IPCC Working Group II Contribution to the Sixth Assessment Report - Corrigenda to the Final Draft_Rev2

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 01: Point of departure and key concepts	5	51	5	54	Make definition of soft and hard limits consistent with glossary in ES
Chapter 01: Point of departure and key concepts	6	12	6	14	Dropping last sentence in ES statement "Finally, adaptation is urgent to the extent that current maladaptation and socio-eonomic trends… that increase future risk."
Chapter 01: Point of departure and key concepts	6	14	6	14+	Added this text from FAQ as this highlighted in SPM. Climate change adaptation is, therefore, urgent to the extent that meeting important societal goals requires immediate and long-term action by governments, business, civil society, and individuals at a scale and speed significantly faster than that represented by current trends.
Chapter 01: Point of departure and key concepts	6	41	6	44	Change text to: The drivers of transformation are multi-dimensional, involving social, cultural, economic, environmental, technical and political processes the combination of which create the potential for abrupt and systemic change, the stability of power structures and the importance of beliefs and behaviours.
Chapter 01: Point of departure and key concepts	6	41	6	44	Drivers of transformation
Chapter 01: Point of departure and key concepts	39	Figure	39	Figure	These changes are needed in this Cross-Working Group Box figure to ensure consistency with WG1. There are changes in two of the figure's wedges. In the wedge entitled "Purposes" the new text should be in larger font and the bullets separated by diamonds and not have bulltet markers in front of the text. In wedge number 4, the previous text "test hypothesis or theory with process understanding, counterfactuals, lines of evidence. Evaluate model, consider any limitations of attribution method/system" should be replaced by two bullets: "system/method to test the hypothesis or theory" and "apply process understanding, counterfactual, evalute methods and models, consider constraints"
Chapter 01: Point of departure and key concepts	49	6	49	7	Make feasibility definition consistent with glossary in text and figure
Chapter 01: Point of departure and key concepts	62	34	62	38	Make definition of soft and hard limits consistent with glossary in text
Chapter 01: Point of departure and key concepts	62	55	63	3	Edit texts and citations for consistecy across chapters and SPM:Soft limits are usually associated with human systems whereas hard limits are more proximate for natural systems due to inability to adapt to biophysical changes (Chapter16) (medium confidence). Many human and natural systems are near their adaptation limits for instance, terrestrial and aquatic species and ecosystems, coastal communities, water security, crop production, and human health (Chapters 2; 3; 4; 5; 7; 16; Dow et al., 2013).
Chapter 01: Point of departure and key concepts	63	17	63	19	Minor edit on text and citations for consistecy across chapters and SPM:When a limit (soft) is reached, then intolerable risks and impacts may occur, and additional adaptations (incremental or transformational) are required to reduce or avoid these risks and impacts (Chapters 16; 17).
Chapter 01: Point of departure and key concepts					Figure 1.2 -- make consistent with SPM and/or respond to
Chapter 02: Terrestrial and freshwater ecosystems and their services	3	20	3	23	Sentence modified to following: "New studies since the IPCC 5th Assessment Report (AR5) and the Special Report on Global Warming of 1.5°C (SR1.5) (with data >12,000 species globally) show changes consistent with climate change. Where attribution was assessed (>4,000 species globally), approximately half of the species had shifted their ranges to higher latitudes or elevations and two-thirds of spring phenological events had advanced, driven by regional climate changes (very high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	3	25			Medium confidence added to statement
Chapter 02: Terrestrial and freshwater ecosystems and their services	4	30	4	30	Replace "(robust evidence, high agreement)" by "(high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	4	45	4	47	Sentence modified to following: "New studies are documenting the changes that were projected in prior reports, including upward shifts in the forest/alpine tundra ecotone, northward shifts in the deciduous/boreal forest ecotones, increased woody vegetation in the sub-Arctic tundra and shifts in the thermal habitat in lakes."
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	8	5	8	Delete "B.11"
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	8	5	30	Try to fix here a bit the bias to low latitude, in particular American, forests by adding at least some words speaking explicitly to boreal forests, e.g. including the huge ones on Russian territory
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	9	5	12	Sentence modified to following: "Field evidence shows that anthropogenic climate change increased area burned by wildfire above natural levels in western North America in the period 1984□2017: to a doubling above naturale that for the western USA and was 11 times higher than natural in one extreme year in British Columbia (high confidence)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	15	5	18	Sentence modified to following: "Deforestation, draining of peatlands, agricultural expansion or abandonment, fire suppression, and inter-decadal cycles such as the El Niño-Southern Oscillation (ENSO), can exert a stronger influence than climate change on increasing or decreasing wildfire in some regions {2.4.4.2; Table 2.3; Table 2.S.1; FAQ 2.3}."
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	20			Table 2.S.1 updated to "Table SM2.1"
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	22	5	23	Added uncertainty statement and improved wording. Change sentence to: "Drought-induced tree mortality attributed to anthropogenic climate change has caused up to 20% loss of trees in the period 1945-2007 in three regions in Africa and North America (high confidence). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	32	5	33	Sentence modified to the following: "Terrestrial ecosystems currently remove more carbon from the atmosphere, 2.5□4.3 Gt yr-1, than they emit (+1.6 ± 0.7 Gt y-1), and so are currently a net sink of -1.9 ± 1.1 Gt y-1. "

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	37	5	40	Section modified to the following: "Tropical forests and Arctic permafrost contain the highest ecosystem carbon stocks in aboveground vegetation and soil, respectively, in the world (high confidence). Deforestation, draining, burning or drying of peatlands, and thawing of Arctic permafrost due to climate change shifts these ecosystems from carbon sinks to carbon sources (high confidence) {2.4.3.6; 2.4.3.8; 2.4.3.9; 2.4.4.4}."
Chapter 02: Terrestrial and freshwater ecosystems and their services	5	45	5	50	Section modified to the following: "It is difficult to establish end-to-end attribution from climatic changes to changes in a given ecosystem service and to identify the location and timing of impacts. The lack of attribution studiesis may delay limits specific adaptation planning, but there is evidence that protection and restoration of ecosystems could builds resilience of service provision {2.2; 2.3; 2.4.2.7; 2.4.5; 2.5.4; 2.6.3; 2.6.4; 2.6.5; 2.6.6; 2.6.7; Cross-Chapter Boxes NATURAL, ILLNESS and EXTREMES in this chapter; Cross-Chapter Box COVID in Chapter 7; Cross-Chapter Box MOVING PLATE in Chapter 5}."
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	2	6	2	Changed 2.S.2 to SM2.2 and 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	5	6	8	Sentences modified and uncertainty assessment added: "Extinction of species is an irreversible impact of climate change, the with increasing risk of which increases steeply as with rises in global temperatures rise (very high confidence). It is likely that the percentage of species at very high risk of extinction (categorized as "critically endangered" by IUCN Red List categories){IUCN , 2001} (median and maximum estimates) will be (median and maximum estimates): 9% (max. 14%) at 1.5°C rise in GSAT, 10% (max. 18%) at 2°C, 12% (max. 29%) at 3.0°C, 13% (max. 39%) at 4°C and 15% (max. 48%) at 5°C (Figure 2.7). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	8	6	13	Sentences modified: "Among the groups containing the largest numbers of species at a high risk of extinction for mid-levels of warming (3.2°C) are: invertebrates (15%, and), specifically pollinators at (12%), amphibians (11% overall, but salamanders are at 24%) and flowering plants (10%). All groups fare substantially better at lower warming of 2°C, with extinction projections reducing to <3% for all groups, except salamanders that reduced toat 7% (medium confidence) (Figure 2.8a). Even the lowest estimates of species' extinctions (median of 9% at 1.5°C rise GSAT') are 1000 times the natural background rates. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	22	6	25	Sentence modified: "At 1.58°C GSAT warming, >10% of species are projected to become endangered (median estimate, with "endangered" being at high risk of extinction, sensu IUCN), and at 2.07°C this rises to >20% of species, representing a high and very high biodiversity risk, respectively (medium confidence) {2.5.4; Figure 2.8b, Figure 2.11; Table 2.5; Table SM2.5}"
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	29			"GSAT" added before warming to clarify
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	37			Change 2.S.4 to SM2.4 and add Table SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	39			Add "GSAT" before warming
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	49	6	49	Change "~3030-4090" to "~3000-4000"
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	49	6	50	GtC changed to 3000–4000 GtC from 3030-4090 GtC
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	50	6	53	Sentence split into 2 sentences and modified: "Complex interactions of climate change, land use change (LUC), carbon dioxide fluxes and vegetation changes, combined with insect outbreaks and other disturbances, will regulate the future carbon balance of the biosphere. These processes are incompletely represented in current earth system models (ESMs). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	55	6	57	AR6 WG1 5.4 removed, 2.S.4 changed to SM2.4 and add Table SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	6	57	6	57	Change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	7	15	7	16	Sentence modified to be clearer and define what "they" refers to: "There is new evidence that species can persist in refugia where conditions are locally cooler, when populations of the same species may be declining elsewhere (high confidence) {2.6.2}. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	7	48	7	48	Other sections referred to within report removed from end of sentence and at the end of paragraph now.
Chapter 02: Terrestrial and freshwater ecosystems and their services	8	2	8	3	Uncertainty assessment added: high confidence; "adaptation" removed after climate change in 2nd sentence as EbA forms always part of climate change adaptation
Chapter 02: Terrestrial and freshwater ecosystems and their services	8	18	8	20	Uncertainty assessment and range quantity updated and sentence now reads as: " A range of analyses have concluded that ~30-50% of Earth's surface needs to be effectively conserved to maintain biodiversity and ecosystem services (high confidence)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	8	29			Insert ", single species" after "Plantation"
Chapter 02: Terrestrial and freshwater ecosystems and their services	8	32	8	34	Sentence modified: "Large-scale deployment of bioenergy, including bioenergy with carbon capture and storage (BECCS) through dedicated herbaceous or woody bioenergy crops and non-native production forests, can damage ecosystems directly or through increasing competition for land, with substantial risks to biodiversity "
Chapter 02: Terrestrial and freshwater ecosystems and their services	8	45	8	46	Sentence modified to: "Increases in the frequency and severity of extreme events, that WGI has attributed to human greenhouse gas emissions, are compressing the timeline available for natural systems to adapt and also impeding our ability to identify, develop and implement solutions (medium confidence). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	9	19	9	19	Removed (WGII AR5 SPM) as it was redundant
Chapter 02: Terrestrial and freshwater ecosystems and their services	9	24	9	24	Clarified that it is the Synthesis Report of AR5 being referenced

