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**ADOPTION AND ACCEPTANCE OF THE “2019 REFINEMENT TO THE 2006 IPCC GUIDELINES
FOR NATIONAL GREENHOUSE GAS INVENTORIES”**

**Changes to the Underlying Report to ensure consistency
with the adopted Overview Chapter**

(Submitted by the Co-Chairs of the Task Force Bureau)

Volume	Chapter/Section	Start Line Number	End Line Number	Correction required	Note	
1		4	94	95	Figure 4.1 "Decision Tree to choose a Good Practice method" has been added.	Preparatory meeting
1		8	97	106	Bullet on emissions from biomass combustion has been amended (e.g. reference has been provided to Vol.2, Ch.5 on CO2 capture and storage, text on reporting of emissions from biochar production solely for application to agricultural soils in AFOLU was deleted).	IPCC-49
1		1	66	73	Paragraph has been amended as follows: "The 2019 Refinement provides in Chapter 2 of Volume 4 an optional approach [good practice guidance] for [additional and voluntary] estimation and reporting of anthropogenic greenhouse gas emissions and removals resulting from land use, land-use change and forestry with the intention to disaggregate [all] the emissions and removals on managed land (i.e., emissions and removals estimated using the Managed Land Proxy) into those that are considered to result from human activities and those that are considered from natural disturbances (Volume 4, Chapter 2, Section 2.6). Where a country chooses to use this [additional and] voluntary [estimation] approach, it is good practice to report the total emissions and removals estimated using the Managed Land Proxy and the two disaggregated components, and to document the methods and assumptions used".	IPCC-49
1		8	118	125	The following two bullets have been inserted: <ul style="list-style-type: none"> • When reporting total national emissions and removals (Table A: Summary Table), for those countries that choose to implement the approach described in Section 2.6, Volume 4, it is good practice to report the total MLP emissions and removals, as well as the emissions and removals associated with human activity on managed land. • When reporting total national emissions and removals (Table A: Summary Table), for those countries that choose to implement the approach described in Section 7.3.3, Volume 4, it is good practice to report the total MLP emissions and removals, as well as the indicative estimates of the anthropogenic component of total emissions. 	IPCC-49
1	Annex 8A.2	Page T.47	Page T.47		Table 3.2a has been removed.	IPCC-49
1	Annex 8A.2	Page T.43	Page T.43		Table 3 AFOLU Sectoral Table has been amended (total and net disaggregation column was removed for flooded land, relevant note 2 under the table was removed as well).	IPCC-49
1	Annex 8A.2	Page T.48	Page T.48		Table 3.3 AFOLU Background Table has been amended (total and net disaggregation column was removed for flooded land, relevant note 2 under the table was removed as well).	IPCC-49
1		6	Page 6.27	Page 6.27	Footnote 20 has been amended.	IPCC-49
1		4	Page 4.8	Page 4.10	Heading of Table 4.1 has been amended.	IPCC-49
1		4	Page 4.16	Page 4.16	Heading of Table 4.2 has been amended.	IPCC-49
1		4	Page 4.17	Page 4.17	Heading of Table 4.3 has been amended.	IPCC-49
1		4	337	337	Text "see examples in Tables 4.7 and 4.8" has been deleted.	IPCC-49
1		4	390	391	Heading of Table 4.4 has been amended.	IPCC-49
1		4	398	399	Heading of Table 4.4a has been amended.	IPCC-49

