Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
					,	Information and references
						regarding Artic marine
						biodiversity have been expanded
					handled. The publication CAFF. 2017. State of the Arctic Marine Biodiversity	in proportion to other general
					· · · · · · · · · · · · · · · · · · ·	trends.
					Akureyri, Iceland. 978-9935-431-63-9, needs to be consulted. The reviewer	
					can as co-lead for the Arctic Biodiversity Monitoring programme, under	
					Arctic Council be helpfull in integrating information relevant places	
Tom Christensen	0		0	0		
					CAFF 2013 are refferenced in relation to tundra changes. But refferences to	We have done the best we could
					CAFF 2013 and CAFF 2017 needs to be made to other nature types and	to use the most recent data.
					species. CAFF 2017 includes important updates on status and trends on	
					several species and focal ecosystem components within many different	
					marine groups that are not included, and should be included, in this chapter	
Tom Christensen	0		0	0	(This includes seabirds).	
					Seems like relevant information from Greenland is lacking. Relevant	Additional references to studies
					information can be found in the Strategic Environmental Impact	on Greenland tundra have been
					Assessments published by Aarhus University, and also many advisory	added to emphasize that the
					reports related to the living resources (including fish species) from the	status and trends described in the
					Greenland Instutite of Natural resources. The reviewer can be helpfull	North American tundra section
					identying relevant reports and litereature.	also apply to tundra ecosystems
						in Greenland
Tom Christensen	0	<u> </u>	<u> </u>	0		All II a la se a la constant
	0	0	0	0	•	All listed citations have been put
Bravo Cadena						in Mendeley and have been
						carefully checked

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
		Line	Page	Line		
Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass	0	0	0	0		We have included new references on the composition of the biomes, including endangered species and groups of species. However, we have avoided presenting lists of particular species. We have also included functional diversity.
Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass	0	0	0	0		Ecosystem functions have been included, as well as linkages between biodiversity and ecosystem function. We have also included a brief discussion on genetic diversity in the agriculture section. Moreover, metrics of functional diversity, phylogenetic endemism, and evolutionary distinctiveness have been included in addition to species richness.
Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass	0	0	0	0	to the processes that generated said biodiversity and that are necessary to	The chapter avoids going deep into the origins of biodiversity but does address protected area coverage by subregion and biome. It also clarifies that habitat area is critical for the maintenance of diversity

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass	0	0	0	0	The content of this chapter overlaps with the other chapters in the book, without context or a clear guiding line.	The overlap issues have been thoroughly dealt with and negotiated with the other chapter authors
Ana Luisa Santiago 0 Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass	0	0	0	0	· · · · · ·	A number of Mexican scientists have now contributed as CAs to address this kind of deficiency
Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass, Sofía Treviño Heres					In Mexico there are many manuals developed by government agencies (eg. SEMARNAT, SAGARPA, CONABIO) that describe sustainable practices for productive activities. Also, in preparation of COP13 of CBD, Mexico developed Strategies for Biodiversity Mainstreaming in Forestry, Agriculture, Fisheries and Tourism (http://www.biodiversidad.gob.mx/planeta/internacional/pdf/Forestal_EN_S.pdf, http://www.biodiversidad.gob.mx/planeta/internacional/pdf/Agricultura_E N_S.pdf, http://www.gob.mx/cms/uploads/attachment/file/187913/Pesca_EN_S.pdf, http://www.biodiversidad.gob.mx/planeta/internacional/pdf/Turismo_EN_S.pdf). These can be examples of actions taken to reduce biodiversity loss.	A number of Mexican scientists have now contributed as CAs to address this kind of deficiency

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Manuel Maass	0	0		0	This chapter lacks a systemic view that places the different ideas into context. For example, when it describes endemisms it is not clear why they are important or how they differ among regions. It is important to link the discussion of endemism with its particular context and take into account that some endemisms are more important than others.	Different metrics of diversity including phylogenetic endemism have been included and explained. See Fig. 3.4. Endemic species have an instrinsic conservation value due to their irreplaceability. We have now included a new section where we specifically address the intrisic value of biodiversity (3.3.1). Which species are more important is not something we can address in this chapter.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
María Santiago Jiménez, Ricardo Contreras Osorio, Wolke Tobón, David Loreto	0	<b>Line</b> 0	<b>Page</b> 0	0	The chapter does not include information about genetic diversity, this is particularly important given that the continent is the center of origin and diversification of many species, and several of them are essential for agriculture.	This has been dealt with briefly in the section on agriculture. In section 3.2.7. we state that "The biodiverse American tropics became a major center of origin for New World plants domesticated from the early to mid Holocene, many of which subsequently became important crops globally; Mesoamerica, the Andean region and the Amazon Basin, are significant centers of plant domestication for many important crops". We have now also added a sentece specifically addressing genetic diversity: "While the genetic diversity of crop varieties has not been significantly reduced by plant breeders yet (van de Wouw et al. 2010), the domestication process is still ongoing (Casas et al. 2007)."
María Santiago Jiménez, Ricardo Contreras Osorio, Wolke Tobón, David Loreto, Patricia Koleff, Tania Urquiza y Sylvia Ruiz	0	0	0	0	The scale of the content of the chapter is not consistent with the one in the maps. Most figures presented are world maps, this does not represent the patterns that emerge at a regional scale, the analyses presented in this effort should be conducted at a continental scale. There are existing regional analyses which should be included to illustrate the subjects on the chapter	The maps have been edited and crafted to show the Americas only

Line Page Line  Miguel Equihua 0 0 This chapter does not include the loss of ecosystem functionality. In Mexico Although reviewer's of the control of the co	
an ecosystem integrity index has been developed as a meassurment that can be used as a baseline for this.  http://www.alianza-mredd.org/componentes/monitoreo-reporte-y-of space constraints.  verificacion/productos/diseno-de-protocolos-de-monitoreo-para-estimar-la-included, as well as limexico-redd-63#.WWjw9YQ19hF  between biodiversity ecosystem function. Not included a brief discus genetic diversity in the agriculture section. Not metrics of functional phylogenetic endemine evolutionary distinctions been included in addispecies richness.	ail because However, have been nkages and We have also assion on ne Moreover, diversity, sm, and veness have

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Patricia Koleff,	0	0	0	0	The regionalization used in this chapter is not consistent nor coherent with	The decission on regionalization
Tania Urquiza,					the continent's biogeography, sometimes it is based on political boundries	was established by MEP, and thus
Sylvia Ruiz, Ana					and sometimes it is not. This is particularly relevant for Mexico, which has	it is something we can not
Luisa Santiago					Neotropical and Nearctic ecosystems, we suggests to use biogeographical	modify.
Pérez, Miguel					regions and, when a country belongs to one or more regions or a region	
Equihua, Virginia					encompasses more than one country that this be carefully explained in the	
Meléndez					text to provide context for the reader	
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
Rafael Calderón,						
Carolina Ziehl						
Quirós, Sandra						
Quijas Fonseca,						
Jessica Bravo						
Cadena, Ana Luisa						
Santiago Pérez,						
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	assessment. We would suggest involving more authors from other countries in the Americas to balance the information presented in the chapter	A considerable number of Mexican lead authors have been added to the process to balance the information.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0		The content covers the American contients. We have endeavored to include summary statements that are directly relevant to policymakers and can be readily understood.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	, , ,	We have fully edited the chapter to make it accessible to nonscientists and relevant to policymakers

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	Most of the information presented in this chapter is descriptive, and it does not consider the underlying causes of the current status or trends and does not link it to the different modes that ecosystems are managed (landscapes, agro ecosystems, etc.)	current status or trends are
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	The structure of this chapter should be revised, the current structure is confusing and does not provide context for the different subjects that it contains	The chapter has been reorganized
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	Te information in this chapter focuses mainly on USA and Canada, overlooking many published scientific papers and documents that contain relevant information for the rest of the countries such as Global Outlook 4, América Latina y el Caribe: Atlas de un ambiente en transformación, Domesticación en el continente americano, Análisis de Riesgo y propuesta de categorización de especies introducidas para Colombia, Especies acuaticas invasoras en México, Capital natural de México, etc.	We have taken all steps possible to ensure a balanced treatment, and the chapter is well-balanced across the subregions to the extent it was possible given the available expertise. The Mesoamerican contribution was considerably enhanced. There is now a section on domestication, written by Mexican scientist Alejandro Casas. We have also reorganized and reduced the length of biome treatments, including those that occur in North America.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	The chapter does not include key subjects for Latin America, such as biodiversity of agricultural species, sustainable management or genetic resources	New subjects regarding biodiversity of agricultural species, management and genetic resources for Latin America have been added to the text

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	The chapter is also biased towards terrestrial ecosystems, it is necessary to include more information about coastal and marine ecosystems	The content on coastal and marine ecoystems has been substantially increased in this version.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	It considers urban areas but not rural areas, thus ignoring many different landscapes across the continent. It also fails to describe the impact cities have on other ecosystems	We have inlcuded a section on Biodiversity and people. We now have a section on agroforestry in addition to an urban section. The urban section has been rewiritten and includes treatment of gradients from urban to rural.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	Most figures are taken from scientific papers and other publications, this may cause a problem with publishing permits	All figures have permission for publication. Many were crafted from publically accessible data specifically for the the chapter
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	while there is a great number of references in this chapter, a closer look a them reveals that there was not comprehensive search of existing relevant information for the topics described. For example there are many references from the same authors regarding invasive species and, as it was mentioned on the first comment there are several relevant reviews and assessments that were not included	It is not clear why reviews should be highlighted above original contributions. The chapter is well documented and references have been carefully checked
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	0	0	0	0	Review references, some are incomplete (Alagona, P. S., Paulson, T., Esch, A. B., & Marter-Kenyon, J. (2016). Population and land use. )	References have been carefully reviewed

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Patricia Koleff, Tania Urquiza,	0	0	0	0	This chapter divides natural and antropic ecosystems, however there is a great gradient of different management intensities and landscapes that	We have included a section on Biodiversity and people that
Wolke Tobón,					15 5 5	includes treatment of agroforesty
Sylvia Ruiz, Rafael					Silouid be ilicidded	and other managed systems.
Calderón, Carolina						and other managed systems.
Ziehl Quirós,						
Sandra Quijas						
1						
Fonseca, Jessica						
Bravo Cadena,						
Ana Luisa Santiago Pérez, Miguel						
Equihua, Virginia						
Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras						
Osorio,David						
Loreto.						
PhD. Antonio de la	0	0	0	0	Maintain the analysis of the status of biodiversity in the units of analysis	Status of biodiversity is treated
Mora					proposed in the framework.	for each biome component and
						subregion
PhD. Elva Escobar	0	0	0	0	The chapter should address the patterns of change in latitudinal biodiversity	The marine/aquatic section has
				ľ	not only at terrestrial level, but from terrestrial to aquatic.	been addressed with
						considerable effort
PhD. Manuel	0	0	0	0	The ecosystem approach has the characteristic of giving importance to the	This is a decision made by the
Maass	<u> </u>	[	ľ	ľ		IPBES process, not the authors of
					"nature".	chapter 3.
						3

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
PhD. Manuel	0	0	0	0	It is necessary to recognize the importance of preserving the rural (country	This is now emphasized in
Maass					farming) way of life for the conservation of the diversity of domesticated	Mesoamerican subregion and can
					germplasm.	be expanded in South America;
						less relevant in North America -
						but we call it out in the vignette
						(Box 3.4) on the Menominee
						nation. We have brought this into
						the larger context on the
						consequences of management
						practices for biodiversity and
						ecosystem services (NCPs);
						management can be by individual
						landholders, communities,
						government lands or in protected
						areas. In the section on
						agricultural systems we have now
						also added a sentece specifically
						addressing genetic diversity:
						"While the genetic diversity of
						crop varieties has not been
						significantly reduced by plant
						breeders yet (van de Wouw et al.
						2010), the domestication process
						is still ongoing (Casas et al.
						2007)."

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
PhD. Miguel Equihua	0	0	0	0	It is important to keep the focus on the "state of the biophysical system", even if the human impact is obviously important.	We have checked the whole chapter and rewritten some parts trying to keep the focus on the state of the biophysical system
PhD. Miguel Equihua	0	0	0	0	Emphasize the ecosystem dynamics as a central theme, especially considering that through it a large part of biodiversity is produced. This leads to centers of origin and diversity. "Ecosystem integrity" measures in part the preservation of this functionality.	Dynamics are more thoroughly considered in this version.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
PhD. Virginia Meléndez	0	0	0	0	It is necessary to consider and include the different ecosystems of Mesoamerica.	We have greatly expanded the treatment of Mesoamerica with the addition of a number of Mexican scientists as CAs
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	This document lacks key elements of an assessment, such as synthesizing information, being written for policy makers, having a broad and complex coverage of the topic, etc.	We have done our best to synthesize it and write it in an accessible manner to policymakers. We note, however, that this chapter provides considerable empirical data that provides the support for many of the key messages that are in the Statement for Policymakers. The thoroughness of the chapter and the careful presentation of the data underpin our ability to make summary statements relevant to policy
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	Throughout the chapter there is no methodological consistency to describe status and trends. The concept of status and trends is not clear and it is also not clear when the text refers to present or future trendes.	

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	There is a lack of coherence between the sections of the chapter and it seems like a guiding line between sections, and even between chapters, is missing. Also sections are not standardized. There is no clear structure and the information presented in each section has different formats and order, making it hard to follow and even causing to miss the message the chapter wants to convey.	We have fully reorganized and edited the chapter to address these shoertcomings
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	The structure of this chapter needs to be reconsidered, this work needs to set an agenda that highlights priorities for policy makers and it currently does not.	The chapter has been restructured
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	Most of the information presented is descriptive instead of an analysis of the current status and trends of biodiversity.	The chapter is required to report on the status and trends of biodiversity and ecosystem services. Many analyses have been included to document what those status and trends are by biome and subregion across the
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	There is no information about cultural systems and landscapes for Latin America.	We have included a section on cultural diversity that includes landscapes and agroforesty systems

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	0	0	0	0	The subject of habitat loss and degradation for marine ecosystems is not included.	Habitat loss and degradation is addressed for marine systems to the extent the information is available. See in particular the treatment of coral reefs. It was included in the sections on coastal ecosystems and loss of salt marsh and mangroves.
Rafael Calderón,	0	0	0	0	It is important to analyze if the topic of protected areas should in fact be	Portected areas are still covered
Carolina Ziehl					part of this chapter. If so, it is crucial to make sure it does not overlap with	in this chapter. Overlap issues
Quirós, Sandra					chapter 6 and to ensure that other conservation and sustainable use tools	have been addressed
Quijas Fonseca,					and mechanisms need to be included as well.	
Jessica Bravo						
Cadena						
Rafael Calderón,	0	0	0	0	There are no causal relationships explained in the Executive Summary.	Extent causal relationships are
Carolina Ziehl						included in the Executive
Quirós, Sandra						Summary to the extent they were
Quijas Fonseca,						understood
Jessica Bravo						
Cadena, Ana Luisa						
Santiago Pérez,						
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						
20.000						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	It is necessary to define a general structure line that links chapter 3 with	We have included a figure to
Carolina Ziehl					chapters 2 and 4.	clarify how chapter 3 fits in
Quirós, Sandra						connection to chapters 2 and 4.
Quijas Fonseca,						Also, we have worked with
Jessica Bravo						chapter 2 to dovetail a figure that
Cadena, Ana Luisa						links biomes and NCPs.
Santiago Pérez,						
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	Balance the information on status and patterns of species richness,	A new Figure has been added to
Carolina Ziehl					phylogenetic diversity and with functional diversity.	clarify how Chapter 3 fits in
Quirós, Sandra						connection with Chapters 2 and
Quijas Fonseca,						4. Also, we have worked with
Jessica Bravo						Chapter 2 to dovetail a Figure
Cadena, Ana Luisa						linking biomes and NCPs.
Santiago Pérez,						
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo	0	0	0	0	The content of this chapter seems not to achieve its objective while being excesive, too descriptive and vague.	The content has been substantially revised to reduce wordiness and length. It has been reorganized for clarity and efficienty. The number of figures
Cadena, Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass, María Santiago Jiménez, Ricardo Contreras Osorio, Wolke Tobón, David Loreto.						has been substantially reduced. The Key Messages have been carefully revised to clarify the most critical aspects of the chapter and their relevance to policymakers

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	The chapter should achieve to compile information in relation to its	We have included several
Carolina Ziehl					objetctive and purpose, including a diagnose and conclusions.	synthesis figures and tables in an
Quirós, Sandra						effort to synthesize the work in
Quijas Fonseca,						the chapter. We provide brief
Jessica Bravo						conclusions. The Executive
Cadena, Ana Luisa						Summary draws out the primary
Santiago Pérez,						messages.
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	It is important to showcase representative examples of each subregion of	We have a balanced treatment of
Carolina Ziehl					the Americas (particularly Latin America) and to seek a balace of	the subregions and have a series
Quirós, Sandra					geographical representation (as far as possible).	of case study examples
Quijas Fonseca,						throughout the chapter.
Jessica Bravo						
Cadena, Ana Luisa						
Santiago Pérez,						
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	Include information on Mexican landscapes and traditional and current	Some of this has been included.
Carolina Ziehl					socio-ecosystems, such as:	We have added a section on
Quirós, Sandra					1. National System of Management Units for the Conservation of Wildlife	biodiversity and people that
Quijas Fonseca,					(SUMA)	emphasizes the Mesoamerican
Jessica Bravo					(http://dgeiawf.semarnat.gob.mx:8080/ibi_apps/WFServlet?IBIF_ex=D3_R_	subregion. We have added
Cadena, Ana Luisa					BIODIV04_02&IBIC_user=dgeia_mce&IBIC_pass=dgeia_mce)	contributions from a number of
Santiago Pérez,					2. Payment for Environmental Services (PES)	Mexican CAs.
Miguel Equihua,					3. La milpa - traditional agriculture system	
Virginia Meléndez					(http://www.biodiversidad.gob.mx/usos/alimentacion/milpa.html)	
Ramírez, Antonio					Provide information on traditional and socio-ecosystems, considering the	
de la Mora,					status and trends.	
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena, Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass, María Santiago Jiménez, Ricardo Contreras Osorio, Wolke Tobón, David Loreto.	0	0	0	0	Proposed literature from Mexico, particularly from the National Forestry Commission (CONAFOR):  1. Guía de mejores prácticas del manejo forestal para la conservación de la biodiversidad en ecosistemas templados de la región norte de México (http://biblioteca.semarnat.gob.mx/janium/Documentos/Ciga/Libros2014/CD001824.pdf).  2. Guía para la caracterización y clasificación de hábitats forestales (http://www.conafor.gob.mx:8080/documentos/docs/49/6661Gu%C3%ADa%20para%20la%20caracterizaci%C3%B3n%20y%20clasificaci%C3%B3n%20de%20h%C3%A1bitats%20forestales.pdf).	CAs.

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	Mexican relevant publications:	Most of this material has been
Carolina Ziehl					1. Estrategia Nacional de Biodiversidad	incorporated in the sections
Quirós, Sandra					(http://www.biodiversidad.gob.mx/pais/pdf/ENBIOMEX_baja.pdf)	contributed by the Mexican CAs.
Quijas Fonseca,					2. Capital Natural de México	
Jessica Bravo					(http://www.biodiversidad.gob.mx/pais/capitalNatMex.html)	
Cadena, Ana Luisa					3. Estudios Estatales de Biodiversidad	
Santiago Pérez,					(http://www.biodiversidad.gob.mx/region/EEB/estudios.html)	
Miguel Equihua,					4. Estrategias Estatales de Biodiversidad	
Virginia Meléndez					(http://www.biodiversidad.gob.mx/region/EEB/estrategias.html)	
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	When addressing island ecosystems, the chapter is mainly considering the	The Caribbean is emphasized
Carolina Ziehl					islands of the Caribbean. However, the insular ecosystems of each	because it is a subregion that
Quirós, Sandra					continental country are not represented. We would particularly like to see	requires specific treatment. Other
Quijas Fonseca,					Mexico's ilsnads represented.	island systems are included to the
Jessica Bravo						extent that they contribute in a
Cadena, Ana Luisa						manner that stands out beyond
Santiago Pérez,						the treatment of the subregion in
Miguel Equihua,						which they occur. Continental
Virginia Meléndez						islands tend to have biodiversity
Ramírez, Antonio						(species richness and endemicity)
de la Mora,						more reflective of continental
Manuel Maass,						ecosystems and in a biological
María Santiago						sense should be considered with
Jiménez, Ricardo						continental ecosystems/biomes
Contreras Osorio,						(could mention these islands in
Wolke Tobón,						the mesoamerica and other
David Loreto.						subregions). In a socioeconomic
						context they may share issues
				and uses with the more Oceanic		
					islands of the Caribbean and	
						could be mentioned as distinct in
						the other subregions.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena, Ana Luisa Santiago Pérez, Miguel Equihua, Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass, María Santiago Jiménez, Ricardo Contreras Osorio,	0				There is no information on the subject of Mediterranean ecosystems in Mexico. There is a lot of information available, particularly for Baja California, that should be considered.	By area, the biome is most represented in South American and North American subregions. We have endeavored to expand the treatment to some extent into Mesoamerica. We have also reorganized the chapter by biome. Each subregion is treated within the biome and we frequently combine subregions to avoid redundancy.
· ·						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Rafael Calderón,	0	0	0	0	The title includes "future dynamics", but the topic is not addressed in the	We have removed all treatment
Carolina Ziehl					Chapter.	of future trends and dynamics to
Quirós, Sandra						avoid overlap with chapter 5
Quijas Fonseca,						
Jessica Bravo						
Cadena, Ana Luisa						
Santiago Pérez,						
Miguel Equihua,						
Virginia Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass,						
María Santiago						
Jiménez, Ricardo						
Contreras Osorio,						
Wolke Tobón,						
David Loreto.						
DESP/Sbio/MMA	1	1	126	3366	In general, the chapter lacks bibliography and examples to ilustrate the current status and to support trends for the Americas biodiversity and ecosystems. It should be highlighted, that there is a serious lack of information on the session regarding the marine systems. Many important ecosystems and initiatives were not mentioned throughout the document, and there was little scientific information to support the status and trends for each ecosystem.	Considerable effort was invested in enhancing the marine sections and supporting the status and trends.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Monica Trujillo	1	1	223	6132	It is necesary to strenghten status, trends and future dynamics of biodiversity on Paramo ecosystem, because of its importance in Colombia, Venezuela, Ecuador and Perú. Please review:  1. "Biodiversidad, 2015. Estado y tendencia de la biodiversidade continental de Colombia".  2. "Marín, C. y Parra, S. 2015. Bitácora de flora: guía visual de plantas de páramo en Colombia".  3. "Forero Ulloa, Fabio Emilio; Cely R., Germán Eduardo; Palacios Pacheco, Laura Sofía, 2015. Dinámica del páramo como espacio para la captura de carbono. UPTC".  4. Hofstede, Robert et.al (2014). Los Páramos Andinos ¿Qué sabemos? Estado de conocimiento sobre el impacto del cambio climático en el ecosistema páramo. UICN. Quito. Ecuador  5. Hoftede, R., Vásconez, S. y Cerra, M. (Ed) (2015). Vivir en los páramos. Percepciones, vulnerabilidades, capacidades y gobernanza ante el cambio climático. UICN, Quito. Ecuador  6. Wouter B, et al. 2006. Human impact on de hydrology of the Andean páramo, Science Direct.  7. Ochoa B, et al. 2016. Impacts of land use on de hydrological response of tropical Andean catchments. Hydrological Processes  8. Tobón C, 2007. Capacidad de interceptación de la niebla por la vegetación de los páramos andinos. Avances en recursos hidráulicos Ed. Universidad Nacional de Colombia  9. Tobón C, 2010. Understanding the hydrology of tropical Andean ecosystems through an Andean Network of Basins" International Association of Hydrological Sciences.  10. W. Buytaert et al, 2010. Potential impacts of climate change on the environmental services of humid tropical alpine regions. Global Ecology an biogeography.	Several of these references were originally in the text but unfortunately were removed due to space constraints.
Patricia Koleff,	1	1	1	2	The tittle of the chapter does not reflect its content	The title has been edited to
Tania Urquiza,						better reflect its content
Wolke Tobón y						
Sylvia Ruiz						