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Chapter 02: Terrestrial and freshwater ecosystems and their services	9	29	9	29	added letter "a" after 2014 for reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	9	53	9	53	Replace "IPCC, 2019c" by "IPCC, 2019a"
Chapter 02: Terrestrial and freshwater ecosystems and their services	10	37	10	37	Daskalova reference year updated to 2021 and other fields corrected in EndNote
Chapter 02: Terrestrial and freshwater ecosystems and their services	11	7	11	7	(Assessment,2005) updated to (Millenium Ecosystem Assessment, 2005)
Chapter 02: Terrestrial and freshwater ecosystems and their services	12		12		(Canadell et al. 2021) citation added to Regulation of Climate row, Ecosystem carbon stocks, emissions, and removals
Chapter 02: Terrestrial and freshwater ecosystems and their services	12		12		In the line 'Regulation of hazards and extreme events', change 2.5.5.2 to 2.5.3.2
Chapter 02: Terrestrial and freshwater ecosystems and their services	12		12		Regulation of hazards and extreme events row, wildfire sections updated from "2.5.5.2" to "2.5.3.2"
Chapter 02: Terrestrial and freshwater ecosystems and their services	12		12		Regulation of ocean acidification row, changes in marine species distribution and abundance section updated to "(WGII Chapter 3)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	13	5	13	5	Upodated AR6, Working Group I (WGI) to (IPCC,2021) referencing recently released WG1 report
Chapter 02: Terrestrial and freshwater ecosystems and their services	13	10	13	10	Replace WG1 Chapter 12 with (Ranasinghe et al., 2021) reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	13	38	13	38	Replace WG1 AR6 Chapter 11 with (Seneviratne et a;., 2021) reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	14	6	14	6	Write 'high confidence' in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	14	30	14	30	added letter "a" after 2014 for reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	15	1	15	1	Figure 2.1: spelling error fixed in key of panel (a), "Tee" corrected to "Tree"
Chapter 02: Terrestrial and freshwater ecosystems and their services	15	11	15	11	Change header to "2.3.2 Projected Impacts of Increases in Extreme Events "
Chapter 02: Terrestrial and freshwater ecosystems and their services	16	44	16	44	Change wording in sentence to: "...hypoxic conditions by >25% due to fewer complete mixing events..."; removed "reduced winter mixing and"
Chapter 02: Terrestrial and freshwater ecosystems and their services	17	1	17	1	Figure 2.2: colors of panels (a) and (b) titles changed to blue
Chapter 02: Terrestrial and freshwater ecosystems and their services	18	2	18	3	Figure 2.3: colors of panels (a) and (b) titles changed to blue
Chapter 02: Terrestrial and freshwater ecosystems and their services	20	1	20	1	Figure 2.4: colors of panels (a) and (b) titles changed to blue and moved to left side of image
Chapter 02: Terrestrial and freshwater ecosystems and their services	21	29	21	29	Merge references into one set of parentheses
Chapter 02: Terrestrial and freshwater ecosystems and their services	22	34	22	36	First sentence changed to: "Increases in the frequency and magnitudes of extreme events, attributed to anthropogenic climate change by WGI, are now causing profound negative effects across all realms of the world (marine, terrestrial, freshwater and polar) (medium confidence)..." and citations updated
Chapter 02: Terrestrial and freshwater ecosystems and their services	22	47	55	48	Sentence modified to: "Consequently, rather than having decades to identify, develop and adopt solutions, actions to build resilience and assist recovery following extreme events are required quickly if they are to be effective. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	22	57	22	57	(Fox-Kemper et al., 2021) citation added for WG1 AR6 Chapter 9
Chapter 02: Terrestrial and freshwater ecosystems and their services	24	6	24	6	Updated Cross-Chapter Paper 6 Polar
Chapter 02: Terrestrial and freshwater ecosystems and their services	25	1	25	1	Figure CCB Extremes.1: Clarifying title added and spelling errors corrected: "extinction" "too"
Chapter 02: Terrestrial and freshwater ecosystems and their services	26	3	26	3	Added Collins et al., 2019 and updated other references: "...(Section 2.5.3; Collins et al. 2019; Section 3.4.4.1; Section 3.4.4.1.4; chapters 9-15)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	26	12	26	12	Figure CCB Extremes.2: updated to IPCC styles and refined to appear cleaner and more pleasing to the eye; no written info changed, except for correcting the typo "Matric" to "Matrix", images and pictures species/populations, habitat, landscape, and hazards added for reader accessibility and to more clearly convey meaning.
Chapter 02: Terrestrial and freshwater ecosystems and their services	26	31	26	32	Sentence modified to: "Since then, thousands of new studies and additional species have been added, leading to higher confidence in climate change attribution..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	27	2	27	2	New sentence added at end of paragraph: "Due to the overwhelming volume of literature, the assessments for chapter 2 concentrates on results from large continental or global-scale reviews and meta-analyses. Most of the assessment of studies conducted in individual countries can be found in Regional chapters, with exceptions being very large countries or political entities that occupy much of a continent (e.g., Canada, the USA, Australia or Europe), or studies that provide rare or uniquely-relevant information."
Chapter 02: Terrestrial and freshwater ecosystems and their services	27	2	27	2	Updated IPBES reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	27	16	27	16	Add "population" in-between 'local' and 'extinctions' to read "local population extinctions"
Chapter 02: Terrestrial and freshwater ecosystems and their services	27	28	27	28	Added sentence to beginning of paragraph: "Attribution is strong for species and species-interactions for which there is a robust mechanistic understanding of the role of climate on biological processes (high confidence). "

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Chapter 02: Terrestrial and freshwater ecosystems and their services	27	40	27	40	Update sentence to "...found that observed mortality of Scots pine from bark beetles was highest..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	27	47	27	47	Added uncertainty assessment of (medium evidence, high agreement)
Chapter 02: Terrestrial and freshwater ecosystems and their services	28	6	28	6	Replace "agreement" by "evidence" to read "robust evidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	28	7	28	7	Replace "confidence" by "agreement" to read "high agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	28	20	28	20	Added uncertainty assessment of "(high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	28	21	28	21	A new sentence added: "A global meta-analysis of 236 species of birds, mammals, amphibians, fish, invertebrates and plants across 132 independent studies found that changes in population abundances were strongly related to temperature variability globally, and significantly related to precipiation variability in lower latitudes (Pearce-Higgins, 2015)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	28	32	28	32	"globally" added to sentence, reads now as "...widespread among plants and animals globally, detected..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	28	52	28	52	Sentence updated to: "...can be attributed to climate-change-driven glacier retreat (Cauvy-Fraunié and Dangles, 2019)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	1	29	2	Sentence updated to: "...major declines have been recorded for several species and population extinctions have occured at lower elevations since the early 2000s (Chandler, 2014; Weber et al., 2021)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	4	29	4	Add "In the wild" after 'extinct' to read: "... species have become extinct in the wild,..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	12	29	12	Uncertainty assessment of high confidence added
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	28	29	30	New summarizing statement added: "In summary, local population extinctions caused by climate-change-driven increases in extreme weather and climate events have been widespread among plants and animals (very high confidence), and the first clear documentations of entire species driven extinct by recent climate change is emerging (medium confidence)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	36	29	36	Replace "are likely to go extinct" by "will probably go extinct"
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	43	29	45	Sentences modified to the following: "Extinction of species has always occurred in the history of our planet, but human activities causing climate change are accelerating this process, such that the estimated 10% of species that humans have driven to extinction in the past 10,000 years is roughly 1,000 times the natural background rate. Recent research predicts that climate change would add to that, with estimates that about one-third of all plant and animal species are at high risk of extinction by 2070 if climate change continues at its current rate."
Chapter 02: Terrestrial and freshwater ecosystems and their services	29	50	29	51	Sentence modified: "In the Arctic, for example, the sea ice is melting and, unless there are deep cuts in greenhouse-gas emissions, will probably disappear in summer within the century."
Chapter 02: Terrestrial and freshwater ecosystems and their services	30	13	30	15	Section modified to: "However, moving species only a few hundred kilometers avoids most adverse outcomes, and this is often all that is needed to help a wild plant or animal cope with lower levels of climate change. In extreme cases, another type of assisted adaptation is to preserve species until we can stabilize then reverse climate change, and then reintroduce them to the wild."
Chapter 02: Terrestrial and freshwater ecosystems and their services	30	32	30	32	Add "increases in" before "extreme"
Chapter 02: Terrestrial and freshwater ecosystems and their services	30	38	30	39	Figure FAQ2.1.1 (FAQ about extinction): Graphic further refined to match IPCC styles and punctuation corrected.
Chapter 02: Terrestrial and freshwater ecosystems and their services	31	15	31	15	The following sentences were added: "While it is also expected from observed range shifts of individual species that species richness should increase along tropical/temperate ecotones and along temperate/boreal ecotones, to date this has not been well documented. Lewthwaite (2021) documented a small increase in local richness across Canada for 265 species of butterflies, but the larger effect was an homogenization across the region. In a study of 66 bumble bee species across North America and Europe, Soroye (2022) did not find the expected pattern, with most sites, regardless of latitude, declining in species richness, even when individual species benefited from warming or increased precipitation." And these two new references also added to the references
Chapter 02: Terrestrial and freshwater ecosystems and their services	31	17	31	17	Cahill et al., 2013 reference added
Chapter 02: Terrestrial and freshwater ecosystems and their services	31	19	31	20	Sentence split and modified to better explain 'climate debt': "Analyses indicated that responses in range shifts and timing were lagging behind the changes expected from regional warming. This type of lag, where biological response is less than expected, is called 'climate debt'."
Chapter 02: Terrestrial and freshwater ecosystems and their services	31	24	31	27	"Geothermal streams have provided evidence about community structure and ecosystem function at high temperatures. A study of 14 such habitats reported simplified food web structures and shortened pathways of energy flux between consumers and resources (high confidence) (O'Gorman et al., 2019) . " Sentence moved to next paragraph after 1st sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	31	45	31	45	Replace "(high agreement, medium confidence)" by "(medium evidence, high agreement)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	32	15	32	15	Insert "robust evidence, " before 'high agreement" and remove "high confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	32	44	32	44	Uncertainty assessment of "medium confidence" added

