

<Review comments by experts on Second Order Draft of KP Supplement: Sections 2.9-2.12>

ID	Expert (Last Name, First Name)	Chapter/Section	Start Line	End Line	Comment	Supplementary documents	Authors' Action	Authors' note
4_E_001	Gao, Qingxian	2	747	7883	The description of relation of this supplement guide among with 2006 IPCC Guideline and The Wetlands Supplement are included in this section, such as in section 2.5 to section 2.7, it was included in Box 2.5.1, Box 2.5.2, Box 2.6.1, Box 2.6.2, Box 2.7.1, Box 2.7.2. But from section 2.8 to 2.12 there are no Box information to describe the relevant content. The modification is suggested to be included in the revision report in order to make the report consistent and easy to be understand.		Reject	This was discussed by the authors. Since the 2006 GL were prepared, the accounting rules for forest management have changed to a much greater extent than for cropland or grazing land management. Therefore, it was decided that the boxes were not necessary for those sections describing CM and GM.
4_E_002	Federici, Sandro	2.9.1	5708	5708	Please replace "Marrakesh Accords" with "decision 16/CMP.1"		Accept with modification	Since many readers will be familiar with the Marrakesh Accords but may not know what 16/MCP.1 refers to, suggest to add 16 CMP.1 in parenthesis after (...Marrakesh Accords (16/CMP.1)).
4_E_003	Lundblad, Mattias	2	5708	5708	Delete reference to Marrakesh accords and change to 16/CMP.1		Accept with modification	Since many readers will be familiar with the Marrakesh Accords but may not know what 16/MCP.1 refers to, suggest to add 16 CMP.1 in parenthesis after (...Marrakesh Accords (16/CMP.1)).
4_E_004	Galinski, Wojtek	2.9.1	5711	5716	Lines 5711 - 5713 are inconsistent with lines 5713 - 5716.		Accept with modification	Chapter 1 also address this issue, noting that for consistency with the first period, countries which continue to include lands such as orchards under CM must describe how that effect emissions and removals reporting. In this CM text, authors state that it is good practice in CP2 for countries that include lands such as orchards under CM to ensure that double counting with FM is avoided and to document how consistency with land categories reported previously is achieved.
4_E_005	Goheer, Muhammad Arif	2	5711	5711	Word "Treed" may be replaced with "Tree"		Accept with modification	change to "areas having tree cover"
4_E_006	Goheer, Muhammad Arif	2	5716	5716	The lands which are occupied or managed under Perennial Fodders, also needs to be mentioned.		Accept	Edit sentence to include perennial forage crops.
4_E_007	Galinski, Wojtek	2.9.1	5719	5720	How trends are different from systematic changes ("report trends and systematic changes")?		Reject	Systematic changes need not be trends, but rather repeating patterns that can be attributed to specific drivers.
4_E_008	Abad Viñas, Raul	2	5755	5755	Emissions for GM activity have to be estimated and reported for base year and each year of the CP, therefore it would suggest replacing "commitment year" by "each year of the commitment period"		Reject	For both CM and GM, estimates can be based on the change over the commitment period less the baseyear. If commitment period accounting/crediting is selected, then emissions/removals do not have to be estimated for each year of the commitment period.
4_E_009	Guomundsson, Jon	2.9.2	5771	5794	Box 2.9.1. Harmonize presentation and mathematical symbols used in boxes 2.9.1, 2.10.2 and 2.12.2		Reject	Identifying WDR activities is not exactly the same as for CM or GM and therefore the diagrams in the boxes cannot be identical.
4_E_010	Abad Viñas, Raul	2	5818	5818	My understanding is that if data are available for the time series between 1990-2010 you have already the data needed for 1990, so it is not a solution for estimating 1990 data of carbon stock, to use the trend between 1990-2010. May be it wants suggest to use 2000-2010.		Accept with modification	It is correct to say that if the data for 1990 to 2010 are available, the data for 1990 is available. The key point is that the time series of data from 1990 onwards permits an estimation of the trends through 1990 rather than relying on a single point.
4_E_011	Goheer, Muhammad Arif	2	5849	5849	Add "and the data of land use is not available" between "same land" and "a part may use.."		Reject	This is not about land use, but rather land management. Data about land use would be used to determine whether that land is forest, cropland or grazing land, but not, for example, about how cropland is managed.
4_E_012	Goheer, Muhammad Arif	2	5862	5862	Fertility amendments is important part of the mangement practices. This may also be included in management factors		Accept with modification	Fertility amendments that increase crop biomass production will be included.