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Patricia Koleff,	12	12	385	387	The content of the chapter is not consistent to what (according to these	Ecosystem services are defined in
Tania Urquiza,					lines) is the objective	Chapter 2. We have edited the
Wolke Tobón,						title and objectives to address
Sylvia Ruiz, Rafael						reviewer's comment
Calderón, Carolina						
Ziehl Quirós,						
Sandra Quijas						
Fonseca, Jessica						
Bravo Cadena,						
Ana Luisa Santiago	1					
Pérez, Miguel						
Equihua, Virginia						
Meléndez						
Ramírez, Antonio						
de la Mora,						
Manuel Maass						
Patricia Koleff,	12	14	376	480	Information in this section overlays with the subject of chapter 2. The	We have edited the first part of
Tania Urquiza,					background should provide context for the region and describe the	the chapter and included a figure
Wolke Tobón y					objective of the chapter	to explain the linkages between
Sylvia Ruiz						chapter 3 and chapter 2
Patricia Koleff,	16	16			Figure 3.1.b is not described in the text or used to illustrate an example	All figures have been referred to
Tania Urquiza,						in the text and are used to
Wolke Tobón y						illustrate a point. Otherwise they
Sylvia Ruiz						have been removed.
United States	1	17	1	17	"Kurt" Flather should be "Curt" Flather.	The sentence has been corrected
Government						

From Page	From	Till	Till	Comment	Author Annotations
	Line	Page	Line		
15	20	485	612	This section focuses on the description of carbon, nutrient and water cycles	Chapter 2 focuses on Nature's
				which are ecosystem functions, and the subject of chapter 2. The trends	Contributions to People (NCP;
				subsection is not thoroughly described and thus it does not explain the	i.e., ecosystem services), and not
				differences between regions or the implications that these trends may have	on ecosystem functions. Ths may
				on biodiversity. Ecosystem functions should be moved to Chapter 2 (eg.	be derived from biodiversity or
				biogeochemical cycles)	from ecoystem functions. Chapter
					3, however, covers ecoystem
					functions. After several
					discussions we agreed on
					addressing both biodiversity and
					ecosystem functions in Chapter 3.
1	25	1	25	Patricia's home country is Mexico, not Argentina.	The sentence has been corrected
	15	15 20	Line Page 15 20 485	Line Page Line 15 20 485 612	Line Page Line  15 20 485 612 This section focuses on the description of carbon, nutrient and water cycles which are ecosystem functions, and the subject of chapter 2. The trends subsection is not thoroughly described and thus it does not explain the differences between regions or the implications that these trends may have on biodiversity. Ecosystem functions should be moved to Chapter 2 (eg. biogeochemical cycles)

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
PhD. Miguel Equihua	9	29	9	293	"biodiversity itself is linked to ecosystem function (established but incomplete)" is a conceptual failure, since by construction it is true.	We have carefully treated the linkage between biodiversity and ecosystem function in the revised version.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz, Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena	35	42	860	1009	The information presented for some topics is broad while in others is deficient, for example in this section focuses on marine mammals and sea turtles and overlooks many other important key elements of marine biodiversity	The experts for the marine section have done their best to provide complete coverage for all taxa. However, some taxa have more available data than others. This issue is treated in the data gaps. A section on Chondricthyes has been added and a reference to the sections on fish and invertebrates (presented in a different section).
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	48	48	1132	1132	It is not clear how the regionalization was made for this table (3.4)	The decission on regionalization was established by MEP, and thus it is something we can not modify.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	50	50	1169	1169	The Protection Index mentioned has no reference	The proper reference has been added.

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	50	50	1171	1171	the Protection Area Connectedness mentioned, lacks a reference	The proper reference has been added.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	47	52	1105	1202	The subject of protected areas is included without proper context, describing that it is a response to stop or reverse biodiversity loss. There are also other tools that have been developed to protect biodiversity or manage it sustainably that are not included in this chapter (e.g. environmental management units, community forestry management, payment for ecosystem services, etc.)	Some of theses aspects are discussed in Chapter 6, where policy options are better discussed than in Chapter 3. This chapter only deals with the status and trends of biodiversity and ecosystem functions.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	20	60	613	1443	This section describes spatial biogeographical patterns but it does not describes trends or potential future changes. We suggest to read Peterson et al. 2016. Twentieth century turnover of Mexican endemic avifauna's and follow as an example of a study that overviews status and trends of a species' group	We removed all treatment of future trends, which belongs to Chapter 5.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	20	60	613	1443	Invasive species' information in this section are given more lines than native biodiversity. The subject is also described with no context and lacks information about other countries (e.g. http://www.biodiversidad.gob.mx/invasoras)	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	20	60	613	1443	This chapter does not provide a context about drivers and pressures of biodiversity loss and thus the different sections in it seem unarticulated and it is unclear the message it wants to give to decision makers	The context about drivers and pressures are provided in Chapter 4.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	20	60	613	1443	There is no explanation about the links between the changes in the carbon, water and nutrient cycles and of biodiversity loss	The changes raised by the reviewer were added to the extent they were understood and could be described

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	61	82	1146	2048	In section 3.3.1.1 (North American sub region) the figures that show the projected changes in mean temperature and precipitation for each biome are provided without context or explanation about the implications that these changes may have for biodiversity. It is important to note that this information is available for other counties and was not included	Predicted changes have been removed because Chapter 3 no longer deals with future trends.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	82	86	2049	2171	The information presented in this section does not reflect all the information that is available for the countries included in this region, particularly in Mexico's dry lands and deserts (which should have been included in North America )	The drylands section has been expanded to cover Mesoamerica more thoroughly.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	82	86	2049	2171	In the Mesoamerica sub region there are temperate forests, although it is a tropical region at high altitudes pine, oak and cloud forests are found and they should be included	For this Chapter we were told to follow the IPBES biome classification, which combines high elevation forests with tundra. Temperate forest biomes, according to the same classfication, are only in North and South America.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	61	121	1444	3208	This section mixes information about biomes' conservation status, pressures and responses (protected areas), without context that allows the reader to understand the relationships between these subjects	The chapter has been reorganized, made more consistent within and across sections, and the relationships between these components have been more carefully explained.
Patricia Koleff, Tania Urquiza, Wolke Tobón y Sylvia Ruiz	61	121	1444	3208	This section also overlooks published information for Latin-American countries	As explained above, new material has been contributed from a number of Mexican CAs.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Patricia Koleff,	61	121	1444	3208	We suggest the inclusion of insular ecosystems in this section, not only	Insular areas are synthetically
Tania Urquiza,					insular counties like Cuba, but the islands that belong to countries in the	included in diversity patterns,
Wolke Tobón y					Americas	trends and invasive species
Sylvia Ruiz						
Patricia Koleff,	61	121	1444	3208	The subjects described in this section are very similar to the ones in section	The chapter has been
Tania Urquiza,					3.2, as a result the information is overlapped or fragmented between the	substantially edited and the
Wolke Tobón y					two sections, this makes it difficult to follow the line of thought the text	redundancy issues removed.
Sylvia Ruiz						
Patricia Koleff,	121	125	3209	3301	This section lacks a lot of information, just because there are a lot of species	We have included trends in
Tania Urquiza,					that have yet to described does not mean there have not been great efforts	species desciptions through time
Wolke Tobón y					to describe them and many analyses that have worked with the available	in Figure 3.35
Sylvia Ruiz					information that become important contributions for policy making.	
Patricia Koleff,	121	125	3209	3301	Even though less information about marine ecosystems has been generated	The marine experts made
Tania Urquiza,	121	123	3209	3301	than for terrestrial ecosystems there still is a lot of relevant information and	
Wolke Tobón y					analysis that can help understand the current status and trends of this	status and trends of biodiversity
Sylvia Ruiz						in these systems.
Patricia Koleff,	125	125	3298	3301	This statement is untrue, there is a lot of published and available	We have not been able to locate
Tania Urquiza,					information for the "other sub regions" that was not included in this review	the exact statement refered in
Wolke Tobón y						this comment
Sylvia Ruiz						
Elise Belle	6	182	125	3302		Figures have been readapted to
					focus on the Americas region instead of the whole world (e.g. Figures 3.6, 3.7, possibly 3.20, and 3.28)	focus on the Americas following reviewer's suggestion
Andrea Larissa	6	183	11	375	Also, it would be possible to include a footnote saying what do you mean by	This information is provided in
Boesing					'well established', 'establish but incomplete'etc. ? I think it would be easier for readers to understand it.	Chapter 1

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Carlos Alfredo Joly	6	183			The Americas house a large fraction of the Earth's terrestrial, freshwater and MARINE	Marine biodiversity is described alone in an specific key section
Co-chairs	5	183	6	198	No mention of marne biodiversity at all. Even if globally typical, this should be mentoned. For completeless	Marine biodiversity is described alone in an specific key section
Manuel Maass	6	183	6	197	Include tropical forests as ecosystems with high diversity of endemic species.	Tropical forests have been included as ecosystems of high diversity of endemic species a few lines below.
Juan Comerma	6	186	6	187	the use of Biomes does not pay enough attention to important subdiviions in altitude in the mountain ranges. The life zones of Holdridge is more precise in that sense	The characterization of subvisions was established externally
Co-chairs	5	186	6	189	What about the diversity of the tropical and subtropical coral reefs, with very high diversity at the levels of Phyla, Class, Order etc at least as high or higher than any of these terrestrial ystems	Information on coral reefs biodiversity has been increased (see for example Figure 3.10)
André Mader	6	186	6	188	I did not see a reference for this in the text, As far as I understand, the Atlantic Forest on South America's east coast is the richest per unit area (concentration) in the world. The Amazon surpasses it in overall richness because of its size. Perhaps you can change the wording to make this clearer?	We are not referring to species richness per unite area but to the number of species contained in the whole biome. The wording has been edited.
Cristobal Diaz	6	188	6	189	I suggest include: "tropical savannahs and grasslands and in the high Andean zone (well established) (Section 3.3.1.4); and in the same manner the endemic biodiversity richness in the Caribbean islands (3.2.2.2- lines 350 to 354), and the Mesoamerican Corridor.	This setence has been completely edited in the current version
Carlos Alfredo Joly	6	199			any taxonomic group studied either for terrestrial, marine or FRESH WATER	This sentence has been deleted in the current version

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Thomas Brooks	6	199	6	213	Paragraph 2 of the Executive Summary, on invasive species in the Americas, is valuable and useful - important to retain	Thank you for the encouraging comment
Consensus	6	199	6	213	Point number 2 of the Executive Summary is not clear and appears to have great conceptual missunderstanding	Executive Summary has been completely edited in the current version
André Mader	6	199	6	213	The bold text talks of alien species, while the rest talks mostly about invasivealien species	All texts have been changed to "alien species" for consistency.
Cristobal Diaz	6	203	6	206	I propose the following: "For their land areas, the North American currently house larger contingents of alien species in general and more invasive species known to be harmful to biodiversity, and the Caribbean for its land area is clearly very susceptible to invasion, in congruence with point 3.2.2.3 (779-781).	following reviewer's suggestion
E. Arguedas y C. Roldán	6	204	6	206	It is important to include invasive species of Caribbean sea as lion fish-	The proposed example is a current case of study. Due to space constraints, the number of case studies had to be limited.
The Biodiversity Indicators Partnership (BIP)	7	214	7	250	Paragraph 5 of the Executive Summary, on protected area coverage of key biodiversity areas, and in general, in the Americas, is valuable and useful important to retain.	Thank you for the encouraging comment
Thomas Brooks	7	214	7	250	Paragraph 5 of the Executive Summary, on protected area coverage of key biodiversity areas, and in general, in the Americas, is valuable and useful important to retain.	Thank you for the encouraging comment
The Biodiversity Indicators Partnership (BIP)	6	215	7	227	Paragraph 3 of the Executive Summary, on extinction risk in the Americas, is valuable and useful - important to retain.	Thank you for the encouraging comment

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Thomas Brooks	6	215	7	227	Paragraph 3 of the Executive Summary, on extinction risk in the Americas, is	
					valuable and useful - important to retain.	comment
André Mader	6	215	7	227	Is this about terrestrial species only?	It also includes marine and
						freshwater species
Andrea Larissa	7	224	7	225	What does it mean by 'problematic species'?	Invasive and other problematic
Boesing						species, genes and diseases' is a
						technical term from the IUCN Red
						List threats classification.  Problematic species have
						unknown origin. A reference has
						been added to the figure caption
						along with a clarification in the
						text.
Andrea Larissa	7	229	7	239	I know that is very hard to obtain some numbers, but I'm pretty sure you	The following sentences have
Boesing					, , ,	been ddded: "declines of
					number'. I think that it would be great to have some percentages in the	between 20-80% from unfished
					brief summaries.	conditions" and "with as many as
						32% of chondrichtyes considered
						endangered or locally extinct in
						some regions"
Co-chairs	7	229			Suggest to move paragrah starting in 229 soon after the one starting in 183.	This setence has been completely
						edited in the current version
Cristobal Diaz	7	229	7	239	I suggest to mention the problems with coral reefs in the Carbbean and	The text has been modified
					their bleaching, and the campaign and accords among countries with the	following reviewer's suggestion
					protection of Caribbean Sea	
Cristobal Diaz	7	241	8	254	I propose to write in short something about the situation on terestrial	We appreicate the reviewer's
					protected areas	commnet but we haven't been
						able to understand the full
						meaning of this comment.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
André Mader	7	241	8	254	Marine protected areas are not discussed in the text	Marine protected areas were partially discussed in the text. We have expanded this information in the current version
Andrea Larissa Boesing	7	244	7	246	shall you say this 25% correspond majority to Amazon and that protected areas establishment are not proportional for each biome?	This 25 % corresponds to the whole continent. Amazon's protected areas represent about 12% of South America.
E. Arguedas y C. Roldán	7	246	7	247	it is necessary a clarification because is not possible to judge this fact without put into a general context	A clarification has been added to the text following reviewer's suggestion
Cristobal Diaz	7	246	7	247	I suggest to change the idea in: "to the contrary, South America Mesoamerica and the Caribbean have lagged behind North America in terms of marine protection (well established) (Section 3.2.5) - Why is centered in marine protection and not in the all protected areas? where in the same point 3.2.5(specifically 3.2.5.2) is written - "Over the past few decades, there has been an increase in both the number of protected areas and the amount of land covered throughout the Americas region. In North America number of protected areas has almost tripled, and in the Caribbean it has almost doubled "page 49	The key point has been changed to reflect the main text
Elise Belle		248		349	First sentence should be in bold characters.	The sentence has been edited following reviewer's suggestion
Stuart Butchart	7	249			Change emphasis: protected area coverage is pretty low - see Butchart et al. (2012 PLoS ONE)	The text has been changed following reviewer's suggestion

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
The Biodiversity Indicators Partnership (BIP)	7	249	7	249	Recommend changing "with more than" to "but still only". The current wording makes it sound as if this is a success, but protected area coverage of only 1 in 6 important sites is pretty weak - see Butchart et al. (2012 PLoS ONE http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0032529) for why safeguard of important sites is essential.	The text has been changed following reviewer's suggestion
Thomas Brooks	7	249	7	249	Recommend changing "with more than" to "but still only". The current wording makes it sound as if this is a success, but protected area coverage of only 1 in 6 important sites is pretty weak - see Butchart et al. (2012 PLoS ONE http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0032529) for why safeguard of important sites is essential.	The text has been changed following reviewer's suggestion
juan comerma	8	251	8	254	there is no mention of the protection of mountain ranges . It is quite important mostly of watersheds for water production, it covers large areas	
WWF Mexico	8	256	8	272	There should be information on: The perspective of pollution (plastics and microplastics, as well as fertilizers fueling Harmful Algae Blooms) from urban areas, rural areas (lacking of proper garbage dump areas) and agriculture to the sea is missing. Those are current issues of concern at international level and the relevance of pollution paths from land to sea (hydrologic basins) is clear.	These kind of information corresponds to drivers and have been included in Chapter 4.
Cristobal Diaz	8	257	8	257	I suggest to include ecosystems in the following manner: "constitutes both a threat to biodiversity and ecosystemsand"	The sentence has been been rewritten following reviewer's suggestion
Elise Belle	8	269	8	269	"and could be threatened."	The sentence has been corrected following reviewer's suggestion
Margarita N. Lavides	8	270	8	270	Correct: "threated" to threatened	The sentence has been corrected following reviewer's suggestion

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Volpedo, Alejandra Vanina	8	273	8	279	Eutrophication not only due to the contribution of agricultural production, also establishments that posen intensive systems of rearing (feed lots) behave like Struts pollution sources providing nutrients, organics to water bodies. Other sources are wastewater of small rural populations who do not have sanitation. All this increases eutrophication processes that are common in the shallow bodies of waters of the temperate zones in the region.	This falls under the domain of Chapter 4
Elise Belle		275		275	"while Phosphorus (P) loading come mainly"	The text has been changed following reviewer's suggestion
Cristobal Diaz	8	278	8	279	I propose include wetlands in: Environmental problems associated with eutrophication in coastal seas, wetlands and lakes have increased	This falls under the domain of Chapter 4
Co-chairs	8	282	11	361	there is substantial overlap in the information presented between these findings of changes in biodiverity by biome.unit of analysis, and the large secton on Direct Drivers in Chapter 4. with both chapters pressed for space the repetition is unnecessary and should be sorted out. The presentation here seems easy to follow, appears balanced by Subgrion and Biome type, and captures the changes in biodiversity fairly completely. It is premature to contrast the Key Findings of one chapter with the main body of another chapter, but at this point it would seem more effective have the biodiversity consequences of habitat conversion in Chapter 3, and greatly condense them in Chpater 4, allowing chapter to focus more on the drivers as drivers, and what causes them to show the trends that appear.	
Elise Belle	9	302	9	302	"mediterranean biomes are other strongly"	This sentence has been completely edited in the current version
Elise Belle		304		304	"Cerrado and 50% of South American"	This sentence has been completely edited in the current version

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Diana Patricia Alvarado-Solano	10	312	10	313	In Colombia, there is six wetlands of international importance. However, these wetlands has been facing many environmental impacts related with socioeconomic activities. (Pinilla. 2010. An index of limnological conditions for urban wetlands of Bogota´ city, Colombia. Ecological Indicators. (10): 848–856. doi:10.1016/j.ecolind.2010.01.006; http://www.aida-americas.org/blog/six-colombian-wetlands-of-global-importance; https://rsis.ramsar.org/ris-search/?f[0]=regionCountry_en_ss%3AColombia&pagetab=0; Ricaute et al. 2017. Future impacts of drivers of change on wetland ecosystem services in Colombia. Global Environmental Change. (44): 158-169. )	This falls under the domain of Chapter 4
Elizabeth Hess	9	313	9	315	Would be good to include that Canada contains 25% of the world's wetlands. It contains 1.29 million km(2). See (http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&n=69E2D25B-1)	
Elise Belle	10	325	10	328	Italics for '(established but incomplete)'.	All "established but incomplete" terms have been formatted in italics
Carlos Alfredo Joly	10	334			and pesticides, while in Brazil Amazonian wetland forests are being contaminated Malm, O. 1998. Gold Mining as a Source of Mercury Exposure in the Brazilian Amazon. Environmental Research 77: 73—78 Hacon, S.; Barrocas, P.R.G.; Vasconcellos, A.C.S.; Barcellos, C.; Wasserman, J.C.; Campos, R.C.; Ribeiro, C. & Azevedo-Carloni, F.B. 2008. An overview of mercury contamination research in the Amazon basin with an emphasis on Brazil. Cad. Saúde Pública 24(7) http://dx.doi.org/10.1590/S0102-311X2008000700003 World Health Organization/WHO 2014. Mercury Poisoning in the Brazilian Amazon	This falls under the domain of Chapter 4

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
Elise Belle		338	Page	338	Which small mammal?	This sentence has been completely edited in the current version
Cristobal Diaz	10	340	10	342	Please I suggest add - " Climate change is expected to alter the distributions of many terrestrial, freshwater and marine species,precipitation patterns, temperatures,and land suitability for agriculture, mainly in the Caribbean islands(inconclusive), but predictions are often uncertain	The sentence has been rewritten following reviewer's suggestion
Carlos Alfredo Joly	11	364			for both terrestrial, FRESH WATER and marine	This sentence has been completely edited in the current version
André Mader	12	376	12	387	This paragraph seems like unnecessary overlap with chapter 2. I think that the first sentence of the following paragraph is sufficient to link to ecosystem services	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Daniel P Faith		377		379	This is good but can make a more explicit reference to ncp18:"Human dependence on biodiversity may be direct through valuing maintenance of options provided by biodiversity, and through"	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Virginia Meléndez Ramírez	12	377	12	377	This chapter could begin with an introduction like the others	The chapter includes an introduction.
Co-chairs	12	378	12	403	Although the subject matter covered here is exactly the subject matter of Chapter 2, This degree of repetition in the Introduction is reasonable. It is important to the informaiton in the chapter, and probably can't be condensed more and stay meaningful. The only change really necessary is an explicit pointer to Chapter 2 for more detail on these issues.	The chapter has been thoroughly edited to reduce redundancy. Also, pointers have been included to Chapter 2
Carlos Alfredo Joly	12	380			and biodiversity are ESSENTIAL to human	The sentence has been edited following reviewer's suggestion
Daniel P Faith		388		388	the claim that "The spectrum of ecosystem services that provides benefits to mankind will depend heavily on it biodiversity content" seems doubtful – mostecosystem services (e.g. from crop lands) depend on removing biodiversity (note the Cardinale et al work creates a paradoxall that local suppport form biodiversity in the case studies ignores the fact that typically the natural biodiverity was removed! for discussion see faith 2017 reference)	This sentence has been deleted and the section revised
Daniel P Faith		399		400	"Biodiversity loss substantially decreases ecosystem functioning, ecosystem stability, and ecosystem" This section should be broadened to include ncp 18	1

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
Thomas Brooks	12	399	Page	399	Good use of text on biodiversity hotspots - important to retain. Add citation: Mittermeier et al. (2004) Hotspots Revisited. CEMEX, Mexico City, Mexico. In addition, Brooks et al. (2006 Science http://science.sciencemag.org/content/313/5783/58) could be used as a reference for the overall discussion of global conservation priorities here.	Thank you for the encouraging comment. Citation has been added to the text.
María Santiago Jiménez, Ricardo Contreras Osorio, Wolke Tobón, David Loreto	12	399	13	411	This chapter leaves out some of the outstanding cultural diversity in the Americas and it strong linkage to biodiversity. More ecosystems managed by indigenous and local communities or through traditional use should be included in this section.	The chapter has been substantially reorganized
André Mader	12	399	13	411	Perhaps this paragraph could be included under background rather than under a separate heading, and could replace the first paragraph there (which I suggested removing), because this one links chapters 2 and 3 without going too much into chapter 2 territory.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Carlos Alfredo Joly	12	400			for Conservation Priority. IT MUST ALSO MENTION THE HIGH DIVERSITY OF ETHNICAL GROUPS - SOCIODIVERSITY THAT HAS INCREASED EVEN MORE AMERICAS BIODIVERSITY DEVELOPING DIFFERENT VARITIES OF PLANTS LIKE POTATOE, MANIHOT, PEANUTS, MAIZE, etc	
André Mader	12	400	12	406	What was the net result of these investigations?	We appreciate reviewer's comment, but unfortunately we were unable to decipher the full meaning of this comment

