

## List of Working Group III AR5 Errors in the Summary for Policymakers

The Summary for Policymakers (SPM) of the Working Group III (WGIII) contribution to the IPCC Fifth Assessment Report, Climate Change 2014: Mitigation of Climate Change was approved and accepted by the IPCC Panel on 12 April 2014. The version that was released on that date was subject to copy edit and final layout.

The laid-out version of the SPM is now posted on [www.mitigation2014.org](http://www.mitigation2014.org). Errors have been corrected and the errata to the 12 April version of the SPM are given below. For full transparency, the background to this step is described here.

Errors in the SPM were discovered by the authors of the report after its approval and acceptance by the IPCC. These errors have been handled in accordance with the IPCC Protocol for addressing possible errors in the IPCC Assessment Reports, Synthesis Reports, Special Reports and Methodology Reports (the Error Protocol). For an error in an SPM, the Error Protocol stipulates: "Following WG or TF Bureau approval, the proposed erratum is submitted to the Panel for approval. To allow for rapid response, the Panel may delegate this approval step to the Executive Committee." The Panel was notified about the errors and proposed corrections in a letter from the IPCC Secretariat on 02 May 2014 and agreed to delegate the approval of the errata to the Executive Committee. On 12 May 2014 the IPCC Executive Committee approved the errata that had been provided by the Co-Chairs of WGIII and that were already approved by the WGIII Bureau. These corrections have been included in the final version of the SPM that will be made available to the 40<sup>th</sup> session of the Subsidiary Body for Scientific and Technological Advice (SBSTA), to be held from 4 to 15 June 2014 in Bonn, Germany, and that is now available from the WGIII web site. The WGIII report will be published by Cambridge University Press in autumn 2014.

### WGIII AR5 SPM Errata to 12 April 2014 version:

#### Corrections of content-related errors

**SPM.3, Footnote 7** The sentence "GHG emission levels are rounded to two significant digits throughout this document." should read: "GHG emission levels are rounded to two significant digits throughout this document; as a consequence, small differences in sums due to rounding may occur."

**SPM.3, Footnote 7** The sentence with a new reference to footnote 7 included should read: "When emissions from electricity and heat production are attributed to the sectors that use the final energy (i.e. indirect emissions), the shares of the industry and buildings sectors in global GHG emissions are increased to 31% and 19%,<sup>7</sup> respectively."

**Section SPM.4.1, Figure SPM.4 – Upper Panel** The panel now displays the 10-90th percentile range for baseline scenarios, consistent with the scenario categories in Table SPM.1 and the coloured bars representing the different CO<sub>2</sub>eq concentration levels in 2100 on the right hand side of the upper panel of Figure SPM.4.

**Section SPM.4.1, Figure SPM.4 – Caption** The sentence "The upper and lower panels exclude scenarios with limited technology availability and the lower panel in addition excludes scenarios that assume exogenous carbon price trajectories." should read: "The lower panel excludes scenarios with limited technology availability and exogenous carbon price trajectories."

**Section SPM.4.1, Figure SPM.4 – Caption** The added sentence should read: "For definitions of CO<sub>2</sub>-equivalent emissions and CO<sub>2</sub>-equivalent concentrations see the WGIII AR5 Glossary."

**Section SPM.4.1, Page 11** The sentence "Scenarios that reach about 650 ppm CO<sub>2</sub>eq by 2100 are unlikely to limit temperature change to below 2°C relative to pre-industrial levels." should read: "Scenarios that exceed about 650 ppm CO<sub>2</sub>eq by 2100 are unlikely to limit temperature change to below 2°C relative to pre-industrial levels."

**Section SPM.4.1, Table SPM.1** The sentence "Baseline scenarios (see SPM.3) are categorized in the >1000 and 750–1000 ppm CO<sub>2</sub>eq categories." should read: "Baseline scenarios (see SPM.3) fall into the >1000 and 720–1000 ppm CO<sub>2</sub>eq categories."

**Section SPM.4.1, Figure SPM.5 – Left Panel** A set of 18 scenarios with large negative emissions (>20 GtCO<sub>2</sub>) and exogenous carbon price assumptions were removed from the left panel figure to regain internal consistency with the middle and right panel of the figure.

**Section SPM.4.1, Figure SPM.5 – Left Panel** Included "Annual" in the y-axis title to read "Annual GHG Emissions [GtCO<sub>2</sub>eq/yr]".

**Section SPM.4.1, Figure SPM.5 – Caption** The sentence "Zero- and low-carbon energy supply includes renewables, nuclear energy, and fossil energy with carbon dioxide capture and storage (CCS), or bioenergy with CCS (BECCS)." should read: "Zero- and low-carbon energy supply includes renewables, nuclear energy, fossil energy with carbon dioxide capture and storage (CCS), and bioenergy with CCS (BECCS)."

