Template for comments

Date: 10/11/23 Document: ACERD's inputs

TABLE FOR COMMENTS

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#	Para No./	Line	Type of	Comment	Proposed change	Assessm
	Annex /	Numbe	comment	(including justification for change)	(including proposed text)	ent of
	Figure /	r	ge =			comment
	Table		general			
			te =			
			technical			
			ed =			
			editorial			

emplate for comments	Date: 10/11/23 D	ocument: ACERD's inputs
1 3.1 7 ed Globa represents emission e	 2.4 billion rely on polluting cooking fuels and technologies ng an urgent environmental, health and socioeconomi issions from burning wood fuels account for 3% of global, akin to the impact of the aviation industry. universal access to clean cooking by 2030 will require an \$8-10 billion annually. Current commitments stand at a merron each year. While clean cooking projects have helped ain access to clean cooking fuels and technologies in the de, the absolute number of people without access to clean coutpacing the rate of growth. Carbon market funding ha isential for scaling access to clean cooking, especially to households in Sub-Saharan Africa and Southeast Asia. end Bailis et al. for their impressive effort in establishing new or the fraction of non-renewable biomass (fNRB) in 4 in Sub-Saharan Africa. we must ensure that a greater sophistication in statistical is matched with the most relevant local data inputs, includin chnology and ground-sourced data. Globally, the data gap calculations are wide, and we call on host countrints, researchers, and funders to take up this challenge. ral points from the project developer perspective include: andardising fNRB approaches: The UNFCCC and the gistries and standards bodies to work together to align or idelines for the application of new fNRB defaults, and a field approach for existing projects and credits that use DOL 30. gaging host country governments: Now more than evel ange, under the canopy forest degradation from woor liection, and fuel demand for cooking. We commentiatives like those from the Government of Ghana to the set of good local data inputs into forest cover ange, under the canopy forest degradation from woor liection, and fuel demand for cooking. We commentiatives like those from the Government of Ghana to the group of the set of good local data inputs into forest cover ange. 	y We recommend the comment period be extended from 10 November 2023 to 30 April 2024.Proposed text: In response to stakeholder comments, the committee will extend the deadline for commenting on fNRB from November 2023 to 30 April 2024. Proposed text: The CDM MP shall consult directly with Host Counties on the estimation of demographic and wood fuel consumption data, forestry data and charcoal supply chain data. Proposed text:The g quantification of demographic and wood fuel consumption data can be sourced from updated Host Country approved DHS or Census data.

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	 commission more research to gen the MoFUSS model. Moving governments should be consulted contexts. Peer-reviewing data inputs and MoFUSS tool has been peer-revigood as the data inputs. There interrogation of the latest data secalculate these defaults. To recommend a full peer-review b implemented. Towards higher integrity: As a move towards higher integrity a Greater confidence in accurate, could translate into higher price cooking fuel carbon credits. Avoiding carbon tunnel vision: may provide buyers with greater or caution against carbon tunnel vision: may provide buyers with greater or caution against carbon store the carbon stored in fast-growing the net biomass in a landscape, with at protect old forests, valu biodiversity. In a world that has all heating, and with no credible path target, we question the logic of defor cooking a "sustainable" or "re". Keeping sight of the impact: A clean cooking – will require fundin scale. Carbon markets were sustainable development, in addi gas emissions. Given the proviocooking, we call on the global sufficient funding remains availate 	Date: 10/11/23 perate the best data inputs of forwards, host could as experts in their own later assumptions: Although iewed, any model is only e is a need for a thoro- ets and assumptions use ensure best practice, efore new fNRB values an industry, we support across the carbon mark locally relevant fNRB values an industry, we support across the carbon mark locally relevant fNRB numbre es for cookstove and cl while lower fNRB numbre to cookstove and cl while lower fNRB numbre ision. The fNRB calcula d in old growth rainforest saplings. By only assess we risk underfunding project able trees, and prese ready reached 1.2 degrees way to the 1.5 degrees Pre- to the universal access g and cooperation on a mention to reducing greenhours to no to reducing greenhours to no sDG benefits of cl community to ensure be for high-impact cookst	bocument: ACERD's inputs	
	gas emissions. Given the prov cooking, we call on the global sufficient funding remains availab projects, best in class techno programmes. All families dese cooking.	ren SDG benefits of cl community to ensure le for high-impact cookst logies, and fuel transi rve access to safe, cl	ean that toove ition ean	