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Carlos Alfredo Joly	12	411	T upc		There are a lot of studie on freshwater biodiversity and ecosystem services that MUST be included here.	Ecosystem services and NCPs are assessed in Chapter 2
André Mader	13	412	15	482	shortened and simplified. They could be merged under "background" (perhaps that title could change to reflect the merge). Also, there is very	The text has been condensed and reorganized. Also, we have attempeted to focus only on aspects related to the Americas
Daniel P Faith		483		486	re "Overview of status and trends of biodiversity components in subregions across the Americas - this goes on to talk about Ecosystem functions and Carbon cycling and energy fluxes Change the titl ass this is not about biodiversity? Maybe instead say "Trends of ecosystems"?	This part has been changed according to reviewer's suggestion
Viglizzo, Ernesto	15	483	19	585	To assess the effect of carbon and water on ecosystem service provision, see the meta-analysis and review work of Viglizzo, E.F., Jobbágy, E.G., Ricard M.F., Paruelo, J.M. (2016). Partition of some key regulating services in terrestrial ecosystems: Meta-analysis and review. Science of the Total Environment 562: 47–60.	Ecosystem services and NCPs are assessed in Chapter 2
André Mader	15	485	20	612	Caribbean is mentioned only under "3.2.1.2. Water cycle and regulation"; and it is not always clear where Mesoamerica is referred to, as it is not named anywhere.	We have done our best to be systematic in mentioning each subregion

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Ederson A Zanetti	15	490	15	490	There should be a subchapter dedicated to species specific relationships to biodiversity and ecosystem services	We appreciat reviewer's suggestion. That would indeed be very interesting, but we are unable to include it due to space constraints.
Patricia S. Vazquez	15	490	17	527	Figure 3.1a It would be interesting to express beyond the aforementioned citations, what kind of images are used, sensors, software, algorithms, to obtain both NDVI and C stocks, in order to obtain a fast and accurate interpretation of the results.	The suggested information goes beyond the scope of the Chapter
Carlos Alfredo Joly	15	491			Considering the size and the importance it has in carbon cycling the Brazilian Etanos production for fuel MUST be mentioned in this item. See, for example, the SCOPE report available at http://bioenfapesp.org/scopebioenergy/images/chapters/bioenergy_sustainability_scope.pdf	This does not fall in the domain of Chapter 3.
Co-chairs	15	492	20	620	Although the section on ecoststem services is generally well done, the ocean, coasts and marine systems generally are almost invisible in the text. They do contribute to these ecosystem services and warrant a bit greater inclusoon, or else at least a separate subsecton on the ecosystem services from manre and coastal systems. We think the latter would be suboptimal but better than being largely left out altogether.	NCPs are synthesized for all units of analysis now.
Co-chairs	12	495	13	416	This line of argumentation that the relaitonships examined in detail for terrestrial primary producers can broadly generalize to higher trophic levels on land and to marine systems is generally clear and well crafted. I think it is an adequate basis for the following sections of 3,1 to focus on the terrestrial plant studies. However the following subsectons of 3.1 would be stronger if each subsecton ended with a sentence simply staing something like "Studies that have show similar relationships for higher trophic levels	l

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
		Line		Line		
Ederson A Zanetti	15	497	15	497	There should be HWP consumption within the carbon cycle	This is not the domain of Chapter 3
Elise Belle	16	505	16	505		This sentence has completely been edited in the current version.
Viglizzo, Ernesto	16	512	16	513	Regarding "Recent decreases in deforestation rates in Amazonia have favored net atmospheric C sequestration" I suggest inserting the recent reference of Zaring et al (2016), which have estimated carbon emission trends due to defoeretation in various countries of the world. Zarin et al. (2016). Can carbon emissions from tropical deforestation drop by 50% in 5 years? Global Change Biology 22; 1336-1347.	The suggested reference has been added to the text
André Mader	17	528	17	536	Is this paragraph relevant enough to biodiversity and nature's contributions to people?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Co-chairs	17	529			, ,	The text has been edited as required

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Co-chairs	17	529	17	548	· ·	Coordination with Chapter 4 has been increased and impacts of climate drivers on future trends have been removed. However, we do discuss current impacts of climate change and recent trends
					follows	_
Giselda Durigan	17	532	17	532	I would be more objective here: "several studies show negative impacts of tree plantation on water cycling"	This sentence has been deleted in the current version
André Mader	17	541	19	585	No status and trends sub-headings here?	The text has been edited as required
juan comerma	17	542	17	542	How can evapotranspiration reduce runoff ?, ok recharge	Unfortunately we do not understand this comment
Cristobal Diaz	17	543	17	545	I don't remember very well but the term evapotranspiration (ET) is composed by two terms: evaporation from soils, water bodies and others; and transpiration originated from plants. I suggest if it is considered appropriated by the Lead Authors the revision of: "ET depends on the physical structure of vegetation and characteristics of individual species, particularly rooting depth, which control plant access to water in water-limited environments (Le Maitre et al. 2015)."	This section has been rewritten.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Carlos Alfredo Joly	17	549	l usc		In this item the construction of large dams in almost all river systems of South America, that changes completely the water cycle and regulation in vast regions like the Amazon must be included.	This is the domain of Chapter 4
Giselda Durigan	17	550	17	550	It should be more clear if it was: "Water is strongly regulated by rain interception by the canopies and transpiration, that together form the evapotranspiration (ET)." Savenije (2004) recommends we never use the term Evapotranspiration since rain interception and transpiration are completely different processes in the ecosystem. While interception is loss, transpiration is water used by plants. (Source: Savenije HHG. 2004 The importance of interception and why we should delete the term	This section has been revised and shortened due to space constraints.
Giselda Durigan	17	551	17	551	It should be: "ET depends on the physical structure of vegetation, especially LAI (Giambelluca et al 2009) and tree biomass (Honda & Durigan 2016)." (Sources: (1) Giambelluca, T. W., Scholz, F. G., Bucci, S. J., Meinzer, F. C., Goldstein, G., Hoffmann, W. A., & Buchert, M. P. (2009). Evapotranspiration and energy balance of Brazilian savannas with contrasting tree density. Agricultural and Forest Meteorology, 149(8), 1365-1376: (2) Honda F. A. & Durigan, G. (2016). Woody encroachment and its	This section has been revised and shortened.
Giselda Durigan	17	557	17	557	Ochoa-Tocachi et al., 2016 can be cited also here, cinse they concluded that "Vegetation cover, especially the percentage of tall flora, affects negatively water yield"	
Cristobal Diaz	18	559	18	561	I suggest to revise the expression: "In North America and the Caribbean, ~85% of annual water consumption goes to agriculture, ~100 km3 for irrigation and just 3 km3 for livestock ". Because for example in Cuba agricultural sector include livestock consume, the 60% of annual water consumption	This sentence has been deleted in the current version

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Giselda Durigan	18	570	18	577	Here, it is convenient to cite Jackson et al (2005), that analyzing data from 600 data sets verified that "Tree plantations decreased stream flow by 227 millimeters per year globally (52%), with 13% of streams drying completely for at least 1 year."	Reference has been added to the text following reviewer's suggestion
Cristobal Diaz	18	570	18	580	I think that is interesting to include the effects of deforestation and water in the slopes and the landslides.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Cristobal Diaz	18	577	18	580	"The impact of changing climate on streamflow is complex, and most large rivers worldwide have not changed measurably. However, 10 of the 14 large rivers that show increasing discharge are in the Americas, mostly corresponding with places where rainfall has measurably increased (Milliman et al., 2008) ". This affirmation would be reaffirmed with other references more at the present time because the drought has affected a great part of the Americas including the America and Guarani groundwater.	We appreciate reviewer's comment but we haven't been able to find additional references for this statement.
Giselda Durigan	18	578	18	578	Most studies about this are based on modelling (like Lawrence and Vandecar, 2015). Actualy, this sentence should be: "Reduced atmospheric moisture due to reduced ET can reduce rainfall, but this influence has been demonstrated only at very large scales (Trenberth 1999; Ellison et al 2012)". (Sources: (1)Trenberth, K.E. 1999. Atmospheric moisture recycling: Role of advection and local evaporation. Journal of Climate 12: 1368-1381. (2)	This section has been revised and shortened due to space constraints.
Giselda Durigan	18	578	18	580	Actually, the higher the biomass, the lower the water yield. Besides, Higher ET will turn into rain elsewhere, so that the expected positive relationship of increasing biomas to increase rain does not work at the scale of a watershed.	This section has been revised and shortened due to space constraints.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elise Belle	19	582	19	584	Review the whole sentence of the figure legend.	The sentence has been edited in the current version
Margarita N.	18	584	18	585	Indeed, this statement should be clarified. This runs contrary to a huge set	The sentence has been edited in
Lavides		304		303	of literature on the links between deforestation and floods, whether small or large scale.	the current version
Diana Patricia	20	593	20	599	In the Northern part of South America, the bigest coastal lagunar complex	This is the domain of Chapter 4
Alvarado-Solano					"Ciénaga Grande de Santa Marta" is one example of degradation caused by several antrophogenic factors (http://www.marbef.org/wiki/Cienaga_Grande_de_Santa_Marta; Sandra P. Vilardy , José A. González , Berta Martín-López & Carlos Montes (2011) Relationships between hydrological regime and ecosystem services	·
Co-chairs	19	595	20	607	the authors should consider reordering this paragraph. One reading it seemed like a presentation of statistics on nutrient cycling that woud only be very meaningful to specialists in the field. Then the very last sentence gives all the reasons why a broad reange of biodiversity and ecosystem services will be affected by these changes. The paragraph might get more attention from readers if it started off with a pithy sentence on why nutriet cycling is important to RES, and then giving the statistics in the following	The whole paragraph has been edited in the current version
Brenda McAfee	20	610	20	612	Further clarity on the details of this challenge would be helpful here.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
Co-chairs	20	618	Page	Line	Is the readership generally going to know what a "catch crop" is?	The following text has been added for clearification: "fast-growing crop that is grown between successive plantings of a main crop"
Elizabeth Hess	20	623	20	623	Not clear intent of wording "is compared by close to open vegetation"	After checking for the right wording we have agreed to "is composed by"
Ederson A Zanetti	20	623	20	632	There should not be such a clear linking between crops and deforestation, there should be reference to trees used and forest cover. For example, north america has the largest consumption of wood products and does not have deforestation, while south america has some of the lowest wood consumption rates and large deforestation	There is no clear association in the text about which is the driver of deforestation. We only present data of land use (mostly agriculture and urban areas), and then data on land cover (main
Leticia Pina	20	627	20	627	The figures in this line correspond to the information from Keenan et al., 2015 (Table 2: The trend in forest area from 1990 to 2015 by sub region), nevertheless, please to take into account that grouping of countries in sub regions are different. For instance, Mexico belongs to North America sub region in FRA, while in IPBES classification is under Mesoamerica. Also please kindly note that Excel file sent to request information has Argentina and Bolivia under Caribbean countries.	tonic of this section). Wood We replaced the figure from Keenan et al. (2015) by one of Hansen et al. (2013), which does not present data by country. The lines in panel b were based on data from the IPBES Task Group
Leticia Pina	20	628	20	628	It is not clear the source of the data of natural forest	We have acknwoledge the data source in the new version: Global Forest Watch (http://www.globalforestwatch.org/map).

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
		Line	Page			
Elise Belle	22	629	22	629	"Total forest trends by sub-region."	Forest trends by sub-regions are presented in Figure 3.3b.
Leticia Pina	20	629	20	629	It is not clear the source of the data of planted areas	We have acknwoledge the data source in the new version: Global Forest Watch (http://www.globalforestwatch.org/map).
Elise Belle	23	655	23	657	Table still to be fully completed.	The table has been completed in the current version
United States Government	23	655	23	655	Table rows for mammals and Reptiles & Amphibians are blank. Remove these rows if you have no data.	The table has been edited and completed in the current version
Elise Belle	24	658	26	692	Size of maps (and resolution) could be increased.	Map resolution has been increased in the current version.  Moreover, additional work will be done by external technicians.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Daniel P Faith		663		663	here there is reference to local/community PD; perhaps in this section global PD and NCP18 also can be refrred to	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
M. en C. Jessica	22	663	22	663	Could use the data from Buckley et al. (2010) and Buckley and Jetz, 2007,	Reference for Buckley & Jetz
Bravo Cadena					https://www.cbd.int/gbo/gbo3/ or http://www.iucnredlist.org/ to complete the Table 3. 1. Species richness for different taxonomic groups by subregion.	1
Virginia Meléndez	22	663	22	663	Figure 3.1 is incomplete missing data.	Figure 3.1 has been edited and
Ramírez						completed in the current version
The Biodiversity	23	666	23	670	The sources for Fig 3.4 should come from the publications that have	References used to build Figure
Indicators					compiled the underlying data, not from this mix of subsequent academic	3.4 have been carefully checked
Partnership (BIP)					analyses. The base citation for mammals (Panel 1.2) is Schipper et al. (2008 Science http://science.sciencemag.org/content/322/5899/225 Fig 1A) and that for amphibians (Panel 1.4) is Stuart et al. (2008 Threatened Amphibians of the World. Lynx, Barcelona, Spain, Figure 1). Brooks et al. (2004 RioScience https://academic.oup.com/bioscience/article/54/12/1081-	in the current version.
Thomas Brooks	23	666	23	670	The sources for Fig 3.4 should come from the publications that have compiled the underlying data, not from this mix of subsequent academic	References used to build Figure 3.4 have been carefully checked in the current version.

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Thomas Brooks	23	666	23	670	It would be very useful to complement these maps of alpha-diversity with equivalent maps of beta-diversity. The key source is McKnight et al. (2007 PLoS Biology http://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.00502 72), who provide such maps for amphibians, mammals, and birds.	We appreciat reviewer's suggestion. That would indeed be very interesting, but we are unable to include it due to space constraints.
Virginia Meléndez Ramírez	23	666	23	666	Figure 3.4 is incomplete, some figures lack the meaning of color in the maps.	Figure 3.4 has been edited in the current version and legend colors added accordingly.
André Mader	25	680	25	690	Is it possible to include a figure/map on functional diversity?	Maps of plant functional diversity have been added to the text
Andrea Larissa Boesing	24	688	24	698	Given that FD is very subjective and will depends of the group and functional traits choosen to analyse, I don't see what this paragraph is bringing in terms of important information. I would suggest to talk only about PD - which sometimes might be a surrogate for FD, and the importance to maintain PD and consequently more diversified lineages, with a large range of functional traits and ecosystem functioning.	This paragraph has been synthesized.
Thomas Brooks	24	688	24	698	This paragraph could be illustrated by Fig 1a from Rapacciuolo et al. (2017 Global Ecology & Biogeography http://onlinelibrary.wiley.com/doi/10.1111/geb.12612/full), which shows geographical distribution of median body mass (a measure of functional diversity) across all Western Hemisphere tetrapod vertebrates.	We appreciat reviewer's suggestion. That would indeed be very interesting, but we are unable to include it due to space constraints.
Elise Belle	26	693	26	693	"Measures of phylogenetic diversity (PD)"	The wording of the sentence has been changed to clarify.

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
André Mader	26	<b>Line</b> 701	Page 33	798	The amount of information and space dedicated to alien invasive species seems disproportionate to the preceding sections. Also, although the diversity and distribution of these species may be relevant here, the discussion on invasion and its effects seems to belong in chapter 4.	Chapter 3 deals with status whereas Chapter 4 is concerned about drivers (not effects).
André Mader	26	701	33	798	The distinction between alien and invasive, and the relationship between the two terms, is a bit unclear in this section.	The definitions of the concepts have been clarified. Moreover, precise definitions will be available in the glossary
Thomas Brooks	25	710	32	810	I think that this section 3.2.2.3 on Patterns and trends in alien and invasive species is very well done - informative and well-written.	Thank you for the encouraging comment
Virginia Meléndez Ramírez	25	716	25	716	Include Apis mellifera, is an introduced species for America	This corresponds to a long known invasion. In the current document we are interested in more recent trends
Andrea Larissa Boesing	26	719	26	724	Would be nice to include na example of impact caused by dogs and cats given that these are the most closely human-related invasive species? North America has many information about the impact of cats on biodiversity (especially birds), and in Brazil current advancements are being done studying dog invasion in native renmants and its impact on biodiversity.	This corresponds to long known invasions. In the current document we are interested in more recent trends
Elise Belle	27	720	27	722	Species names should be in italics. It would perhaps be good to add a separate column for positive/negative impacts.	Column separation and italics have now been included.

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
André Mader	27	<b>T20</b>	Page 27	<b>Line</b> 721	This figure Table) is quite limited in geographic scope. Something similar that covers the whole region, or a larger part of it, could be preferable.	More examples from other areas have been proportionally included into the table.
United States Government	27	721	27	721	Table 3.2 - last line- American Mink "preys on" not "predates."	The sentence has been corrected
Diana Patricia Alvarado-Solano	27	721	27	722	In Colombia, in the Páramos ecosystem (tropical alpine ecosystems) there has been reported the presence and invasion of Ulex europaeus, which is now another threat for the native species present in there, that could lead to the deterioration of the main ecosystem service (water provision and supply) and the survival of endemic species such as Speletia sp. (https://www.researchgate.net/publication/260479286_Estrategias_para_e	Invasive species are treated for terrestrial ecosystems as a whole now rather than focusing on subregions due to space constraints
Carlos Alfredo Joly	26	730			In Table 3.2 the water hyacinth (Eichhornia crassipes) should be included. See VILLAMAGNA, A.M. & MURPHY, B.R. 2010. Ecological and socioeconomic impacts of invasive water hyacinth (Eichhornia crassipes): a review. Freshwater Biology (2010) 55, 282–298 doi:10.1111/j.1365-2427.2009.02294.x	The mentioned species belongs to the fresh water section
Virginia Meléndez Ramírez	26	731	26	731	Add A. mellifera in table 3.2, is an introduced species for America	This corresponds to a long known invasion. In the current document we are interested in more recent trends
Brenda McAfee	29	751	29	752	As invasive alien species are the second most common threat associated with species extinction, it is preferable to choose a different expression than "trail behind" as it suggests a negative trend when fewer species introduction should be considered a positive trend.	This part has now been deleted due to space constraints the lack of detail for subregions

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
United States Government	30	759	30	759	Definition of "alien saturation" would be helpful.	The definition has been added to the text
Elise Belle	31	778	31	781	Is this part of the figure legend? Last sentence is incomplete.	The sentence has been corrected
Carlos Alfredo Joly	30	781			Although IABIN has been finished the Alien Invasive Species Databank is still on line and should be included here http://www.institutohorus.org.br/iabin/i3n/	References to the Alien Invasive Species Databank have been included to the text
United States Government	31	783	31	783	"lacking" may not be the best term in this context; consider another term, perhaps "not present."	The sentence has been corrected
Elise Belle	32	788	32	789	I do not understand the figure legend.	The sentence has been corrected
Andrea Larissa Boesing	30	790	30	794	Bold text to be unbold and to joined with next paragraph	The sentence has been corrected
Andrea Larissa Boesing	30	790	30	794	Are you providing the list of invasive species? It would be super nice.	Although it would be interesting to presen this list, we had to omit it due to space constraints
United States Government	33	797	33	798	Consider including the location of the Great Lakes (e.g., "in north central United States") in the first sentence. The second paragraph, starting with "Efforts are underway," is not directly relevant to the title of the Box; consider revising. Further, the second sentence of the second paragraph starting with "No new non-native species" seems to contradict the graph, which shows increases over time; please clarify the time frame for this sentence.	The mentioned sentences have been deleted from the current version.

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
	_	Line	Page	Line		
United States Government	33	797	33	797	Please define AIS before using it. Further, the term "less flashy" is not clear. Does that indicate flow is less variable? Please clarify.	The term "less flashy" has been removed from the current version
André Mader	34	799			Could there not also be a section equivalent to the land use section under 3.2.2? Some of this information seems to already be included under 3.2.3.1 (see paragraph from line 810-817). Patterns of diversity for taxonomic groups. It could simply be moved under a different heading.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Andrea Larissa Boesing	31	804	31	804	scientific name in italics	The text has been has been thoroughly checked to format all latin names in italics
Virginia Meléndez Ramírez	32	810	32	810	In the foot of figure correct non-indigenous by non-native.	Figure caption has been edited following reviewer's suggestion
DESP/Sbio/MMA	33	813	34	848	The session 3.2.3.1, on the patterns of diversity for taxonomic groups of freshwater species, limits its discussion to fish species and fisheries and aquaculture. Additionally, the references cited are generic for the region e some of them are out of data (e.g. information on the species used for aquaculture in South America is from 1998). Finally, the term "catch" in the last paragraph of the session (I. 843) is not used for aquaculture. The	This section has been revised

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Diana Patricia	34	826	34	828	Publications related with this topic can be found in:	The sentence has been edited in
Alvarado-Solano					http://www.redalyc.org/home.oa (keywords: species loss freshwater ecosystems tropic)	the current version
Elizabeth Hess	33	834	33	834	There is reference to North America's freshwater fishes (including Mexico).	This section has been revised.
					, , ,	Mexico is not part of North
					Is it now included and if so, why. This is not clear and confusing.	America in the assessment
André Mader	35	835	35	859	It seems like the contents of this section that discuss invasion and its	Invasive species, when they are
					dynamics should be captured in chapter 4, and not here.	drivers of change in biodiversity
						are treated in chapter change.
						When the focus is on the invasive
						species themselves, as a
						component of biodiversity, they
						are treated in Chapter 3.
Diana Patricia	35	836	35	840	For a comprehensive review of this issue in Colombia: Gracia, A., Medellín-	The invasive species are treated
Alvarado-Solano					Mora, J., Gil-Agudelo, D.L. y V. Puentes (eds.). 2011. Guía de las especies	as a whole for marine systems
					introducidas marinas y costeras de Colombia. INVEMAR, Serie de	rather than focusing on individual
					Publicaciones Especiales No. 23.Ministerio de Ambiente y Desarrollo	countries or subregions
					Sostenible. Bogotá, Colombia. 136 p.; Gutiérrez, F. de P., C. A. Lasso, M.	
					P.Baptiste, P. Sánchez-Duarte y A. M. Díaz. (Eds). 2012. VI. Catálogo de la	
					biodiversidad acuática exótica y tras-plantada en Colombia: moluscos,	
					crustáceos, peces, anfibios, reptiles y aves. Serie Editorial Recursos	
					Hidrobiológicos y Pesqueros Continentales de Colombia. Instituto de Investigación de los Recursos Biológicos Alexander von Humboldt (IAvH).	
					Bogotá, D. C., Colombia, 335 pp.; Galván-Guevara et al. 2011. EXOTIC	
					FAUNA AND TRANSPLANTED FAUNA WITH MORE REPRESENTATIVENESS IN	
					COLOMBIA. Rev.Colombiana Cienc.Anim.3(1):167-179.	