1	4	Page 4.21	Page 4.21	Table 4.5 has been amended (rank column has been added, heading corrected).	IPCC-49
1	4	Page 4.23	Page 4.23	Table 4.6 has been amended (rank column has been added, heading corrected).	IPCC-49
1	4	Page 4.25	Page 4.25	Table 4.9 has been amended (rank column has been added, heading corrected).	IPCC-49
1	4	Page 4.26	Page 4.26	Table 4.10 has been amended (rank column has been added, headings corrected, data in columns F and G corrected).	IPCC-49
1	4	Page 4.27	Page 4.27	Heading of Table 4.11 has been amended.	IPCC-49
1	Annex 1	127	127	Table 4.4 "Summary of key category analysis" has been added.	IPCC-49
1	Annex 1	232	232	AFOLU Background Table 3.2a "Emissions of CH ₄ and N ₂ O from pyrolysis associated with biochar production solely for the purpose of application to agricultural mineral soils" has been removed.	IPCC-49
1	7	156	157	Sentence has been amended as follows: "Therefore, CO ₂ inputs to the atmosphere from the oxidation of these fugitive emissions are typically not estimated elsewhere in national GHG inventories, [although fugitive CH ₄ emissions are reported separately in GHG inventories]".	IPCC-49
1	7	169	169	Sentence has been amended as follows: "If countries use a metric for CH ₄ that includes the inputs of CO ₂ from CH ₄ of fossil origin (such as GWP and GTP [for fossil methane] provided in [Table 8A.1 of] Appendix 8.A in IPCC 2013), they should not estimate separately the amount of CO ₂ from atmospheric oxidation of CH ₄ of fossil origin to avoid double counting the warming impact".	IPCC-49
1	7	186	186	Sentence has been amended as follows: "(e.g., [CH ₄] CO or NMVOCs from oil and gas systems, 1.B.2)".	IPCC-49
1	7	190	190	Sentence has been amended as follows: <i>Emissions_{CH₄}</i> , <i>Emissions_{CO₂}</i> and <i>Emissions_{NMVOC}</i> are the emission estimates taken from other relevant emission categories (e.g., [CO, NMVOC], CH ₄ from oil and gas systems, 1.B.2).	IPCC-49
1	7	Page 7.11	Page 7.11	Table A7.1 has been amended (in Explanation column "will typically" replaced by "more likely").	IPCC-49
2	4	2344	2347	Text on the use of confidential data has been added.	IPCC-49
2	4	Table 4.3.1 (f)	Table 4.3.1 (f)	Note on reporting category for emissions from biochar production has been deleted.	IPCC-49
2	4	Table 4.3.2 (f)	Table 4.3.2 (f)	Reporting category for emissions from charcoal and biochar production has been corrected (CH ₄ and N ₂ O in category 1.B.1.c.i, and CO ₂ as a memo item "CO ₂ emissions from biomass").	IPCC-49
2	4	Table 4.3.2 (f)	Table 4.3.2 (f)	Note on reporting category for emissions from biochar production has been deleted. The numbering of footnote has been changed for Coke production consequently due to this deletion of note.	IPCC-49
2	4	2422	2426	Text on reporting category for biochar production has been corrected.	IPCC-49
2	4	2475	2476	Text on biochar used for agricultural soils has been deleted.	IPCC-49
2	4	2697	2697	The reference used to derive the range of COG production per unit of coke production to be used for Tier 1 has been added.	IPCC-49
2	4	Table 4.3.7 (f)	Table 4.3.7 (f)	The reference used to derive the volume fraction of CH ₄ in COG has been corrected.	IPCC-49

4	2	1045	1056	Chapter 2, Page 2.32 footnote added: As defined, biochar is equivalent to charcoal, but is differentiated and recorded separately on the basis of its use and how it is incorporated into the inventory.	Preparatory meeting FD amended grey sent to governments