Templa	emplate for comments				Date: 10/11/23	Document: ACERD's inputs
2	Paragraph 1 Paragraph 2	1 1	ge	The MoFuSS tool, estimates non-renewa function of population data and estimated Notably, the use of default wood fuel con capita per year, as homogenized estima across the continent. The tool also rel demographic distribution, which is not an demographic data 5 years since, and wh national geographical data. An opportunity here exists for Host Countri demographic and biomass consumption tracked to varied degrees in most Host C survey data. Host Countries should also provide data of Host Countries maintain data on protected biomass depletion and regrowth rates over should be incorporated into the modelling the MoFuSS tool. Host Countries are protection of these biomass stocks and meaningful contributions to their estimat national and regional fNRB estimates.	bate: 10/11/23 ble biomass primarily a d fuel consumption meti sumption of 0.4 tonnes ation of wood fuel dem ies on 2018 UN data accurate representatio nich lacks specificity in es to provide more accu data as both variables countries DHS and Cer on forestry biomass stored and non-protected for er a long time period will of renewable biomass us primarily tasked with should be able to pro- tions and contributions directly with Host Count	Document: ACERD's inputs ans a Proposed text: rics. per The CDM MP shall consult directly with Host Countries for on the estimation of mode demographic and wood fuel consumption data, forestry data and charcoal supply chain data. rate are Proposed text: The quantification of demographic and wood fuel consumption data can be sourced from updated Host Country approved DHS or Census data. rineh rines
				and afford Host Countries and Project de nationally approved data sets to augment data models where applicable	evelopers the option to or supersede the MoFu	use ISS
3	3.1	3	ed	The CDM EB is requested to consider revis for the full carbon benefits of avoided bioma cooking and water purification. At present, emissions reductions from avoided consumption, but this misses the sequesi biomass, and thus is an underestimation of In the case of a clean cooking project active rate of 0.4:	sing its approach to acco ass consumption from cl the methodologies comp non-renewable biom tration potential of stand of the climate benefits. ity with an established fN	Dunt Editorial Comment (no ean proposed changes to poute Information Note) ing IRB Information Information

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				 40% of the woody biomass avoide woody biomass consumption in the renewable, as such, emissions reconfunction of the GHG avoided from renewable biomass. 60% of the woody biomass is replication biomass consumption is avoided, tree growth above the baseline emissions which cannot be accompublished and approved emissions for clean cooking and water purification of woody biomass prevents the stot this renewable portion was not cut down at above replacement rate (instead of replacement rate, i.e., "renewal" rate), sequestration. This would mean additionation cases additional trees growing. 	d (as a function of redu le project scenario) is r ductions are computed a the combustion of the r newable, but because it creates some amoun . These are sequeste ounted for in any of s reductions methodolog ation projects. MP is requested to prov rvesting of the "renewa rage of additional carbo at all, then trees would g just regrowing at exa creating additional car al limb growth, or in so	ced on- s a on- this t of red the jies ide ole" h. If row ctly pon me		
4	3.1 And Appendix 1	5&6	te	The use of artificially low fNRB values a ensure conservativeness does not guarant offset. Integrity must be measured based of activity's emissions reductions claims. A clear example of this, was the hitherto a fNRB value. Based on the latest CDM default was not an accurate assessment of project level, as 24 of the 43 the Countrie MoFuSS tool, had national defaults greate prescribed, with some markets at double th	as a corrective measure tee the 'integrity' of a car on the accuracy of a pro pproved 0.3 "global defa MP Information Note, f this parameter value at s assessed using the la r than the default previo he default prescribed.	to Proposition ect Appendification fraction biomas ult" 1. Cou this 35. Tal the prelimi est fNRB v isly level for countri Africa v for us validati the Mo data se	ed text: dix 1. Values for of non-renewable is ntry-level bles 1 below provides nary results of the values at the country or 43 es in Sub-Saharan will only be applicable e upon a complete ion and verification of pFuSS tool and the ets that support it	