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Chapter 02: Terrestrial and freshwater ecosystems and their services	32	48	32	53	First two sentences restructured and edited to the following: "Since AR5, the number of studies of changes in phenology (timing of biological events) has increased substantially, aided by advances in remote sensing (Piao et al., 2019). Phenological studies have documented particularly consistent conclusions on responses of plants and animals to warming, including the advancement of spring events and the lengthening of growing seasons in temperate regions (via a combination of advancement of spring events and, to a lesser extent, the retardation of autumn events) (robust evidence, high agreement) (Table 2.2, Table 2.3, Table SM2.1; Menzel et al., 2020). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	32	53	35	53	Add "animal" in front of "phenology"
Chapter 02: Terrestrial and freshwater ecosystems and their services	32	55	32	55	"observed" added in front of "advances" in latter portion of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	33	5	33	5	Add "for plants" before "was 5.5 …"
Chapter 02: Terrestrial and freshwater ecosystems and their services	33	37	33	37	(IPCC, 2014) and (Parmesan, 2015) and (Cook et al., 2012b)and (Legave et al., 2015) references added
Chapter 02: Terrestrial and freshwater ecosystems and their services	33	40	33	40	(Ettinger et al., 2020) reference added after spring development sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	33	50	33	50	"tend to" inserted between "which" and "follow"
Chapter 02: Terrestrial and freshwater ecosystems and their services	33	52	33	54	First sentence modified to: "Vitasse et al. (2018), working with alpine trees, found that phenological delay with increasing elevation had declined from 34 days/1000 m in 1960 to 22 days/1000 m in 2016, greatly reducing the differences in timing between trees growing at different elevations."
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	20	34	21	2nd sentence modified to: "For each study for which data were made available, a response for an individual species or functional…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	29	34	29	Huang et al 2013 has been added
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	30	34	30	This sentence added to to replace last sentence in the Table 2.2 caption : "The last collumn distinguishes studies that were designed for attribution to climate change (e.g. by analysing only long-term data from relatively undisturbed habitats (see section 2.1.3 and 2.4.1; Parmesan 2013; Cramer 2014) and those that analysed all available data, including data from areas highly-impacted by non-climate drivers (e.g. LULCC)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	31	34	31	In Table 2.2: The 2nd column corrected within the row "Ficetola and Maiorano (2016)" and updated to read: "66 studies of temperature effects; 15 studies of precipitation effects"
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	31	34	31	Table 2.2 inserted and reformated to improve readability. No information altered besides what is updated below describing a study
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	40	34	41	Long sentence split into two and second portion modified to new sentence reading: "For example, warmer temperatures have driven the masculinisation of lizard populations (Schwanz and Janzen, 2008; Schwanz, 2016; Edmands, 2021) and the feminisation of turtle populations (Telemeco et al., 2009)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	43	34	43	Hubau et al. (2020) has been added.
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	43			Hubau et al. (2020) has been added. (earlier spelling error corrected)
Chapter 02: Terrestrial and freshwater ecosystems and their services	34	46	34	47	Sentence modified to read: "Behavioural plasticity (flexibility) such as nest-site selection can provide a partial buffer from the effects of increasing temperature by placing the individual in a slightly cooler microclimate, but there…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	35	10	35	10	This article is relevant to the wildfire project. It already appears in section 2.5.3 Risk Assessment of Ecosystems and Related Services, which is more suitable section 2.4.3.6 observed changes in the tropical forest.
Chapter 02: Terrestrial and freshwater ecosystems and their services	35	17	35	17	"(low confidence)" moved to end of paragraph
Chapter 02: Terrestrial and freshwater ecosystems and their services	35	19	35	21	Sentence modified to read: "However, the lack of systematic empirical evidence in fresh waters, and confounding effects such as interactions between temperature, nutrient availability and predation, limit generalisations in attributing observed body size changes to climate change (low confidence) (Pomati et al., 2020 Nutrients). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	18	36	18	"Further," added before "most emerging infectious diseases…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	22	36	22	"WGII AR5 Chapter 11" replaced with "AR5"
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	24	36	24	"only" removed
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	25	36	25	(IPCC, 2014) replaced with (Smith et al., 2014)
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	27	36	27	"also" removed
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	29	36	31	Beginning sentence of paragraph modified to: "Increased disease incidence is correlated with regional climatic changes, as expected from a basic understanding of underlying biology and relationships between temperature, precipitation, and disease ecology (robust evidence, high agreement)…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	38	36	39	2.4.2.7.1 Heading updated to: "Direct effects of climate and climate change on reproduction, seasonality, the length of the growing season and the transmission of pathogens, vectors and hosts"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 02: Terrestrial and freshwater ecosystems and their services	36	50	36	50	Uncertainty assessment of "(very high confidence)" added
Chapter 02: Terrestrial and freshwater ecosystems and their services	37	47	37	47	Uncertainty assessment updated to "(very high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	38	28	38	28	Heading 2.4.2.7.2 updated to "Changes in geographic distribution and connectivity patterns of pathogens"
Chapter 02: Terrestrial and freshwater ecosystems and their services	39	8	39	9	"(robust evidence, high agreement)" updated to "(very high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	39	14	39	14	"associated with warming temperatures" added before uncertainty assessment
Chapter 02: Terrestrial and freshwater ecosystems and their services	39	37	39	37	(high confidence) uncertainty assessment added to last sentence in paragraph
Chapter 02: Terrestrial and freshwater ecosystems and their services	40	38	40	…	Sentence modified to "…(2) human intrusion in natural areas and the conversion of natural areas…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	40	42	40	42	Change FAQ2.3.1 to FAQ2.2.1
Chapter 02: Terrestrial and freshwater ecosystems and their services	41	1	41	1	Figure FAQ2.2.1 (FAQ about disease): Spelling errors corrected, title added, drops from earth removed, drivers of zoonotic expansion and shifts further explained/clarified, busy and unnecessary imagery removed
Chapter 02: Terrestrial and freshwater ecosystems and their services	42	49	42	49	Uncertainty Assessment added of "(very high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	42	51	42	51	Section reference added: "(section 2.4.2.3.1)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	2	43	2	Sentence added to end of paragraph: "Soroye et al., (2020) found similar results for 66 species of bumble-bees across Europe and North America, with declines in abundances spread throughout species' ranges, but being greatest where population already near their climate limits were being pushed beyond their climatic tolerances with climate change (section 2.4.2.3.1).
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	16	43	16	Uncertainty assessment added to last sentence: "(medium evidence, medium agreement)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	25	43	25	Uncertainty assessment added to last sentence: "(robust evidence, high agreement)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	48	43	48	"(flexibility)" added after "Plasticity" for clarification
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	51	43	51	New paragraph started with "Relevant genetic changes…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	52	43	53	Two new sentences added for support and clarification and a reference: "Further, a recent global analysis of 91 species found, on average, a 5.4-6.5% decline in genetic diversity within populations since the start of the Industrial Revolution, with much larger declines for island species (27.6-30.9% reductions) (Leigh et al., 2019). In Leigh et al. (2019) genetic declines were documented in both common and already endangered species of fish, mammals, birds, insects, amphibians and reptiles. These declines in genetic diversity, though not caused by climate change, decrease the abilities of wild species to adapt to climate change via evolutionary responses. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	43	53	43	53	"upon" changed to "on"
Chapter 02: Terrestrial and freshwater ecosystems and their services	44	7	44	7	"within the region they inhabit" added to summary sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	44	19	44	19	Modify sentence to: "The most robust attribution studies use data from many species, individual locations with minimal confounding factors, particularly observed recent LUC, and scale up by analysing multiple locations across a large zone between biomes, providing multiple lines of evidence (Hegerl et al., 2010; Parmesan et al., 2013)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	45	32	45	34	Insert "many" before "vegetation"; separate the long sentence into two sentences; spell out "two-thirds"; correct citation to (Hansson et al. 2021) so that it reads "…although many vegetation changes are consistent with climate change. For example, a global review of observed changes in treelines found that two-thirds of treelines globally have shifted upslope in elevation over the past 50 years or more (Hansson, 2021, a review of)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	46	21	46	21	Insert "(high confidence)" before the comma
Chapter 02: Terrestrial and freshwater ecosystems and their services	46	21	46	21	Insert "with high confidence" after "shrublands is occurring", and ", and with low confidence for" before "central Asia". Delete original "high confidence" and "low confidence" statements.
Chapter 02: Terrestrial and freshwater ecosystems and their services	46	30	46	30	Insert "historically" after burned at end of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	46	36	46	36	Delete "(medium confidence)", add ", in particular, have been shown to " after "hot droughts"
Chapter 02: Terrestrial and freshwater ecosystems and their services	46	40	46	41	add "have" after world and change "the" to "their" before "worst on record"
Chapter 02: Terrestrial and freshwater ecosystems and their services	47	3	47	3	Add "tree" after Cedar
Chapter 02: Terrestrial and freshwater ecosystems and their services	48	4	48	4	Change "agreement" to "consensus"
Chapter 02: Terrestrial and freshwater ecosystems and their services	48	16	48	16	Add "and boreal" after "montane" when referring to grassland
Chapter 02: Terrestrial and freshwater ecosystems and their services	49	13	49	13	Hubau et al. (2020) has been added.

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Chapter 02: Terrestrial and freshwater ecosystems and their services	49	13	49	13	Hubau et al. (2020) has been added. (earlier spelling error corrected)
Chapter 02: Terrestrial and freshwater ecosystems and their services	50	49	50	49	Cross Chapter Box 5 replaced with Canadell et al., 2021 reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	51	30	51	30	Delete "Unfortunately," from beginning of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	51	43	51	43	Add "additional" before emissions
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	6	52	6	Replace "as observed in" by "see" or, alternatively, replace "observed" by "described" or similar
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	20	52	21	Sentences changed to "There was little assessment of this in AR5. This process is driven by climate change, and stems from…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	23	52	23	Run-on sentence turned into new sentence now beginning with "These factors enhance terrestrial…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	26	52	26	Table 2.S.1 updated to "Table SM2.1"
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	28	52	29	First sentence changed to: "Browning creates a positive feedback to climate by absorbing photosynthetically active radiation, which accelerates upper water (epilimnetic) warming (Solomon et al., 2015). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	34	52	35	First sentence changed to begin with: "The ecological responses of browning are a concomitant effects of climate change and nutrient status. Results from long-term, large-scale lake experiments have been variable…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	52	45	52	45	Replace "confidence" by "agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	53	1	53	1	Figure 2.5: spelling error corrected in key, key moved to left side of image
Chapter 02: Terrestrial and freshwater ecosystems and their services	53	25	53	25	Add "(recent historical)" after natural
Chapter 02: Terrestrial and freshwater ecosystems and their services	54	30	54	30	Add "and drying associated with" and remove "of" before climate change
Chapter 02: Terrestrial and freshwater ecosystems and their services	54	38	54	38	Add "with limited attribution" to end of heading
Chapter 02: Terrestrial and freshwater ecosystems and their services	54	51	54	51	Delete "two"
Chapter 02: Terrestrial and freshwater ecosystems and their services	55	19	55	19	Make the "n" in "northeastern" lower case
Chapter 02: Terrestrial and freshwater ecosystems and their services	56	20	56	20	Add "the impacts of changes in fire weather:" after assesses
Chapter 02: Terrestrial and freshwater ecosystems and their services	56	21	56	21	Change "of" to "from"
Chapter 02: Terrestrial and freshwater ecosystems and their services	56	45	56	45	Add "communities" after "species"
Chapter 02: Terrestrial and freshwater ecosystems and their services	57	11	57	12	Figure FAQ 2.3.1: Title added and font updated to IPCC styles
Chapter 02: Terrestrial and freshwater ecosystems and their services	57	16	57	16	Delete "(Abatzoglou and Williams, 2016)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	57	21	57	21	Change FAQ2.1a to FAQ2.3a
Chapter 02: Terrestrial and freshwater ecosystems and their services	57	34	57	34	Change FAQ2.1b to FAQ2.3b
Chapter 02: Terrestrial and freshwater ecosystems and their services	60	2	60	3	Add "In summary," to beginning of sentence and add "see also" before section at end
Chapter 02: Terrestrial and freshwater ecosystems and their services	60	15	60	16	Add "In summary," to beginning of sentence and replace "(high agreement, medium confidence)" by "(high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	60	19	60	23	Paragraph rewritten as the following: "A global meta-analysis of 59 studies encompassing 631 cases of animal abundance changes in areas of tree mortality over the past 7-59 years, primarly in North America and Australia, with a few sites in other regions (e.g. Europe). Overall, in areas with documented high tree mortality, bird abundances increased (n=186 bird species), there was no significant trend for mammals (n=33 species), a slight trend towards declines in invertebrates (n=28 species), and insufficient information to categorize the responses of reptiles (n=20 species). However, within groups, significant differences appeared. Mammals that use trees as refugia showed declines with tree mortality (high confidence), but flying mammals (e.g. bats) increased (medium confidence). Ground-nesting, ground-foraging, tree-hole nesting and bark-foraging birds increased most, but nectar-feeding and foliage-gleaning birds declined (high confidence). Within invertebrates, declines were strongest in ground-foraging predators and detritivores (medium confidence) (Fleming et al., 2021)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	60	29	60	29	Insert " that are not permanently frozen" after "soils"
Chapter 02: Terrestrial and freshwater ecosystems and their services	60	30	60	30	Change "3030-4090" to "3000-4000"
Chapter 02: Terrestrial and freshwater ecosystems and their services	60	55	60	55	In response to RC 89875: Edit the sentence to read "… remove more carbon from the atmosphere (-3.4 ± Gt y-1) than they emit (+1.6 +- 0.7), a net sink -1.9 + - 1.1 (Friedlinstein et al. 2020)…" and then new sentence started by adding "Thus," and removing "so"
Chapter 02: Terrestrial and freshwater ecosystems and their services	61	4	61	4	Insert "forest" after "mountain ash"