**Section SPM.4.1, Figure SPM.5 – Caption** Corrected unit in brackets to read “(>20 GtCO<sub>2</sub>/yr)” instead of “(>20 GtCO<sub>2</sub>eq/yr)”. The full sentence should read: “Scenarios with large net negative global emissions (>20 GtCO<sub>2</sub>/yr), scenarios with exogenous carbon price assumptions, and scenarios with 2010 emissions significantly outside the historical range are excluded”.

**Section SPM.4.1, Figure SPM.5 – Caption** The added sentence should read: “The right-hand panel includes only 68 scenarios, because three of the 71 scenarios shown in the figure do not report some subcategories for primary energy that are required to calculate the share of zero- and low-carbon energy.”

**Section SPM.4.1, Table SPM.2 – Caption** The sentence where the reference to the table footnote 1 was shifted to should read: “Global mitigation costs in cost-effective scenarios<sup>1</sup> and estimated cost increases due to assumed limited availability of specific technologies and delayed additional mitigation.”

**Section SPM.4.1, Table SPM.2 – Caption** The sentence “The blue columns show the increase in mitigation costs over the periods 2030–2050 and 2050–2100, relative to scenarios with immediate mitigation, due to delayed additional mitigation through 2020 or 2030.” should read: “The blue columns show the increase in mitigation costs over the periods 2030–2050 and 2050–2100, relative to scenarios with immediate mitigation, due to delayed additional mitigation through 2030.”

**Section SPM.4.1, Table SPM.2** The entry in the first row of the grey columns “Consumption losses in cost-effective implementation scenarios” should read: “Consumption losses in cost-effective scenarios<sup>1</sup>”.

**Section SPM.4.1, Table SPM.2** The sentence “Some models that are included in the cost ranges for concentration levels above 530 ppm CO<sub>2</sub>eq in 2100 could not produce associated scenarios for concentration levels below 530 ppm CO<sub>2</sub>eq in 2100 with assumptions about limited availability of technologies or delayed additional mitigation.” should read: “Some models that are included in the cost ranges for concentration levels above 530 ppm CO<sub>2</sub>eq in 2100 could not produce associated scenarios for concentration levels below 530 ppm CO<sub>2</sub>eq in 2100 with assumptions about limited availability of technologies and/or delayed additional mitigation.”

**Section SPM.4.1, Figure SPM.6** The figure title “Co-benefits of mitigation for air quality” should read: “Co-benefits of climate change mitigation for air quality”.

**Section SPM.4.1, Figure SPM.6 – Caption** The sentence “Baseline scenarios without additional efforts to reduce GHG emissions beyond those in place today are compared to scenarios with stringent mitigation policies, which are consistent with reaching atmospheric CO<sub>2</sub>eq concentration levels between 430 and 530 ppm CO<sub>2</sub>eq by 2100.” should read: “Baseline scenarios without additional efforts to reduce GHG emissions beyond those in place today are compared to scenarios with stringent mitigation policies, which are consistent with reaching about 450 to 500 (430-530) ppm CO<sub>2</sub>eq concentrations by 2100.”

**Section SPM.4.2.2, Energy** The sentence “CCS power plants could be seen in the market if this is incentivized by regulation and/or if they become competitive with their unabated counterparts, if the additional investment and operational costs, caused in part by efficiency reductions, are compensated by sufficiently high carbon prices (or direct financial support).” should read: “CCS power plants could be seen in the market if this is incentivized by regulation and/or if they become competitive with their unabated counterparts, for instance, if the additional investment and operational costs, caused in part by efficiency reductions, are compensated by sufficiently high carbon prices (or direct financial support)”.

**Section SPM.4.2.3, Industry** The sentence “Lack of policy and experiences in material and product service efficiency are the major barriers.” should read: “Lack of policy and experiences in material and product service efficiency are major barriers”.

**Section SPM.5.1, Figure SPM.9 – Caption** The sentence “Total electricity generation (leftmost column) is the sum of renewables, nuclear, power plants with CCS and fossil power plants without CCS.” should read: “Total electricity generation (leftmost column) is the sum of renewables, nuclear, power plants with CCS and fossil fuel power plants without CCS.”

#### **Corrections of references to chapter sections, figures and tables**

**Section SPM.2**, page 4: changed 3.1 to 3.2; **Section SPM.4.1**, page 15: deleted reference to Figure TS.13.; **Section SPM.4.1**, page 17, Caption Figure SPM.5: included 13.13.1.3; **Section SPM.4.2.2**, page 23: included reference to Figure TS.15, deleted reference to Figure SPM.2; **Section SPM.4.2.3: Transport**, page 24: changed Figure TS.15 to Figure SPM.7; **Buildings**, page 25: changed Figure TS.15 to Figure SPM.7; **Industry**, page 26: changed Figure SPM.3 to Figure SPM.2.; **Section SPM.5.2**, page 33: Changed Figure TS.37 to Figure TS.38; changed 13.4 to 13.4.1; changed 5.2 to 5.3.3; included 13.3.4; changed 16.2.1.1 to 16.2.1; deleted 13.5.1.3; changed 14.5 to 14.4; included 13.6, 13.7, Figure 13.4, 13.13.2.3; deleted Table TS.9; included 13.6.