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5	3.2	10	ge	The Information Note states that the model was run for 43 countries in Sub-Saharan Africa. Can the MP confirm if there any timelines when	(Request for information – no proposed amendment)	
				the fNRB value for the remaining countries/regions will be available?		
6	3.2	11 (c)	te	 The Information note claims in paragraph 11(c) that TOOL30 only considers accessibility by excluding protected areas from consideration of biomass supply noting that the MoFuSS model also accounts for protected areas but goes further by considering physical accessibility based on topographical features and the effort that woodfuel users must expend to access sources of woody biomass. The PD differs from this position, noting that TOOL30 does define geographically remote areas as non-accessible as well. These are based on proximity to roads and rivers: where the distance is beyond the average distance travelled to collect fuelwood (based on national studies, peer-reviewed literature, or surveys in the project area). The MoFuSS approach of using travel "friction" maps is good but does not consider the national-level behavioural information to determine the threshold of distance travelled to collect fuelwood. Accessibility The PD further notes that the UNEP and the AU have assessed many countries in sub-Saharan Africa and found that the average time spend collecting fuelwood is less than 3 hours, with wide variation between countries (https://wedocs.unep.org/20.500.11822/28515). In contrast, the MoFuSS approach effectively assumes a 24-hour woodfuel collection threshold (https://www.nature.com/articles/nclimate2491), which significantly increases the "accessible" area and dilutes the impact of 	Editorial Comment: The PD wishes to clarify how the CDM MP will resolve these contrarian positions in the time spent collecting fuel wood and its subsequent implications on fNRB computations.	
				unsustainable consumption by spreading it evenly across an unrealistically large extent of the forests, resulting in a much lower fNRB estimate.		
7	3.2.1	13	te/ed	We note that the model uses biomass data from 2010, and then forecasts biomass growth from there. At present there does not appear	Editorial Comment:	
	And			to be any cross-reference to current satellite or LIDAR data to validate the growth models.	We recommend the 2010 data sets and assumptions	

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	Appendix Page 19				are validated prior to adoption of the new national and sub national default in Appendix 1.	
8	3.2.1	13	ge	 Some of the data sets used in the estimation of biomass stocks have not yet been validated. Referencing the Information Note: "The maps vary in year and uncertainty, as well as the heterogeneity of data quality (e.g., some maps have been well-validated in moist tropical regions but have greater uncertainty in dry forest regions). The choice of map will lead to different values of initial biomass stock, which can vary widely across different land cover types and subnational administrative areas." The PD wishes to clarify what if any protocols the CDM EB or MP will employ to validate these data sets prior to the adoption of the set default fNRB estimates. The production of charcoal is an important eco-system service of tropical dry forests and shrublands and any uncertainty in the primary data in these land areas as well as the rates of degradation in these eco systems can have substantive impacts on fNRB computations. 	Editorial Comment: MP/ External Experts to clarify how data sets will be validated	
9	3.2.1	13	te/ed	The dataset identified indicates above-ground and below-ground biomass. It should be made clear whether the growth curves and maximum values are based on total above-ground biomass or woody above-ground biomass. The former may lead to some overestimation in grassland ecosystems. If this is already considered, then this needs to be made clearer.	Editorial Comment: MP/ External Experts to clarify by what means the growth curve and maximum biomass are calculated /what is the total pool they represent. If this is not woody biomass only, then the appropriateness of the dataset may need to be reassessed	
10	3.2.1	13, 14, 15	te	This section provides less context for forest degradation – e.g., from under the canopy harvesting. It also fails to differentiate the carbon storage potential of new growth trees and saplings vs. old growth trees. Theoretically the model could allow for total denuding of old	Proposed Text: Locally sourced data on a project-basis can inform the	