5	2	112	113	Table 2.1 (Updated): "Micronesia" has been removed from the table and value (MSW generation rate) for Polynesia has been corrected.	Preparatory meeting
5	6	575	576	Table 6.3 (Updated): Row title "Untreated system" has been removed.	Preparatory meeting
5	6	811	812	Table 6.8 (Updated): The emission factors relating to wastewater discharge should be the same for both domestic and industrial wastewater. The first two rows of Table 6.8 (Updated) reflecting a Tier 1 and Tier 1a emission factors have been updated to show the same content as the first three rows of Table 6.3 (Updated) reflecting a Tier 1 emission factor and two rows for the Tier 2 emission factors.	Preparatory meeting
5	6	939	940	Table 6.8a (New): "Discharge to soil" has been removed and an explanation has been added since this pathway had been removed from other tables.	Preparatory meeting
5	2			Table 2A.1 (Updated): "Fraction of MSW disposed to SWDS IPCC 2006 Values" for Singapore is corrected to 0.20.	IPCC-49
5	2			Table 2A.1 (Updated): Source No.7 for the table is divided into two separate sources for more transparency and source numbers are changed as the consequence of this change.	IPCC-49
5	2			Table 2A.2 (New): For Singapore, the value for "Rubber and leather" is revised to 0.4; the value for "Metal" is revised to 18.6; the value for "Other" is revised to 31.4.	IPCC-49
5	2			Table 2A.2 (New): Source No.19 for the table is changed to "National Environment Agency of Singapore 2016".	IPCC-49
5	2			Table 2A.2 (New): As the consequence of the revisions, South-Eastern Asia regional values for "Metal" and "Other" are revised to 4.2 and 18.6, respectively.	IPCC-49
5	2			Table 2.3 (Updated): As the consequence of the revisions in Table 2A.2, South-Eastern Asia regional values for "Metal" and "Other" are revised to 4.2 and 18.6, respectively.	IPCC-49
5	2	478	478	References section: A reference "Singapore Department of Statistics (2017) Population Trend 2017, ISSN 1793-2424" is added due to the change in the source No.7 for Table 2A.1 (Updated).	IPCC-49
4	5	355	357	Section 5.2.3.1, last sentence beginning with "This methodology....." in Tier 1 method was deleted	IPCC-49
4	5	362	363	Section 5.2.3.1, a sentence was added at the end of paragraph on Tier 2 method	IPCC-49
4	5	364	367	A sentence was added in subsection on biochar amendments , beginning with "Tier 2 for biochar"	IPCC-49
4	5	810	811	Section 5.2.3.2, last sentence in paragraph on tier 1 method with reference to default factors for biochar amendmenst in Tables 2.3A and 2.3B was deleted	IPCC-49
4	5	842	851	Section 5.2.3.2, a paragraph on Biochar C Amendments was added for Tier 2 method for EF	IPCC-49
4	5	951	959	Section 5.2.3.3, Lines 951-959 on tier 1 method for AD deleted	IPCC-49
4	5	972	985	Section 5.2.3.3, section on Biochar C amendments added for tier 2 method for AD	IPCC-49

4	5	1109	1122	Section 5.2.3.4, calculation steps for Tier 1 method change in carbon stocks associated with biochar C amendments deleted	IPCC-49
4	5	1357	1358	Section 5.3.3.1 lines 1357-1358 on references to tier 1 method for biochar C amendments deleted	IPCC-49
4	5	1362	1364	Section 5.3.3.1, sentence on tier 2 approach to estimate change in soil organic carbon for biochar C amendments added	IPCC-49
4	5	1402	1403	Section 5.3.3.2, sentence on default EF for tier 1 on biochar in Table 2.3A and 2.3B deleted	IPCC-49
4	5	1432	1441	Section 5.3.3.2, paragraph on biochar amendments	
4	5	1443	1444	Section 5.3.3.2, editorial changes	IPCC-49