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Chapter 02: Terrestrial and freshwater ecosystems and their services	61	4	61	4	Insert "the" before "mountain ash"
Chapter 02: Terrestrial and freshwater ecosystems and their services	61	5	61	5	Delete "forest"
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	2	62	8	Please, view these texts about the Amazon, you should combine and summarize them, delete repetitions
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	13	62	21	An area occupied by boreal and temperate forests is quite large, in this fragment should be added the assessment of carbon emissions and removals
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	14	62	14	Edit line 14 to read "...net sinks (boreal -1.6 ± 1.1 Gt y-1, temperate -3.6 ± 48 Gt y-1), as growth ..." [Note, s.d = 48 in Harris et al. 2021]
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	18	62	18	Replace "forest and timber" with "timber harvesting and other disturbance"
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	30	62	32	Old growth Amazon carbon sink sentence rewritten with analysis: "Intact old-growth Amazon rainforest has been a net carbon sink from 2000 to 2010 (-0.45 Gt y-1, min. 0.31, max. 0.57) (Hubau et al., 2020) but may have become a net carbon source in 2010–2019 (0.67 Gt, for the entire period, uncertainty not reported) (Qin et al., 2021). Deforestation and agricultural expansion, often through intentional burning, have caused Amazon rainforest to become a net carbon emitter (medium confidence)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	32	62	32	Add sentence: "Since 1990 the Amazon has acted as a carbon emitter with average net emissions amounting to 0.14 Gt C y^-1, but for the last decade amounting to 0.5 Gt C y^-1 (medium confidence)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	62	48	62	48	Insert "a depth of" after "up to"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	10	64	10	delete "medium evidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	10	64	10	Replace "confidence" by "agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	24	64	24	Add "(very high confidence)" after "(phenology)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	28	64	28	Add "(high confidence)" after "heat-tolerant species"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	34	64	34	Add "(high confidence)" after "timing"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	44	64	44	Add "(medium confidence)" after "season"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	46	64	46	Add "(high confidence)" after "river connectivity)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	46	64	46	Replace "high" by "robust" (in italics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	64	46	64	46	Write "evidence" in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	65	39	68	1	Table 2.3: icons improved and adjusted to meet IPCC standards
Chapter 02: Terrestrial and freshwater ecosystems and their services	67	1	67	1	1st row/last column: Replace "medium-high" with "high confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	67	2	67	2	2nd row/last column: Replace first 'low' by 'limited'
Chapter 02: Terrestrial and freshwater ecosystems and their services	67	5	67	5	5th row/last column: replace "high/medium confidence" with "high confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	67	10	67	10	10th row/last column: Delete "/low"
Chapter 02: Terrestrial and freshwater ecosystems and their services	67	11	67	11	11th row/last column: Delete "/limited" and Replace and delete "low" for confidence
Chapter 02: Terrestrial and freshwater ecosystems and their services	68	2	68	2	2nd row/last column: Insert "robust evidence" before "high agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	68	3	68	3	3rd row/last column: Insert "medium evidence" before "high agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	69	14	69	16	Sentence modified to the following and reference Johnston et al., 2013, added: "To date, only a few studies have validated model performance against observations, but the studies that have been conducted do generally validate models using either SDMs or process-based models (Fordham et al., 2018; Johnston, 2013, observed and predicted}. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	69	53	69	54	Add: "very small-scale" before "micro-climatic refugia" and this after: "(can be on the order of metres in size)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	69	55	69	55	"(see section 2.4.2.8)" to end of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	70	6	70	8	Text following "(10-100 years)" altered to new sentence as follows: "In this assessment, a species that is projected to become classified as 'endangered' is deemed to be at 'high risk' of extinction, and becoming classified as 'critically endangered' is deemed at 'very high risk' of extinction."
Chapter 02: Terrestrial and freshwater ecosystems and their services	70	11	70	11	New introductory sentence added to paragraph: "Because risk to freshwater species has been limited in past reports, this section provides details of freshwater risk. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	70	14	70	14	Remove "who" erroneously placed after reference
Chapter 02: Terrestrial and freshwater ecosystems and their services	70	16	70	16	Replace "high evidence" by "robust evidence"

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Chapter 02: Terrestrial and freshwater ecosystems and their services	70	48	70	48	Add "medium agreement" to uncertainty assessment
Chapter 02: Terrestrial and freshwater ecosystems and their services	70	50	70	50	Add "medium evidence" to uncertainty assessment
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	8	71	8	Insert "mean temperatures " before 1980
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	10	71	11	Modify sentence to the following: "These estimates approximately correspond to 50-80% reductions in range size (depending upon study), that this assessment equates with a 'high' and 'very high' extinction risk (IPCC, 2007a)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	13	71	13	Delete "…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	17	71	18	Add "local" before "species' " and before "biodiversity loss"
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	19	71	19	", and so at high risk of local population losses (local population extinctions) (Figure 2.6)" added to end of sentence after "(sensu IUCN)..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	19	71	21	"the best" added before "estimates" and "an" replaced with "that" before "ecosytem's ability…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	21	71	24	Sentence beginning with "Second is…" moved to new paragraph and further elaborated/edited here: "Second is assessment of the proportions of species becoming endangered globally (not just locally), so at high risk of global extinction of the species, termed 'global biodiversity loss' (Figure 2.8b). This metric (losing > 50% of suitable climate space across the species' entire range) also serves to estimate a species' becoming sufficiently rare that the species no longer fully contributes to ecosystem functioning, a state that often occurs decades before complete extinction (death of the last individual). The proportions of species becoming at high risk of global extinction is the foundation for the burning embers diagram on global biodiversity loss in Table 2.5 and Figure 2.11. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	24	71	27	Sentence beginning with "Third is..." moved to new paragraph and further elaborated/edited to the following: "Third is an assessment of risk of the proportions of species becoming at very high risk of extinction globally at different levels of GSAT warming, measured using the IUCN criteria for 'critically endangered', and termed 'species' extinction risk' (Figure 2.7 and Figure 2.8a). This measure is closest to assessing the complete loss of a species in the wild and can be used to compare to past (palaeo) extinction rates. These three approaches provide complementary information of the overall risks to individual species, to biodiversity at the community scale, and to ecosystem integrity and functioning at different levels of warming."
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	29	71	33	Parapraph rewritten to the following: " Risk of local biodiversity loss, estimated as the proportion of species in a given area projected to become endangered (sensu IUCN), and therefore at high risk of extinction, is projected to affect a greater number of regions experiencing increasing warming. with about one-third of land area risking more than 50% of species becoming "endangered" by 4.0° GSAT warming (Figure 2.6). That is, the pink and purple areas in Figure 2.6 are those areas for which >50% of species currently inhabiting those ecosystems are projected to lose >50% of their climatically suitable habitat. Species' losses are projected to be worst in northern South America, southern Africa, most of Australia and at northern high latitudes (medium confidence) (Figure 2.6)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	71	34	71	34	Two clarifying paragraphs added, first paragraph is from page 74, lines 25-28 and second paragraph is text moved up from (page 73, rows 35-39): "For risk of global biodiversity loss, at 1.58°C (median estimate), >10% of species are projected to become "endangered", and so at high risk of extinction (sensu IUCN). At 2.07°C (median) >20% of species are projected to become endangered, representing a high and very high risk of biodiversity losses, respectively, substantial enough to reduce ecosystem integrity and functioning (medium confidence) (Figure 2.8b) (see Section 2.5.4; Figure 2.11; Table 2.5, Table SM2 .5). Risk of global biodiversity loss differs among taxonomic groups. The percent of species projected at high risk of extinction was 49% for all insects, 44% for all plants and 26% for all vertebrates at ~3°C global rise in temperature (Figure 2.8b) (Warren et al., 2018). These estimates dropped considerably at lower levels of warming, down to 18%, 16% and 8% at 2°C; and 6%, 8% and 4% at 1.5°C (Figure 2.8b) (Warren et al., 2018), so not entirely dissimilar to the numbers in AR4 (Figure 2.7). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	72	1	72	1	Figure 2.6: Title added, axis labels and color scheme updated to IPCC styles, new and more complete analysis updated bare/empty regions
Chapter 02: Terrestrial and freshwater ecosystems and their services	72	2	72	10	Figure 2.6 caption updated and made easier to understand by adding the following text: "for different areas" after "Biodiversity loss" in first sentence. Second sentence: "percent" updated to "percentage". Fourth sentence changed to: "Colour shading represents proportion of species for which the climate is projected to become sufficiently unsuitable that the species becomes locally 'endangered' and at high risk of local extinction...". Sixth sentence changed to: "Areas shaded in pink and purple represent a significant risk of biodiversity loss (areas where climates become sufficiently unsuitable that it, renders >50% and >75% of species at high risk of becoming locally extinct, respectively)."

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Chapter 02: Terrestrial and freshwater ecosystems and their services	73	1	73	12	Paragraph rewritten to the following for clarification:" 'Species' extinction risk', estimated as at very high risk of extinction globally, i.e. becoming "critically endangered" (sensu IUCN) is shown in Figures 2.7 across 178 studies and in Figure 2.8a split by taxonomic group. It is likely that the percentage of species at a very high risk of extinction (median and maximum estimates) will be 9% (max. 14%) at 1.5°C, 10% (max. 18%) at 2°C, 12% (max. 29%) at 3.0°C, 13% (max. 39%) at 4°C and 15% (max. 48%) at 5°C (Figure 2.7). Maximum estimates of species at very high risk of extinction reach 60% within the 95% quartiles, ie the very likely range, for 5°C GSAT warming. Among the groups containing the largest numbers of species at a high risk of extinction for mid-levels of projected warming (3.2°C rise in GSAT) are: invertebrates (15%), specifically pollinators (12%), amphibians (11%, but 24% for salamanders) and flowering plants (10%) (Figure 2.8a). All groups fare substantially better at 2°C, with extinction projections reducing to <3% for all groups, except salamanders at 7% (medium confidence) (Figure 2.8a). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	73	14	73	15	Figure 2.7: Title added, axis labels and color scheme updated to IPCC styles
Chapter 02: Terrestrial and freshwater ecosystems and their services	73	16	73	16	Comprehensive and clarifying Figure title and sentence added to beginning of Figure 2.7 caption: "Global assessment of species' extinction risks under different levels of warming. Graph shows a synthesis of climate-driven models of individual species projected to become at very high risk of extinction globally (i.e, becoming "critically endandered" sensu IUCN by losing >80% of their suitable climate space or through estimates of extinction risk from process-based models)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	73	26	73	26	Write 'medium confidence' in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	73	33	73	39	First sentence deleted and second sentence moved above to page 71, row 34.
Chapter 02: Terrestrial and freshwater ecosystems and their services	73	39	74	2	Sentences modified to: "Figure 2.8 also shows the benefits of dispersal in reducing extinction risk in birds, mammals, butterflies, moths and dragonflies (depicted with an asterix). While dispersal may benefit individual species, it poses additional risks to communities and ecosystems that species are moving into, as interactions between species are changed or eliminated. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	74	4	74	5	Figure 2.8 (Extinction): Title added and colors/scale refined to match IPCC styles
Chapter 02: Terrestrial and freshwater ecosystems and their services	74	11	74	11	Figure 2.8 caption modified as follows: "in" replaces "underpinning"
Chapter 02: Terrestrial and freshwater ecosystems and their services	74	17	74	22	Figure 2.8 caption text modified as follows: "Sample size for each group is as follows: 1) fungi (16187 species); 2) all plants (72399 species), broken down into sub-groups of plants: flowering plants (52310 species), timber species (1328 species), grasses (3389 species) and pines (340 species); 3) all invertebrates (33,949 species), broken down into sub-groups of invertebrates: annelid worms (155 species), flies (4809 species), beetles (7630 species), moths (6910 species), true bugs (1728 species), spiders (2212 species), all pollinators (1755 species), butterflies (1684 species), ants/bees/wasps (5914 species), dragonflies (599 species); 4) Chordates (12642 species), broken down into major groups: 4i) all amphibians (1055 species), broken down into sub-groups of amphibians: frogs (887 species) and salamanders (163 species); 4ii) reptiles (1850 species), snakes (1741 species) and turtles (94 species); 4iii) all mammals (1769 species), broken down into sub-groups of mammals: ungulates (80 species), bats (500 species), carnivores (107 species), 4iv) all birds (7968 species), broken down into sub-groups of birds: passeriforme birds (4744 species), and non-passeriforme birds (3224 species)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	74	25	74	28	Text slightly modified and moved up to page 71, line 34
Chapter 02: Terrestrial and freshwater ecosystems and their services	74	28	74	28	Change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	74	29	74	29	Summarizing sentence added to start new paragraph: "Projected species extinctions at future global warming levels are in accord with projections from AR4, assessed on much larger numbers of species with much greater geographic coverage and a broader range of climate models. (Figure 2.7; Figure 2.8a). Even the lowest estimates of species extinction (median of 9% at 1.5°C warming, Figure 2.7) are 1000 times the natural background rates (Section 2.5.4; De Vos et al., 2015)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	8	75	8	Last portion of last sentence modified to: "...determine the risk and ability of many species to survive over the next century."
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	21	75	21	"(cross-chapter box Illness in this chapter)" added to direct reader to appropriate CCB
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	26	75	26	"(cross-chapter box Illness in this chapter, chapter 7) " added to direct reader to appropriate CCB and chapters covering topic
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	36	75	36	Replace "confidence" by "agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	43	75	43	Added clarifying text "of wild animals, domesticated animals and humans" after "environmentally transmitted diseases"
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	44	75	44	Changed "increasing transmission" to "increasing risk of transmission"
Chapter 02: Terrestrial and freshwater ecosystems and their services	75	45	75	45	Uncertainty assessment of "(high confidence)" and other section of report associated with statement "(see also chapter 7)" added
Chapter 02: Terrestrial and freshwater ecosystems and their services	76	8	76	8	Delete "AR6"
Chapter 02: Terrestrial and freshwater ecosystems and their services	76	49	76	49	Change "we manage to rapidly" to "there is a rapid"
Chapter 02: Terrestrial and freshwater ecosystems and their services	77	2	77	3	Figure 2.9: Title added and colors/symbols/font refined to match IPCC styles. Key of studies used to inform graph added