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Co-chairs	33	837	33	837	This paragraph is about extinctoin rates. Therefore this sentence will be read as say the habitat losses have resulted in the extinction of 200 species in Mexico springs and streams. However, as written the sentence could also mean that 200 species have been negatively affected by the loss of the streams and springs, but may persist in other places. To avoid this ambiguity, check the reference (which is not in the reference list, establish which meaning is correct, and modify to be clear whether 200 species have	The whole paragraph has been edited in the current version
Co-chairs	33	840			Basically the same as the previous comment. Does "affected" mean gone	The wording has been edited for clarity.
DESP/Sbio/MMA	33	843	34	848	The impacts of the fisheries are underestimated in the whole session. Only in Brazil, XXX species had population decline due to commercial fisheries (in reference to the information given in the lines 846-847).	We did not understand this comment.
United States Government	35	843	35	843	It may be useful to also mention the National Invasive Species Council https://www.doi.gov/invasivespecies/ and/or the Aquatic Invasive Species Task Force https://www.anstaskforce.gov/default.php	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Co-chairs	33	843	34	848	cross-check this data on fisheries production with Chapter 2	Cross-checking was completed.
Co-chairs	34	845	34	846	the phrasing may be misinterpreted by many readers. The relatively small freshwater commercial fisheries were displaced by recrereational fisheries for the same species (usually) because the recreational fisheries had a wider base of public support (many potential sport fishers compared to many fewer commercial harvesters) and greater local economic impact (revenue of the guides, outfitters, and hospitality providers), but because the commercial fisheries were becoming unsuccessful or unrofitable.	The sentence has been edited in the current version

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Andrea Larissa Boesing	34	849	34	873	No trends are presented	The whole section has been restructured.
Carlos Alfredo Joly	34	849			The problem of native invasive species must be mentioned in this item. In Brazil the introduction of Tucunare (Cichla spp) native from the Amazon Basin in the Paraná Basin is causing MAJOR PROBLEMS. See Prioli and Sônia Maria Alves Pinto Prioli. 2011. Spar genetic analysis of two invasive species of Cichla (Tucunaré) (Perciformes: Cichlidae) in the Paraná river basin Acta Scientiarum 33(1) 79-85, 2011 DOI: 10.4025/actascibiolsci.v33i1.4855	The invasive species are treated as a whole for marine systems rather than focusing on individual countrie or subregions, and individual species are treated only as examples
Rolando Alfaro	34	850	850	854	In Lake Titicaca, the greatest negative impact is overexploitation	This information correspond to drivers and therefore should be discussed in the appropriate section
Co-chairs	34	850	34	873	(as in many other sections that overlap between the two Chapters) but this	Treatment of invasive species has been revised. Invasive species, when they are drivers of change in biodiversity are treated in chapter change. When the focus is on the invasive species themselves, as a component of biodiversity, they are treated in Chapter 3.
DESP/Sbio/MMA	34	855	34	873	The seaweed Caulerpa taxifolia, the lionfish Pterois volitans, and the humpback grouper Cromileptes altivelis are marine species. We suggest a revision of the whole paragraph as it discusses freshwater invasive species.	The issue raised by the reviewer has been properly addressed. The current version of the document does not include some of these references.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line		Line		
Elise Belle	36	868	36	869	Spell out acronyms in figure legend.	All figures have been checked for appropiate spelling in acronyms
DESP/Sbio/MMA	34	875	42	1027	The session 3.2.4.1. presents information only about mammals and sea turtles. It lacks information on other important taxonomic groups, such as fishes and marine invertebrates. Both groups are highly preassured by human activities, such as fishing.	A new section on Chondricthyes has been added, as well as references to the later section on fish and invertebrates (fishery species).
Co-chairs	35	884	35	889	This is a very nice Figure, but why just for SA. There are comprehensive databases, such as OBIS (housed at the IOC), where not only are Patricia's data filed, but comparable data from other subregions should be available as well.	This figure has been deleted in the current version.
Virginia Meléndez Ramírez	35	884	35	884	In Figure 3.13, the meaning of acronyms is missing from the graph on the right.	The meaning of the acronyms have been added to the text following reviewer's suggestion
André Mader	37	889	42	1009	I think you will may to justify dedicating this whole subsection to only mammals and sea turtles.	The text in this section has been reduced based on the review editor's recomendation. We have also added a section on Chondricthyes and have made clear reference to the fish and invertebrate section using different headings.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Pomerleau, C.	37	896	37	897	Figure 3.14 - It appears strange to include polar bear on this figure when it is a single species. It could be included in the main text, but since this is a figure of species richness by orders of marine mammals, polar bear should be removed from this figure.	Figure 3.14 was deleted in the Third Order Draft
Elise Belle	37	897	39	909	Increase size of text in the three figures.	The size of the text in the Figures has been increased.
Co-chairs	36	899	36	904	Given that marine invertebrate biodiversity" actually included diversity even at the phylum level as well as all other taxonomic levels, I would have hoped to see somewhat more done to report at least the high-level patterns. There are efforts to maintian comprehensive databases like OBIS and CoML (Censusi of Marine Life) and I would encourage more effort to report at least a bit more about patterns of marine invertebrate diversity on the Americas coasts.	invertebrate patterns have been added.
Andrea Larissa Boesing	36	905	40	990	This whole Marine mammals session has many subjective words which makes the understanding difficut and the English written is harsh to understand as well. Moreover, there is no flow in the text. I would consider to re-write this whole session. Many graphs and tables are presented, but basic information are not presented in the text. In Fig. 3.17 population status are given Instead of saying 'some species are declining', would be super nice to include the % of species that are declining	We agree with reviewer's comment and the text has been significantly reviewed.
Andrea Larissa Boesing	36	906	36	906	The Americas are rich in marine mammals (see Figure 3. 14) for species richness in different taxonomic' - ?	Figure 3.14 was deleted in the Third Order Draft
Co-chairs	36	906	36	13	Given the years or decades of the extinctions.	The years of extinction have been added to the first paragraph of the Third Order Draft

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Andrea Larissa Boesing	36	907	36	907	these' ? - what 'these' refers to?	The sentence has been corrected.
Elise Belle	39	912	39	916	Delete this paragraph (as I believe it relates to figure 3.17, where it is repeated in the figure legend).	The paragraph has been deleted following reviewer's suggestion
Pomerleau, C.	39	914	39	916	There are 19 distinct populations of polar bears in the world and the population trend is known for at least half of them. Please revise that sentence.	The sentence has been corrected.
The Biodiversity Indicators Partnership (BIP)	37	914	37	925	Neat Figs 3.14 and 3.15 on marine mammals, and appropriate sources.  Retain. In Figs, change "V" to "VU", "E" to "EN", "CE" to "CR", and "Extinct" to "EX" following the Red List Categories & Criteria (https://portals.iucn.org/library/node/10315 Annex 2).	Figure 3.14 was deleted in the Third Order Draft
Thomas Brooks	37	914	37	925	Neat Figs 3.14 and 3.15 on marine mammals, and appropriate sources. Retain. In Figs, change "V" to "VU", "E" to "EN", "CE" to "CR", and "Extinct" to "EX" following the Red List Categories & Criteria (https://portals.iucn.org/library/node/10315 Annex 2).	Figure 3.14 was deleted in the Third Order Draft
Pomerleau, C.	39	924	39	924	This sentence is not acurate. Revise that sentence on polar bear to reflect the state of knowledge on the various populations of polar bear. It is erroneous to write "its population" when there are 19 populations. Refer to : http://pbsg.npolar.no/en/status/status-table.html	The sentence has been revised to reflect multiple populations
Pomerleau, C.	40	926	40	926	Figure 3.17. Again, it is not appropriate to say "for each type of marine mammal". What is meant and shown here is more like a classification. Please reword.	Figure caption has been reworded

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
The Biodiversity Indicators Partnership (BIP)	38	939	38	939	Good use of Doroff & Burdin (2015)	Thank you for your encouraging comment.
Thomas Brooks	38	939	38	939	Good use of Doroff & Burdin (2015)	Thank you for your encouraging comment.
The Biodiversity Indicators Partnership (BIP)	39	942	39	942	Good use of Wiig et al. (2015)	Thank you for your encouraging comment.
Thomas Brooks	39	942	39	942	Good use of Wiig et al. (2015)	Thank you for your encouraging comment.
Pomerleau, C.	40	948	40	948	Explain what is the meaning of wild capture. Which southern resident killer whales? Specify if you mean southern oceanotherwise it could be misinterpreted as there is a southern resident killer whale population in Canada (Southern Vancouver island)	The sentence has been edited in the current version.
Pomerleau, C.	40	948	40	955	I strongly recommend that the authors of this section on marine mammals refer to a recent paper by Laidre et al. 2015 on the status and trends of marine mammals in the arctic and subarctic regions (http://onlinelibrary.wiley.com/doi/10.1111/cobi.12474/full)	The proposed reference is indded interesting but outdated according to the 2016 citation we added from PBSG. Moreover, information on other Arctic species would favor Canada in
Pomerleau, C.	41	956	41	956	In Figure 3.18. b, what is other (n=1)?	This Figure was deleted from the Third Order Draft

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
	_	Line	Page			
Pomerleau, C.	41	963	41	963	Previous anthropogenic impacts? Perhaps give some examples or specify which one (e.g., commercial whaling).	An example of antrophogenic impacts (bycatch) has been added. Also, the whole text on threats has been revised
Pomerleau, C.	41	965	41	966	"Sirenians and large whales are particularly vulnerable to bycatch and other types of removals because of their limited rates of potential increase". Please develop and elaborate what is meant here. The sentence doesn't really fit with the rest of the paragraph.	The paragraph has been edited and the terminology clarified
Pomerleau, C.	41	976	41	977	Add the latin name of each species of turtles to be consistent with previous sections.	Latin names of species have been added.
United States Government	41	976	41	977	Suggest deleting or rephrasing these sentences. The Wallace et al 2011 reference is dated and is no longer appropriate for determining the top sea turtle sub-populations at risk. The 2015 IUCN redlist assessment changed North Pacific loggerhead to Least Concern. Therefore, it is no longer accurate to characterize it as one of the "four of the ten most threatened and at-risk of extinction" In fact, the entire ranking exercise would have to be re-done to get a more updated list.	Information regarding Wallace et al. 2011 has been deleted. Instead, we have summarized the information in the sea turtles Figure based on IUCN information.
United States Government	42	978	42	979	These lines say all of those endangered are also in decline. Is that the status from Wallace 2011 or the current IUCN redlist status? Things have changed since 2011, so Wallace 2011 and figure 3.19 don't match-up. For instance, Wallace et al 2011 lists North Pacific loggerheads as most endangered but the graphic has them increasing and least concern. Please reconcile the sentence with the more recent information in the graphic.	All of the trend information and threat status for the figure on sea turtles comes from IUCN, but the reviewer is correct that some of the text summarized Wallace et al. 2011. To resolve this, we have deleted references to Wallace 2011 and have just summarized IUCN information.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
United States Government	42	984	42	985	Please delete the reference to ecosystem based fisheries management, as that does not align with the conservation and recovery of sea turtles in America. Rather, specific requirements in law have been instrumental, as many of the threats to sea turtles extend beyond fisheries issues, making comprehensive protection and species recovery among the only way gains have been made.	Reference to ecosystem based fishery management has been deleted
United States Government	42	986	42	987	Please correct this sentence. The defining of subpopulations in of itself does not lead to recovery. It is a tool managers use, but without important legal protections, like the U.S. Endangered Species Act, it would not have been possible to mitigate numerous threats (lighting, pollution, development, fisheries bycatch, etc.) to sea turtles.	The sentence has been corrected following reviewer's suggestion.
WWF Mexico	40	988	40		The vaquita (Phocoena sinus), a small porpoise . predicted to go extinct by 2022 (Taylor et al., 2016). Revise the date to be extint. With recent events might be sooner.	The sentence has been corrected following reviewer's suggestion.
Elise Belle	42	989	42	989	"for each species of sea turtle found"	The sentence has been corrected following reviewer's suggestion.
United States Government	42	989	42	989	Recommend clarifying figure title to include a reference to sea turtles. For example, "IUCN population status for each sea turtle species."	The title has been clarified following this suggested revision
Pomerleau, C.	42	990	42	990	The color for "least concern" appears beige and not yellow on Figure 3.19. Similary, in the current version, there are no differences between CE and E as both are in red. I recommend utilizing more distinct colors (blue, green, yellow, red).	Figure has been updated.

Reviewer Name	From Page	From Line	Till Page	Till	Comment	Author Annotations
Carlos Alfredo Joly	40	991	rage	Lille		-
Cristobal Diaz	43	1005	43	1006	" Given high coastal diversity at low latitudes, this suggests that diversity in the future should increase outside of the tropics". Please this affrmation is very strong and for this reason needs the references of where was extracted	This sentence has been deleted in the current version
The Biodiversity Indicators Partnership (BIP)	41	1008	41	1009	Neat Fig 3.19 on marine turtles, and appropriate sources. Retain, but change "V" to "VU", "E" to "EN", "CE" to "CR", following the Red List Categories & Criteria (https://portals.iucn.org/library/node/10315 Annex 2).	Figure has been updated.
Thomas Brooks	41	1008	41	1009	Neat Fig 3.19 on marine turtles, and appropriate sources. Retain, but change "V" to "VU", "E" to "EN", "CE" to "CR", following the Red List Categories & Criteria (https://portals.iucn.org/library/node/10315 Annex 2).	Figure has been updated.
United States Government	43	1011	43	1012	As this sentence is about trends, it may flow better if this were moved down in the section. This would ensure the sections first present status before following with trends.	This setence has been deleted in the current version.
Daniel P Faith		1050		1050	Threatened species and protected areas and Threat status and temporal trends in threat status for taxonomic groups - In this section perhaps include PD NCP18 figs and references to link to NCP18	Trends are treated in the synthesis figure (3.24). We have not included phylogenetic diversity in terms of trends, but we have included related patterns of terrestrial diversity (evolutionary distinctiveness, phylogenetic endemism and functional diversity), in addition to species richness, in Fig 3.4

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
André Mader	44	1051	47	1104	There is quite a lot of overlap between the information included here, and the discussions above on terrestrial, freshwater and marine biodiversity. It might enhance readability if these were reconciled.	We appreciate reviewer's suggestion. However, we would like to retain the text as it is now because threat status includes both marine and terrestrial ecosystems.
Harald Pauli	45	1068	45	1075	It surprises that the extinction risk among endemic species is lowest in SA. Is it because the overall number of endemic species is so high in SA? Which taxonomic groups are included in Fig. 3.21?	Yes, that is correct. There are more than three times as many endemic species assessed in SA than MA, the next highest group. The taxonomic groups are those listed in the previous paragraph, as it is now acknowledged.
Stuart Butchart	43	1069			Retain Section 3.2.5.1 + Figures 3.21, 3.22, & 3.23 on extinction risk -these are useful	The text has been retained.
The Biodiversity Indicators Partnership (BIP)	43	1069	46	1122	Excellent text Section 3.2.5.1 + Figures 3.21, 3.22, & 3.23 on extinction risk in the Americas - very important to retain.	The text has been retained.
Thomas Brooks	43	1069	46	1122	Excellent text Section 3.2.5.1 + Figures 3.21, 3.22, & 3.23 on extinction risk in the Americas - very important to retain.	The text has been retained.
Virginia Meléndez Ramírez	43	1069	43	1069	Add a table with the number of species to some extent threatened or extinct for different groups such as plants, vertebrates and invertebrates.	We appreicate reviewer's comment but unfortunately we do not have this data.
Elise Belle	45	1073	45	1073	Delete 'species occuring' and 'species' on each line, and possibly spell out the subregion names instead.	We have edited the figure labels accordingly
Elise Belle		1074		1075	"Extinction risk for species in the Americas [] proportion of species in each IUCN Red List categories."	Figure caption has been reworded as suggested

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Michael Hoffmann	1	1074		1122	It is good to see the material on status and trends in extinction risk (and Figs 3.21 - 3.23)	The text has been retained.
United States Government	45	1074	45	1074	Please clarify the abbreviations in the legend and the left axis of the figure, as it is currently unclear what they represent.	Figure caption has been reworded as suggested
Margarita N. Lavides		1074			includes, among others, sharks and rays and selected bony fish groups e.g. groupers, parrotfish etc. (Brooks et al 2016) but these groups are not included in the recent trends report which includes mammals, birds,	Sharks, rays, and bony fish groups are present in the data used for figure 3.21 because they are included in the comprehensively assessed groups of species.  However, unfortunately they
The Biodiversity Indicators Partnership (BIP)	43	1075	43	1075	Add citation to the data on which this section is based, www.iucnredlist.org. Already in the reference list as IUCN (2017).	
Thomas Brooks	43	1075	43	1075	Add citation to the data on which this section is based, www.iucnredlist.org. Already in the reference list as IUCN (2017).	Recommended citation has been added to the text

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
	_	Line	Page	Line		
Cristobal Diaz	46	1081	46	1085	The text: "According to this criterion, overall the extinction risk has increased over the last 23 years in the Americas, but again there are notable subregional differences (Figure 3. 22). The North America subregion has increased slightly, Mesoamerica has remained relatively steady, while the Caribbean and South American have declined fastest. Species in the Caribbean region are the least well-conserved, and are declining towards extinction the fastest." would be sustented with one or more references.	Brooks et al., (2016) has been included to the text
Elise Belle	46	1082	46	1085		Brooks et al., (2015) has been included to the text
The Biodiversity Indicators Partnership (BIP)	44	1083	44	1084	Add text to read "Inclusion of Data Deficient species for these groups as threatened could shift this percentage to as high as 34.7%; or conversely, if no Data Deficient species are threatened, this percentage could be as low as 21.2%."	
Thomas Brooks	44	1083	44	1084	Add text to read "Inclusion of Data Deficient species for these groups as threatened could shift this percentage to as high as 34.7%; or conversely, if no Data Deficient species are threatened, this percentage could be as low as 21.2%."	
United States Government	46	1083	46	1085	The statement "the Caribbean and South American have declined fastest" is confusing. Is the extinction risk increasing the fastest, so that biodiversity is declining fastest, or is the risk declining? The final sentence implies the former. Please clarify.	_

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Daniel P Faith		1087		1088	Figure 3. 22. Red List Indices of species survival for mammals, birds, amphibians, corals, and cycads five taxonomic groups, mostly vertebrates weighted by the fraction of each species' distribution occurring within each region/sub-region - this is good and for the PD imperilled tabulations/figs, we can similarly give credittaking into account overlaps	
Elise Belle		1087		1088	"corals, and cycads taxonomic groups, weighted by the fraction of"	Figure caption has been edited and clarified as a result of several review comments
Virginia Meléndez Ramírez	44	1092	44	1092	In Figure 321 complete the figure foot.	Figure caption has been completed
Co-chairs	45	1093	45	1105	Just a problem with phrasing. The first sectionce has "increased" being te term consistent with greater extinction risks in recent decades that earlier ones, but in the next two sentences, it is "decreased" that means greater extinction risk. I had to read the whole paragraph carefully three times to get the messages clear. A little playing with the text so "increase" and "decrease" have consistent meaning throughout the paragraph would improve readability.	Language has been changed throughout paragraph to clarify discussion of RLI in general
Luis Ubaldo Castruita Esparza	44	1094	45	1098	There should be include the status of the recent trends for reptiles in study area	Although it would be ideal to include reptiles, this group has not yet been comprehensively assessed

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
André Mader	47	1105			Are freshwater areas included under terrestrial?	Yes, the mammals, birds and amphibians groups all include both terrestrial and freshwater groups. However, we have removed the term terrestrial from the caption to avoid
Elise Belle	47	1106	47	1111	References?	The reference has been added to indicate data source directly in the caption
Stuart Butchart	45	1108			Replace the sentence about Y axis and slope, with "Trends show how well each region's species are conserved relative to the maximum contribution to conservation of global biodiversity that each region could provide". This is more accurate given the weighting by the proportion of each species' global distribution within the region.	Figure caption has been edited as suggested
Elise Belle	47	1112	47	1113	What is the reference? You could replace with more recent data: "In the Americas protected areas currently cover 17.4% (6,957,037 km2) of land and inland waters and 12.9% (4,622,930 km2) of coastal and marine areas under national jurisdiction (UNEP-WCMC and IUCN, 2017)."  Reference: UNEP-WCMC and IUCN (2017). Protected Planet. Cambridge, UK: UNEP-WCMC and IUCN. Available at: www.protectedplanet.net.	Reference has been added to indicate the data source as synthesized by Brooks et al., 2016. Although it would be ideal to use present data, it is necessary to keep the same
The Biodiversity Indicators Partnership (BIP)	45	1113	45	1113	Add mention of the fact that the pattern for these three regions mirrors that globally, cite Maxwell et al. (2016) Nature DOI: 10.1038/536143a.	The suggested text and reference have been added to the main body.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Thomas Brooks	45	1113	45	1113	Add mention of the fact that the pattern for these three regions mirrors that globally, cite Maxwell et al. (2016) Nature DOI: 10.1038/536143a.	The suggested text and reference have been added to the main body.
Elise Belle		1114		1117	Reference? Cite reference instead of link to website with PDF.	We whole document has been checked to correct reference citations.
Andrea Larissa Boesing	45	1115	45	1115	Again: what is a problematic species?	Invasive and other problematic species, genes and diseases' is a technical term from the IUCN Red List threats classification.  Problematic species have unknown origin. A reference has
Elise Belle	47	1118	48	1120	"Caribbean, in 2008, more than 700 MPAs []. In 2008, fully protected sites only covered 0.3% of coastal"  Note that we could provide more up-to-date data if needed.	heen added to the figure cantion. This text has been removed given that it has been repeatedly flagged by multiple reviewers and does not allow comprehensive and effective comparison across all sub-regions. Moreover, by
United States Government	48	1119	48	1120	_deep-sea-coral-protection_area.html.	This text has been removed given that it has been repeatedly flagged by multiple reviewers and does not allow comprehensive and effective comparison across all sub-regions. Moreover, by

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Virginia Meléndez Ramírez	46	1123	46	1123	3.2.5.2. Protected areas. Include a table with the ANPs by region, complete table 3.4. Mexico see: http://www.conanp.gob.mx/regionales/=	Protected areas are treated at the level of the subregion and summarized in Fig. 3.32
Elise Belle		1124		1124	Update with most recent data: Americas region: "protected are coverage is 17.4% (6,957,037 km2) for terrestrial areas and inland waters, and 12.9% (4,622,930 km2) for coastal and marine areas under national jurisdiction. Caribbean: 17.5% (41,247 km2) terrestrial, 5.7% (195,940 km2) marine Mesoamerica: 17.5% (435,223 km2), 2.0% (105,441 km2) marine	Although it would be ideal to use present data, we must keep the same source to allow consistent calculations
Elise Belle		1126		1126	Reference? Jenkins and Joppa (2009)?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		1130		1131	"increase protection level (Pliscoff and Fuentes-Castillo, 2011)."	The referece has been moved to clarify the sentence.
The Biodiversity Indicators Partnership (BIP)	46	1130	46	1130	Add a citation to the data on which this section is based, www.protectedplanet.net	The reference has been added as suggested