4	5	1481	1493	Section 5.3.3.3, Choice of AD, tier 1 method on biochar C amendments deleted	IPCC-49
4	5	1494	1506	Section 5.3.3.3, paragraph on biochar C amendments for Tier 2 AD was revised	IPCC-49
4	5	1568	1572	Section 5.3.3.4, calculation steps for Tier 1 method change in carbon stocks associated with biochar C amendments deleted	IPCC-49
4	6	81	82	Section 6.2.3.1, on references to tier 1 method for biochar C amendments deleted	IPCC-49
4	6	87	88	Section 6.2.3.1 A sentence was added in paragraph for tier 2 methods on biochar amendments , beginning with "Tier 2 for biochar"	IPCC-49
4	6	120	121	Section 6.2.3.2, sentence on default EF for tier 1 on biochar in Table 2.3A and 2.3B deleted	IPCC-49
4	6	145	153	Section 6.2.3.2, a paragraph on Biochar C Amendments was added for Tier 2 method for EF and stock change factors	IPCC-49
4	6	229	241	Section 6.3.3.3, Choice of AD, tier 1 method on biochar C amendments deleted	IPCC-49
4	6	254	269	Section 6.3.3.3, paragraph on biochar C amendments for Tier 2 AD was revised	IPCC-49
4	6	336	348	Section 6.3.3.4, calculation steps for Tier 1 method change in carbon stocks associated with biochar C amendments for AD deleted	IPCC-49
4	6	412	413	Section 6.3.3.1, sentence beginning with "This methodology...." was deleted for tier 1 method	IPCC-49
4	6	417	419	Section 6.3.3.1, sentence starting with "For biochar C amendments, Tier 2 methods" was revised	IPCC-49
4	6	451	452	Section 6.3.3.2, last sentence on paragraph for tier 1 stock change factors and EF of biochar C amendments was deleted	IPCC-49
4	6	493	501	Section 6.3.3.2, paragraph for tier 2 stock change factors and EF for biochar C amendments was revised for permanence	IPCC-49
4	6	503	504	Section 6.3.3.2, editorial changes	IPCC-49
4	6	558	571	Section 6.3.3.3, paragraph on biochar C amendments for Tier 2 AD was revised to better reflect collection of activity data	IPCC-49
4	6	572	573	Section 6.3.3.3, first sentence of this paragraph was deleted	IPCC-49
4	6	635	639	Section 6.3.3.4, calculation steps for Tier 1 method change in carbon stocks associated with biochar C amendments deleted	IPCC-49
4	1	80	82	Chapter 1, introduction , bullet on flooded land added to reflect incorporation of methods to estimate emissions and removals from flooded land and deletion of Appendix 3 basis for future methodological development	IPCC-49

4	1	137	138	Chapter 1, introduction , bullet on flooded land added to reflect incorporation of methods to estimate emissions from for CO2 and N2O for managed wetlands and deletion of Appendix 3 basis for future methodological development	IPCC-49
4	1	226	226	A sentence was added to footnote 4 to read as follows "No default methodology is provided for biochar C amendments, but This guidance is provided for Tier 2 and 3 methods. However, this guidance "	IPCC-49
4	1	296	297	Table 1.1 (updated) , add text to read " No default method is provided" to footnote 3 on Biochar C amendments	IPCC-49
4	1	393	393	to add " Tier 2 and Tier 3 only"	IPCC-49
4	1	422	446	Series of editorial changes as follows: to replace guidance with " approach" to delete reference to " second order approximation"	IPCC-49
4	7	0	0	Chapter 7 Redrafted during IPCC-49	IPCC-49
4	2	646	646	section 2.3.1.3 box 2.0D: Added "and Alos-2"	IPCC-49
4	2	715	716	section 2.3.1.3 Box 2.0E: deleted the para starting with "The biomass map data are used...."and the para starting with "The PRODES system monitors"	IPCC-49