4_E_013	Goheer, Muhammad Arif	2	5864	5864	Examples of Fallow practices may be provided		Accept with modification	Provided text to indicate what is fallow.
4_E_014	Asada, Yoko	2.9.4	5886	5886	Suggest to list non-CO2 emissions from N mineralization, drainage and rewetting that are referred in 2.9.4.5.		Reject	This list refers to what methodological guidance is provided in the 2006 IPCC GL, not what is covered in this update.
4_E_015	Sato, Atsushi	2.9.4	5886	5886	In section 2.9.4.4, GHG emissions due to biomass burning, N2O emissions from N mineralization, and CH4 emissions due to drainage and rewetting are treated as the gases reported under CM. All those source of emissions should be referred, instead of referring biomass burning only.		Reject	This list refers to what methodological guidance is provided in the 2006 IPCC GL, not what is covered in this update.
4_E_016	Nielsen, Ole-Kenneth	2.9	5938	5939	The sentence is cumbersome to read. It includes to many "soils". Only the second soil is needed and the first soil can be deleted as can in soils at the end.		Accept	
4_E_017	Wang, Changke	2	5939	5939	The original text is wrong. please replace 'soil organic carbon in soils' with 'organic carbon in soils'.		Accept	
4_E_018	Asada, Yoko	2.9.4.2	5963	5964	It's not clear whether rotational changes in management are included in the reporting activities of CM.		Accept with modification	The text was unclear and has been deleted.

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4_E_019	Abad Viñas, Raul	2	5966	5966	According to the description of the figure 2.9.1, the decision tree is, to be use for selecting the appropriate tier for estimating carbon stock change in mineral soils, however in line 5911 and 6158 which are related to biomass/ dead wood and organic soils respectively, the text refers also to this figure in order to choose the appropriate tier. It would suggest changing the heading of the figure 2.9.1 to include also those pools.		Accept	We should update the title to include all carobn pools.
4_E_020	Goheer, Muhammad Arif	2	6034	6035	Please add "Soil's chemcial composition" in the line "The sampling protocolsmanagement practices"		Reject	Soil types includes chemical composition as well as all the other characteristics of a soil that varies among types. It would be difficult to list all the aspects of 'type' and be completely comprehensive, but once we begin listing, there will be an expectation to be complete.
4_E_021	Abad Viñas, Raul	2	6053	6053	In this line a parenthesis is opened but after, it is not closed.		Accept	Delete the parenthesis and replace with a period.
4_E_022	Goheer, Muhammad Arif	2	6054	6054	Delete "," between "14" and "and"		Accept	
4_E_023	Goheer, Muhammad Arif	2	6093	6094	In hard clayey soils of Sub-tropical regions Subsoilers (penetrate in the soil to a depth of 45cm) are used to facilitate root proliferation to a greater depth, where as in this manual Management practice is assumed to influence stocks to a depth of 30 cm only. It is suggested that the managment practice needs to be considered to a dpeht more than 30 cm as well.			Tier 1 factors were developed based on the assumption of 30 cm, although as the reviewer suggests there are practices that could influence soil carbon at greater depths. Tier 2 or 3 approaches would have to be used to capture the effects of practices such as use of subsoilers.
4_E_024	Goheer, Muhammad Arif	2	6097	6098	Please delete word "on" between "stocks" and "simple"		Accept	
4_E_025	Kasimir Klemedtsson, Åsa	2.9	6128	6129	"low medium, high without manure, and high with manure..."; this is confusing		Accept	Amend as: " semi-quantitatively, for example: low, medium or high without manure inputs; high with manure inputs; full, reduced or no-till systems."
4_E_026	Abad Viñas, Raul	2	6138	6138	My understanding is that if data are available for the time series between 1990-2010 you have already the data needed for 1990, so it is not a solution for estimating 1990 data of carbon stock, to use the trend between 1990-2010. May be it wants suggest to use 2000-2010.		Accept with modification	The text has been updated and simplified for clarification.
4_E_027	Ambulkar, Archis	2	6148		Provide space i.e. "types. Tier..."		Accept	
4_E_028	Wang, Changke	2	6157	6230	1) The title of this section is inconsistent with the title in line 5946, but the two parts are of a parallel relationship. So, please replace 'CARBON STOCK CHANGES IN ORGANIC SOILS' with 'ORGANIC SOILS'. 2) 'carbon stock change' is introduced in this paragraph, but 'non-CO2 greenhouse gas' is in both line 6183 and line 6200. So, 'non-CO2' should be deleted. The reason are the N2O emission in cultivated organic soils should be calculated and reported under 'Agriculture', and the organic soil CH4 emission from rice cultivation should be done under 'CH4 emission in paddy fields'.		Accept	The title has been changed to Organic Soils.