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Thomas Brooks	46	1130	46	1130	Add a citation to the data on which this section is based, www.protectedplanet.net	The reference has been added as suggested
Harald Pauli	48	1132	49	1136	How 'montane grassland and shrubland' and 'tundra' is defined/distinguished in Table 3.4: the first only in the Neotropical realm, the latter on in the North American?	This table has been edited and largely modified in the current version
Co-chairs	46	1133	46	1134	This does accurately report the conclusion in the source. However, that is based on the assimption that the onlyway to "protect ocean ecosystems" is with totally exclusionary MPAs. This premise has been widely challenged on two counts. First, there is ample evidence that marine areas can be used sustainably without destroying ocean ecosystems, just as terrestrial ecosystem can be used sustainability, without biodiversity and ecosystem services being destroyed. On land it is not assumed that all ecosystems not	This is an excellent point, and we have deleted the language that had been added to our text referencing 'hope'.
André Mader	49	1134			"Greenland is not included"? Greenland is supposed to be covered by the Americas IPBES assessment.	The IPBES boundaries for the regional assessments were changed from the initial published scoping documents (http://www.ipbes.net/sites/default/files/downloads/pdf/IPBES_3_18_Appex%20V_Deliverable_2h_
Elise Belle	49	1138	49	1140	Over which time periods? References? Please clarify.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
Pomerleau, C.	49	Line 1141	Page 49		Indicate how many MPAs for South America.	
Tomeneau, c.	43	1141	43	1141	indicate now many wit As for South America.	
Elise Belle		1143		1143	"increasing recognition by governments"	The text has been changed as suggested
Elise Belle		1147		1147	"used for human wellbeing. Indigenous reserves in Latin"	The text has been changed as suggested
Elise Belle		1150		1152	Sentence still to be completed.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
WWF Mexico	47	1150	47		Table 3. 4. Include Ilands	Table 3.4 (now 3.6) has largely been edited in the current version.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
		Line		Line		
Virginia Meléndez Ramírez	47	1150	47	1150	Table 3.4 is better biogeographic regions: Neotropical and neotropical for America	Table 3.4 (now 3.6) has largely been edited in the current version.
Cristobal Diaz	49	1150	49	1151	The data would be completed.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		1153		1154	"in temperate biomes, particularly in the Temperate forest biome"	This sentence has been deleted in the current version
Elise Belle		1158		1158	"a situation that is repeated to a greater"	This sentence has been deleted in the current version
MAYDS- Argentina	50	1161	51	1167	Se debe ser cauteloso al utilizar los datos de Allienace for Zero Extinction (AZE) sobre sitios AZE ya que esta ong tiene poca o nula presencia en varios países de la región de Sudamérica, por lo que este aspecto puede llevar a inferencias incorrectas sobre el estado de conservación de la biodiversidad de la región. por ejemplo, como se ve en este enlace, en Argentina hay solo tres sitios AZE:  http://www.arcgis.com/bome/webman/viewer.html?webman-4ecca6a29b	We have tried to be cautious and this data is based on a cited published paper: Brooks, et al., 2016.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Elise Belle	50	1162	50	1163	Delete sentence 'Very detailed Informatino [] is wanting.'	The sentence has been deleted as suggested
Cristobal Diaz	50	1168	50	1175	This text need references and the same with Figures	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Gilles Seutin/PCA	50	1170	50	1175	See comment below for further explanation. Proposed amended text: Very important for maintenance of viable populations of species, ecosystems and ecological processes is the degree to which protected areas are connected over the landscape. Methods for assessing connectedness for various ecological attributes and at different scales are in development (e.g., Santini et al 2015, GEO BON 2015, Saura et al 2017). One indicator, the Protected Area Connectedness Index (REFERENCE), suggests that connectedness has	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		1171		1173	Reference?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		1174		1174	"degree of connectedness in some countries (e.g."	This sentence has been deleted in the current version

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elise Belle		1176		1176	Make text bigger in figures.	Figures's text has been edited in the current version. Also, additional work on Figures will be developed by specialized technicians.
Stuart Butchart	48	1178			The paragraph on KBA coverage and Figs 3.25a-c are useful, but better to show error bars with shading. Note that 3.25d was generated by the IPBES TSU and they have agreed that this should now be dropped as its use was not authorised by the data providers and it was calculated incorrectly.	This figure has largely been edited in the current version
The Biodiversity Indicators Partnership (BIP)	48	1178	48	1178	Add a sentence to start this paragraph reading something like "While these increases in acerage are noteworthy, they risk perverse outcomes of establishment of protected areas in places that are large and cheap but unimportant. It is therefore essential to complement them with measures of safeguard of important sites." A key paper supporting the first point is Barnes et al. (2015 Nature	The text and the reference have been added following reviewer's suggestion
The Biodiversity Indicators Partnership (BIP)	48	1178	48	1178	Add a citation to the data on which this section is based, www.keybiodiversityareas.org	The text and the reference have been added following reviewer's suggestion
The Biodiversity Indicators Partnership (BIP)	48	1178	49	1185	This paragraph on protected area coverage of key biodiversity areas in the Americas is very important, as is the associated Fig 3.25a, 3.25b, and 3.25c - essential to retain.	The text and the reference have been added following reviewer's suggestion

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Thomas Brooks	48	1178	48		increases in acerage are noteworthy, they risk perverse outcomes of establishment of protected areas in places that are large and cheap but unimportant. It is therefore essential to complement them with measures of safeguard of important sites." A key paper supporting the first point is Barnes et al. (2015 Nature	The text and the reference have been added following reviewer's suggestion
Thomas Brooks	48	1178	48	1178	http://www.nature.com/nature/journal/v526/n7572/full/526195e.html) Add a citation to the data on which this section is based, www.keybiodiversityareas.org	The text and the reference have been added following reviewer's suggestion
Thomas Brooks	48	1178	49	1185	This paragraph on protected area coverage of key biodiversity areas in the Americas is very important, as is the associated Fig 3.25a, 3.25b, and 3.25c - essential to retain.	The text has been retained.
Elise Belle	51	1179	51	1179	Add reference to figure legend.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		1180		1182	"North America and South America, respectively." Reference?	The text has been edited in the current version

Reviewer Name	From Page	From Line	Till Page	Till	Comment	Author Annotations
Stuart Butchart	48	1180	lage		insert "and other Key Biodiversity Areas identified through hotspot profiles support by CEPF" after Ricketts et al. And cite www.keybiodiversityareas.org.	The text and the reference have been added following reviewer's suggestion
André Mader	51	1184	51	1188	This sentence seems not to make sense - I think there is just a word or two missing somewhere.	The text has been edited in the current version
Elise Belle		1186		1186	"2016), some unprotected areas harbour the highest"	The text has been edited in the current version
The Biodiversity Indicators Partnership (BIP)	49	1186	49	1193	I could not find any published source for this paragraph, and the corresponding Fig 3.26 is unintelligible as presented. Recommend deleting this paragraph and figure unless published documentation can be sourced for this.	Based on multiple comments from multiple reviewers, we have deleted this paragraph as well as the accompanying figure 3.26.
Thomas Brooks	49	1186	49	1193	I could not find any published source for this paragraph, and the corresponding Fig 3.26 is unintelligible as presented. Recommend deleting this paragraph and figure unless published documentation can be sourced for this.	Based on multiple comments from multiple reviewers, we have deleted this paragraph as well as the accompanying figure 3.26.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Co-chairs	49	1189	49	1191	concept of connectedness is known to them. A sentence or two on what cases the index to increase or decrease would be helpful. For example, does the large decrease over time in Canada reflect an increase in the numbers of barriers or threats to animal movements between protected areas (a real reduction in the protection given to populations), an increase in the	the accompanying figure 3.26.
Elise Belle		1190		1190	information available about the areas around the protected areas (so it Any more recent reference?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		1190		1191	"In 2005, the Central American System of Protected Areas (SICAP) included 554 protected areas"	The text has been edited in the current version
Elise Belle		1192		1193	"By contrast, in 2010, only 0.4% [] was protected and 7% of []South America was protected"	The text has been edited in the current version
Elise Belle	51	1194	52	1195	"However, in 2009, the percentage coverage in protected areas was only 2.3% [] Montane forest was protected"	The text has been edited in the current version

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
The Biodiversity Indicators Partnership (BIP)	49	1194	49	1197		Figure 3.25d has been deleted as suggested
Thomas Brooks	49	1194	49	1197	1 -	Figure 3.25d has been deleted as suggested
Elise Belle	52	1198	52	1198	"the continent, with less than 1% of land area protected in Catinga"	The text has been edited in the current version
The Biodiversity Indicators Partnership (BIP)	50	1198	50	1200	presented. Recommend deleting this figure unless published documentation can be sourced for this.	Based on multiple comments from multiple reviewers, we have deleted this paragraph as well as the accompanying figure 3.26.
Thomas Brooks	50	1198	50	1200	presented. Recommend deleting this figure unless published documentation can be sourced for this.	Based on multiple comments from multiple reviewers, we have deleted this paragraph as well as the accompanying figure 3.26.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Elise Belle		1200		1201	"In 2005, only over 2% of of the outstanding rich Brazilian Cerrado was protected"	The text has been edited in the current version
André Mader	52	1203			There is no need to include the word "anthropogenic" here - it is redundant	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	52	1203	60	1442	Why separate the sections on urban and agricultural systems from the status and trends of natural systems? Could they be a separate sub-section: 3.3. Status and trends of anthropogenic systems? I'm not sure they belong under "Overview of status and trends of biodiversity components"	
André Mader	52	1205	52	1211	Some of the publications referenced here are not the original sources of the information	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
United States Government	52	1214	52	1215	"and involve the world's largest socioeconomic inequities" is confusing in this context; consider elaborating to provide clear connections to biodiversity in urban areas or deleting mention.	The text has been edited in the current version

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
DESP/Sbio/MMA	50	1215	50	1219	are far below from the Brazilian official numbers. Accoding to the National Database for Protected Areas/ Brazilian Ministry of the Environment (Cadastro Nacional de Unidades de Conservação - CNUC, updated on February 7th, 2017), 9.2% of the Atlantic Forest, 8.3% of the Cerrado biome,	Protected areas are treated at the level of the subregion for marine and terrestrial systems, rather than for individual countries. The data are from UNEP-WCMC, IUCN 2017.
Co-chairs	51	1220			Given the informative detail about the variation of coverage of terrestrial biomes and areas of special biodiversity conservation needs, at least a couple sentences on similar aspects of marine area protection would be appropriate here; perhaps proportion of coral reefs, of mangrove forests, and of the biodiversity-rich estuarine habitats would be possible, and would	Protected areas are treated at the level of the subregion for marine and terrestrial systems. We do not attempt to treat them based on individual biome or ecosystem types.
Virginia Meléndez Ramírez	51	1220	51	1220	and in them participate, among others, 11 ethnic groups involving about	A section has been added on cultural diversity and indigenous groups. Protected areas are treated at the level of the subregion, rather than for individual countries. The data are from UNEP-WCMC, IUCN 2017.
Grant Moir	51	1221	56	1363	Below I have placed general comments that may pertain to this chapter; and/or others. I have not had a chance to review all of the chapters in detail, only briefly, but believe the comments reflect, in part, the type of efforts and challenges, in part, that are typical of communities working on and dealing with RE: BES related issues. There may be more to offer, in addition to below, with further familiarization of the reports etc.	Understood; we appreciate your comments very much.
Virginia Meléndez Ramírez	51	1222	51	1222	Figure 3.27, the projected urban population information is in Cap. 2., can be related to this chapter (Pag. 56, line 1444).	The chapters have been cross-checked

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
United States Government	52	1225	52	1125	Many readers may not know the location of the "Twin Cities;" consider including the country when referencing cities. For example, "Twin Cities, Minneapolis and St. Paul, U.S."	The text has been edited in the current version
Andrea Larissa Boesing	52	1230	52	1255	Maybe it would be nice to say something about population persistence or dynamics of these species recorded in urban areas? Indeed, there is a considerable number of species that occasionaly are recorded within cities. For birds for example, there are very punctual occurrences sometimes related to migration routes or even because some day-trip movements in function of some pulse resources. But it doesn't mean that these species might persist or establish a population in these areas.	Although the reviewers raises an interesting topic, we have decided to avoid adding extra information due to space constraints.
Co-chairs	52	1252			Just not clear what "consequently" refers to. IS the evidence for multiple community assembly processes just the immediately previous sentence (increase in introduced species and greater homogenity of communities), or the whole paragraph. Expand the sentence to clarify.	The text has been edited in the current version, and "consequently" has been changed to "Moreover".
Co-chairs	53	1273		box 3.2	Informative figure but needs a caption, especially the right figure on botanical gardens. What do the colours of the symbols mean, and what do the numbers inside them mean?	A caption has been added to Figure.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Co-chairs	54	1296			I think you mean "now", not "no"	The text has been edited in the current version
André Mader	56	1305			Future trends discussed for the first time. Why here suddenly?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	56	1310	56	1310	Which commonalities?	This term has been deleted in the current version
Elise Belle		1313		1314	"within 25 km of its protected areas"	The text has been edited as required
Elise Belle		1321		1322	"planning across the Americas (Muller et al."	The text has been edited in the current version

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Co-chairs	54	1340			Two points in the sentence require clarification. First, many readers will not know what "fractal spatial distribution" means, and second, is the "high variation in the proportion" variation within individual urban areas (as a general trait of most or all urban areas) or high variation between urban areas (large differences in the diversity of different urban areas. I think the former is meant, but the latter meaning is consistent with how "high variation" is used in many other subsections of this chapter - such as line 1342 just belowtry to clearify both points.	The text has been edited in the current version to address reviewer's concerns
André Mader	57	1343			There is no need to include the word "anthropogenic" here - it is redundant	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
DESP/Sbio/MMA	55	1352	55	1352	The city name is São Paulo, not Sao Pablo.	The text has been edited in the current version
Co-chairs	55	1357	56	1363	A very reasinable summary, but there is no mention of the degree to which knowledge of urban biodiversity - incomplete though it may be - is used in urban planning. Although the topic is more appropriate for development in Chpater 6 on policy optons, it would seem useful to set the stage here for such a disucssion later. If there is a review of how many urban areas currently take biodiversity into account in urban planning, or at least a comment here that such efforts are also in early stages of development, that would be a useful small addition.	This is not the domain of Chapter 3

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Virginia Meléndez Ramírez	55	1358	55	1358	Biodiversity in urban areas, some works: http://www.ieb-chile.cl/uploads/publicaciones/- 1_Pauchard&Barbosa_2013_Ch_28_Urban_Global_Assessmement.pdf, https://link.springer.com/content/pdf/10.1007/978-94-007-7088-1_3.pdf, http://ac.els-cdn.com/S0169204608002004/1-s2.0-S0169204608002004- main.pdf?_tid=daaf47a6-56a7-11e7-b53b- 00000aab0f02&acdnat=1498066638_57990f20c502aebf55f34b16b3fc2743, http://www.scielo.org.mx/pdf/rmbiodiv/v85n4/v85n4a22.pdf	The link provided by the reviewer is not working and therefore we have been unable to access the information.
Andrea Larissa Boesing	56	1366	59	1469	There is no information regarding agroecosystems. Would be it na interesting topic to talk about? There are many examples especially in central america (with coffee), and even in Brazil with cocoa in agroecosystems and its positive impacts maintaining biodiversity or at least facilitating species movement within agricultural landscapes. Moreover, we also have evidence of how harsh pasture lands might be for native species. Maybe some information regarding its expansion and its impacts on biodiversity? Also, the expansion of eucalyptus and pinus plantations in Brazil is an important issue given that they are considered green deserts. Maybe some discussion about this topics could strenght this session.	A section on agroecosystems has been added
Co-chairs	56	1366	59	1448	This type of infomration is appropriate to feature, but by now is also familiar to most readers. If this were the full story, one would ask why anyone ever practices any other form of agriculture. It also encourages agricultural interests to accuse the biodiversity community of withholding information important to the policy discussion. to fully inform the policy dicussion, it is necessary to present some figures on something like yield per ha of intensive agriculture and intensive sylvaculture in comparison to comparable yields per ha from these milpa systems. Earlier sections of the chapter have already spelled out some of the costs of these inhanced produciton systems, with regard to need for fertilizers, pesticides, irrigation etc. So those negative parts of the full picture have been presented. But this part of the picture has to be displayed as well, and this is an appropriate place to do so.	

Reviewer Name	From Page	From Line	Till	Till Line	Comment	<b>Author Annotations</b>
Brenda McAfee	58	1377	Page 58	1377	With respect to trout, some species that are cultured (brook trout, Salvelinus fontinalis) are native to Canada. http://www.dfo-mpo.gc.ca/aquaculture/sector-secteur/species-especes/trout-truite-eng.htm Also refer to box 4.13 in Chapter 4 of the assessment	We use individual species as examples but cannot cover all of them.
Cristobal Diaz	59	1391	59	1396	I agree with the observation written in the text - "Give explanations for trends" because the tendency is different in each subregion	Thank you for your encouraging comment.
Virginia Meléndez Ramírez	57	1394	57	1394	Other map to complete: http://rstb.royalsocietypublishing.org/content/363/1492/789	Maps have been completed and checked in the current version
Co-chairs		1399		1400	Both carp and trout are native to the Americas. Although for carp the species increasingly dominating culture are non-native, some of the most dominant species of trout in cultivation are native to North America, but have been domesticated and far outside their original range. But the statement that there are not native to the Americas is not accurate.	This is an issue that we have not yet addressed.
DESP/Sbio/MMA	57	1400	57	1402	"Although Brazil contains 20% of the world's fish species, aquaculture is solely based on non-native species – some are native to the country, but produced beyond their native ranges (I3N, 2016).": In Brazil, the aquaculture is mainly based on non-native species. To support the tendency presented, we suggest to cite other countries in South America as well.	This section has been revised

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Diana Patricia	59	1403	59	1406	Another case of study can be found in: Dolors Armenteras, Tania Marisol	Due to space constraints we were
Alvarado-Solano					González, Javier Retana, Forest fragmentation and edge influence on fire	limitedin the number of case
					occurrence and intensity under different management types in Amazon	studies that could be included
					forests, Biological Conservation, Volume 159, 2013, Pages 73-79, ISSN 0006-	
					3207, http://dx.doi.org/10.1016/j.biocon.2012.10.026.	
					; Dolors Armenteras, Nelly Rodríguez, Javier Retana, Are conservation	
					strategies effective in avoiding the deforestation of the Colombian Guyana	
					Shield?, Biological Conservation, Volume 142, Issue 7, 2009, Pages 1411-	
					1419, ISSN 0006-3207, http://dx.doi.org/10.1016/j.biocon.2009.02.002;	
		1			Liliana M. Dávalos, Jennifer S. Holmes, Nelly Rodríguez, Dolors Armenteras,	
					Demand for beef is unrelated to pasture expansion in northwestern	
					Amazonia, Biological Conservation, Volume 170, 2014, Pages 64-73, ISSN	
					0006-3207, http://dx.doi.org/10.1016/j.biocon.2013.12.018; D. Armenteras,	
					F. Gast, H. Villareal, Andean forest fragmentation and the	
					representativeness of protected natural areas in the eastern Andes,	
					Colombia, Biological Conservation, Volume 113, Issue 2, 2003, Pages 245-	
					256, ISSN 0006-3207, http://dx.doi.org/10.1016/S0006-3207(02)00359-2.;	
					Dolors Armenteras, Guillermo Rudas, Nelly Rodriguez, Sonia Sua, Milton	
					Romero, Patterns and causes of deforestation in the Colombian Amazon,	
					Ecological Indicators, Volume 6, Issue 2, 2006, Pages 353-368, ISSN 1470-	
					160X, http://dx.doi.org/10.1016/j.ecolind.2005.03.014; Alvarado-Solano &	
					Otero-Ospina. 2017. Natural areas of tropical dry forest in Valle del Cauca,	
					Colombia: an opportunity for restoration. Biota Colombiana	
					http://repository.humboldt.org.co/handle/20.500.11761/32528;	
					Armenteras, D., N. Rodríguez, J. Retana y M. Morales.	
					2011. Understanding deforestation in montane and	
					lowland forests of the Colombian Andes. Regional	
					Environmental Change 11(3): 693-705. DOI: 10.1007/	
					s10113-010-0200-y; Armenteras, D., E. Cabrera, N. Rodríguez y J. Retana	
Cristobal Diaz	60	1429	60	1430	I suggest modify this phrase as is written:" This implies intensified conflicts	The text has been edited in the
		1			between food and biofuelproduction, and nature conservation".	current version

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Brenda McAfee	60	1434	60	1436	A reference should be provided for the suggestion.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	61	1444			This title does not refer to future trends, but future trends are covered in the text.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Cristobal Diaz	61	1446	109	2915	The developments of point 3.3.1.1 North America Subregion(1446 -2048) and 3.3.1.4 South America Subregion (2243 -2915) belonging to point 3.3.1 Terrestrial bimes; are dispropotionately developed in relation with Mesoamerica and the Caribbean subregions of tropical richness and high grade of endemism in terrestrial biomes flora and fona that to be worthwhile to be analized more extensive	
Co-chairs	59	1449	59	1460	What about North America. The demand will continue, but will this mean going back to land conversions again or to increasing dependince on important food?	We appreciate reviewer's comment on that. However, future trends have now been removed and will be addressed in Chapter 5
Ederson A Zanetti	59	1467	59	1567	There should be a couple of paragraphs on silvicutlure for wood construction and wood energy. It is mentioned on the title - silviculture	It is true that silviculture is treated in only a cursory way in this section.