4	2	1030	1030	section 2.3.3.1 added: "(Tier 2 and Tier 3 only)"	IPCC-49
4	2	1043	1043	section 2.3.3.1 Biochar Tier 1 methodological elements moved to Appendix 4	IPCC-49
4	2	1046	1046	section 2.3.3.1 deleted: ", except for biochar C amendments that are over a finite period of 100 years".	IPCC-49
4	2	1047	1047	section 2.3.3.1 added a full stop and deleted: "For all practices except biochar C amendments,"	IPCC-49
4	2	1069	1081	section 2.3.3.1 entire para deleted	IPCC-49
4	2	1086	1086	section 2.3.3.1 equation 2.25: the biochar component deleted and moved to Tier 2 section	IPCC-49
4	2	1110	1111	section 2.3.3.1 equation 2.25: the biochar component deleted and moved to Tier 2 section	IPCC-49
4	2	1113	1114	section 2.3.3.1 equation 2.25: the footnote on biochar component deleted and moved to Tier 2 section	IPCC-49
4	2	1117	1125	section 2.3.3.1 equation 2.25: elements of the biochar component deleted and moved to Tier 2 section	IPCC-49
4	2	1192	1192	section 2.3.3.1 box 2.1: deleted "(excluding the ΔBC _mineral term)"	IPCC-49
4	2	1217	1218	section 2.3.3.1 box 2.2: deleted "excluding the ΔBC _mineral term"	IPCC-49
4	2	1219	1234	section 2.3.3.1 text deleted	IPCC-49
4	2	1236	1254	section 2.3.3.1 box 2.2A moved to section on Tier 2 method for Biochar	IPCC-49
4	2	1255	1256	section 2.3.3.1 table 2.3A deleted	IPCC-49
4	2	1256	1257	section 2.3.3.1 table 2.3B deleted	IPCC-49
4	2	1278	1279	section 2.3.3.1 text deleted	IPCC-49
4	2	1387	1387	section 2.3.3.1 box 2.2A renamed as "2.2B"	IPCC-49
4	2	1412	1429	section 2.3.3.1 text on Tier 2 Biochar method revised with the insertion of the default method (EQUATION 2.25A) removed from Tier 1.	IPCC-49
4	2	1412	1429	section 2.3.3.1 text on Tier 2 Biochar, Former footnote 12 updated to new footnote 11. Text defines biochar type to which this guidance applies	IPCC-49
4	2	1446	1448	section 2.3.3.1 text added on on Tier 2 Biochar method	IPCC-49
4	2	1450	1468	section 2.3.3.1 former box 2.2A moved here and renamed as box "2.2B"	IPCC-49
4	2	1757	1757	section 2.3.3.1 deleted "For Biochar C,"	IPCC-49
4	2	1758	1758	section 2.3.3.1 deleted "s 1 or"	IPCC-49

4	2	1759	1759	section 2.3.3.1 added footnote 13 on biochar impacts on N2O and CH4 emissions	IPCC-49
4	2	2414	2414	section 2.6 added: "This allows for consistency, comparability, and transparency in estimation. "	IPCC-49
4	2	2417	2417	section 2.6 added: "can "	IPCC-49
4	2	2428	2428	section 2.6 added: "In some countries"	IPCC-49
4	2	2435	2436	section 2.6 added: "In other countries, the majority of IAV may be due to human activities."	IPCC-49
4	2	2439	2440	section 2.6 added: "those that are considered to result from"	IPCC-49
4	2	2440	2440	section 2.6 added: "those understood to result from"	IPCC-49
4	2	2442	2442	section 2.6 deleted: "quantification"	IPCC-49
4	2	2443	2443	section 2.6 added: "understanding"	IPCC-49
4	2	2447	2448	section 2.6 added: "It is not yet possible to fully and accurately separate emissions and removals associated with human activity from those associated with natural effects"	IPCC-49
4	2	2450	2451	section 2.6 added: "Recognizing that some but not all countries may choose to address emissions and removals from natural disturbances on managed land outside the inventory process,"	IPCC-49
4	2	2457	2457	section 2.6 added: "approach to report on"	IPCC-49
4	2	2458	2458	section 2.6 deleted: "methodology to estimate"	IPCC-49
4	2	2458	2458	section 2.6 replaced: "disaggregate and report" with "disaggregation of"	IPCC-49