4_E_029	Kasimir Klemedtsson, Åsa		6165	6166	Depth of the peat layer below the drainage depth do not influence the yearly CO2 loss, but shows the potential loss over decades to come if redrained.		Accept	Depth of peat deleted.
4_E_030	Kasimir Klemedtsson, Åsa		6168	6169	CH4 from ditches are not mentioned under 2.9.4.5, Will ditch CH4 be reported under Agriculture or LULUCF? Is it clear?		Accept	The reference to non-CO2 emissions from ditches was removed pending SBSTA decisions regarding methods for organic soils including application of 'Wetland Supplement.
4_E_031	Kasimir Klemedtsson, Åsa		6169	6170	What is a partial rewetted land? When fully rewetted? And if rewetted and the Wetland category is not choosen, then this areas would be reported within CM or other activity? Make it clear.		Accept	Partial was removed. Where or if reported will be country decision regarding CM definition.
4_E_032	Asada, Yoko	2.9.4.2	6183	6183	It's not clear whether non-CO2 emissions, which are not reported under Agriculture, and which may be involved in Tier 3, may be involved in Tier 1 or Tier 2.		Accept	tier 3 methods could estimate non-CO2 emissions which are not captured in tier 1 or 2 methods and they should be reported under Agriculture .
4_E_033	Iversen, Peter Aarup	2.10.1	6238	6330	This seem to be in conflict with this and chapter 1.2 line 412 to 415. I agree with the chapter 1.2 flexibility		Reject	If CM is a key category and woody biomass burning is significant, higher tier methods are most appropriate for estimating emissions.
4_E_034	Poddey, Eike	2.9.4.3	6238		Tier or tier?		Accept	Replace with tier
4_E_035	Kasimir Klemedtsson, Åsa		6243		This is confusing since N2O from SOM in organic soils are to be reported in the Agricultural sector. Risk for double counting or omission.		Accept	that it is confusing, but the Agriculture CRF tables do not have a place for reporting these emissions, so they have to be reported using the CM tables.
4_E_036	Asada, Yoko	2.9.4.4	6252	6260	Editorial: Number (iii) ~ (vii) are (i) ~ (v), and (viii) ~ (ix) are (i) ~(ii).		Accept	
4_E_037	Gyldenkaerne, Steen	2	6252	6261	check the numbering (iii,)		Accept	
4_E_038	Wang, Changke	2	6255	6255	Some words in line 6255 and 6775 are misnomers. Replacing 'cultivation of soils with high organic content' with ' cultivation of organic soils'.		Accept	
4_E_039	Gyldenkaerne, Steen	2	6263	6264	check the right allocation of the CO2 emission		Accept	text is correct
4_E_040	Wang, Changke	2	6265	6265	Replacing title 'The trade offs of synergies' with 'The trade offs and synergies'. The reason is parallel 'trades offs' and 'synergies' activities co-exist in context hereafter and in the two examples in Box 2.9.4.		Accept	

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4_E_041	Lundblad, Mattias	2	6274	6274	In footnote 150: Delete reference to Marrakesh accords and change to 16/CMP.1		Accept with modification	Add the reference to 16/CMP.1 in parenthesis after Marrakesh Accords.
4_E_042	Smith, Keith	2	6286	6289	Additional evidence for the occurrence of higher N2O emissions under no-till when conditions (e.g. wet soil/ poorer aeration) generally result in high rather than low N2O emissions is contained in Table 3 and Fig 3 of Smith, K.A. and Conen, F. 2004. Impacts of land management on fluxes of trace greenhouse gases. Soil Use and Management, 20, 255-263.		Accept	The reference can be added to the citation list.
4_E_043	Wang, Changke	2	6299	6784	'2.10 grazing land management' should be rewrite based on the greenhouse gas emissions characteristics calculation methods of grazing land. Most of the content of '2.10 grazing land management' copied '2.9 cropland management' (For example, Box2.10.2 copied Box2.9.1; Figure 2.9.1 copied Figure 2.10.1; line 6493-6500 copied line 5893-5900; line 6560-6565 copied line 5977-5982, etc.). However, due to grazing intensity, harvest, animal waste and plant structures and other reasons, the greenhouse gas emission characteristics in grazing land management and cropland management are different. So, '2.10 grazing land management' should not be directly copied from '2.9 cropland management'.		Reject	Wording was intentionally kept similar between sections 2.9 (CM) and 2.10 (GM) for consistency. There is nothing fundamentally different between estimation methods for CM and GM due to the nature of the activities.