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Chapter 02: Terrestrial and freshwater ecosystems and their services	77	6	77	6	Change 2.S.3 to SM2.3
Chapter 02: Terrestrial and freshwater ecosystems and their services	77	17	77	20	Sentence split into two sentences. Second sentence now reads: "In particular, in cold (boreal and tundra) regions, as well as in dry regions (high confidence), alterations of 2–47% of the areal extent of terrestrial ecosystems in scenarios of <2°C warming above pre-industrial levels have been projected, increasing drastically with higher-warming scenarios (Warren, 2011; Wårlind et al., 2014). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	4	78	5	Uncertainty assessment of "(medium confidence)" added
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	25	78	25	"(MTEs)" added to end of section header
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	25	78	25	Replace "Mediterranean-type" by "Mediterranean Type"
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	27	78	27	"Mediterranean ecosystems" should be written as "mediterranean ecosystems" if not pertaining to the Mediterranean. As "mediterranean-type ecosystems" always refer to more than just the Mediterranean Basin they should never be written as "Mediterranean type ecosystems" unless at the begin of a sentence, in a title etc.
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	27	78	27	First sentence modified to begin as: "The regions containing MTEs all show high confidence in projected increases…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	46	78	46	Change "forests" to "small stands of trees"
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	50	78	50	Change 2.5.5.2 to 2.5.3.2
Chapter 02: Terrestrial and freshwater ecosystems and their services	78	53	78	53	Write 'high confidence' in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	79	11	79	11	"(See sections 2.4.4.2 and 2.5.3.2)" added to direct reader to appropriate sections covering topic
Chapter 02: Terrestrial and freshwater ecosystems and their services	79	26	79	28	Sentence modified and uncertainty assessment added: "Worldwide, woody cover is increasing in savannas (Buitenwerf et al., 2012; Donohue et al., 2013; Stevens et al., 2017), as a result of interactions of elevated CO2 and altered fire and herbivory impacts, some of which stems from LUC (high confidence)(see Section 2.4.3.5; CCP3.2; Venter et al., 2018; Wu et al., 2021). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	81	10	81	15	Added at end of paragraph: "To minimize these potential threats, the Yunnan provincial government has identified suitable areas for the establishment of national parks, including the Asian Elephant National Park since 2006. And the government of China developed a national park system in 2013 across the country."
Chapter 02: Terrestrial and freshwater ecosystems and their services	81	49	81	53	Latter portion of sentence updated, entire sentence now reads as: "Peatland area loss (shrinking) near the southern limit of their current distribution or in areas where the climate becomes unsuitable is also expected (medium evidence, medium agreement) (Section 2.3.4.3.2; Finkelstein and Cowling, 2011; Gallego-Sala and Prentice, 2013; Schneider et al., 2016; Müller and Joos, 2020), but they could persist if moisture is maintained via their capacity to self-regulate."
Chapter 02: Terrestrial and freshwater ecosystems and their services	83	22	83	22	Added "and draining of existing ponds" after "the formation of thaw ponds" for clarity
Chapter 02: Terrestrial and freshwater ecosystems and their services	84	20	84	20	"(Table SM2.4)" added at end of sentence to direct reader to appropriate supplemental table
Chapter 02: Terrestrial and freshwater ecosystems and their services	84	27	84	28	Figure Box 2.1.1: Font color changed on text at top under title
Chapter 02: Terrestrial and freshwater ecosystems and their services	85	3	85	3	Sentence explaining what Figure Box 2.1.1 is based upon added to end of caption: "Based upon studies listed in Table SM2.4 and section 2.4."
Chapter 02: Terrestrial and freshwater ecosystems and their services	85	8	85	8	Replace "Fig" by "Figure" and add "Table SM2.4"
Chapter 02: Terrestrial and freshwater ecosystems and their services	87	14	87	14	Replace "expose" with "emerge in"
Chapter 02: Terrestrial and freshwater ecosystems and their services	87	17	87	17	Reword "the highest projected exposure" to "the highest exposure to novel climates"
Chapter 02: Terrestrial and freshwater ecosystems and their services	90	5	90	6	add "and other forest products" after "timber production"
Chapter 02: Terrestrial and freshwater ecosystems and their services	90	53	9	53	Change 2.5.5.2 to 2.5.3.2; Change 2.5.5.3 to 2.5.3.3
Chapter 02: Terrestrial and freshwater ecosystems and their services	91	15	91	15	Move "median" to inside parentheses and parentheses added to end of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	91	33	91	33	Delete " is low"
Chapter 02: Terrestrial and freshwater ecosystems and their services	91	33	91	33	Replace "the confidence on" by "there is low confidence in"
Chapter 02: Terrestrial and freshwater ecosystems and their services	92	8	92	12	Sentences modified to: "The authors estimate the vegetation carbon sink in 2030–2040 to decline to zero±0.205 PgC yr-1 in the Amazon and to 0.26±0.215 PgC yr-1 in Africa (a loss of 14% compared to the present). Their results suggest that, over time, CO2 fertilisation is outweighed by the impacts of higher temperatures and drought that enhance tree mortality and diminish growth. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	92	36	92	36	"Given that" removed from beginning of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	92	45	92	45	Replace 'CRCCL' to 'SRCCL'

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 02: Terrestrial and freshwater ecosystems and their services	93	1	94	1	Appropriate sections added under each perturbation type to direct reader to appropriate material: 1st row: Die-off and large-scale mortality events "(sections 2.4.2.2, 2.4.4.3)"; 2nd row: Deforestation "(sections 2.4.3.6, 2.4.3.7)"; 3rd row: Forest degradation "(sections 2.4.3.6, 2.4.3.7)"; 7th row: Fire "(sections 2.4.4.2, 2.5.3.2)"; 8th row: Changes in forest composition "(sections 2.4.3.6, 2.4.3.7, 2.5.2.6, 2.5.2.7)"; 9th row: Woody encroachment in non-forested ecosystems "(sections 2.4.3.3, 2.4.3.4, 2.4.3.5, 2.5.2.3, 2.5.2.4, 2.5.2.5, Box 2.1)"; 10th row: NPP shifts "(section 2.4.4.5)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	94	2	94	3	Figure 2.10: Font color changed to match IPCC styles
Chapter 02: Terrestrial and freshwater ecosystems and their services	95	12	95	12	"a^-1" changed to "yr^-1"
Chapter 02: Terrestrial and freshwater ecosystems and their services	96	32	96	32	"Table 2.SM" changed to "Table SM2.1"
Chapter 02: Terrestrial and freshwater ecosystems and their services	96	43	96	43	"for freshwater systems" added after "In summary"
Chapter 02: Terrestrial and freshwater ecosystems and their services	96	49	96	49	Remove "medium confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	96	52	96	52	"…importance of better accounting for freshwater…" replaced "…importance to account for freshwater..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	97	2	97	3	Replace "high agreement" with "high confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	97	15	97	15	Change 2.5.5.2 to 2.5.3.2; Change 2.5.5.3 to 2.5.3.3
Chapter 02: Terrestrial and freshwater ecosystems and their services	97	36	97	37	Add "projected"; change "reduces" to "can reduce"; delete "renewable" and "significantly" so that it reads "…projected climate change can reduce surface water and groundwater resources…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	97	43	97	43	Delete "empirical"
Chapter 02: Terrestrial and freshwater ecosystems and their services	98	20	98	20	Replace "confidence" by "agreement"
Chapter 02: Terrestrial and freshwater ecosystems and their services	98	47	98	51	Opening sentence rearranged to match order in Burning Embers diagram (Figure 2.11) and wording improved for readability: "Among numerous risks to terrestrial and freshwater ecosystems from climate change, this chapter identified five phenomena as the most fundamental risks of climate change to ecosystem integrity and the ecosystem services that support human well-being that are also quantified sufficiently to estimate risk thresholds with at least medium confidence : Biodiversity loss (global species losses from ecosystems), ecosystem structure change, increased tree mortality, increased wildfire, and ecosystem carbon losses and (Table 2.5, Table SM2.5; Figure 2.11). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	98	51	98	51	Change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	21	99	21	Put "endangered" into quotes and add: ",and therefore at high risk of extinction," after "(sensu IUCN)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	38	99	38	Change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	45	99	45	"climate change, with some cases being attributed to" added after "or in part, to"
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	47	99	47	"global mean surface temperature" changed to "GSAT"
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	48	99	48	Change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	50			Biodiversity Risk section has been modified to the following: "Global biodiversity loss:" replaces "Biodiversity risk:"; In first sentence "becoming endangered with" is added before "projected loss…"; In second sentence "number" is replaced with "observed documentation of hundreds" and "many" is added before "sub-species…" and "all" is added before "attributable to climate…" and "(with medium confidence or higher)" added to the end of the sentence. The third sentence has "high" added in front of "risk of extinction" and "(losing >50% of their suitable climate space)" is removed. The last sentence of this section has been modified to add "for the purpose of developing this burning embers diagram," before "these are based…" and "for which there were multiple warming scenarios considered," was added before "and primarily…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	99	50	102	1	Table 2.5 has been re-ordered so that key risks are in same order in table as in figure 2.11, ie re-ordered as follows: biodiversity loss, ecosystem structure change, tree mortality, wildfire increase, carbon loss
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	4	100	4	Replace "Confidence" by "There is high confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	4	100	4	Replace "Confidence" by "There is medium confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	5	100	5	Delete " is high"
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	5	100	5	Delete " is medium"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	10	100	10	Do write "(confidence)" under "Risk transitions" in regular typeface (not itatlics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	-	100	-	2nd headline row in section "Wildfire": Do write "(confidence)" under "Risk transitions" in regular typeface (not itatlics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	-	100	-	Replace "(high)" by "(high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	-	100	-	Replace "(high)" by "(high confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	-	100	-	Replace "(medium)" by "(medium confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	100	-	100	-	Replace "(medium)" by "(medium confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	101	-	101	-	Do write all "(confidence)" under "Risk transitions" in regular typeface (not itatlics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	101	-	101	-	Replace "(low)" by "(low confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	101	-	101	-	Replace "(low)" by "(low confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	101	-	101	-	Replace all "(medium)" by "(medium confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	101	-	101	-	Replace all "(medium)" by "(medium confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	101		101		In 'Ecosystem carbon loss', change 2.S.3 to SM2.3, change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	101		101		In the Tree Mortality box, in the Risk transitions column, change the high-very high temperature to 3.5ºC.
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Append after "lowers to medium" the word " confidence" in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Append after "lowers to medium" the word " confidence" in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Do write "(confidence)" under "Risk transitions" in regular typeface (not itatlics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Do write "(confidence)" under "Risk transitions" in regular typeface (not itatlics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Replace "Overall confidence in projections is medium" by "Overall there is medium confidence in projections"
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Replace "Overall confidence in projections is medium" by "Overall there is medium confidence in projections"
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Replace all "(medium)" by "(medium confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Replace all "(medium)" by "(medium confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Write 'confidence' in "giving high confidence" in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	102	-	102	-	Write 'confidence' in "giving high confidence" in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	102		102		In 'Ecosystem structure change', change 2.S.3 to SM2.3
Chapter 02: Terrestrial and freshwater ecosystems and their services	103	1	103	1	The order of the burning embers in Figure 2.11 was changed. From left to right, they are in order of increasing temperature of the high to very high transition. In addition, some of the colors, uncertainty bars, and locations of dots were corrected.
Chapter 02: Terrestrial and freshwater ecosystems and their services	103	2	103	15	Figure caption revised to match the order in the burning embers figure itself. In the second sentence, "the most" was removed from before "fundamental risks of..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	103	14	103	14	Change 2.S.4 to SM2.5
Chapter 02: Terrestrial and freshwater ecosystems and their services	103	24	104	24	Delete "but" and split second sentence into two sentences.
Chapter 02: Terrestrial and freshwater ecosystems and their services	103	27	103	27	Delete ", decrease biodiversity"
Chapter 02: Terrestrial and freshwater ecosystems and their services	104	33	104	34	Figure FAQ2.4.1 (human health and nature): Title added, spelling/typos corrected, clarifying text added
Chapter 02: Terrestrial and freshwater ecosystems and their services	106	35	106	35	Add ", attempted through experiments, " after "documented"
Chapter 02: Terrestrial and freshwater ecosystems and their services	106	36	106	38	Sentence rewritten and section added: "It is very improbable that evolutionary responses would be sufficient to prevent species extinctions in the case of that species losing its climate space entirely on a regional or global scale (section 2.4.2.8) (Parmesan and Hanley, 2015). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	106	45	106	45	Add "have" after "Multiple studies"
Chapter 02: Terrestrial and freshwater ecosystems and their services	106	54	106	55	Put 'climate debt' in quotes and added "(see sections 2.4.2.3.1, 2.4.2.8, 2.5.1.3.1)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	108	4	109	1	Corrected font to Times New Roman for references
Chapter 02: Terrestrial and freshwater ecosystems and their services	108	-	108	-	Replace in headline row "Confidence Assessment" by "Uncertainty Assessment"