Reviewer Name	From Page	From Line	Till Page	Till	Comment	Author Annotations
Co-chairs	59	1467	Page	Line	The sectoin has done a good job covering off the terrestrial part of agriculture production systems, a shorter by factural treatment of sylvaculture, but barely mentioned the extent to which aquaculture production systems have changed anything about the coastal or lacustrine areas where it is expanding. And like most treatments of production systems, it has said nothing about how selective fishing for a few preferred species has altered natural marine systems. It is not in fashion to treat fisheries as just another conversion of a natural system to a production system, but there should be at least a sentence pointing to whatever part of Chapter 3 has that part of the story of how the need for food by an increasing urbanized populaiton that is also increasing per capita consumption is leading the sea to be treated like land has been,	This is largely the domain of Chapter 4
Héctor Tuy	60	1468			A series of maps and chats about ecosystem (ecoregions) fragmentation for the last 20 years would help; one for the all region and then one for each subregion. This would be helpful because deforestation data is not enought.	level of subregions and biomes,
Virginia Meléndez Ramírez	60	1468	60	1468	3.3. Status and recent trends in natural systems, 3.3.1. Terrestrial biomes, North American synthesizer, has 21 pages (60-81)	The chapter has been reorganized and substantially rewritten.
André Mader	61	1470				It is not clear where this comment is referring to. The chapter has been substantially edited.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Elizabeth Hess	60	1473	60		There is reference to eastern US and Canada and the Pacific Northwest. Is that the Pacific Northwest in both countries or just one. Not clear	It is not clear where this comment is referring to. The chapter has been substantially edited.
André Mader	62	1479			Are tropical forests relevant in this section?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	62	1481			How many tree species?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Brenda McAfee	62	1493	62	1496	Do the numbers for exrtinct and threatened species refer to all of USA or only temperate forests or temperate and and boreal forests in USA?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
United States Government	62	1493	62	1496	Suggest clarifying that these are forest-associated species, not all species (as noted in the accompanying figures).	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
		Line	Page			
André Mader	62	1493	62	1496	What is the relevance to the discussion on temperate and boreal forests and woodlands?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	63	1497	63	1497	Increase size of text in figures.	The size of the text in the Figures has been increased.
André Mader	63	1497	63	1499	Why not a figure covering the whole subregion?	We have not included a Figure covering the whole subregion because less than 1% of North American temperate deciduous forests have not experienced anthropogenic disturbance.
Elise Belle		1499		1499	"excluding freshwater fish and invertebrates"	This text has been edited in the current version.
Elise Belle		1501		1501	"Percentage of forest-associated species"	This text has been edited in the current version.
André Mader	63	1501	63	1502	Does this figure refer to the whole North American subregion?	We have not included a Figure covering the whole subregion because less than 1% of North American temperate deciduous forests have not experienced anthropogenic disturbance.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Andrea Larissa Boesing	61	1518	61	1521	I see 'extinct' or 'at risk of extinction' as different things - even though the end will be the same. Can you use the numbers of real extinctions and at risk of extinction?	The writting has been homogenized following reviewer's suggestion.
Thomas Brooks	61	1518	62	1527		Figure 3.30 has been replaced in the current version.
André Mader	64	1521				We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Krista Locs	64	1536	65		Box 3.3 Woodland Caribou. Suggest rewording the text of the box to the following: One key terrestrial mammal species at risk throughout Canada's boreal forest is the Woodland Caribou (Rangifer tarandus caribou), Boreal population (referred to as 'boreal caribou'). The principal cause of its decline is the loss, degradation and fragmentation of habitat (primarily mature coniferous forest), both from anthropogenic and natural sources, and increased predation due to habitat alteration. The recovery goal for boreal caribou is to achieve self-sustaining local populations in all boreal caribou ranges throughout their current distribution in Canada, to the extent possible. Success in the recovery of boreal caribou will depend on the commitment, collaboration and cooperation among all interested parties, including federal departments, provinces and territories, wildlife management boards, Indigenous communities, stakeholders, and other organizations involved in their conservation and management (Environment Canada, 2012 http://www.registrelepsararegistry.gc.ca/default.asp?lang=En&n=33FF100B-1)	
Elise Belle	63	1536	64		Box 3.3: "and fragmentation of its habitat"	This text has been edited in the current version.
André Mader	65	1542		1543	This sentence seems to suggest that Quebec, Ontario, northern prairies and Alaska are Canadian maritime territories . Needs to be re-worded slightly.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elise Belle	64	1549	65	1550	Box 3.4: "they are found in one of the significant"; "economical benefits through timber [] but also access to culturally important".  Delete last sentence of paragraph or rephrase.  "to the forest, and more specifically its sustainable forestry experience."  "and includes requirements in relation to logging, managing and processing the forest resources"  Not sure the last paragraph is needed.	The last paragraph of the box has been cut off.
Cristobal Diaz	66	1549	66	1550	Please extract the main ideas in Box 3.4, because is very large.	The wording of this part of the text has been reduced.
André Mader	65	1549	66		This box could be made more concise	The wording of this part of the text has been reduced.
Cristobal Diaz	66	1550	70	1684		The IPBES maps of the biome classifications were used. See Chapter 1

<b>Reviewer Name</b>	From Page		Till	Till	Comment	<b>Author Annotations</b>
André Mader	66	1551	Page	Line	What is meant by "strictly" endemic?	We have defined the region of study as the floristic province. Therefore, the "strictly endemic" term is appropiate.
André Mader	67	1562	67	1563	What are "native grasslands", and what is their relevance to MFWS?	A new parenthetical comment about how grasslands are important to understand Med woodlands has been included. Also, the word "plant" has been added to clarify the meaning of "native" in this context.
Elizabeth Hess	64	1563	64	1563	Replace entire Box 3.3 with this text: Woodland Caribou (Rangifer tarandus caribou), Boreal population ('boreal caribou') – Boreal caribou are an iconic species that occur broadly across Canada's boreal forest in nine provinces and territories. They require large areas of undisturbed habitat rich in mature to old-growth coniferous forest. Boreal caribou are listed as Threatened under Canada's Species at Risk Act and as such, Environment and Climate Change Canada published a recovery strategy in 2012. Habitat alteration (i.e. habitat loss, degradation, and fragmentation) from both anthropogenic and natural sources, and increased predation as a result of habitat alteration have led to local population declines throughout their distribution. The recovery of boreal caribou requires actions that will vary according to both the habitat and population conditions within each boreal caribou range.  (http://www.sararegistry.gc.ca/document/default_e.cfm?documentID=225 3)	The box about the woodland

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
André Mader	67	1571			What are California grasslands", and what is their relevance to MFWS?	A new parenthetical comment about how grasslands are important to understand Med woodlands has been included. Also, the word "plant" has been added to clarify the meaning of "native" in this context.
André Mader	67	1588	67	1589	Use of terms like "surprising" does not tell the reader much about the thing being described.	The word "surprising" has been changed to "high levels".
Harald Pauli	68	1595	68	1597	however, I'm not convinced about the following: 'and plants (Crimmins et al., 2011), and linked to a trend towards increased rainfall. For plants, there	
Cristobal Diaz	68	1602	68	1603	Please paid attention - (Griffin and Anchukaitis, 2014) can't analyze "California experienced a severe drought from 2012-2016".	The text has been fixed.
Harald Pauli	71	1711	71	1711	I also would expect that exotic species are rare in NW-American alpines, but was it studied yet or is it mentioned in Malanson et al. 2015?	This aspect is not mentioned in Malanson et al. (2015).

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Elise Belle	74	1820	74	1821	"Figure 3.32. Total area and Mean Fragmentation Index for each terrestrial ecoregion in North America, using a north American Lambert Conformal Conic Projection."	Figures have been readapted in the current version.
Elise Belle		1822		1823	Why 'potential extent'. Delete sentence or clarify.	This text has been edited in the current version.
United States Government	74	1825	74	1825	"causes loss of at" may be missing a word to indicate what that loss is, or it may be indicating loss in general; please revise.	We have revised the expression and changed it accordingly ("causes loss at").
United States Government	75	1835	75	1835	"extent" should be "extant" (also line 1836)	This text has been edited in the current version.
André Mader	75	1835			Extant?	The term "extant" has been checked and edited throughout the text.
Elise Belle	75	1840	75	1848	These graphs are a bit complicated to understand and interpret. It would help to have some clarifications about what they represent in the main text (or figure legend).	Figures and tables have largely been edited in the current version for clarification
André Mader	75	1840			This figure is purely "climatic" (i.e. it is a bout a driver, the focus of chapter 4). Considering the focus of chapter 3, would it be possible to replace it with one that shows effects on the system rather?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	75	1846			Extant?	The term "extant" has been checked and edited throughout the text.

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
André Mader	75	1847			Extant?	The term "extant" has been checked and edited throughout the text.
André Mader	76	1850			Is this figure possible? Apparently the whole USA has fewer than 20,000 (vascular) plant species	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	76	1856	76	1857	Is this an appropriate comparison? There are probably ecological reasons for the Amazon's snake diversity being low relative to its overall species richness. Perhaps more appropriate to compare to other desert regions, or to North America as a whole?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	77	1870	77	1870	Add title of x-axis and '120' marking.  Delete 'Agriculture' and 'Urban' from figure and explain in the legend what these 100-110 and 110-120 values correspond to.	Figures and tables have largely been edited in the current version for clarification
André Mader	77	1885	77	1892	Very specific examples (e.g. page 77 lines 1885-1892) might be more appropriate in boxes than as part of the body text	We appreciate reviewer's comment. Unfortunately, we do not have any space to add additional boxes.
Elise Belle	78	1900	78	1900	"temperature (MAT) and B) Mean annual precipitation (MAP) between 1990 and"	This text has been deleted from the original version.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
Elizabeth Hess	78	1964	78		of the 240 M Ha of wetlands in North America, 129M Ha are in Canada. Would be good to say that 54% of wetlands in N. America are in Canada. Also note that M Ha is used this section, but elsewhere km(2) was used.	The units have been edited
Elizabeth Hess	78	1964	78	1964	Not sure where the 12.6% comes from. According to Table 1.5, the area of N. America is 21,415,862 which would give a value of 11.2% if there are 240 M ha of wetlands in North America. Please verify	The statement comes from (Dahl, 1990, 2011; Federal Provincial and Territorial Governments of Canada, 2010). The discrepancy may arise because Greenland is included in the Americas region, but it is not clear.
Elizabeth Hess	78	1965	78	1966	Would be good to indicate that Hudson Bay Lowlands and the Mackenzie River Watershed are in Canada. Will help readers	We have generally tried not to focus on individual countries within the subregion except where the data is provided at the country level and has to be presented this way for accuracy
André Mader	78	1990	78	1904	This figure is purely "climatic" (i.e. it is a bout a driver, the focus of chapter 4). Considering the focus of chapter 3, would it be possible to replace it with one that shows effects on the system rather?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Royal Gardner	79	1991	79	1993	It is not correct to state that wetland losses in US continue to be greatest from agriculture. Losses from silviculture and rural and urban development now outpace agriculture. See page 56 of Chapter 5 of the Americas SOD, which cites to the more recent Dahl (2015). There was actually a net gain in wetlands in agricultural areas from 2004-2009. See also pages 16-18 of NAS (2001) https://www.nap.edu/catalog/10134/compensating-for-wetland-losses-under-the-clean-water-act	This issue still needs to be addressed

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Royal Gardner	79	1991	79		1 1 0	This would be the domain of Chapter 4
Elizabeth Hess	79	1995	79	1995	Reference to Canada's Federal Policy on Wetland Conservation is not accurate. There are no disincentives for filling and draining wetlands outlined in the Federal Wetland Policy. The Federal Policy on Wetland Conservation outlines seven strategies to provide for the use and management of wetlands so that they can continue to provide a broad range of functions on a sustainable basis. These strategies are aimed at working in concert with other ongoing initiatives for wetland conservation. They are aimed at providing practical direction, support, and tools to program managers. They set out direction to put the federal house in order, to manage federal wetlands, and to ensure effective wetland science and public awareness actions both nationally and internationally. All seven strategies are deemed to be critical to the success of the Policy.	It is not clear that the statement in the document is incorrect or how it could be revised succinctly. We are not able to treat the full policy here.
André Mader	81	2009	82	2048	This section seems somewhat less comprehensive than the North America ones and lacks sub-sections and information on future trends.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
Brenda McAfee	81	2016	Page 81	2021	It seems a bit strange to start off a paragraph that provides references for species numbers to start off by saying that species counts are uncertain. This statement would need a reference or further explanation.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Royal Gardner	80	2033	80	2046	Will "Future trends" make reference to the Trump administration's proposal to limit federal regulation of wetlands under the Clean Water Act?	We appreciate reviewer's comment. Unfortunately, we have been asked not to address policy issues
André Mader	82	2049	86	2171	Very sparse compared to the north American sections. I think readers would expect a better balance.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	82	2049	86	2171	What about freshwater systems and grasslands?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Harald Pauli	82	2050	83	2086	What about amphibian decline, either through habitat destruction, chytridiomycosis or climate change, which were reported to being rather drastic in several parts of MA (e.g. Mendelson et al. 2004. Factors associated with the catastrophic decline of a cloudforest frog fauna in Guatemala; Pounds et al. 2006. Widespread amphibian extinctions from epidemic disease driven by global warming; Cheng et al. 2011. Coincident mass extirpation of neotropical amphibians with the emergence of the infectious fungal pathogen Batrachochytrium dendrobatidis).  Further, I miss any account on cloud forests and alpine areas in MA, although areas are small and fragmented, but because of this the risk of biodiversity losses may be especially high. In this context the following should be included: 'Shifts in species composition, driven by climate change-induced species migration, were found an extensive elevation gradient (70-2800m) were found in Costa Rican humid tropical forest (Feeley et al. 2013. Compositional shifts in Costa Rican forests due to climate-driven species migrations. GCB).'	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	82	2050	83	2086	The different terms used here are a bit confusing. What is the relationship between "Tropical and subtropical humid forests", and "MBF"?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	82	2050	83	2086	Future trends?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elise Belle	82	2060	82	2061	If the reference is from 2005 or 2008, it is now likely to cover a larger proportion of the territory, so I would suggest editing as follows: "In [ADD YEAR], the Central American System of Protected Areas (SICAP) included 669 protected aeras covering 129,640 km2, representing 25% of the territory, the majority of which is made of MBF"	We haven't been able to find more recent data
Elise Belle	82	2062	83	2066	This reference is quite old (from 2005), it would be good to check in the World Database of Protected Areas (WDPA) if these PAs are still the largest ones. This can be found at www.protectedplanet.net.  Reference: UNEP-WCMC and IUCN (2017). Protected Planet. Cambridge, UK: UNEP-WCMC and IUCN. Available at: www.protectedplanet.net.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	83	2066	83	2067	Reference for Mexico? You could also add that in Mexico, protected areas currently cover 14.9% of land and inland waters and 21.8% of coastal and marine areas under national jurisdiction (UNEP-WCMC and IUCN, 2017). See: www.protectedplanet.net/country/MX. Reference: UNEP-WCMC and IUCN (2017). Protected Planet. Cambridge, UK: UNEP-WCMC and IUCN. Available at: www.protectedplanet.net.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Virginia Meléndez Ramírez	88	2088	88	2088	Mesoamerica can be documented more, e.g. México quinto informe DB Mex CONABIO: https://www.cbd.int/doc/world/mx/mx-nr-05-es.pdf, https://www.uv.mx/personal/tcarmona/files/2010/08/Dirzo-2004.pdf, http://www.scielo.org.mx/pdf/bs/v90n2/v90n2a10.pdf Libro Dirzo 2012, http://www.undp.org/content/dam/peru/docs/Publicaciones%20medio%2 Oambiente/PNUDValoracionEconomicaBiodiversidadInforme.pdf, http://www.latinamerica.undp.org/content/dam/undp/library/Environmen t%20and%20Energy/biodiversity/Latin-America-and-the-CaribbeanA-Biodiversity-SuperpowerPolicy_Brief_SPANISH.pdf	We have made a great effort to increase the representation of Mesoamerica in the revised version of the chapter. A number of new contributing authors from Mesoamerica have been added.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
André Mader	83	2088	Page	Line	"Tropical dry forests (TDF) are considered one of the most threatened of all terrestrial ecosystems" in the world or in the region or in the subregion?	The sentence has been edited to clarify it is worlwide
André Mader	83	2088	84	2124	What about subtropicaldry forests?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	83	2088	84	2124	Future trends?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Thomas Brooks	82	2097	82	2097	Important to mention the very high endemism of - and very high threat to - amphibian species in the Mesoamerican highlands. A good primary source is Lamoreux et al. (2015 https://portals.iucn.org/library/node/45100).	Amphibians are treated at a broader scale. See Fig. 3.4, which shows high species richness and phylogenetic endemism for amphibians in Mesoamerica
Ederson A Zanetti	82	2106	82	2106	There should be a paragraph on current cultivated and consume trees for wood construction and energy	We acknowledge that silviculture is only treated in a cursory way in the chapter

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
André Mader	84	2125	84	Line 2131	Very little information here	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Ederson A Zanetti	83	2126	83	2126	There should be mention to the increase on atmospheric CO2 available and increase on productivity of vegetation within the region. There are studies from NASA about it	We have not been able to treat the impacts of elevated CO2 on vegetation; this is the domain of Chapter 4 but also largely falls outside the focal scope of the Regional assessment. Hopefully it will be treated in the Global assessment
Ederson A Zanetti	83	2147	83	2147	There should be a paragraph on current cultivated and consume trees for wood construction and energy	We acknowledge that silviculture is only treated in a cursory way in the chapter
E. Arguedas y C. Roldán	85	2161	85	2162	Subsistence is a threat? For wetlands? It is a old source	The word subsistence has been eliminated from the text.

Reviewer Name	From Page		Till	Till Line	Comment	Author Annotations
Ederson A Zanetti	84	2164	84		There should be mention to the increase on atmospheric CO2 available and increase on productivity of vegetation within the region. There are studies from NASA about it	We have not been able to treat the impacts of elevated CO2 on vegetation; this is the domain of Chapter 4 but also largely falls outside the focal scope of the Regional assessment. Hopefully it will be treated in the Global assessment
M. en C. Jessica Bravo Cadena	84	2166	84	2172	Could include information about recent trends of Drylands and deserts with data of Capital natural de México, vol. II: Estado de conservación y tendencias de cambio., Edition: Primera, Chapter: Tendencias de cambio y estado de la biodiversidad, los ecosistemas y sus servicios Publisher: CONABIO, Editors: Sarukan, et http://www.biodiversidad.gob.mx/pais/pdf/CapNatMex/Vol%20II/II01_Fac tores%20de%20cambio%20y%20estado%20de%20la%20biodiversidad.pdf González, M. F. (2012). Las zonas áridas y semiáridas de México y su vegetación. Secretaría de Medio Ambiente y Recursos Naturales, Instituto Nacional de Ecología: Mexico City, Mexico.	somewhat and the North American and Mesoamerican components have been combined. Box 3.7 has been
Cristobal Diaz	86	2172	88	2242	Please consult with cuban Ph.Ds Dalia Salabarria in Chapter 6 and Avelino Suarez in Chapter 4 in order to include more information and references about the situation and work in Cuban island the big island in the Caribbean and with sistematically research and study and projects about forests	We were not able to accommodate this request

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
André Mader	86	2172	88	2242	Very sparse and un-detailed, especially compared with the north American sections. I think readers would expect a better balance.	We have tried very hard to provide a more balanced treatment but this will surely not satisfy all readers
André Mader	87	2217	88	2242	Future trends?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	87	2217	88	2242	Are there only two biomes/units of analysis relevant to the entire subregion?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
The Biodiversity Indicators Partnership (BIP)	86	2232	86	2233	Good use of the Red List to illustrate level of threat to biodiversity in Caribbean.	Thank you for your encouraging comment.
Thomas Brooks	86	2232	86	2233	Good use of the Red List to illustrate level of threat to biodiversity in Caribbean.	Thank you for your encouraging comment.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
CENAP/ICMBio	88	2243	90	2319	Concerning threats to biodiversity in tropical forests, it is interesting to include hunting pressure as a relevant threat to the conservation of mammal species, since together with habitat loss is one of the main threats to species extinction and is an important criterion of the IUCN.	We have now added a new paragraph specifically addressing this issue in the section on tropical and subtropical humid forests of South America.
André Mader	88	2243	109	2915	Perhaps it should be explained at the beginning of the South America section that freshwater systems are not covered separately	The chapter has been reorganized and substantially rewritten. Hopefully this is now more clear
André Mader	88	2245	88	2247	I think this is a great example of how each of the biome sections should begin, however it could be a little bit more detailed.	Thank you for your encouraging comment. Introduction is now more detailed.
Diana Patricia Alvarado-Solano	89	2276	89	2278	Related with orchids and climate change: Reina-Rodríguez et al. 2017. ORCHID DISTRIBUTION AND BIOCLIMATIC NICHES AS A STRATEGY TO CLIMATE CHANGE IN AREAS OF TROPICAL DRY FOREST IN COLOMBIA. LANKESTERIANA 17(1): 17-47. doi+: http://dx.doi.org/10.15517/lank.v17i1.27999; Sánchez et al. 2016. Edge Influence on Diversity of Orchids in Andean Cloud Forests. Forests 7(63). DOI: 10.3390/f7030063	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
		Line	Page	Line		
André Mader	89	2280	90	2319	Why so little on ACF here? For example, it might be worth mentioning that it is arguably the world's "hottest" biodiversity hotspot!	We tried to allocate a similar amount of text for every unit of analysis, and agree that every single one of the biomes would need an entire separate
						assessment. Unfortunately we
Harald Pauli	89	2303	91	2348	Amphibian declines through chytridiomycosis and other causes should be mentioned here and/or in the Andean section below (Cheng et al. 2011; Ruiz et al. 2008; Eterovick et al. 2005).  Additional refs.:  'Ruiz et al. 2008. Batrachochytriumdendrobatidis and Chytridiomycosis in Anuran Amphibians of Colombia. Eco Health 5, 27-33.  Eterovick et al. 2005. Amphibian Declines in Brazil: An Overview. Biotropica 37, 166-179.'	This may be more in the domain of Chapter 4

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Diana Patricia	89	2303	89	2304	Another case of study can be found in: Dolors Armenteras, Tania Marisol	We thank you for this list of
Alvarado-Solano					González, Javier Retana, Forest fragmentation and edge influence on fire	relevant papers. We have now
					occurrence and intensity under different management types in Amazon	cited Armenteras et al. (2009) in
					forests, Biological Conservation, Volume 159, 2013, Pages 73-79, ISSN 0006-	· · · · · · · · · · · · · · · · · · ·
					3207, http://dx.doi.org/10.1016/j.biocon.2012.10.026.	However, most other papers
					; Dolors Armenteras, Nelly Rodríguez, Javier Retana, Are conservation	reffer to drivers of deforestation,
					strategies effective in avoiding the deforestation of the Colombian Guyana	which is the central topic in
					Shield?, Biological Conservation, Volume 142, Issue 7, 2009, Pages 1411-	Chapter 4. We have forwarded
					1419, ISSN 0006-3207, http://dx.doi.org/10.1016/j.biocon.2009.02.002;	the list of papers to people in
					Liliana M. Dávalos, Jennifer S. Holmes, Nelly Rodríguez, Dolors Armenteras,	charge of that Chapter.
					Demand for beef is unrelated to pasture expansion in northwestern	
					Amazonia, Biological Conservation, Volume 170, 2014, Pages 64-73, ISSN	
					0006-3207, http://dx.doi.org/10.1016/j.biocon.2013.12.018; D. Armenteras,	
					F. Gast, H. Villareal, Andean forest fragmentation and the	
					representativeness of protected natural areas in the eastern Andes,	
					Colombia, Biological Conservation, Volume 113, Issue 2, 2003, Pages 245-	
					256, ISSN 0006-3207, http://dx.doi.org/10.1016/S0006-3207(02)00359-2.;	
					Dolors Armenteras, Guillermo Rudas, Nelly Rodriguez, Sonia Sua, Milton	
					Romero, Patterns and causes of deforestation in the Colombian Amazon,	
					Ecological Indicators, Volume 6, Issue 2, 2006, Pages 353-368, ISSN 1470-	
					160X, http://dx.doi.org/10.1016/j.ecolind.2005.03.014; Alvarado-Solano &	
					Otero-Ospina. 2017. Natural areas of tropical dry forest in Valle del Cauca,	
					Colombia: an opportunity for restoration. Biota Colombiana	
					http://repository.humboldt.org.co/handle/20.500.11761/32528;	
					Armenteras, D., N. Rodríguez, J. Retana y M. Morales.	
					2011. Understanding deforestation in montane and	
					lowland forests of the Colombian Andes. Regional	
					Environmental Change 11(3): 693-705. DOI: 10.1007/	
					s10113-010-0200-y; Armenteras, D., E. Cabrera, N. Rodríguez y J. Retana	

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
André Mader	89	<b>Line</b> 2303	Page	Line	Use of vague terminology like "much" is probably not useful	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Andrea Larissa Boesing	88	2313	88	2314	Maybe to mention that C storage in pristine forests is higher than plantations as well?	We have not been able to find a reference to support this statement.
André Mader	90	2318	90	2319	This statement about ACF and exotic plantations is confusing. Are you considering exotic plantations as a contribution to ACF? That could be very controversial.	We have rewritten the sentence to clarify that humans contributed to breed new varieties of manioc
Ederson A Zanetti	88	2324	88	2324	There should be a paragraph on current cultivated and consume trees for wood construction and energy	Although reviewer's idea is interesting, space limitations prevents us from adding this kind of extra information.
André Mader	90	2326	91	2348	What about ACF?	We are now statig status and trend factrs available in the literature.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Philip M. Fearnside	88	2328	88	2329	For a recent review of fragmentation effects see: Laurance, W.F., J.L.C. Camargo, P.M. Fearnside, T.E. Lovejoy, G.B. Williamson, R.C.G. Mesquita, C.F.J. Meyer, P.E.D. Bobrowiec & S.G.W. Laurance. 2017. An Amazonian rainforest and its fragments as a laboratory of global change. Biological Reviews doi: 10.1111/brv.12343 (Online version published 30 May 2017). [open access].	The reference has been added to the text following reviewer's suggestion.
Andrea Larissa	89	2337	89	2338	Maybe it would be nice to include the thresholds estimates in south	Although reviewer's idea is
Boesing					america? ~40% for vascular plants, ~30 for birds, ~30% for small mammals, etc.	interesting, we think it is better not to go into this level of detail considering we need to address biome-wide patterns.
Philip M.	89	2349	89	2349	For a recent review of status of forest (and other S. American ecosystems)	We thank you for this suggestion
Fearnside					see: Fearnside, P.M. 2017. South American natural ecosystems, status of. In: Reference Module in Life Sciences, Elsevier, Amsterdam, The Netherlands. http://dx.doi.org/10.1016/B978-0-12-809633-8.02224-X	but prefer citing the original references, as we already do.
André Mader	91	2349	91	2377	Future trends?	Future trends will now be addressed in Chapter 5
The Biodiversity Indicators Partnership (BIP)	89	2351	89	2352	Good use of the Red List to illustrate level of threat to Amazonian trees.	Thank you for the encouraging comment
Thomas Brooks	89	2351	89	2352	Good use of the Red List to illustrate level of threat to Amazonian trees.	Thank you for the encouraging comment