4_E_044	Iqbal, Muhammad Mohsin	2.10.1	6305		Burning' is included as one of the management activities for grazing lands. While it is an important activity, it is not solely restricted to 'Grazing Lands'; it can occur on other type of lands also.		Accept with modification	These management practices under GM are removed from the definition list of practices added to 2.10.3 regarding identification.
4_E_045	Federici, Sandro	2.10.1	6312	6324	According with the 2006 IPCC Guidelines, a treed land that exceeds the forest definition is a forest land (see also your box 2.10.1) and therefore needs to be reported, if any, under either FM or AR. Grazing is not a predominant use over forest. Further, note that is it bizarre, and not consistent with hierarchy established in chapter 1 (lines 384-385) that an elective activity (GM) may take the precedence over a mandatory one (FM). So, Please redraft the entire text accordingly with the hierarchy established among KP activities in chapter 1 and among land use categories by the 2006 IPCC Guidelines (see also your text at lines 6366-6368).		Accept with modification	Reworded with reference made to section 1.2 regarding consistency of forest definitions
4_E_046	Poddey, Eike	2.10.1	6315		Please add "(FM)" to "Forest Management". If a particular category is addressed it should be done either with the abbreviation or the full name plus abbreviation.		Reject	Consistency in abbreviations is made throughout the document.
4_E_047	Poddey, Eike	2.10.1	6327	6328	This Sentence seems not to be coherent. "...the Party does not need to elect one of CM or GM activities." In the first part of the sentence it is said that the Party has already elected either a CM or GM...		Accept	
4_E_048	Iqbal, Muhammad Mohsin	2.10.1	6333		razing' may be changed to 'grazing'.		Accept	
4_E_049	Poddey, Eike	2.10.1	6333		...land under RV and "g"razing?		Accept	
4_E_050	Iqbal, Muhammad Mohsin	2.10.1	6352		estimated to not change' is suggested to be changed to 'estimated not to change'.		Accept	
4_E_051	Poddey, Eike	2.10.1	6356		"... and for reporting GM for the Kyoto Protocol." N2O, CO2?		Accept with modification	Reword as "The number of days of grazing within GM is included in estimates of N2O emissions from nitrogen deposited from grazing animals reported under Agriculture sector for national inventory reporting and for reporting CO2 emissions under GM for the Kyoto Protocol."
4_E_052	Iversen, Peter Aarup	2.10.2	6371	6371	small typo		Accept	
4_E_053	Poddey, Eike	2.10.2	6371		"as are" occurs twice.		Accept	
4_E_054	Guomundsson, Jon	2.10.2	6382	6408	Box 2.10.2. Harmonize presentation and mathematical symbols used in boxes 2.9.1, 2.10.2 and 2.12.2			See 4_E_009 under CM.
4_E_055	Abad Viñas, Raul	2	6430	6430	My understanding is that if data are available for the time series between 1990-2010 you have already the data needed for 1990, so it is not a solution for estimating 1990 data of carbon stock, to use the trend between 1990-2010. May be it wants suggest to use 2000-2010.		Accept with modification	See 4_E_010 for CM
4_E_056	Galinski, Wojtek	2.10.3	6446	6446	Footnote 153: Apply proper reference to CMP decisions (as applied in other similar references earlier in this document)		Accept	
4_E_057	Iqbal, Muhammad Mohsin	2.10.3	6449		The word 'either' is suggested to be deleted.		Accept	
4_E_058	Nielsen, Ole-Kenneth	2.10	6506	6507	It is unclear why the sentence reads "other pools". It seems that for perennial woody biomass it is good practice to report all pools, so it is unclear why the "other" is needed.		Accept	"other" removed and replaced with carbon.
4_E_059	Abad Viñas, Raul	2	6546	6546	According to the description of the figure 2.10.1, the decision tree is, to be use for selecting the appropriate tier for estimating carbon stock change in mineral soils, however in line 5511 and 6679 which are related to biomass/ dead wood and organic soils respectively, the text refers also to this figure in order to choose the appropriate tier. It would suggest changing the heading of the figure 2.10.1 to include also those pools.		Accept	Title and wording changed so generic to all carbon pools.