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Chapter 02: Terrestrial and freshwater ecosystems and their services	109	9	109	9	Add "of a given species" after "larger populations"
Chapter 02: Terrestrial and freshwater ecosystems and their services	109	17	109	17	(Table 6) corrected to (Table 2.6)
Chapter 02: Terrestrial and freshwater ecosystems and their services	111	42	111	42	Delete "Nature-based Solutions: "
Chapter 02: Terrestrial and freshwater ecosystems and their services	111	44	111	44	Delete line
Chapter 02: Terrestrial and freshwater ecosystems and their services	112	13	112	13	Table 2.7, row 3, column 1 add at end "coral and oyster reefs."
Chapter 02: Terrestrial and freshwater ecosystems and their services	112	-	112	-	Replace in headline row "Confidence Assessment" by "Uncertainty Assessment"
Chapter 02: Terrestrial and freshwater ecosystems and their services	115	63 (not right)			Add: "This chapter has identified risks to species, communities, ecosystems and ecosystem services from climate change which increase with Global Warming Level (2.5.1, 2.5.2, 2.5.3, 2.5.4); there is therefore a risk to Ecosystem-based Adaptation measures in some circumstances and this risk increases progressively above 1.5°C of warming."
Chapter 02: Terrestrial and freshwater ecosystems and their services	116	2	116	2	", causing the Covid-19 pandemic " after "humans"
Chapter 02: Terrestrial and freshwater ecosystems and their services	116	2	116	3	Second sentence of paragraph modified to include more references and for clarity: "A robust disease risk reduction policy would include utilising One Biosecurity (Hulme, 2020; Macleod and Spence, 2020; Meyerson and Reaser, 2002) or One Health (Zinsstag et al., 2020; Deem et al., 2018; Destoumieux-Garzón et al., 2011; Monath et al., 2010) approaches with actions to reduce disease risk…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	116	36	116	36	Contributing author countries updated for "Joacim Rocklöv (Germany/Sweden, CA)" and "Marina Romanello (UK, Argentina, Italy)" and Luis E. Escobar (Guatemala/USA, CA)
Chapter 02: Terrestrial and freshwater ecosystems and their services	116	39	116	41	Sentence changed to: "The rearrangement and emergence of some diseases are already observed in temperate-zone and high-elevation areas and coastal areas (medium confidence to high confidence, depending upon region)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	116	42	116	43	(high to very high confidence) changed to (very high confidence)
Chapter 02: Terrestrial and freshwater ecosystems and their services	116	54	116	54	Uncertainty assessment changed to: "(low confidence to high confidence, depending upon region)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	1	117	3	Add Bindoff et al., 2019, reference to references
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	5	117	7	Uncertainty assessment changed to "...(low confidence to very high confidence, depending upon disease and region)" and (Hoegh-Guldberg et al., 2018) reference added
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	14	117	14	sentence altered: "..., and introduction of the pathogen, that is often via..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	16	117	16	Change FAQ2.3.1 to FAQ2.2.1
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	20	117	22	Last sentence modified to: "Thus, risk reduction is more effective when links between climate change, ecosystem change, health and adaptation are considered concurrently (AR6 WGII 2.4, 3.5.3, 7.2, 7.3, 4.3.3, 6.2.2.3, Table 2.S.1). "
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	34	117	34	Add ", and changes in disease incidence for " after "cholera"
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	35	117	35	Sentence deleted and new rewritten sentence added: "Uncertainty statements for malaria and dengue reflect the degree to which observed trends in disease incidence can be related to observed climate change in the given region. For cholera, confidence statements reflect the degree to which observed trends in disease or pathogen incidence and coastal area suitability for outbreaks can be linked to observed climate change drivers in the given region."
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	36	117	-	Replace "reflect confidence" by "confidence reflect"
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	117	-	Africa: 1st row/2nd column: Replace "(low confidence)" by "(low confidence)" ('confidence' also in italics)
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	119	-	Table Cross-Chapter Box ILLNESS.1: "Change and Confidence" row headings replaced with "Direction of Change"
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	-	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to low for Direction of Change section of Cholera (2nd column) for north and west Africa row, Central Africa row, and South Africa row
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	117	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to medium for Climate drivers of Cholera (2nd column) for Southeast Africa row and West Africa row
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	117	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to medium for Climate drivers of Malaria (4th column) for West Africa row and for East Africa row
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	-	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to medium for Direction of Change section of Malaria (4th column) for Anopheles spp. in highland areas of East Africa
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	39	117	-	Table number revised from Table 2.S.6 to Table SM2.6
Chapter 02: Terrestrial and freshwater ecosystems and their services	117	42	117	43	delete "high"
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Europe: 2nd row/2nd column: Write "(medium confidence)" in italics
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	North America: 2nd row/3rd column: Replace "(Low)" by "(low confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to medium for Climate drivers section of Cholera (2nd column) in East Asia and high for South Asia

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Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Table Cross-Chapter Box ILLNESS.1: Climate drivers of dengue in North America section changed to low confidence for Winter Tmin
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to low for Direction of Change Asia section of Cholera (2nd column) in Area of coastline suitable for outbreak increase
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to low for Direction of Change for Asia, Australasia, Central America, South America, and Europe sections of Cholera (2nd column) in Area of coastline suitable for outbreak increase
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Table Cross-Chapter Box ILLNESS.1: Confidence changed to medium for Climate drivers section of Malaria (4th column) in South Asia
Chapter 02: Terrestrial and freshwater ecosystems and their services	118	-	118	-	Table Cross-Chapter Box ILLNESS.1: Text rewritten for Climate drivers of Cholera in North America section: "No evidence for disease incidence Abundance of coastal V. cholerae: eastern North America: SST (low due to limited evidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	17	119	17	Change "climate drivers" to "climate-change drivers"
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	18	119	18	Add "pathogens and" after Vibrio
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	20	119	20	Remove "of climate drivers" after observations
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	24	119	25	First sentence of paragraph changed to: "The poleward expansion of the distribution of Vibrio spp. has increased the risk of vibriosis outbreaks from multiple species in northern latitudes." and the original sentence moved to new paragraph below and modified.
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	37	119	37	Table Cross-Chapter Box ILLNESS.1: Confidence changed to low for Climate drivers and Direction of Change sections of Cholera in Small Islands
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	37	119	37	Table Cross-Chapter Box ILLNESS.1: Text rewritten for Cholera Direction of change in North America section: "Area of coastline suitable for outbreak: increase (low confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	119	38	119	38	Sentence removed from preceding paragraph used for this new paragraph and further elaborated upon: "The coastal area suitable for V. cholerae (the causative agent for cholera) has increased by 9.9% globally compared to a 2000s baseline (Escobar et al., 2015; Watts et al., 2019). However, in the case of V. cholerae and cholera disease incidence, climate change is more difficult to implicate because outbreaks require independent drivers to coincide (i.e., introduction of pathogenic strains of V. cholerae in the waters via mobility of human-infected populations) and observed trends are difficult to separate from concurrent directional trends in disease control, sanitation and water access, socioeconomic and public health conditions."
Chapter 02: Terrestrial and freshwater ecosystems and their services	120	28	120	28	Uncertainty assessment updated to "(robust evidence, high agreement)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	123	2			After "least" re-write "the 8 year span of the study" to clarify what 8 year means
Chapter 02: Terrestrial and freshwater ecosystems and their services	127	47	127	48	Remove erroneous ", The 2016 Tasmanian" from reference list
Chapter 02: Terrestrial and freshwater ecosystems and their services	130	26	130	26	Delete "are"
Chapter 02: Terrestrial and freshwater ecosystems and their services	131	20	131	20	Add "(see also sections 2.4.4.4.1 and 2.4.4.4.3) "
Chapter 02: Terrestrial and freshwater ecosystems and their services	134	1	134	1	Begin new paragraph with "Natural Forests..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	134	4	134	4	Insert "of natural forests" after "Contributions"
Chapter 02: Terrestrial and freshwater ecosystems and their services	134	30	134	30	Insert "high" before "confidence"
Chapter 02: Terrestrial and freshwater ecosystems and their services	134	30	134	30	Insert "medium" before "confidence)"
Chapter 02: Terrestrial and freshwater ecosystems and their services	134	30	134	30	insert "mono-culture" before 'plantations'
Chapter 02: Terrestrial and freshwater ecosystems and their services	134	33	134	33	Insert "or mixed-species planted" before 'forests'
Chapter 02: Terrestrial and freshwater ecosystems and their services	135	2	135	2	Insert "local" after "high"
Chapter 02: Terrestrial and freshwater ecosystems and their services	135	45	135	46	Modified and elaborated the first sentence to the following: "AF is a holistic approach that incorporates ecological and socioeconomic principles, many of which have been shown to have a positive impact on biodiversity and on the resilience of human and natural systems to climate change (WGII chapter 5)."
Chapter 02: Terrestrial and freshwater ecosystems and their services	135	48	135	48	Closed parentheses added after "local markets"
Chapter 02: Terrestrial and freshwater ecosystems and their services	136	21	136	22	", thus aiding the ability of wild species to respond to climate change via range shifts," added after "...connectivity for biodiversity..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	136	53	136	53	Latter portion of sentence following "...ecosystems and..." modified to "economies in the context of climate change adaptatio "
Chapter 02: Terrestrial and freshwater ecosystems and their services	137	19	137	20	Figure CCB Natural.1: Title added and colors/scale/font/icons refined to match IPCC styles; network design changed flow diagram to better represent connection of humans and nature in a more scientifically accurate manner meant to emphasize itneractions. No information content changed.
Chapter 02: Terrestrial and freshwater ecosystems and their services	139		139		"Temperate grasslands and rangelands" row, 5th column first sentence edited to "Monocultures (especially of introduced species)..."
Chapter 02: Terrestrial and freshwater ecosystems and their services	142	1	142	2	Figure FAQ2.5.1: Title added and spelling error in figure corrected: "prennial" corrected to "perennial"