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
André Mader	91	2357	Page	Line	Are grasslands and woodlands relevant to this section about forest?	We believe they are, as our focus in on "Tropical and subtropical humid forests".
Diana Patricia Alvarado-Solano	91	2358	91	2360	The exotic animals that are now the base for livestock production in Meso and SouthAmerica where introduced by Spaniards during the colonization. Its important to mention this in a way to make notice about the time frame in which the different ecosystems has been under land use conversion. Also,is important to present the statistics for the LAC the cover extent and porcentage of TDF under protection (Sánchez-Azofeifa et al. 2005. Research priorities for neotropical dry forests. Biotropica. DOI: 10.1111/j.1744-7429.2005.00066.x; Sánchez-Cuervo et al. 2012.Land Cover Change in Colombia: Surprising Forest Recovery Trends between 2001 and 2010. PlosOne.doi:10.1371/journal.pone.0043943; Romero-Duque et al. 2007. Structure and diversity of secondary tropical dry forests in Mexico, differing in their prior land-use history. Forest Ecology and Management. DOI: doi:10.1016/j.foreco.2007.07.002; Quesada et al. 2009. Succession and management of tropical dry forests in the Americas: Review and new perspectives. Forest Ecology and Management. doi:10.1016/j.foreco.2009.06.023; Alvarado-Solano & Otero. 2017. Natural areas of tropical dry forest in Valle del Cauca, Colombia: an opportunity for restoration. DOI: 10.21068/c2017.v18s01a01; Pizano & García. 2014. El Bosque Seco Tropical en Colombia. Instituto de Investigación de Recursos Biológicos Alexander von Humboldt (IAvH). Available at: http://www.humboldt.org.co/es/component/k2/item/529-el-bosque-secotropical-en-colombia	

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Ederson A Zanetti	89	2366	89		There should be mention to the increase on atmospheric CO2 available and increase on productivity of vegetation within the region. There are studies from NASA about it	We have not been able to treat the impacts of elevated CO2 on vegetation; this is the domain of Chapter 4 but also largely falls outside the focal scope of the Regional assessment. Hopefully it will be treated in the Global assessment
André Mader	92	2379			What is meant by "distinctive" here?	The word has been deleted from this part of the text
Thomas Brooks	90	2385	90	2385	In addition, species-area models predict ongoing loss extinctions of Atlantic Forest endemic birds (eg Brooks & Balmford 1996 Nature DOI: 10.1038/380115a0)	Future trends are treated in Chapter 5
André Mader	92	2387			"Monito de Monte" is not a deer (http://www.iucnredlist.org/details/6834/0)	"Monito del Monte" has been deleted from the text.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
		Line	Page			
Elise Belle	93	2430	93	2430	Reference?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle		2435		2435	"conserved in terms of the state of conservation of its protected areas"	This part of the text has been deleted in the current version.
Elise Belle		2436		2437	Reference of last sentence? Perhaps you could expand a bit on that.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	94	2439	94	2439	"Figure 3.36. Present and modelled future"	This part of the text has been deleted in the current version.
Andrea Larissa Boesing	91	2441	91	2443	mammalian herbivores' here would be domestic animals like cattle or horses?	Correct

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Elise Belle		2446		2447	"change scenarios show an increase in extinction risks (Keith et al. 2008). However, modelled distributions of Nothofagus forests show that some species will also benefit from climate change (Arlacón"	This part of the text has been deleted in the current version.
André Mader	95	2461			This acronym is different to the one used for North America	The acronym has been fixed up.
Elise Belle	96	2483	96	2483	Increase size of text in figure legend and size of maps.	The maps have been deleted due to space constraints and to avoid unnecessary information.
André Mader	96	2483			This is a really complex figure, which is not referred to sufficiently in the text what is the difference between the left and the central figures?	The figure has been deleted.
André Mader	97	2513	97	2517	This seems more appropriate for chapter 6, but it sounds quite policy-prescriptive.	The sentence has been deleted following reviewer's suggestion.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
		Line		Line		
Elise Belle	97	2531	97	2531	Increase size of graph.	The size of the graph has been increased in the current version
Elise Belle	97	2533	97	2533	"of Central Chili, between 1976 and 2014."	The sentence has been fixed following reviewer's suggestion
André Mader	99	2580			Why is this figure here, and not at the beginning of the section on South America?	This Figure was added after completing the document. We decided to place it at the end ot the document to avoid changing the numbers from other Figures.
André Mader	99	2581	100	2592	The term "matorral" is used here but not in the text	The term matoral is no longer used.
André Mader	100	2595	100	2596	I think that "tropical" and "alpine" might be contradictory terms.	To avoid confusion we refer above-tree line habitats as "high elevation areas".

Reviewer Name	From Page	From Line	Till	Till Line	Comment	Author Annotations
Harald Pauli	100	2605	Page 100	2606	suggest to add after 'Sklenář et al., 2014),':where mountain-top vegetation was found to be richer in genera and species in the páramo compared to the puna region (Questa et al. 2016), however, puna and southern Andean steppe house more endemic plant genera than does páramo (Arroyo, Cavieres, and Fuego, 2013).' additional ref.: 'Cuesta, F., Muriel, P., Llambí, L. D., Halloy, S., Aguirre, N., Beck, S., Carilla, J., Meneses, R. I., Cuello, S., Grau, A., Gámez, L. E., Irazábal, J., Jácome, J., Jaramillo, R., Ramírez, L., Samaniego, N., Suárez-Duque, D., Thompson, N., Tupayachi, A., Viñas, P., Yager, K., Becerra, M. T., Pauli, H. and Gosling, W. D. (2016). Latitudinal and altitudinal patterns of plant community diversity on mountain summits across the tropical Andes. Ecography, doi 10.1111/ecog.02567.'	The reviewer's edits have been added to the text.
Harald Pauli	101	2648	101	2650	suggest to add after 'Sklenář 2016).: 'repeated surveys of permanent plots in tropical high-Andean vegetation are rare, but baseline data and plots were recently established across the equatorial and seasonal-tropical Andes (Questa et al. 2016).  ref.: 'Cuesta, F., Muriel, P., Llambí, L. D., Halloy, S., Aguirre, N., Beck, S., Carilla, J., Meneses, R. I., Cuello, S., Grau, A., Gámez, L. E., Irazábal, J., Jácome, J., Jaramillo, R., Ramírez, L., Samaniego, N., Suárez-Duque, D., Thompson, N., Tupayachi, A., Viñas, P., Yager, K., Becerra, M. T., Pauli, H. and Gosling, W. D. (2016). Latitudinal and altitudinal patterns of plant community diversity on mountain summits across the tropical Andes. Ecography, doi: [10.1111/ecog.02567]'	We appreciate reviewer's concers, although this point should be dealt with in Chapter 1

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
juan comerma	102	2681	102	2681	There is no mention of the high resilience of savannas,,but also it would be important to add this aspects for all Units of Analysis	We appreciate reviewer's concern, although this point should be dealt with in Chapter 1
Elise Belle	103	2706	103	2707	Explain the difference between gross and net loss and how it was calculated.	Although the reviewer's idea is interesting, we decided to avoid this level of detail due to space constraints.
juan comerma	104	2719	104	2720	There is no mention of savannas in Venezuela, Colombia, Bolivia , mostly used in rangeland sand, including several wetlandas in Venezuela and Colombia	The savannas have now been mentioned.
DESP/Sbio/MMA	102	2734	102	2734	The state name is Mato Grosso, not Matto Grosso.	The state name has been changed following reviewer's suggestion.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Giselda Durigan	102	2742	103	2752	I would add an additional threat to the Cerrado biodiversity, that is fire suppression (Durigan & Ratter 2016) and woody encroachment (Stevens et al 2016). Sources: (1) Durigan, G., & Ratter, J. A. (2016). The need for a consistent fire policy for Cerrado conservation. Journal of Applied Ecology, 53(1), 11-15. (2) Stevens, N., Lehmann, C. E., Murphy, B. P., & Durigan, G. (2017). Savanna woody encroachment is widespread across three continents. Global change biology, 23(1), 235-244.	The additional threat has been added followin reviewer's suggestion.
Giselda Durigan	103	2763	104	2776	Woody encroachment is a silent threat to the Cerrado biodiversity. We have a paper in press showing huge losses of endemic plants and ants biodiversity as biomass increases and there is a biome shift, with open savanna turning into forest vegetation. Woody encroachment has been recorded in the whole Cerrado, mostly associated with fire suppression. Besides, I see a high risk of afforestation across the tropical savannas as a way to attend the global agreements of Forest and Landscape Restoration for carbon sequestration. (See Veldman, J. W., Overbeck, G. E., Negreiros, D., Mahy, G., Le Stradic, S., Fernandes, G. W., & Bond, W. J. (2015). Where tree planting and forest expansion are bad for biodiversity and ecosystem services. BioScience, 65(10), 1011-1018.)	We have added this new reference following reviewer's suggestion.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
DESP/Sbio/MMA	103	2770	103	2771	"Currently, 42% of conservation targets in the Cerrado (where only 2.2% of land is fully protected – Klink and Machado, 2005) are not adequately protected.": this information is based on an underestimated protected area network. Nowadays, 8.3% of the Cerrado biome is under some kind of protection - 3.1% in strictly protected areas (National Database for Protected Areas/ Brazilian Ministry of the Environment - Cadastro Nacional de Unidades de Conservação - CNUC, updated on February 7th, 2017). The paper cited considers a network of only 2.2% of protected areas in the biome.	We have added this new reference following reviewer's suggestion.
The Biodiversity Indicators Partnership (BIP)	87	2771	87	2774	Good use of the Red List to illustrate level of threat to biodiversity in Caribbean dry forest.	Thank you for your encouraging comment.
Thomas Brooks	87	2771	87	2774	Good use of the Red List to illustrate level of threat to biodiversity in Caribbean dry forest.	Thank you for your encouraging comment.
Thomas Brooks	104	2776	104	2776	Mention policy options for the cerrado here; see eg Strassburg et al. (2017) Moment of truth for the Cerrado hotspot. Nature Ecology & Evolution. DOI: 10.1038/s41559-017-0099.	Policy options can not be discutted in this document.

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
DESP/Sbio/MMA	104	2782	Page 104	2783	"The southern grasslands in Brazil originally covered about 10,500,000 hectares (IBGE, 2003)": this information seems to be out of date. The Pampa Biome, formed by grasslands, is located in the southern Brazil and originally covered 17,870,400 hectares (IBGE 2004).	This part of the text has been deleted in the current version.
André Mader	107	2838	107	2840	"According to the Fifth IPCC report" reference?	This part of the text has been deleted in the current version.
Juan Comerma	108	2857	108	2857	- ·	The specified deltas have now been added to the text.
Héctor Tuy	112	2880			It would be nice a "A safe operating space for humanity" like for LAC - http://www.nature.com/nature/journal/v461/n7263/full/461472a.html?fox trotcallback=true	This comment was not clear to us
Harald Pauli	110	2910	110	2910	Table 3.5: at MA tropical/subtropical moist forests, the number of tree species (1535) seems underestimated, e.g. for Panama alone 2300 tree species were reported (Condit et al. 2010. Trees of Panama and Costa Rica).	This table has largely been edited and checked in the current version.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Harald Pauli	110	2910	110			This table has largely been edited and checked in the current version.
Giselda Durigan	107	2912	108	2935	A huge area of wetlands has been completelly neglected in Brazil: the "Veredas". They are formed by wet grasslands, peatlands and peat swamp forests, spread in the whole savanna biome in Brazil, around the springs and along water courses, representing, perhaps, 5% of the biome. However, they were never quantified, by technical limitations of remote sensing. Besides a huge and peculiar biodiveristy, these ecosystem have extreme importance for water quality and regulation.	The whole point has been added following reviewer's suggestion.
Royal Gardner	107	2912	107	2916	Note that the 6% figure is a rough estimate. As I noted in my comments in the SOD of the LDR: Inconsistent definitions of what constitutes a wetland are also a challenge For a more recent discussion of the global extent of wetlands, see the attached chapter by Finlayson, Milton, and Prentice (2016).  The downscaling analyses of Fluet-Chouinard et al. (2015) https://wle.cgiar.org/development-global-inundation-map-high-spatial-resolution-topographic-downscaling-coarse-scale suggest that higher estimates may be realistic, and could still be an underestimate.	Because of the uncertainties raised up by the reviewer, the 6% Figure has been eliminated. Unfortunately, we have not been able to understand what the second part of the message wishes to convey.
Cristobal Diaz	109	2916	111	2922	Very useful the information in the Table 3. 5. Summary biodiversity data for principal terrestrial biomes in subregions of the Americas. The same for the other Table of RECENT TRENDS. Congratulations to the authors	Thank you for your encouraging comment.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
André Mader	109	2916	111	2922	Could the purpose and content of this table be made a bit more clear with some discussion in the text?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	110	2919	110	2920	Delete the web link.	The web link has been deleted
Elise Belle	112	2923	112	2923	Table still to be fully completed.	Table has been completed in the current version.
Harald Pauli	112	2923	112	2923	you may consider climate change in this table	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	112	2923			Readers might be confused if the relationship between units of analysis and biomes is not clarified.	This relationship is provided in Chapter 1.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Cristobal Diaz	113	2926	121	3208	I suggest in point 3.3.2. Ocean systems to consult more advanced references because a big proportion have more than ten years, mainly for situation of mangroves, coral reefs, submerged aquatic vegetation. I think personal that Caribbean need more analysis.	We have endeavored to treat the Caribbean more thoroughly to the extent it was possible
André Mader	113	2931			Perhaps the completely different approach to structure in this section should be explained to the reader	We appreciate reviewer's comment, but unfortunately we were unable to decipher the full meaning of this comment
Giselda Durigan	108	2936	109	2967	These "invisible wetlands" have been threatened by land conversion, soil erosion, drainage for crops, excessive water extraction for irrigation, and, recently, by afforestation and pine invasion. They are not protected by law, since the riparian vegetation protected by law (Área de Preservação Permanente) starts where the wetland finishes.	This is the domain of Chapter 4
André Mader	113	2936	114	2987	There is not much information here about where these different systems are found, and in some cases not much text describing them.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Giselda Durigan	109	2968	109	2972	As a future trend, all threats related to agriculture expansion and afforestation tend to increase, severely jeopardizing these wetlands.	Future trends are treated in Chapter 5

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elizabeth Hess	109	2974	109	2975	Table 3.5 doesn't have Canadian data for temperate and boreal forests or temperate grasslands. Would be nice to include. I believe data exists for both	Data are included for grasslands in the Great Plains from both Canada and the US; the temperate and boreal forest section has been revised to the extent possible, including
Elizabeth Hess	109	2974	109	2975	Table 3.5. The reference to trees (~1000) and trees (316, 286 native) in the temperate and boreal forests section is not clear. What do the numbers mean? What does native mean?	This sentence has been rewritten and the number of natives removed from the text
Elizabeth Hess	109	2974	109	2975	Table 3.5. In the Mediterranean forests woodlands, and scrub sections. California is listed twice, but not clear. Are all data just for California? Should also indicate California, USA	The chapter has been reorganized and rewritten. Hopefully, this is now clear
Elizabeth Hess	109	2974	109	2975	Table 3.5. In the temperate grasslands section. Where is says Midwestern grasslands is that US grasslands. Please verify.	Data are included for grasslands in the Great Plains from both Canada and the US
Elizabeth Hess	109	2974	109	2975	Table 3.5. Should add USA after Everglades in the Wetlands section	We have not necessarily endeavored to clarify country associations
Virginia Meléndez Ramírez	109	2974	109	2974	Table 3.5 can be improved or use graphs.	Table 3.5 has substantially been improved in the current version

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
		Line	Page	Line		
Virginia Meléndez Ramírez	112	2980	112	2980	Figure will still be complete, check types of vegetation for Mesoamerica.	Figure 3.24 has substantially been completed in the current version
André Mader	114	2980	14	2987	There are no references cited in this subsection.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	114	2990			Non-Americans might not know where New England is	We appreicate reviewer's comment but we would retain the location as it is now
Elise Belle	115	3004	115	3004	I would suggest deleting figure B as it is a bit difficult to interpret.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
DESP/Sbio/MMA	113	3014	113	3017	Chasmagnathus granulata is currently classified as Neohelice granulata.	The latin name has been replaced following reviewer's comment.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
DESP/Sbio/MMA	114	3018	114	3022	"The exotic freshwater mussel, Limnoperna fortunei, was introduced into La Plata Basin in 1991 and has dispersed throughout freshwater systems in Argentina, Paraguay, and Brazil (Darrigan and Drago, 2000). This mussel, which is similar to invasive Dreissinids in North America, has extensively altered benthic communities (Darrigan and Damborenea, 2011).": this information is out of the context considering that the mayor impacts of the mussel Limnoperna fortunei are in the freshwater systems and the session is on marine systems.	This sentence has been deleted in the current version
United States	116	3021	116	3048	Recommend providing additional explanation as to why "macroalgal cover	We haven't been able to track
Government					increased" is significant. Further, consider clarifying lines 3034-3036 and 3037-3038 to more clearly explain stressors.	back this comment in the word version, and thus the point remains unresolved.
DESP/Sbio/MMA	114	3023	114	3030	In this session, almost nothing is discussed on the status of mangroves existent in the Americas. It lacks general information, and specific relevant information, such as the mangrove areas from Parnaiba to Oyapock in northern Brazil (with over 7,600 km2 just along the coasts of the States of Pará and Maranhão, and extensive areas along the coast of the State of Amapá and in the huge Marajó Island), the largest contiguos mangrove in the world. The region has key biodiversity areas for dozens of Nearctic Migratory bird species, for two manatee species and for 78 nationally threatened species of fauna and flora and in the continental platform/shelf (part of the Brazilian Exclusive Economic Zone - EEZ). Moreover, it provides relevant ecosystem services in terms of fish stocks reproduction, accumulation of carbon and protection of the coasts.	Mangroves are treated but likely not as thoroughly as the reviewer would like

Reviewer Name	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
DESP/Sbio/MMA	114	3038	114	3045	The information provided is generic, and nothing is mentioned on the status of the coral reefs in the Americas. For example, it would be relevant to mention the Abrolhos Reef Bank, located on Brazil's continental shelf. It harbours the highest levels of biodiversity in South Atlantic waters and the world's largest rhodolith bed. It presents a mosaic of different habitats, like mangroves, seagrasses meadows, rhodolith beds, submerged and emergent reefs, and a group of small volcanic islands. Abrolhos also has unique biological formations, such as the large mushroom-shaped reef formations – "chapeirões", and unique geological formations, such as the "buracas" – distinctive depressions in the shelf plain.	broadly by necessity
United States Government	116	3046	116	3047	Suggest adding a source here that brings evidence to the assertion that OA reduces coral calcification.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Elise Belle	117	3076	117	3076	Provide reference instead of web link.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
United States Government	117	3077	117	3077	Consider replacing "plants" with SAV" to better align with the subtitle of this section.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
DESP/Sbio/MMA	116	3081	117	3108	Since 2002, Brazil has a long term coral reef monitoring program, currently coordinated by the Chico Mendes Institute for Biodiversity Conservation (the Brazilian Protected Areas Agengy). In 2006, the Ministry of the Environment promoted a compilation of preliminary results and a discussion of the status and perspectives of the program (Ferreira, B. P. & Maida, M. 2006. Monitoring Brazilian Coral Reefs: status and perspectives. Maida. Brasília: MMA/SBF). Because Brazil has the only reef formations in the South Atlantic, we consider relevant the inclusion of a discussion regarding the Brazilian reefs and its monitoring program.	It is true that coral reefs are treated broadly and focus on the Caribbean basin where most of the coral reefs occur in the Americas
André Mader	118	3086	118	3092	What is the difference between "marine", "deepwater" and "offshore"? A short explanation would help to understand the discussion.	A detailed description of this terms will be provided in Chaper 1
André Mader	118	3086	121	3208	The structure of this section is very different to others, for example not including divisions on status, recent trends, and future trends. Might it be more reader-friendly if the same approach was applied here?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	118	3093	118	3106	Why is this general discussion limited to a topographical paragraph on the Caribbean and a biodiversity paragraph on South America's coasts?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	Author Annotations
	_	Line		Line		
United States Government	118	3107	120	3172	This section overlaps with the discussion starting on page 37; consider revising and integrating these discussions into one section.	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
United States	118	3111	118	3111	Northern right whale should be changed to North Atlantic right whale (it is	The sentence has been edited
Government					noted correctly on line 961). Monachus schuinslandi should be changed to Neomonachus schauinslandi.	following reviewer's suggestion
Pomerleau, C.	118	3116	118	3117	Resident killer whales, especially the southern resident killer whales are	The sentence has been edited
					declining. Please consult the most recent scientific literature and modify this sentence accordingly. Also, refer to: http://www.dfo-mpo.gc.ca/species-especes/profiles-profils/killerWhalesouth-PAC-NE-epaulardsud-eng.html	following reviewer's suggestion. Moreover, the new reference has been added to the text.
Elise Belle	119	3138	119	3138	"United Nations for individual species or"	The sentence has been edited following reviewer's suggestion.
United States	121	3179	121	3180	Please revise to indicate that not all shark species are in decline. For more	The sentence has been edited
Government					information, see: https://www.nefsc.noaa.gov/press_release/pr2015/scispot/ss1509/.	following reviewer's suggestion

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
The Biodiversity Indicators Partnership (BIP)	119	3190	119	3190	"very low" is not accurate. For example, "15% (27 of 180 species) of cartilaginous fishes and 9% (94 of 1102 species) of the bony fishes in the TEP [Tropical Eastern Pacific] are now listed in a threatened category" (Polidoro et al. 2012 Patterns of extinction risk and threat for marine vertebrates and habitat-forming species in the Tropical Eastern Pacific. Marine Ecology Progress Series 448: 93–104. DOI: 10.3354/meps09545). Change "very low" to "relatively low", and add Polidoro et al. citation.	The word "very" has been changed to "relatively" following reviewer's suggestion. Moreover, Polidoro et al. (2012) has been added as reference.
Thomas Brooks	119	3190	119	3190	"very low" is not accurate. For example, "15% (27 of 180 species) of cartilaginous fishes and 9% (94 of 1102 species) of the bony fishes in the TEP [Tropical Eastern Pacific] are now listed in a threatened category" (Polidoro et al. 2012 Patterns of extinction risk and threat for marine vertebrates and habitat-forming species in the Tropical Eastern Pacific. Marine Ecology Progress Series 448: 93–104. DOI: 10.3354/meps09545). Change "very low" to "relatively low", and add Polidoro et al. citation.	The word "very" has been changed to "relatively" following reviewer's suggestion. Moreover, Polidoro et al. (2012) has been added as reference.