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4_E_060	Asada, Yoko	2.10.4.2	6556	6557	Editorial: "GM" is "CM", and "CM" is "GM" in the sentence.		Accept	
4_E_061	Abad Viñas, Raul	2	6652	6652	My understanding is that if data are available for the time series between 1990-2010 you have already the data needed for 1990, so it is not a solution for estimating 1990 data of carbon stock, to use the trend between 1990-2010. May be it wants suggest to use 2000-2010.		Accept with modification	See 4_E_010 for CM
4_E_062	Lund, H. Gyde	2	6665	6665	What does 'or others' mean?		Accept	"and others" removed.
4_E_063	Kasimir Klemetsson, Åsa	2.1 0	6689		Again this "Partial" rewetting, which is not defined.		Accept with modification	"partial" removed.
4_E_064	Poddey, Eike	2.10.4.2	6694		Tier or tier?		Accept	
4_E_065	Poddey, Eike	2.10.4.2	6711		Tier or tier?		Accept	
4_E_066	Poddey, Eike	2.10.4.2	6755	6759	Tier or tier?		Accept	
4_E_067	Asada, Yoko	2.10.4.3	6758	6760	In the draft, a Party "need to " use Tier 2 or Tier 3 to estimate non-CO2 emissions if these emissions in GM are key category. On the other hand, it's "good practice" for CO2 emissions. Suggest to use same description between non-CO2 and CO2 emissions.		Accept	"Parties need" changed to "It is good practice".
4_E_068	Poddey, Eike	2.10.4.2	6760		either "a" Tier 2 or "a" Tier 3 method?		Accept	
4_E_069	Poddey, Eike	2.10.4.2	6778		NH3: the 3 has to be placed low.		Accept	
4_E_070	Kasimir Klemetsson, Åsa		6783	6784	Only these two bullet points are applicable to the headline. The other text can be found elsewhere above.			This section deals with additional guidance on reporting allocation between Agriculture sector and GM
4_E_071	Poddey, Eike	2.11.1	6801		What does that mean? Separately reported or excluded?		Accept	It means «excluded» in the sense of the commentator. To avoid this misinterpretation of the sentence, the term «differentiated» should be replaced with «separated».
4_E_072	Lundblad, Mattias	2	6808	6808	In footnote 155: Delete reference to Marrakesh accords and change to 16/CMP.1		Accept	
4_E_073	Asada, Yoko	2.11.1	6817	6817	Editorial: The chapter number "2.11.2" is "2.11.3" in the sentence.		Accept	
4_E_074	Guomundsson, Jon	2.11.1	6819	6819	To what is the superscript 4 in front of RV referring to?		Accept	
4_E_075	Kato , Junko	Box2.11.1	6823	6823	The paragraph " <i>Japan</i> : Plantation of trees...urban areas." needs to be changed in to the followings, in accordance with the Japanese NIR for 2011 (<i>see Japanese NIR-2012 page 11-3, 11.2.2 Revegetation</i>), since the line 6827 in the same Box 2.11.1 says "As described in each Party's NIR for 2011." ; " <i>Japan</i> : Practices for the creation of "parks and green space", "public green space", and "private green space guaranteed by administration" which have been carried out in settlements since 1990."		Accept	The original text is replaced with the text written in the supplementary document.
4_E_076	Wang, Changke	2	6844	6848	Remote sensing technology should be added as a tracking technique.		Reject	This is not the place to be specific on tracking approaches. Remote sensing is dealt with in the sections indicated in the text chosen by the commentator as well as in other sections in the current supplementary guidance (e.g. 2.2.2; 2.2.4.3; and 2.2.6.2)
4_E_077	Poddey, Eike	2.11.4.1	6893		Tier or tier?		Accept	
4_E_078	Schrier-Uijl, Arina		6940	6944	Line 6940-6944: repetition of earlier phrases in the document		Accept	This is made on purpose for clarity.