4	2	2458	2459	section 2.6 replaced: "to the" with "in reporting on total"	IPCC-49
4	2	2472	2474	section 2.6.1 text deleted	IPCC-49
4	2	2491	2492	section 2.6.1.1 replaced: "a second order approximation that builds on the first order approximation of the MLP, and" with "an approach".	IPCC-49
4	2	2492	2494	section 2.6.1.1 added: "in order to indicate those emissions and removals considered to result from human activity, and those that are understood to result from natural disturbances".	IPCC-49
4	2	2494	2494	section 2.6.1.1 replaced: "second order approximation is achieved" with "is obtained".	IPCC-49
4	2	2495	2495	section 2.6.1.1 replaced: "from" with "within".	IPCC-49
4	2	2495	2496	section 2.6.1.1 replaced: " second order approximation of anthropogenic " with "remaining aggregate of".	IPCC-49
4	2	2496	2497	section 2.6.1.1 added: "associated with human activity".	IPCC-49
4	2	2500	2500	section 2.6.1.2 deleted: "natural".	IPCC-49
4	2	2502	2502	section 2.6.1.2 deleted: "past levels of fire suppression,".	IPCC-49
4	2	2516	2516	section 2.6.1.2 footnote 13 deleted: "further".	IPCC-49
4	2	2516	2516	section 2.6.1.2 footnote 13 added: "applied in the Kyoto Protocol accounting ".	IPCC-49
4	2	2573	2580	section 2.6.3 renamed from "Methodological approach to estimate the contribution of ND to the emissions and removals reported for managed lands" to "Optional approach for reporting of emissions and removals from Natural Disturbances"	IPCC-49
4	2	2582	2582	section 2.6.3 deleted "methodological"	IPCC-49
4	2	2583	2583	section 2.6.3 replaced "how" with "report on the"	IPCC-49
4	2	2583	2583	section 2.6.3 replaced "disaggregate" with "disaggregation of"	IPCC-49
4	2	2585	2586	section 2.6.3 replaced "The generic methodological approach" with "This reporting guidance"	IPCC-49
4	2	2586	2586	section 2.6.3 added "assist countries choosing to report on the "	IPCC-49

4	2	2586	2586	section 2.6.3 replaced "disaggregate total" with "disaggregation of"	IPCC-49
4	2	2587	2587	section 2.6.3 added "associated with human activity and those "	IPCC-49
4	2	2587	2588	section 2.6.3 deleted "estimates of the MLP into the emissions and removals resulting from"	IPCC-49
4	2	2588	2588	section 2.6.3 added "associated with"	IPCC-49
4	2	2588	2588	section 2.6.3 replaced "and all other" with "within the total "	IPCC-49
4	2	2588	2588	section 2.6.3 replaced "removals" with "subsequent removals"	IPCC-49
4	2	2589	2589	section 2.6.3 added "estimates of the MLP"	IPCC-49
4	2	2590	2590	section 2.6.3 deleted "methodological"	IPCC-49
4	2	2598	2598	section 2.6.3 added "Reporting on the"	IPCC-49
4	2	2604	2604	section 2.6.3 replaced "apply" with "applying"	IPCC-49
4	2	2604	2604	section 2.6.3 replaced "quantification" with "identification"	IPCC-49
4	2	2605	2605	section 2.6.3 replaced "from" with "associated with"	IPCC-49
4	2	2605	2605	section 2.6.3 replaced "quantified" with "identified"	IPCC-49
4	2	2607	2608	section 2.6.3 added "Noting that a portion of the emissions and removals considered to be associated with natural disturbances may be affected by human actions"	IPCC-49
4	2	2608	2608	section 2.6.3 footnote 20 added "In identifying those emissions and removals, it is good practice to avoid the inclusion of emissions and removals that are materially affected by human actions"	IPCC-49
4	2	2649	2649	section 2.6.3 replaced "the second order approximation of the anthropogenic" with "an estimate of the"	IPCC-49
4	2	2650	2650	section 2.6.3 replaced "from" with "associated with human activity on"	IPCC-49