<b>Reviewer Name</b>	From Page		Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Margarita N.	120	3200	120	3200	Figure 3.42 and the study by Neubauer et al 2013 is based on stock	We appreciate reviewer's
Lavides					assessment only and insufficient to determine extinction risk. Extinction risk	comment. However, Fig. 3.42 is
					based on Red List IUCN methodology and criteria should be used here,	not based on stock assessments,
					either at national or regional level. Further, Sea Around Us Project indicated	but on categorizations by FAO of
					that FAO datasets hugely underestimated the level of exploitation especially	the exploitation status of species
					for small scale fisheries all around the world.	throughout these marine regions.
						When quantitative population
						assessments are available, the
						FAO uses that information, and
						when they are lacking, the FAO
						uses qualitative and local
						information about trends in
						landings and relative indexes of
						population abundance. In making
						these categorizations, FAO
						accounts for perceived under-
						reporting of landings data by
						countries.
						Paragraph has been re-organized
						to avoid confusion and to better
						separate the conclusions based
						on quantitative stock
						assessments.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
juan comerma	121	3209	121	3209	a knowledge gap in northern south america like venezuela and Colombia	We appreciate reviewer's comment. The categorizations shown in Fig. 3.42 include information from all countries including Columbia and Venezuela. However, because the total catch in other South American countries like Peru, Chile, Brazil, and Argentina, is much greater than the total catch of Columbia and Venezuela (for example), the weighted averages shown in Fig. 3.42 will intentionally be skewed towards the countries with greater total catch in each of these taxonomic
Elise Belle	121	3212	121	3212	"(2016), a new species is discovered in the Amazon on average every"	The sentence has been reworded following reviewer's suggestion.
Elise Belle		3213		3214	"Even regarding well-known taxonomic groups such as mammals, between 1993 and 2008, 42%"	The sentence has been fixed following reviewer's suggestion.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elise Belle	122	3217	122	3217	"particularly deficient, including for species of particular importance for human"	The sentence has been fixed following reviewer's suggestion.
Elise Belle		3219		3219	Increase size of figures, especially the third one.	The size of the Figure has been increased following reviewer's suggestion.
Elise Belle		3226		3226	"in the marine (and probably freshwater) realms. For the South"	The sentence has been fixed following reviewer's suggestion.
Elise Belle		3233		3233	Delete first sentence or rephrase.	The sentence has been rephrased in the current version
Elise Belle	123	3237	123	3244	You could integrate the two paragraphs of the figure legend (and also delete 'a. All occurences = all occurencies categories').	The sentences have been fixed following reviewer's suggestion.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Elise Belle		3253		3253	"Not being able to include all"	The sentence has been changed to "not being able to have access"
Elise Belle		3257		3257	"in the world in terms of the new Species Coverage"	This part of the text has been deleted in the current version.
Elise Belle		3259		3259	"shows high values for this indicator, notably thanks to outstanding"	This sentence has been edited in the current version
Elise Belle	124	3264	124	3264	Reference?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
André Mader	124	3264	124	3265	As far as I understand Hawaii should not be covered here (instead, it is covered by the Asia-Pacific Assessment), while Greenland should be	Reviewer's information is correct.  If we get permision to use the map, we will ask to have Hawaii cut off.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Elise Belle		3266		3266	"sampling effort in terms of number of recorded"	The sentences have been fixed following reviewer's suggestion.
Carlos Alfredo Joly	122	3273			I think in this item we should stress that almost all data on Latin America biodiversity is based on occurence, there is NO information on population sizes let alone genetic data.	A new paragraph in the section on knowledge gaps stressing out the gap between genetic studies and conservation policies has now been added.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Margarita N.	122	3273			Note: The following comments do not refer to Knowledge Gaps only but	We appreciate the reviewer for
Lavides					when done immediately or in the future can be incorporated where	sharing this information
					relevant within this Chapter, other Chapters of Americas assessment and	
					may be followed by other Regional assessments as well: There are a	
					number of UN and Intergovernmental global initiatives on Biodiversity and	
					Ecosystem Services e.g. Sustainable Development Goals, Aichi Biodiversity	
					Targets, National Biodiversity Stratey and Action Plans, IPBES etc. All of	
					these initiatives have one thing in common where nations and regions will	
					be measured in terms of how successful the initiatives or achievement of	
					targets are, whether partly or wholly: biodiversity indicators. The	
					Biodiversity Indicators Partnership (BIP) offers an opportunity to make	
					available suite of global indicators available from them to support national	
					level reporting and/or NBSAP updating and implementation. These include	
					among others: Marine Trophic Index, Wild Bird Index, Living Planet Index,	
					Red List Index (impacts of fisheries on marine species), Red List Index	
					(impacts of pollution), Red List Index (species used for food and medicine),	
					Ocean Health Index, Red List Index (pollinating species), Nutrition Indicators	
					for Biodiversity. There are several ways that global indicators and/or	
					datasets can be used in national or regional reporting and/or NBSAP	
					updating and implementation: 1. Global indicators can be disaggregated	
					and used at national or regional level e.g. Living Planet Index ; 2. Global	
					indicator methodology can be applied at the national or regional level e.g.	
					Red List Index; 3. Underlying datasets can be utilised for the development	
					of national level indicators, expert assessments etc. While the BIP and	
					UNDP emphasized the use of these global indicators at national level, as	
					indicated in its published Roadmap, I strongly believe these can be very	
					useful as well for IPBES Regional Assessments. Consistent with what the BIP	
					and UNDP indicated in its Roadmap, using these global indicators for IPBES	
					Regional Assessment use has the following advantages: 1. it can assists in	

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Virginia Meléndez Ramírez	122	3273	122	3273	3.4. Knowledge and data gaps: A list of topics that require research is recommended.	Knowledge gaps are treated
Elise Belle	125	3275	125	3276	"Because governments are usually first concerned"	The text has been edited as required.
Andrea Larissa Boesing	122	3280	122	3280	1	This sentence has been deleted in the current version
Elise Belle		3284		3284	"temperate South America not yet covered."	The sentences have been fixed following reviewer's suggestion.
Elise Belle		3285		3286	· · · · · · · · · · · · · · · · · · ·	The sentences have been fixed following reviewer's suggestion.

Reviewer Name	From Page	From Line	Till Page	Till	Comment	Author Annotations
André Mader	125	3289	T u <sub>b</sub> c		Is it accurate to say that there are millions (i.e. at least 2 million) species of marine invertebrates in the Americas? Please provide reference.	The sentences have been deleted following reviewer's suggestion.
Elise Belle		3292		3292	"most data being only available for less than 10 years."	The sentences have been fixed following reviewer's suggestion.
Elise Belle		3295		3295	"all otter populations across the Americas are considered to be Endangered on the IUCN Red List or unassessed."	The sentences have been fixed following reviewer's suggestion.
Elise Belle		3298		3298	"Regarding linkages between biodiversity ecosystem functions and services, most of the work comes from"	This text has been removed from the original document.
Elise Belle		3300		3300	"studies linking biodiversity to other"	The sentences have been fixed following reviewer's suggestion.

Reviewer Name	From Page		Till	Till	Comment	<b>Author Annotations</b>
Rafael Calderón, Carolina Ziehl Quirós, Sandra Quijas Fonseca, Jessica Bravo Cadena, Ana Luisa Santiago Pérez, Miguel Equihua,	126	Line 3304	Page 221	<b>Line</b> 6021		The document has throroughly reviewed for missing references.
Virginia Meléndez Ramírez, Antonio de la Mora, Manuel Maass, María Santiago Jiménez, Ricardo Contreras Osorio, Wolke Tobón, David Loreto.						

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
DECO/Sbio/MMA	123	3309	124	3327	available on line and updated. On of them is the SIBBr, that is an initiative of	include it
Carlos Alfredo Joly	125	3334			It should be mention that there are very few (only two) freshwater ILTER sites and ZERO Marine sites.	The sentences have been added following reviewer's suggestion.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Andrea Larissa Boesing	126	3363	126	3366	Maybe it would be nice to give some examples of these links between biodiversity ecosystem functions and ES at least for north america subregion. I've seen very nice papers making this link in south america though (e.g. Bello et al. 2015 Science Advances; Kennedy et al. 2016 Biological Conservation). I just felt this last paragraph very inconclusive as a final paragraph. I would like to see a more strong message and maybe a first call for the topics to be discussed in the next chapter. Also, I didn't see any discussion about defaunation. It would be a very nice topic to discuss in terms of biodiversity-mediated ES.	We have endeavored to clarify the linkages between biodiversity and ecosystem function
Ederson A Zanetti	126	3367	126	3367	There should be a paragraph on the data missing about timber consumption and biodiversity cultivation relationships, if any and how to integrated it to current policies	
Elise Belle	20	-	20	-	Map is quite coarse. Any better dataset available?	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Andrea Larissa Boesing	32	Вох	32	Вох	Where are located the The Great Lakes? Just give a introduction about the place (as you are giving below in the text) before to introduce all the invasion story. For people outside US it is not evident.	We did not have space to include an additional map, but they do appear in the maps in Figs 3.2 and 3.12

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Gilles Seutin/PCA	51	Fig 3.26	51	Fig.	Canada recognizes the importance of assessing protected areas'	This figure was removed
				3.26	connectedness and appreciates the efforts of many organizations toward	
					this, including IPBES, GEO BON and CSIRO. Canada also considers that it is	
					important to recognize that the ability to measure and communicate	
					connectedness is in its infancy. Several approaches and methods are in	
					development and have not yet been adequately assessed. The results	
					presented are for the "Protected Area Connectedness" (in text and figure	
					caption) or "Protected Area Connectedness Index" (in figure itself), but no	
					explanation, source or reference is provided regarding the nature of that	
					index. This needs to be addressed. A factsheet produced by CSIRO and	
					hosted by IPBES	
					(http://www.ipbes.net/sites/default/files/storyline_geo_bon_csiro_protect	
					ed_area_connectedness_index.pdf) shows results regarding protected	
					areas connectedness that are substantially different from those in Figure	
					3.26. Panel b (but not c and d) of Figure 3.26 includes shaded area for each	
					of the trend lines. This suggests that there is a variance or error measure	
					associated with the index, but is not presented in the report or figure	
					legend, and no reference is given. This needs to be addressed. If the shaded	
					area in panel b of Figure 3.26 indeed reflects uncertainty, the statements at	
					line 1190 about increase through time in South America and decrease in	
					North America are unjustified unless statistical analyses (e.g., significance of	
					regression slope) are performed. In the proposed amended text above,	
					Canada assumes such analyses return no significant change. In view of the	
					uncertainties noted above, Canada is concerned about the un-qualified	
					statement "Protected Area Connectedness decreased for North America,	
					especially in Canada [emphasis added]." Canadian ecologists consulted for	
					this review failed to identify what type of changes may have occurred in the	
					2000-2012 period that would have driven such a significant decrease.	
					Canada thus requests a full examination and discussion of these findings	

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Brenda McAfee	63	Fig 3.31		Fig. 3.31	"	We haven't been able to track back this comment in the word version, and thus the point remains unresolved.
Andrea Larissa Boesing	41	Fig. 3.19	41	Fig. 3.19	The figure is not self-interpretated at all.	This figure has been completely redone in the current version.
Andrea Larissa Boesing	44	Fig. 3.21	44	Fig. 3.21	What does mean 'Ca species', "MA species", "NA species"? Also, 14,184 is the total number of species? Just clarify.	The text has been edited for clarification.
Harald Pauli	21	Fig. 3.3a	21	Fig. 3.3a	Brazil, appear much stronger just because of their size.	We appreciate reviewer's comments, although we are unable to change the data at this stage becasue that would affect comparisons.
Andrea Larissa Boesing	120	Fig. 3.42	120	Fig. 3.42	· · · · · · · · · · · · · · · · · · ·	This figure has been completely redone in the current version.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
United States Government	42	Figure 3	42	Figure 3	The Kemp's ridley box is left blank, which is confusing. Please add additional text to specify that no arrow is included since the trend is not reported via IUCN. The most public trend info that we have is in the NMFS/FWS five-year review from 2015.	this species, no trend is reportes
Andrea Larissa Boesing	31	Figure 3.10	31	_	Could you also include a picture of this species? No one knows what a Eschsholzia californica is.	That would be really appropiate but unfortunately we have sever space constraints.
Andrea Larissa Boesing	23	Figure 3.4	23	Figure 3.4	a quick explanation about what means 'z-transformed' species richness?	The term "z-transformed" has been deleted from the current version.
Andrea Larissa Boesing	23	Figure 3.4	23	_	Any other way to present the map of 'soil pathogenic fungi'? The way it is, seems that there is nothing in the blank parts. Maybe to include some color about 'unknow status'.	This figure has been deleted in the current version.
Andrea Larissa Boesing	35	Figure legend	35	Figure legen d	Why 'raw' species richness?	The term "raw" has been removed to avoid confusion.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	<b>Author Annotations</b>
		Line	Page	Line		
Andrea Larissa Boesing	27	Figures	28	Figure s	I understand the reason why global maps are shown in this section. However, I don't think it is helping. I can suggest to maintain the focus only in Americaeven if it implies to mask the origem of invasive species. Even though it is a very nice information, the focus here is to discuss invasion as a driver of biodiversity loss.	Maps have been checked to represent only the Americas in the current version
Co-chairs	26	Table 3.2	row 11		in what sense is "value" in "landscape value" being used? If there has been some measure of how useful the trails are and this is reduced, make it clear it is that form of monitized "value". But if it is some ecological metric of how natural or diverse the place or the bodiversity at the place is, choose a different word than "value" that more clearly conveys what is being homogenized, independent of the value system of the reader.	
Andrea Larissa Boesing	General				Many parts of the text need a careful english review	The text has thoroughly been reviewed for appropriate English
Andrea Larissa Boesing	General				Most graphs have very small labels which makes the understanding very difficult	Graphs have been checked and modified accordingly.

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Carlos Alfredo Joly	88				INCLUDE THE PARAGRAPHS BELOW THAT ARE FROM	NCPs are treated largely in
					Joly, C.A.; Metzger, J.P. & Tabarelli, M. 2014. Experiences from the Brazilian	Chapter 2 but are summarized
					Atlantic Forest: ecological findings and conservation initiatives. New	broadly in Chapter 3 by units of
					Phytologist 204: 459–473 doi: 10.1111/nph.12989 Ecosystem services	analysis and subrgion in Figure
						3.25
					The importance of the Atlantic Forest goes beyond the maintenance of its	
					rich and diverse biota. The Atlantic Forest also provides a broad set of	
					relevant ecosystem services, that is, the direct and indirect contributions of	
					ecosystems to human wellbeing (TEEB, 2010). First, the Atlantic Forest	
					provides water for 125 million Brazilians, representing three-quarters of the	
					country's population.	
					Water provided by the Atlantic Forest is important not only for drinking but	
					also for producing electricity, mainly in the Parana River watershed. The	
					complex of reservoirs and dams within the Atlantic Forest produces c. 130	
					GWh (62% of Brazil's production) and includes the second-largest	
					hydroelectric power station in the world, Itaipu	
					(http://www.itaipu.gov.br/en). Additionally, the Atlantic Forest provides	
					food. The fruits of the Myrtaceae species, as well as those of palms,	
					legumes and passion flowers (Passiflora spp.), are an important component	
					of the diet of traditional and local people, while other species provide	
					important raw materials such as fibres (Satyanarayanaa et al., 2007) and	
					oils (Apel et al., 2006). The most widely recognized Atlantic Forest fruit is	
					that of the monkey puzzle tree/Brazilian pine (Araucaria angustifolia).	
					Hunting of native species is not permitted in Brazilian territory, although	
					many traditional populations still rely on vertebrates of the Atlantic Forest	
					as a complementary source of protein (Hanazaki et al., 2009). Although	
					proof is scarce, the Atlantic Forest cover probably affects the productivity of	
					adjacent estuarine areas and coral reefs, which historically support	
					subsistence and commercial fisheries along the Brazilian Atlantic coast	

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Daniel P Faith					Great job on these chapters! Comments specific to particular chapters/lines	
					follow further below, but the initial following comments I think are relevant	
					to the SPM and both chapters 2 and 3. The references for these comments	
					are at the bottom of this review form (but some references from the quotd	
					text from Faith 2017 are listed only in that paper, so I have attached also	
					that paper). The scoping for chapter 2 indicates that it will assess NCPs	
					including the status/trends of the NCPs. The scoping for chapter 3 indicates	
					that it will build on the chapter 2 assessment of NCPs and look at the	
					status/trends of biodiversity and ecosystems with an eye to how that	
					influences NCPs. These tasks normally are a close fit, but are in fact	
					overlapping in the case of NCP18. NCP18 is mostly about the contribution of	
					biodiversity itself in providing "maintenance of options" or "option value".	
					For example, NCP18 refers to "Benefits (including those of future	
					generations) associated with the continued existence of a wide variety"	
					Living variety is of course another way of saying "biodiversity". This NCP18	
					benefits statement echoes the oldest discussions of the value of	
					biodiversity itself as a benefit (following e.g. Haskins 1974; reviewed in Faith	
					2017*). *Faith 2017 summarised: "this link between biodiversity and human	
					well-being actually traces back to the "pre-history" of "biodiversity"	
					(roughly, the history of the term before it was invented). Haskins (1974:	
					646) summarised an important discussion meeting where participants	
					called for "an Ethic of Biotic Diversity in which such diversity is viewed as a	
					value in itself and is tied in with the survival and fitness of the human race".	
					Haskins (1974: 646) warned, "Plants and animals that may now be regarded	
					as dispensable may one day emerge as valuable resources" and that	
					extinction "threatens to narrow down future choices for mankind". Roush	
					(1977: 9) similarly argued that "diversity increases the possibility of future	
					benefits" (for review, see Farnham 1997). IUCN's (1980: section 3)	
					arguments for the conservation of diversity (referring to "the range of	

<b>Reviewer Name</b>	From Page	From	Till	Till	Comment	Author Annotations
Daniel P Faith		Line	Page	Line	for chap 2 or 3 as discussed above; here are draft diagrams extracted from pubs in the reference list; also emailed to TSU	
Daniel P Faith					What lies underneath: Conserving the oceans' genetic resources. PNAS www.pnas.org/cgi/doi/10.1073/pnas.0911897107  • Barker, GM 2002 Phylogenetic diversity: a quantitative framework for measurement of priority and achievement in biodiversity conservation	We have treated linkages between biodiversity and ecosystem function; we broadly present patterns in different metrics of diversity; and we provide a summary of the contributions of each biome in each subregion to NCPs
Grant Moir	General				'Better coupling at a local level of environmental and developmental policies to foster sustainable development'can be attained by closely sharing and understanding of related BES technical information amongst users (e.g. establish a common language at the earliest stages; must be attained amongst the diverse planning and development levels, data producers etc. required for greater understanding of BES data/technical information/mutual objectives)	We appreciate reviewer's comment but we believe this part would better fit in Chapter 3.
Grant Moir	General				Within the context of cities and the urban/rural interface; this presents areas where tools like GIS and asset integration can have a great positive impact Re: management systems of ecosystem assets in conjunction with non-natural assets; many challenges to overcome; but once assets are established, ecosystem services and their benefits are then often easier to establish, valuate, and correlate with NCP's	We appreciate the reviewer for sharing this information

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
Grant Moir	General				GIS Related on local level - Re: integrated access to information as per assets in a government setting etc; Standardizing the integrated information and making it available as a template within and for other communities as a decision making tool; likely many with less resources in many communities could benefit	We appreciate reviewer's comment but we believe this part would better fit in Chapter 3.
Grant Moir	General				Tools for this could include approaches to more closely integrating grey and green assets and using GIS related eco-management for planning of information can help; or development of this type of tool for more general distribution and uses; Develop standardized tools, user friendly, accessible, and understandable, could be of benefit and adaptable regardless of the location	This is a nice suggestion but we were not able to incorporate it
Leticia Pina	21		21		Figure 3.3.b.: It is not clear the source of the data. Please kindly consider that Excel file sent to request data has Argentina and Bolivia under Caribbean countries, so this would cause differences when calculating totals per sub regions	This figure has been deleted in the current version.
Margarita N. Lavides					There are a number of grammatical errors and misspelled words.	The whole document has been thoroughly checked for grammatical mistakes
Thomas Brooks					The IPBES definition of "biodiversity" includes "ecosystems" (see e.g. http://www.ipbes.net/sites/default/files/downloads/IPBES_2_INF_2_Add.1. pdf). So, avoid use of phrases like "biodiversity and ecosystems", which is a tautology and unnecessary repetition. Instead, either a) if the intent is to refer to "ecosystems" a specific level of ecological organisation, then delete "biodiversity", b) if the intent is to refer to "biodiversity" generally, delete "ecosystems", or c) replace "biodiversity" with something like "genetic diversity, species, and ecosystems". Examples that need correcting include Page 2 (Line 28), Page 12 (Lines 379, 380, 382, 385, etc).	We appreicate reviewer's comment very much and we will pay more attention in further assignments.

Reviewer Name	From Page	From	Till	Till	Comment	Author Annotations
		Line	Page	Line		
Volpedo,						-
Alejandra Vanina						
Mineria in Malánda.					It is a compared to include a conclusions and include	A conclusions section was
Virginia Meléndez Ramírez					It is suggested to include conclusions section.	originally included, but we are currently working on a synthesis for the TOD.
Cristobal Diaz	General		Gener al		I am not a high level specialist in biodiversity and ecosystems in the Caribbean, but I understand that more specialists on the Caribbean Region	We appreciate reviewer' comment. This has been a major
					need to be engaged in Chapter 3 (only three are of Trinidad and Tobago-2 LA and 1 Contributor; and one of a Contributor of Saint Lucia) in order to help in the valorations that are realized of the Caribbean - english, spanish, ne therlands countries and others.	problem. We have asked the Caribbean LA to get in touch with other experts and sent names
Cristobal Diaz	24		24		I suggest to improve the Figures 1.2 and 1.6	Figures 3.2 and 3.6 have been excluded from the current version.
André Mader	General				The distinction between alien species and invasive (or alien invasive) is often unclear.	The text has been checked and modified accordingly where the terms "alien" and "invasives" were unclear.
André Mader	General				Note that the word "pattern" is often used in headings, and then later substituted with "status". It would be good to be consistent with terminology.	

Reviewer Name	From Page		Till	Till	Comment	Author Annotations
André Mader	General	Line	Page	Line	There seems to be very little cross-referencing to other chapters	This is being attended to. All the material on future trends have been sent to Chapter 5 at the request of the Co-chairs
André Mader	General				There seems to be a lot of variability between different sections. For example, some of them cover a description of the topic, the status, recent trends and future trends. Others cover these but without subheadings; others exclude one or more of them. Greater consistency in this regard could really enhance readability.	We appreciate reviewer's comment on this. Unfortunately, the text has been developed by a number of LAs, leading to some structural inconsistencies.
André Mader	General				Figures are not always referred to sufficiently in the text	References to Figures have been checked and added accordingly
André Mader	General				Quite often vague adjectives (e.g. many; surprising diversity;) are used. It might be better to provide specifics, and avoid using vague terminology.	The text has been thoroughly revised to avoid this kind of terms.
André Mader	General				In most cases there is little or no description of where each of the systems/biomes is located, and what its extent is. Could you include a brief description for each? If maps are used, it would probably be best to do that for all biomes.	This kind of information is provided in Chapter 1.
André Mader	General				There are very few figures in some of the systems sections, including some very long ones. Better uniformity could enhance readability	We appreicate reviewer's comment but unfortunately we do not have enough space to provide extra Figures.

Reviewer Name	From Page	From Line	Till Page	Till Line	Comment	Author Annotations
André Mader	General				Many genus and species names are not italicized	Latin names of species have been checked and formatted in italics in the current version
André Mader	General				It would be really useful to have a sentence or two describing each biome when it is introduced	This kind of information is provided in Chapter 1.
André Madar	42	1010	44	1040	It come like the contents of this section that discuss invesion and its	Investive anguing are only included
André Mader	43	1010	44	1049	It seems like the contents of this section that discuss invasion and its dynamics should be captured in chapter 4, and not here.	Invasive species are only included here as complementary comment. They are fully covered in Chapter 4.