4_E_079	Kasimir Klemetsson, Åsa	2.1 2	6942	6943	If not drained or rewetted since 1990, but still drained conditions during the year of reporting this will be reported under FM CM and GM. This could have been mentioned.		Reject	this is not relevant for WDR
4_E_080	Kasimir Klemetsson, Åsa		6942	6943	The word "Drained" is here somewhat unclear, since land earlier drained (before 1990) ditch management (ie clearance) can be allowed regularly, is this drained since 1990? Since this re-draining is a necessity of drained organic soils. Is "drained" a noun or a verb?		Accept	text has been clarified
4_E_081	Ambulkar, Archis	2	6945		Term "WDR" is already defined in line 104 of "Overview Section", so need not to be re-defined here		Reject	the definition is repeated for clarity
4_E_082	Kasimir Klemetsson, Åsa		6945		"can only be implemented on organic soils"; However rewetting an area which earlier was drained, but where all organic matter has disappeared, would thus not fit into this category. Why not?		Reject	WDR is subject to a CMP decision that cannot be deviated from in this guidance
4_E_083	Schrier-Uijl, Arina		6945	6946	Line 6945-6946: is it true that when implementing WDR the activity results in terms of emissions can be reported under any other category?		Reject	No, WDR is and activity and not a category
4_E_084	Schrier-Uijl, Arina		6946	6950	Line 6946-6950: it is perhaps better that definitions of the soils where WDR can be applied/implemented and be monitored/measured/reported (histosols/peat soils/peaty soils/organic soils) are being mentioned in chapter 1 or earlier in the 'general' part of chapter 2. Consistently use organic soil throughout the document.		Accept	text has been clarified
4_E_085	Asada, Yoko	2.12.1	6956	6957	Suggest to show examples of practices "outside" the area with organic soil that directly affects the hydrological system, leading to a change in the water table and its seasonal pattern in the area with organic soil.		Accept	text has been clarified by adding the example of groundwater extraction

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4_E_086	Kasimir Klemedtsson, Åsa		6958		"change in an existing drainage regime"; However as long as a land is drained (which needs re draining, but not necessarily a changed regime) the area will emit CO2 and N2O. The "change" is not needed.		Noted	but the Activity WDR is triggered by a change in the drainage status
4_E_087	Guomundsson, Jon	2.12.1	6959	6959	"partial rewetting" is not defined in Glossary and I was unable to find elaboration on what could fall under that definition. Does it include any raise in the soil water table or can it be interpreted to include temporal raise in soil water table e.g. during winter time or outside growing season?		Accept	with modification, text has been clarified
4_E_088	Guomundsson, Jon	2.12.1	6963	6965	"Abandoning the maintenance of ditches resulting in water table raise" Including this as rewetting activity may be justifiable in some cases but not others and needs to my opinion to be elaborated further on. As stated elsewhere (e.g. Lines 7056-7057 ch 2 this document) the organic layer of oxidised organic soils becomes shallower as time passes. This can result in the surface of the drained soil shrinking closer to the soil water table and the soil water table rising relatively to the surface even reaching the near-natural level of un-drained sites measured as depth from surface. Including these sites as rewetted would not include any avoided emissions as for sites with still some oxidised layer caused by the drainage remaining. This could possibly be avoided by restricting the soil water table rise to absolute rise not only relative to the surface. Second point regarding including abandonment of ditches maintenance is question of maintenance frequency baseline. If the general practice was cleaning ditches every ten years is the area included as rewetted in the eleventh year if no maintenance occurred?		Reject	emissions are related to the water table relative to the surface, not to the absolute level. Past emissions can indeed not be avoided anymore, but avoidance will start once the water table has risen. As soon as the effect of a management practice results in higher mean annual water table, avoided emissions may be accounted, provided they are significant and can be quantified.
4_E_089	Kasimir Klemedtsson, Åsa		6963	6964	Shall abandonment be a change but not maintenance?		Accept	Yes.
4_E_090	Schrier-Uijl, Arina		6964	6964	Line 6964: ' e.g. in areas with permafrost thawing is not considered to be direct human-induced rewetting': is in considered to be a natural phenomena? Then it should be mentioned in section 2.3.9 on natural disturbances/non-human induced rewetting and drainage.		Accept	text has been modified; natural disturbances are restricted to forest biomass