4	2	2650	2650	section 2.6.3 added a full stop after "managed land"	IPCC-49
4	2	2650	2650	section 2.6.3 replaced "which is" with "Both components are"	IPCC-49
4	2	2651	2651	section 2.6.3 replaced "in addition to" with "as part of"	IPCC-49
4	2	2652	2653	section 2.6.3 replaced "second order approximation of anthropogenic emissions and removals" with "component of the MLP emissions and removals identified as associated with human activity"	IPCC-49
4	2	2659	2659	section 2.6.3 replaced " within the time series" with "in each inventory year "	IPCC-49
4	2	2664	2665	section 2.6.3 added "This ensures a consistent application of the balance principle throughout the time series"	IPCC-49
4	2	2834	2835	section 2.6.4 replaced "due to anthropogenic impact" with "associated with human effects"	IPCC-49
4	2	2835	2835	section 2.6.4 added "may"	IPCC-49
4	2	2836	2836	section 2.6.4 replaced "anthropogenic component" with "impact of management activities"	IPCC-49
4	2	2838	2838	section 2.6.4 replaced "due to" with "associated with"	IPCC-49
4	2	2839	2839	section 2.6.4 replaced "is" with "may be"	IPCC-49
4	2	2843	2843	section 2.6.4 added "(direct and indirect human effects)"	IPCC-49
4	2	2845	2845	section 2.6.4 deleted "Depending on the methodological Tier applied,"	IPCC-49
4	2	2847	2848	section 2.6.4 replaced " that are from direct and indirect anthropogenic human activities " with " directly and indirectly associated with human activity"	IPCC-49
4	2	2849	2849	section 2.6.4 replaced "from " with "associated with"	IPCC-49
4	2	2851	2851	section 2.6.4 replaced "voluntary" with "optional"	IPCC-49
4	2	2852	2852	section 2.6.4 deleted "anthropogenic"	IPCC-49
4	2	2852	2853	section 2.6.4 added "on managed land associated with human activity"	IPCC-49

4	2	2867	2868	section 2.6.4 added "How the emissions and removals that are materially influenced by human actions are excluded from the natural disturbances component"	IPCC-49
4	2	2878	2879	section 2.6.4 Box 2.2L replaced "second order approximation" with "optional disaggregated estimate"	IPCC-49
4	2	3133	3134	References on Soil C, text deleted	IPCC-49
4	2	3159	3160	References on Soil C, text deleted	IPCC-49
4	2	3169	3171	References on Soil C, text deleted	IPCC-49
4	2	3174	3177	References on Soil C, text deleted	IPCC-49
4	2	3186	3187	References on Soil C, text deleted	IPCC-49
4	2	3190	3192	References on Soil C, text deleted	IPCC-49
4	2	3212	3213	References on Soil C, text deleted	IPCC-49
4	2	3217	3218	References on Soil C, text deleted	IPCC-49
4	2	3230	3232	References on Soil C, text deleted	IPCC-49
4	2	3238	3246	References on Soil C, text deleted	IPCC-49
4	2	3271	3273	References on Soil C, text deleted	IPCC-49
4	2	3288	3289	References on Soil C, text deleted	IPCC-49
4	2	3304	3306	References on Soil C, text deleted	IPCC-49
4	2	3328	3329	References on Soil C, text deleted	IPCC-49
4	2	3337	3340	References on Soil C, text deleted	IPCC-49
4	2	3346	3347	References on Soil C, text deleted	IPCC-49
4	2	3723	3723	Annex 2A.2 replaced "supporting material" with "additional information"	IPCC-49
4	2	3725	3725	Annex 2A.2 added "Using Tier 2 and 3 Methods"	IPCC-49
4	2	3771	3815	Annex 2A.2 deleted the calculation of default values for Fcp and Fpermp"	IPCC-49
4	Annex2			Soil carbon worksheets were updated by removing biochar carbon, flooded land worksheets were updated based upon revised method for indicative estimates of the anthropogenic component of total emissions.	IPCC-49