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		growth trees in an ecosystem favour of replacement by young saplings or alien invasive species; and still retain the same fNRB. What looks to be a forest from a satellite may actually be a heavily degraded landscape.	degradation of forests caused by wood harvesting.	
		Satellite images may show ground cover but be unable to measure below-canopy degradation. Additionally, they may attribute the same carbon sequestration value to new growth as old growth forests, where this is clearly not the case. Extensive localized harvesting is taking place can have a significant impact on fNRB which is not accounted for in the model; whereby increasing the uncertainty of the calculations.		
12 3.2.2 & 1 Appendix 2 page 24	16 te	To estimate the quantity of wood and charcoal consumed, the updated default fNRB assessment relies on two simple parameters: the number of users the amount of fuel per user. The number of wood and charcoal users is based on (the) WHO's recently updated "Global Household Energy Model", which projects the number and percentage of people using primary household cooking fuels in rural and urban areas of low- and middle-income countries. Note that this assessment considers consumption o primary fuel type only and does not account for the consumption o secondary fuels (e.g., wood and charcoal). This represents a potentially significant under-estimation of the domestic biomass consumption. Households will typically use multiple fuel types in the baseline scenario (wood and / or charcoal), as stacking is widely researched concern in the clean cooking industry. Biomass demand was modelled using the default value currently recommended by the UNFCCC for wood fuel projects, which is 0.4 tons of wood per capita. Assuming a global default of 0.4 tons of wood per capita is a blunt tool – project developers conduct far more rigorour assessments of fuel use at the household level in their baseline assessments. Many have found consumption far exceeding the globar default succested	Proposed text: Project developers should be allowed to employ more accurate, localized project- level assessments, or regional or sub national wood fuel consumption values of biomass fuel use. These could be sourced from host country governments or from verified project data to inform the fNRB calculations for their project area. Baseline assessments of fuel use can be utilized in the calculations to improve accuracy, including accounting for consumption of secondary fuels.	

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In ad Saha (dete tons Healt The F rates profile poten cooki clarifi Are p fuel volun metho comp The F allow MoFu clarifi any, o defau	dition, note that the default value applied is less than the Su ran Africa ("SSA") reported value of 0.87 tons of wood per cap mined via a cross section of registered CDM PDDs) and 0. of wood per capita from the UN & national Demographic a in Surveys (DHS). PD also notes that the use of default per capita wood consumpti also implies a homogeneity in wood and charcoal dema es across countries and regions which is conservative, b tially inaccurate, often as a function of the wide heterogeneity ing practices and household sizes. prompting two speci- cations: roject developers allowed to use regional or sub national wo consumption values, determined using approved CDM tary carbon registry (i.e., Gold Standard, VERRA et bodologies for the estimation of biomass consumption in t utation of fNRB? PD notes that the current iteration of the MoFuSS tool does r for this (datasets outside those built in the current version SS) but subsequent iterations will. As such the PD see cation on how PD assessed values can be applied and what cross-checks will be required for the PD to prove against the s It values applied in the information note.	b- ta 59 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50	
13 3.2.2 17 te The r does comn brewi 11 10 10 10 10	nodel focuses primarily on residential wood fuel demand a not count wood harvesting for any other purpose (i. hercial energy and non-energy biomass consumption – e.g., be ng, shea butter, tobacco curing). note indicates that industrial roundwood has been omitt use it contributes to <10% of wood demand in most cases. T at on the fNRB value this omission makes needs to be presented	nd Proposed Text: e., er The model can be modified to include alternative sources of demand ed d,	