4_E_091	Federici, Sandro	2.12.1	6970	6970	Please, redraft as follows: "Emissions/removals from drainage and rewetting associated with a conversion from non-forested land to forest or from forest land to any other land use category, the land will be reported under A, R or D and methods for estimating GHG emissions and removals associated with drainage and rewetting will be applied".		Accept	text has been modified
4_E_092	Federici, Sandro	2.12.1	6971	6971	Please, redraft as follows: "Emissions/removals from drainage and rewetting of land subject to FM will be reported under FM and methods for estimating GHG emissions and removals associated with drainage and rewetting will be applied".		Accept	text has been modified
4_E_093	Schrier-Uijl, Arina		6973	6973	Line 6973: '.....reported under WDR only when the above-mentioned.....is elected': and otherwise WDR can be reported under CM, GM or RV?? Or is it really true that if CM, GM or RV is being elected as activity e.g. on peat soil, emissions related to WDR can not be reported? In that case we oppose against this structure. \		Noted	the practices drainage and rewetting may occur in other activities, but not the activity WDR
4_E_094	Hargita, Yvonne	2	6974	6975	As the flooding of land can lead to significant methane emissions (and water bodies are a subcategory of wetlands) this leads to a possible underestimation of emissions.		Noted	the 2006 Guidelines and the Wetlands Supplement do not provide guidance on flooded land (reservoirs)
4_E_095	Schrier-Uijl, Arina		6974	6974	Line 6974: ' flooded land is not included under this activity'. What exactly is the definition of flooded land. Shallow water bodies with water table x-x? Depending on the definition, the drainage-ditch emissions factors could perhaps be applied for shallow water bodies.		Noted	flooded land is defined in the 2006 Guidelines (Vol. 4, Ch. 7)
4_E_096	Poddey, Eike	2.12.1	6983		Tier or tier?		Accept	
4_E_097	Galinski, Wojtek	2.12.2.1	7054	7054	Is it possible to provide a more concrete guidance here on how to classify this piece of land? It should not be difficult as many options are already rejected.		Accept with modification	text on land identification has been modified
4_E_098	Guomundsson, Jon	2.12.2.1	7057	7058	The shrinkage of the soil organic layer can result in surface subsidence near to the soil water table comparable to the level in undrained sites. According to lines 6963 -6965 those sites would account as rewetted.		Noted	
4_E_099	Guomundsson, Jon	2.12.2.1	7061	7072	Box 2.12.2. Harmonize presentation and mathematical symbols used in boxes 2.9.1, 2.10.2 and 2.12.2		Accept with modification	boxes have been harmonised as far as possible
4_E_100	Schrier-Uijl, Arina		7061	onwards	Lines 7061 onwards, fig 2.12.2: if the area of organic soil has decreased in the commitment period a) b, with updated maps, RS, ground truthing etc a country shall have the choice to account for this/report this? If peat has disappeared, peat emissions will stop, accounting for it would be not the reality. In STEP 1 under section 2.12.2.2 it is suggested as good practice to demonstrate conversions of peat soil to mineral soil.		Accept	
4_E_101	Guomundsson, Jon	2.12.2.1	7071	7071	The conditions of the hatched area are not consistent with the drawing. The area hatched is (a')c)-d).		Accept	text has been modified

<Review comments by experts on Second Order Draft of KP Supplement: Sections 2.9-2.12>

ID	Expert (Last Name, First Name)	Chapter/Section	Start Line	End Line	Comment	Supplementary documents	Authors' Action	Authors' note
4_E_102	Wang, Changke	2	7074	7074	The conclusion, 'drainage and rewetting of organic soils can lead to large changes in greenhouse gas emissions per hectare', is a key conclusion. It should be some related literature should be added after it.		Accept	
4_E_103	Poddey, Eike	2.12.2.1	7078		two dots		Accept	
4_E_104	Wang, Changke	2	7079	7079	Based on the above context, the word 'countries' in this line refers to "Parties. Replacing 'countries' with 'Parties'.		Accept	
4_E_105	Federici, Sandro	2.12.2.2	7086	7141	In chapter one the "difference method" and the "change method" are called the broad and the narrow approach; the two sections need to be made consistent in the language, Further, I suggest not using the word "difference" and "change" since their meaning tends to overlap.		Accept	the text has been modified
4_E_106	Schrier-Uijl, Arina		7086	onwards	Lines 7086 onwards, section 2.12.2.2: shall detection/identification of fire(-hotspots) be implemented as a step?		Accept with modification	Fire is important but has been included in the section on emission estimates.
4_E_107	Tuomainen, Tarja	2.12.2.2	7086	7141	Two methods to identify WDR lands are presented. Do these methods have a connection the 'narrow approach' and 'broad approach' as are discussed in the other section of this guidelines.		Accept	the text has been modified
4_E_108	Schrier-Uijl, Arina		7108	7108	Line 7108: Eventhough 'approaches 1,2,3' are possibly described elsewhere (where exactly? Reference to it?), its maybe good to briefly describe these approaches in the beginning of section 2.12.2.2		Accept	Reference has been added.