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Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 02: Terrestrial and freshwater ecosystems and their services	146	38	146	39	Add comma after "impacts" , remove "and" ; add ", and are less resilient to climate change" to end of sentence
Chapter 02: Terrestrial and freshwater ecosystems and their services	147	16	147	16	Add "to climate change and other environmental changes" after "resilience"
Chapter 02: Terrestrial and freshwater ecosystems and their services	147	52	147	52	Edit last sentence to read: "It is also more efficient and effective to conserve existing forests before worrying about reforesting."
Chapter 02: Terrestrial and freshwater ecosystems and their services	148	19	148	20	Sentences modified to the following with aditional sentence added for clarity: "Detection and attribution efforts have increased since AR5, but there are some key impacts of high societal importance that would benefit from more detailed and sophisticated attribution studies. For example, while it is clear that diseases have altered considerably in both wild animals and humans in some areas (high confidence in detection), there are many regions that are under-studied, and few regions that provide robust assessments of the role of climate change, particularly with respect to human infectious diseases. While wildfire has been robustly linked to climate change in some regions, there are still a lack of attribution studies in some regions that have experienced large burns recently, and only one fire impact—the increase of the area burned by wildfire in western North America in the period 1984–2017 (Section 2.4.4.2.1) —has been formally attributed to anthropogenic climate change. "
Chapter 02: Terrestrial and freshwater ecosystems and their services	149	8	149	9	Middle portion of first sentence modified to: "…climate change vs. other, non-climate factors that cause ecological change, including LULCC (particularly deforestation, agricultural expansion, and urbanisation) and…"
Chapter 02: Terrestrial and freshwater ecosystems and their services	149	10	149	14	Sentence modified and combined to: "Modelling of risks at the species level requires comprehensive databases of the physiological, life-history, and reproduction of individual specise, and modeling the impact of changes in species' compositions requires a mechanistic understanding of functional traits relevant to ecosystem integrity, functioning and resilience to climate change."
Chapter 02: Terrestrial and freshwater ecosystems and their services	211	8	211	8	Append ". In: Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty [Masson-Delmotte, V., P. Zhai, H. O. Pörtner, D. Roberts, J. Skea, P. R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J. B. R. Matthews, Y. Chen, X. Zhou, M. I. Gomis, E. Lonnoy, T. Maycock, M. Tignor and T. Waterfield (eds.)], ISBN 978-92-9169-151-7. Cambridge University Press, in press: 93-174." at end of line
Chapter 02 Supplementary Material	104		104		Delete 'TAR'
Chapter 02 Supplementary Material	114	7	121	1	To make it more easy for readers to match Table SM2.5 with Figure 2.11, place the five key risk sections in the same order as the burning embers appear in the revised Figure 2.11: biodiversity loss - ecosystem structure change - tree mortality - wildfire increase - carbon loss.
Chapter 02 Supplementary Material	120	3	120	3	In the Ecosystem structure change box, change the temperatures to: Undetectable to Moderate: 0, 0.5, 1; Moderate to high: 0.6, 1.5, 2
Chapter 02 Supplementary Material	121	1	120	1	In the Ecosystem structure change box, change the temperatures to: High to very high: 1.8, 2.5, 4
Chapter 03: Ocean and coastal ecosystems and their services	0	0	0	0	Throughout the Chapter, rename FAQ3.2 to FAQ3.3; rename Figure FAQ3.2 to Figure FAQ3.3; this accounts for re-ordering of FAQs.
Chapter 03: Ocean and coastal ecosystems and their services	0	0	0	0	Throughout the Chapter, rename FAQ3.3 to FAQ3.2; rename Figure FAQ3.3 to Figure FAQ3.2; this accounts for re-ordering of FAQs.
Chapter 03: Ocean and coastal ecosystems and their services	1	4	1	4	Change to "Sarah R. Cooley". There are other Sarah Cooleys in geoscience!
Chapter 03: Ocean and coastal ecosystems and their services	1	20	1	20	Change to "Anthony J. Richardson".
Chapter 03: Ocean and coastal ecosystems and their services	4	12	4	12	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	4	27	4	27	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	4	30	4	30	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	4	38	4	39	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	9	18	9	18	Change "'CIDs'" to "climate-induced drivers". Rationale: the term is meant to be inclusive of Working Group I's physical "climatic impact-drivers" (or CIDs) and the biogeochemical outcomes of these changes that are themselves drivers of social-ecological changes. It became clear during copyediting that the term we used at chapter submission, "climate impact-drivers" was not sufficiently clear and different from WGI's "CIDs". Corrigenda concerning these terms are intended to make clear the differing classes of ocean-related climate-associated drivers considered in the WGI framing and in the WGII framing.
Chapter 03: Ocean and coastal ecosystems and their services	9	footnote	9	footnote	Change "'climate-impact drivers' (CIDs)" to "climate-induced drivers" and do not add an acronym. See rationale row 8 in this spreadsheet
Chapter 03: Ocean and coastal ecosystems and their services	10	17	10	17	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	10	18	10	18	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	10	22	10	22	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	10	40	10	40	Change "Cross-Working Group Box ATTRIB in Chapter 3" to "Cross-Working Group Box ATTRIB in Chapter 1"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 03: Ocean and coastal ecosystems and their services	12	23	12	23	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	13	1	13	1	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". We have now cited supplementary material from Chapter 5 of SROCC, necessitating the use of "a" and "b" after the year.
Chapter 03: Ocean and coastal ecosystems and their services	13	15	13	15	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	13	15	13	15	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	13	20	13	20	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	13	22	13	22	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	13	30	13	30	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	13	33	13	33	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	13	fig	13	fig	Fig. FAQ 3.1: 1) Replace "Evidence" heading with "Evidence of impacts". 2) Re-instate/insert "model" column as per instructions added in FMS. 3) Change legend label "partly" to "medium"
Chapter 03: Ocean and coastal ecosystems and their services	21	32	21	32	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	21	38	21	38	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	23	1	23	1	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	24	14	24	14	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	25	4	25	4	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	27	22	27	22	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	28	30	28	30	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	28	34	28	34	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	28	39	28	39	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	29	19	29	19	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	32	9	32	9	Change "climate-impact drivers" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	32	30	32	30	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	32	35	32	35	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	33	16	33	17	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	33	30	33	31	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	35	2	35	2	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	35	31	35	31	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	35	39	35	39	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	36	49	36	49	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	38	12	38	12	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	39	14	39	14	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	39	19	39	19	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	39	21	39	21	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	40	1	40	1	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	41	4	41	4	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	41	4	41	4	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	42	9	42	9	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	42	table	42	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 03: Ocean and coastal ecosystems and their services	43	33	43	33	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	44	45	44	45	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	45	11	45	11	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	46	table	46	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	48	table	48	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	49	40	49	40	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	50	table	50	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	52	14	52	14	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	52	table	52	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	53	4	53	4	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	53	19	53	19	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	54	38	54	38	There are three errors/ommissions on this table. 1. Please replace "2090–2100" (top, right-hand side of the table) with "2080–2100" 2. After the text "SSP1-1.9" and "SSP5-5.8", please insert "median estimate (and likely range)" 3. The asterisks (*) and hash symbols (#) in the fourth and fifth columns should be superscripted to indicate a footnote. They should also be superscripted in the footnote to the table.
Chapter 03: Ocean and coastal ecosystems and their services	55	14	55	14	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	55	table	55	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	58	7	58	7	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	58	8	58	8	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	58	table	58	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	59	33	59	33	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	60	10	60	10	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	60	table	60	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	62	11	62	11	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	62	31	62	34	Replace the sentence currently reading: "Fisheries yields have decreased in the Yellow Sea, East China Sea and South China Sea due primarily to overexploitation (Ma et al., 2019; Wang et al., 2019c), with warming exerting more influence on the yield of cold-water species than on temperate- and warm-water groups (Ma et al., 2019)." With the following adjusted text: "Fisheries yields have decreased in the Yellow Sea, East China Sea and South China Sea partially due to overexploitation (Ma et al., 2019; Wang et al., 2019c), with warming exerting more influence on the yield of cold-water species than on temperate- and warm-water groups (Ma et al., 2019)." This is due to a dispute lodged by the Government of China. The literature does support our initial formulation, but this is evident only in the Results section. Since the authors of those papers didn't highlight this result unambiguously, though, we would rather soften the language slightly.
Chapter 03: Ocean and coastal ecosystems and their services	62	49	62	49	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	63	table	63	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	66	table	66	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	68	49	68	49	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	68	50	68	50	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	69	table	69	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	72	50	72	50	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	73	table	73	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 03: Ocean and coastal ecosystems and their services	78	8	78	8	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	80	table	80	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	83	6	83	6	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	87	13	87	13	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	87	17	87	17	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	87	20	87	20	Change caption to "Conclusions from previous IPCC assessments about projected time of emergence on coastal, ocean and deep-sea systems."
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(Executive Summary in SROCC Chapter 5, Box 5.1 in SROCC; Bindoff et al., 2019a)" after "… difference between scenarios" – located in column "Projections" and row "Open ocean (Section 3.4.3)".
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(Executive Summary in SROCC Chapter 5, Box 5.1 in SROCC; Bindoff et al., 2019a)" after "… may emerge earlier than for oxygen levels" – located in column "Projections" and row "Open ocean (Section 3.4.3)".
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(Figure 1 in Box 5.1 in SROCC, Box 5.1 in SROCC, Executive Summary in SROCC Chapter 5; Bindoff et al., 2019a)" after "... ocean area under RCP8.5 and over 30% under RCP2.6 (very likely)" – located in column "Projections" and row "Open ocean (Section 3.4.3)".
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(Section 5.2.3.1.1 in SROCC; Bindoff et al., 2019a)" after "… series for robust attribution" – located in column "Projections" and row "Epipelagic (Section 3.4.3)".
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(Section 5.2.5 in SROCC; Bindoff et al., 2019a)" after "… ecosystems (vents and seeps)" – located in column "Projections" and row "Deep sea (Box 3.3)".
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(Section 5.3.7 in SROCC; Bindoff et al., 2019a)" after "… at local scale (e.g., deoxygenation)" – located in column "Projections" and row "Coastal (Section 3.4.2)"
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Insert reference "(SM5.2 in SROCC; Bindoff et al., 2019b)" after "… to high risk below 3˚C" – located in column "Projections" and row "Deep Sea (Box 3.3)".
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Replace the column heading "System" with "Oceanic systems and chapter subsection"
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Replace the row heading "Coastal" with "Coastal (Section 3.4.2)"
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Replace the row heading "Deep sea" with "Deep sea (Box 3.3)"
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Replace the row heading "Epipelagic" with "Epipelagic (Section 3.4.3)"
Chapter 03: Ocean and coastal ecosystems and their services	88	table	88	table	Replace the row heading "Open ocean" with "Open ocean (Section 3.4.3)"
Chapter 03: Ocean and coastal ecosystems and their services	90	5	90	5	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	91	table	91	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	92	9	92	9	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	94	3	94	3	Figure 3.21 caption is missing the description of unhatched areas. Please include description as follows: "….a total of nine and 10 CMIP6 Earth System Models (ESMs). For panels (b,c,e,f), unhatched areas represent regions where at least 80% of models agree on the sign of biomass anomaly. For panels (g,h,i)…"
Chapter 03: Ocean and coastal ecosystems and their services	94	table	94	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	95	13	95	13	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	95	15	95	15	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	95	25	95	25	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	96	17	96	17	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	96	20	96	20	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	96	24	96	24	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	96	39	96	39	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	97	6	97	6	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	98	11	98	11	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	98	24	98	24	Change "CIDs" to "climate-induced drivers" in both places. See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	103	table	103	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 03: Ocean and coastal ecosystems and their services	104	table	104	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	105	57	105	57	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	106	26	106	26	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	106	31	106	31	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	107	54	107	54	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	108	49	108	49	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	108	51	108	51	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	109	11	109	11	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	109	32	109	32	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	109	42	109	42	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	109	53	109	53	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	111	13	111	13	Change "CIDs" to "climate-induced drivers". See rationale re: Ch. 3 p.9 L18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	113	28	113	29	Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	116	2	116	2	Change "climate-impact drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	116	3	116	3	Change "climate-impact drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	116	5	116	5	Change "climate-impact drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	116	22	116	22	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	117	table	117	table	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	120	table	120	table	In 3rd column, in the row for "Finance and market mechanisms": Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	121	8	121	8	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	122	table	122	table	In 3rd column, in the row for "Monitoring systems": Change "climate impact-drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	125	26	125	26	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	125	41	125	41	Change to "Sarah R. Cooley". There are other Sarah Cooleys in geoscience!
Chapter 03: Ocean and coastal ecosystems and their services	129	19	129	19	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	130	51	130	51	Change text to "(Tittensor et al., 2019; Zhao et al., 2020a; Pörtner et al., 2021b; Sala et al., 2021)" because Cabral et al. 2020 has been retracted by the journal.
Chapter 03: Ocean and coastal ecosystems and their services	131	57	131	57	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	133	50	133	50	Change "climate-impact drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	133	55	133	55	Change "climate-impact drivers" to "climate-induced drivers". See rationale re: Ch. 3 p. 9 L. 18 correction.
Chapter 03: Ocean and coastal ecosystems and their services	134	25	134	25	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	136	30	136	30	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	136	fig	136	fig	Correct datasets in Figure 3.25 panel A: No Take Area should not have zero values as it is a cumulative number. High Seas MPA contains no data for 2019-2020 instead of zero values. Correct values have been submitted to TSU Graphics through FMS for correction.
Chapter 03: Ocean and coastal ecosystems and their services	138	52	138	53	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	140	6	140	6	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	143	5	143	5	Replace "Bindoff et al., 2019" with "Bindoff et al., 2019a". See rationale for corrigenda Page 13 Line 1.
Chapter 03: Ocean and coastal ecosystems and their services	143	fig	143	fig	Fig. 3.25: 1) Fix erroneous data in panel a, 2nd plot, for No-take area and High-Seas MPA as per instructions uploaded to FMS. In brief: Empty data points were accidentally plotted as zeroes. 2) Amend x-axes in panels b and c to match the SPM Table before B1.2 as per instructions uploaded to FMS. In brief: the SSP 1-2.6 axis should have 2030 located around 1.5C, 2050 around 1.7C, and 2090 around 1.8C. the SSP 5-8.5 axis should have 2030 located around 1.6C, 2050 around 2.4C. (If that axis were long enough 2090 would be located at 4.4C.)