empla	te for com	ments		Date: 10/11/23 Do	cument: ACERD's inputs	
				considerable omission. In addition, the FAO dataset is global and so it fits within the generalised approach taken in this study.		
14	3.2.2	18	te	[See comment 6 above] We seek clarification on the accessibility modelling for wood collection		
15	3.2.2	18	te	 The MoFuSS tool's correlation between population densities and wood fuel consumption rates for wood consumption presents fewer uncertainties, as most wood is consumed within few kilometers of a household's geographical location in many rural demographics. However, as charcoal is often sourced from further afield and across boundaries, the application of sub-national default values is more obscure. The MoFuSS tool attempts to solve this problem by using "Friction" maps. The friction maps represent the effort that wood consumers must expend to travel to a given supply area. The limitation to this approach is that charcoal manufacture & transportation is largely illegal or unregulated with little to no data available. The PD seeks clarity on the weights placed for friction maps for charcoal consumption between national and sub national boundaries on road networks. This limitation was also recognized in the information note as follows: "The MoFuSS model can accommodate transnational trade; however, it is difficult to model because there is no reliable data to verify the results. In addition, for this analysis, Africa was divided into four subregions (East, Central, Southern and West) to reduce the computing time necessary for each modelling run. Thus, while transborder trade could occur between countries within each region, it could not occur between countries in separate regions, even if they share a common border." 	Editorial Comment: The CDM EB is requested to provide guidance on a mechanism to allow for variable accessibility rates dependent on project- specific conditions and adjust calculations for different fuel types; e.g. charcoal vs. wood. In particular, we seek guidance on how sub- national fNRB numbers can be applied to charcoal projects, given charcoal is sourced remotely from the location of households / project interventions.	

Fempla	te for comr	nents		Date: 10/11/23	ocument: ACERD's inputs	
				term biomass consumption trends. Charcoal regulations, in Kenya frexample, have had two significant changes to the value system based on the Forest Regulations of 2009 and the illegal harvest ba of 2017. These policies had dramatic impacts on charcoal production and consumption patterns in Kenya and her neighboring countries. The PD seeks clarification on how the policy changes have bee modelled to impact in the business-as-usual wood fuel consumption model or the other scenarios that the MoFuSS tool employs.	or is in in n	
16	3.2.3	19	ge	The broad assumption of 70% of deforestation by-products being use for wood fuel needs to be further substantiated in the report.	Please provide logical reasoning to the choice of this assumption.	
17	3.2.3	21	ge	Previous modelling by the same authors, suggested that the fNRB f the Caprivi Strip in Namibia has an fNRB of 83.1%. The only factor th distinguishes this area from neighbouring regions in Zambia (Wester 33% and Botswana (Chobe) 45.3% and Botswana (Ngamiland) 47 is the fact that it is enclosed by national boundaries. So, the author own studies acknowledge that, where wood fuel collection is localize (here limited supposedly only by national borders), high levels of fNR are possible in line with many TOOL30 assessments. As proje developers operating in these regions, we do not see the wood collection behaviour of villages in the Caprivi Strip to be any differe to neighbouring villages in Zambia or Botswana. The nation boundary is artificial in this context, as households fuel collection habits mean that they simply collect wood fuel from the neare available location. So, villages in Zambia do not travel excessind distances to collect wood fuel, they simply obtain the closest availab fuel. This practice is inherently unsustainable and leads to very hig localized levels of fNRB in collected fuel on both sides of the border	ar Proposed text: at Project developers can assess (during the baseline/ex-ante stage) the accessibility of biomass and how biomass is harvested to ct improve accuracy of the fNRB in harvested biomass. This can be based on al assessments of how far households must travel to st collect wood fuel, for example.	
18	3.2.3	21	ge	At present the computational power required for the MoFUSS mod is too great to run the whole of Sub-Saharan Africa together. Instea the numbers presented represent Sub-Saharan Africa run in fo segments. This creates artificially high fNRB values in Rwanda ar Burundi as the model is currently unable to account for cross-bord trade with the DRC.	el Editorial Comment: d, ur We recommend the model is run with all Sub-Saharan Africa in one unit to properly account for cross-border trade.	

