replace '5°S to 5°N, 155°E to 150°W' with '25°S to 5°S, 155°E to 130°W' |

Tables

Errata Table AII.2.18 | Anthropogenic NO_x emissions (TgN yr⁻¹)

| Year | RCP2.6 | RCP4.5 | RCP6.0 | RCP8.5 | A2 | B1 | IS92a |
|-------------------|--------|--------|--------|--------|-------|------|-------|
| 2000 ^d | 38.2 | 38.2 | 38.2 | 38.2 | 32.0 | 32.0 | 37.0 |
| 2010 ^d | 38.8 | 37.9 | 38.0 | 39.5 | 39.2 | 36.1 | 43.4 |
| 2020 ^d | 36.5 | 35.9 | 35.7 | 41.5 | 50.3 | 39.9 | 49.8 |
| 2030 ^d | 32.2 | 34.7 | 33.7 | 41.0 | 60.7 | 42.0 | 55.2 |
| 2040 ^d | 30.1 | 32.5 | 32.7 | 37.2 | 65.9 | 42.6 | 59.6 |
| 2050 ^d | 28.9 | 29.3 | 30.6 | 33.8 | 71.1 | 38.8 | 64.0 |
| 2060 ^d | 27.1 | 25.7 | 28.2 | 31.8 | 75.5 | 34.3 | 67.8 |
| 2070 ^d | 24.1 | 22.4 | 24.0 | 30.3 | 79.8 | 29.6 | 71.6 |
| 2080 ^d | 20.9 | 19.5 | 20.3 | 29.0 | 87.5 | 25.7 | 75.4 |
| 2090 ^d | 18.6 | 18.6 | 18.1 | 27.4 | 98.3 | 22.2 | 79.2 |
| 2100 ^d | 16.4 | 18.1 | 16.4 | 26.4 | 109.2 | 18.7 | 83.0 |

| Year | MFR | CLE | REF ^L | REF ^U | POL ^L | POL ^U |
|-------------------|------|------|------------------|------------------|------------------|------------------|
| 2000 ^d | 38.0 | 38.0 | 29.1 | 41.6 | 29.1 | 41.6 |
| 2010 ^d | | | 26.0 | 50.2 | 23.9 | 50.1 |
| 2020 ^d | | | 26.3 | 60.4 | 21.6 | 59.2 |
| 2030 ^d | 23.1 | 42.9 | 24.4 | 71.8 | 16.5 | 67.4 |
| 2040 ^d | | | 21.5 | 86.3 | 14.1 | 75.3 |
| 2050 ^d | | | 17.0 | 101.7 | 11.6 | 83.3 |
| 2060 ^d | | | 13.2 | 115.7 | 11.4 | 89.8 |
| 2070 ^d | | | 12.0 | 127.5 | 10.5 | 94.6 |
| 2080 ^d | | | 11.5 | 137.2 | 9.6 | 97.2 |
| 2090 ^d | | | 12.0 | 146.2 | 8.8 | 100.1 |
| 2100 ^d | | | 13.0 | 155.0 | 8.0 | 104.0 |

Notes:

Odd nitrogen (NO_x) emissions occur as NO or NO₂, measured here as Tg of N.

Figures

Errata Figures are available from www.climatechange2013.org and www.ipcc.ch