4_E_109	Gyldenkaerne, Steen	2	7143	7198	Please read the text carefully. According to 2/CPM.7 is only organic soils included in WDR. It look like 2.12.2.3. says "events one hectare or larger". Please specify if it is the organic area which shall be one hectare for each area or this include the whole area inclusive mineral soils. Please clarify.		Accept	Text modified
4_E_110	Schrier-Uijl, Arina		7143	7143	Line7143: 'a country that elects WDR.....of all drainage and rewetting events.....': 'Events' is perhaps not the right word here since emissions from drainage are continues over time. Suggestion: '...must identify geographical boundaries of all drained and rewetted land since the base year'.		Accept	Text modified
4_E_111	Schrier-Uijl, Arina		7177	7177	Line 7177, section 2.12.2.4: stratification can be reassessed (e.g. updating the proportion mineral and organic soil in the delineated area) during the commitment period, this shall be added as a comment? Besides, fire needs a separate stratification, this could be mentioned in this section.		Reject	This is a misunderstanding of the term "stratification". Stratification does not mean that there are stable geographical units with fixed characteristics, but rather that there is a homogeneous set of areas with time-varying size, that fits to the emission factors. Fire can occur in any stratum and affects carbon pools.
4_E_112	Schrier-Uijl, Arina		7182	7182	Line 7182: ' drainage regime (waterlevel, seasonality),.....change-method': with 'open water (borader)' or 'drainage ditches (narrower)' being a separate stratum.		Reject	The ditch area fraction can be applied to any stratum, and can be used as one criterium at higher Tiers. So far, at Tier 1, there is no guidance supporting that ditch type would require a separate stratum.
4_E_113	Asada, Yoko	2.12.2.4	7184	7191	Editorial: Number (iii) ~ (vii) are (i) ~ (v).		Accept	
4_E_114	Schrier-Uijl, Arina		7202	7202	Line 7202: '...on lands...'. Maybe rephrase because with this wording drainage ditch (which is NOT land) emissions and DOC losses are excluded. Suggestion: '...on areas....' (which includes also non-land).			ditches are certainly also 'land'
4_E_115	Asada, Yoko	2.12.3	7210	7211	In the draft, it is good practice to estimate and report greenhouse gas emissions from drained lands and from rewetted lands under WDR separately. In Japan, drainage and rewetting are repeated several times in a year for rice field management. Suggest to clarify the treatment of such practices.		Accept	The definition in chapter 2.12. has been clarified that drainage and rewetting refer to a change in mean annual water table, not to seasonal fluctuations.
4_E_116	Poddey, Eike	2.12.3	7253	7254	There is something the matter with the sentence structure.		Reject	Grammar is fine.
4_E_117	Abad Viñas, Raul	2	7264	7264	In the table, for FM, CM and GM, the second part of paragraphs says that "all the emissions and removals from those activities on organic soils drained or rewetted since 1990 are reported under WDR if that activity is elected". This sentences seem contradictories with the fact that WDR (if elected) only applies to land on organic soils that have been drained and rewetting since 1990 and that are not subject to any other mandatory or elected activity under Article 3.3 or 3.4. (i.e. as is written in lines 6991-6995). I would suggest reformulating these paragraphs.		Accept with modification	The table repeats the information in Box 2.12.1 and has been deleted.
4_E_118	Gyldenkaerne, Steen	2	7264	7265	Check the wording/references in the table. Under Agriculture is written that CO2 emissions from Urea and liming are reported under the sector Agriculture. In the current reporting (2013) we are reporting CO2 from Urea and Liming under LULUCF. Where will that be in the new AFOLU reporting (beyond 3C2 and 3C3)?		Accept with modification	The table repeats the information in Box 2.12.1 and has been deleted.
4_E_119	Nielsen, Ole-Kenneth	2.12	7264	7265	The description of FM is confusing. The decision tree states that if any area is included in FM (or an elected activity) it is not eligible for WDR, so it is difficult to understand the text in table 2.12.1. Also, shouldn't the text for RV be similar in structure to CM and GM?		Accept with modification	The table repeats the information in Box 2.12.1 and has been deleted.
4_E_120	Schrier-Uijl, Arina		7264	7264	Lines 7264 onwards, table 2.12.1. Check if emissions from drainage ditches, DOC losses and off-site emissions are fully included as sources/sinks.		Accept with modification	The table repeats the information in Box 2.12.1 and has been deleted.

<Review comments by experts on Second Order Draft of KP Supplement: Sections 2.9-2.12>

ID	Expert (Last Name, First Name)	Chapter/Section	Start Line	End Line	Comment	Supplementary documents	Authors' Action	Authors' note
4_E_121	Lund, H. Gyde	References	7576	7576	Here and elsewhere - should the volume of the journal be in bold as shown on this line or not bold as line 7542 and elsewhere?		Accept	
4_E_122	Schrier-Uijl, Arina				Line 6839: 'Generally, all lands subject to RV since 1 January 1990 should be tracked in agreement with the national criteria that establish a hierarchy among Article 3.4 activities (if applicable) as explained in Section 1 of this report'.		Accept	