Fempla	mplate for comments				Date: 10/11/23	Document: ACERD's inputs	
19	3.3	28	ge	Understanding the high variability of fNRB i The authors rightly state that "countries ha large differences in population density and high NRB in close proximity to populated r unpopulated regions." This potential for hi populated human habitation is not accurate and can only be achieved via localized, pro	is crucial in its assessme ave sub-national units w d accessibility. So, we s egions and low NRB in gh-levels of fNRB close ly captured in the modell oject-level assessments.	nt. Proposed text: ith It should be recognized that ee the inherent variability of he fNRB is not represented by to the model, and that project- ng level studies can increase the accuracy of the calculation. Therefore, there should be flexibility in the way that Project Developers can calculate project- specific fNRB rates that captures this variability more effectively using localized data on biomass fuel use and harvesting	
20	Appendix 2, page 26	Quantif ying Consu mption	te	It is noted that Latin American countries va annual consumption of woody biomass pe the world. Applying an average to the si Latin American countries.	ary dramatically in avera r person vs other areas mulation unfairly punish	ge Proposed text: of es Guidance shall be provided to developers on how to incorporate variability in annual consumption of woody biomass per person.	
21	Appendix 2, page 36	Paragra ph 5 Use of defores tation by product s	te	The model can simulate future tree cover lo drivers unrelated to wood fuel demand, suc It can be assumed that if wood fuel is expansion, it eliminates gathering of woo harvesting areas. Agricultural expansion consumption should contribute to non-rene	oss that might be caused h as agricultural expansion generated by agricultu of Fuel in other reachat that delivers wood fuel ewability.	by Proposed Text: Guidance shall be provided ral to developers on how to ble incorporate wood fuel from for agricultural areas in the non-renewability category.	
22	Appendix 2, page 37	Paragra ph 1	Te/ed	For this assessment, friction was increased the likelihood of wood harvesting from prot that of unprotected areas with similar terrai We suspect that harvesting of woodfuel fro higher than this assumption.	d by 90% which means t tected areas was only 10 n. In protected areas is mu	hat Editorial Comment: Review "friction factor," all protected areas are not ch equally difficult to access for both self collection and commercial extraction.	

Femplate for comments					nte: 10/11/23	Oocument: ACERD's inputs	
						Proposed text: We will review harvesting of woodfuel from protected areas.	
23	Appendix 2, page 38	Paragra ph 3	te	The provided Google Drive for the fNRB nu scenarios that can be broken down into two r on interventions Business as Usual vs After In Why are the numbers having significant differe if the model is fed with alternative data (up to c How does increasing the forecasting period a performance?	umbers has 6 differe main categories: Base itervention. ences & can this chang date)? affect the model outp	nt Proposed text The tool and methodology should be designed to allow for the incorporation of alternative data sources. Input parameters should be made easily available for review. The model/ tool should have an assessment metric for tracking the effect of increasing or reducing the forecast period.	Commented [GU2]: Unclear what the two main categories are. Please adjust sentence. Commented [GU3]: Unclear as to what the question is. Please reword.
24	Entire document	-	te	The MoFuSS model is a complex system requinputs, each characterized by varying resolution unique level of uncertainty. Further complexity resolution adjustments. Furthermore, understanding the potential relatinputs is crucial to minimize variations in estiting the report does not include an assessment of input variables to determine their interdepended. Certain MoFuSS model inputs, such as pop aboveground biomass, are derived from estimated or projected data introduces notablito the use of published data. The inherer estimation model can lead to inaccuracies, pot estimation. In contrast, the utilization of publish these uncertainties.	uiring numerous spat ons, each contributing arises from the need f ationships among the imations. Unfortunate f collinearity among the encies. oulation distribution an predicted data. Usin le disparities comparent uncertainties in the tentially impacting fNR shed data helps mitiga	al The document should ts include a description of any required resolution adjustments and related assumptions. Additionally, it is advisable to conduct a collinearity assessment of the input variables to ascertain potential relationships among them. This assessment can significantly aid in reducing variations in AGB, te consumption, and fNRB estimates. The report should feature a dedicated	

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				Assumptions regarding input data for future uncertainties. For instance, assuming tha change only in size and not in spatial distrib percentages of fuelwood users remain cons future predictions of population and consum	estimations can introdu at rural and urban are ution over time or that i stant over time can aff ption patterns.	ce section outlining the results, as conclusions, and practical applications of the collinearity assessment. Furthermore, for inputs derived from estimations or predictions, a process of verification is essential. Descriptions of the verification methods and the resulting accuracy of the data should be included in the report. Moreover, it is important to establish justifiable assumptions regarding changes in population and consumption dynamics over time to improve the robustness of future predictions.	
25	Biomass stocks p. 19	Entire section	te	The 2010 above-ground biomass (AGB) n input for the fNRB calculations require a v process to establish their accuracy. These 2010 AGB maps served as the found AGB levels up to the year 2050 through the harvest functions. The reliability of these dependent on the accuracy of the basel inaccuracies in the baseline AGB data can be future estimations.	naps utilized as basel verification and validat lation for estimating futu application of growth a se future estimations line AGB data. Poten ead to inaccuracies in the provide information ab-	neA validation and verification assessment of the 2010 baselineonassessment of the 2010 baselinebaselineAGB maps sourced from WCMC should be carried out. The report should incorporateoraddicated dedicatedisdedicated discussing the accuracy of these AGB maps.Furthermore, it is essential to provide information on the modeloutfully	

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	does it suggest any background reading researchers express their intentions to refir work, the current estimates may potential could have an impact on the fNRB assess	for such details. While ne AGB estimations in fu ly contain inaccuracies ments.	the employed in predicting future AGB values in the report. This will enhance the transparency and reliability of the fNRB assessments.		
26 Biomass growth functions p. 21 Entire section	A growth function is applied to the 2010 growth from 2010 to 2050. This function maximum growth rate (rmax), and maximum As previously mentioned, the inaccuracy the potential to affect these calculations. AGB stock values used in the growth fun 2010 WCMC maps. While a study has I standard deviations of the rmax and K va classes to mitigate variation, using the corresponding land cover and ecolog overestimations of biomass growth. The source and accuracy of the growth fun document, highlighting the need for valida Additionally, a sensitivity analysis of the fNI was conducted as part of the study, Consequently, uncertainties originating significantly impact the fNRB estimations.	AGB to estimate biom on relies on current A im woody biomass (K). of the 2010 AGB data Furthermore, the maxim oction are sourced from been conducted to prov lues for different land co maximum growth rate ical zones may lead action are not reported in tion and verification. RB to the rmax and K val revealing high sensiti from these inputs	ass GB, assessment for validating and verifying the AGB maps is crucial not only for the AGB but also for the accurate estimation of maximum AGB stock.has num the videMoreover, utilizing total, primary, and tree cover gain data to estimate the portion of stand aged below and above 20 years and applying the corresponding growth rate values for different stand ages can enhance the accuracy of growth estimations.ues vity. canIt is imperative to conduct an assessment for validating and verifying the growth for validating and verifying the growth function, and the report should encompass a dedicated section addressing the accuracy of this function. This will bolster the reliability of the entire estimation process.		

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	27	Biomass harvest and NRB in MoEuSS	Entire section	te	A harvest function is employed to estimate bioma to 2050, which considers a pressure index, con fuel generated as by-products from deforestation	ass harvest from 20 nsumption, and wo n.	10 The report should incorporate a description of the calculation of the pressure index and the friction factor along with an
		p. 35			However, the report lacks detailed information index is determined. Consequently, an understa of the friction factor and related assumptions, from distance and elevation to estimate accessil	on how the pressu anding of the inclusi which are calculat bility, is missing.	re explanation of the relationship between these elements. Additionally, it is crucial to provide justification for the
					Furthermore, the accuracy of the harvest function document. Therefore, the model necessita verification to ensure the reliability of its results.	n is not reported in t ates validation a	assumptions and methods employed in determining the friction factors.
							assessment for validating and verifying the harvest function should be conducted, and the report
							section addressing the accuracy and reliability of this function. This step will enhance the overall credibility of the model's results.