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 03: Ocean and coastal ecosystems and their services	144	30	145	28	Move FAQ3.2 from this poistion and insert between 3.4.3.3.3 Abrupt ecosystem shifts and extreme events (after Fig. 3.20) and before 3.4.3.4 Biomass; this places the FAQ close to where tipping points are discussed
Chapter 03: Ocean and coastal ecosystems and their services	145	31	147	26	Move FAQ3.3 from this poistion and insert between 3.4.2.1 Warm-Water Coral Reefs (after Figure 3.13:) and before 3.4.2.2 Rocky Shores; this places the FAQ close to where MHWs are first discussed for an ecosystem.
Chapter 03: Ocean and coastal ecosystems and their services	147	29	150	2	Move FAQ3.4 from this poistion and insert between 3.5.6 Cultural Services (after Fig. 3.22) and before 3.6 Planned Adaptation and Governance to Achieve the Sustainable Development Goals; this moves the FAQ to a position where it summarises some impacts of changing ecosystem services.
Chapter 03: Ocean and coastal ecosystems and their services	149	20	149	21	Change caption to "Illustration of vulnerable ocean and coastal groups, the climate-induced hazards they experience, and anticipated outcomes for human systems."
Chapter 03: Ocean and coastal ecosystems and their services	150	5	151	8	Move FAQ3.5 from this poistion and insert between 3.6.3.2.2 Ecological restoration, interventions and their limitations (after Fig. 3.25) and before 3.6.3.3 Enablers, Barriers and Limitations of Adaptation and Mitigation; this moves the FAQ to a position where it summarises key points regarding NbS.
Chapter 03: Ocean and coastal ecosystems and their services	151	36	151	37	Delete entire reference for Cabral et al. 2020; the paper has been retracted by the journal.
Chapter 03: Ocean and coastal ecosystems and their services	158	2	158	2	Replace "2019" with "2019a" in the reference citing Chapter 5 of SROCC – Bindoff et al., 2019.
Chapter 03: Ocean and coastal ecosystems and their services	158	7	158	7	Insert reference "(Bindoff, N.L., W.W.L. Cheung, J.G. Kairo, J. Arístegui, V.A. Guinder, R. Hallberg, N. Hilmi, N. Jiao, M.S. Karim, L. Levin, S. O'Donoghue, S.R. Purca Cuicapusa, B. Rinkevich, T. Suga, A. Tagliabue, and P. Williamson, 2019b: Changing Ocean, Marine Ecosystems, and Dependent Communities Supplementary Material. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. In press."
Chapter 03 Supplementary Material	1	5	1	5	Change to "David S Schoeman".
Chapter 04: Water	1	7	1	7	change country affiliation for Elena López Gunn (Spain/UK), i.e. add UK
Chapter 04: Water	1	19	1	19	Removed China as country of affiliation for CA Masoud Irannezhad
Chapter 04: Water	1	32	1	32	Removed China as country of affiliation for CA Debra Tan
Chapter 04: Water	4	7	4	8	Revised sentence "Currently, roughly half of worlds ~8 billion people are estimated to experience severe water scarcity for at least some part of the year"
Chapter 04: Water	4	8	4	8	Replace "7.8 billion" with "~ 8 billion"
Chapter 04: Water	5	26	5	26	Replace "medium confidence" to "low confidence"
Chapter 04: Water	5	29	5	29	Replace "medium confidence" to "low confidence"
Chapter 04: Water	6	50	6	51	"Water adaptation measures tend to have positive economic outcomes in developing countries and positive environmental outcomes in developed countries (high confidence). "
Chapter 04: Water	8	19	8	20	"First, approximately half the world's population (~4 billion out of ~8 billion people) are assessed as being currently subject to severe water scarcity for at least some part of the year (medium confidence)"
Chapter 04: Water	8	20	8	20	Replace "7.8 billion" with "~ 8 billion"
Chapter 04: Water	8	26	8	32	Added references for WGI chapt 11 and 8
Chapter 04: Water	11		11		Figure Box 4.1.1 being revised.
Chapter 04: Water	12	19			editorial change
Chapter 04: Water	13	21			editorial change
Chapter 04: Water	13	29			editorial change
Chapter 04: Water	13	31	13	31	Replace "In summary, approximately 4 billion peple" to "In summary, roughly half of the world's population"
Chapter 04: Water	13		13		Figure Box 4.1.2 being revised
Chapter 04: Water	14	29		30	Removed the word "vegetation"
Chapter 04: Water	14	32	14	33	"In summary, roughly half of the world's population are assessed as currently subject to severe water scarcity for at least some part of the year due to climatic and non-climatic factors, "
Chapter 04: Water	14	47			editorial change
Chapter 04: Water	18	5			Edit: "Decreases across much of North America (Figure 4.3g)
Chapter 04: Water	19	3	19	18	Replace caption with: "Figure 4.3: Observed mean and extreme precipitation changes and people experiencing the emergence of historically unfamiliar precipitation and changes in extreme precipitation. (a) Percentage changes in annual mean precipitation over land (1891–2019) per °C global warming in the Global Precipitation Climatology Centre (GPCC) v2020 data set (Schneider et al., 2017; Schneider et al., 2020). Green shows increasing precipitation; orange shows decreasing precipitation. (b) Levels of unfamiliarity of wetter and drier climates, classified in terms of the ratio of the signal S of change to the noise N of variability, where the latter is defined as one standard deviation in annual data with the trend removed, that is, occurs approximately one in 6 years. Grey regions are either unobserved (oceans) or deserts (<250 mm year–1). Stippling indicates where the signal of change is not significant. See Hawkins et al. (2020) for further details. (c) Population densities in regions with annual precipitation classified as "emerging". (d) Precipitation trends from the GPCC data set in December, January and February (mm day–1 per decade). (e) As (d) for June-July-August. (f) Changes in annual maximum 1-day precipitation (Rx1day) in the HadEX3 data set (Dunn et al., 2020). (g) Trend in annual mean consecutive dry days (CDD), 1950–2018, in HadEX3. (h) Population densities per grid box where the trend in R×1day is significantly different from zero. (i) Population densities per grid box where the trend in CDD is significantly different from zero. Stipples in (h) and (i) show where HadEX3 data is available. Population data in (c), (h) and (i) are for 2020 from (CIESIN, 2018a; CIESIN, 2018b)."
Chapter 04: Water	21		21		Figure Box 4.4 being revised

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Chapter 04: Water	22	39			editorial change
Chapter 04: Water	23	9		12	Join two sentences to avoid repetition.
Chapter 04: Water	23	12		13	editorial change
Chapter 04: Water	24	35		36	modified sentence
Chapter 04: Water	25	3		4	editorial change
Chapter 04: Water	25	33			editorial change
Chapter 04: Water	25	40			editorial change
Chapter 04: Water	25	50	25	52	Changed 'in typical basins in China' to 'in some typical catchments with an area near to or less than 15000 km2 in China'
Chapter 04: Water	27	53	27	54	replaced "Global annual mean exposed population" to "Global annual mean expeced damage".
Chapter 04: Water	29	5			replaced "loss and damage" with "losses and damages"
Chapter 04: Water	29	12	29	13	Inserted further clarification of rationale for including studies in the table
Chapter 04: Water	29	15			Table 4.3 row 1, removed preliminary quantification of economic costs as considered unreliable, replace with extended desciption of nature of impacts
Chapter 04: Water	31	21			Changed time shift to 1-10 days
Chapter 04: Water	33	29	33	30	Inserted further clarification of rationale for including studies in the table
Chapter 04: Water	38	48			editorial change
Chapter 04: Water	38	49		50	editorial change
Chapter 04: Water	39	18			editorial change
Chapter 04: Water	40	31			editorial change
Chapter 04: Water	44	4	44	7	Corrected as advised. Deleted the sentence "The majority of these plants are in China (52%), followed by India (15%). and the USA (11%)'" and added "a scenario based" in front of simulation study.
Chapter 04: Water	46	34			change "loss and damage" to "Loss and Damage"
Chapter 04: Water	48	Table CCB DISASTER 4.1			change "loss and damage" to "losses and damages"
Chapter 04: Water	54	21			change "loss and damage" to "losses and damages"
Chapter 04: Water	55	35	55	25	Changed to 'Tibet Autonomous Region, People's Republic of China'
Chapter 04: Water	67	22			editorial change
Chapter 04: Water	67	25			editorial change
Chapter 04: Water	69	49			editorial change
Chapter 04: Water	69	54			Added references for WGI chapt 9
Chapter 04: Water	71	19			change "loss and damages" to "losses and damages"
Chapter 04: Water	77	20			editorial change
Chapter 04: Water	84	5		6	Replaced "As a result" with "For example" and deleted , "for example" later in sentence to clarify citation placement
Chapter 04: Water	96	4			Added "wellbeing"
Chapter 04: Water	97	13			add "(high confidence)" after "facing water limitations under current climatic conditions"
Chapter 04: Water	99	42			Added "(high confidence)"
Chapter 04: Water	99	44			Added "(medium confidence)"
Chapter 04: Water	99	53			Added "(high confidence)"
Chapter 04: Water	100	37			Added "(high confidence)"
Chapter 04: Water	100	41			Added "high confidence"
Chapter 04: Water	100	48			Added "(high confidence)"
Chapter 04: Water	101				editorial change for clarity
Chapter 04: Water	102	102			changed verb tense from "are" to "were" and move "in 2017" so revised sentence reads: There were 16,000 operational desalination plants globally in 2017, with a daily desalinated water production of 95 million m3 per day (IDA, 2020)
Chapter 04: Water	103	24			Added reference "Pelling et al 2021"
Chapter 04: Water	103	24	103	24	New reference of Pelling et al,. 2021 added
Chapter 04: Water	103	103			Changed sentence "In summary, a resilient circular economy is central to deliver access to water and sanitation, with wastewater treatment, desalination, and water re-use as viable adaptation options compatible with the Paris agreement, while safeguarding ecological flows
Chapter 04: Water	103	103			changed verbe tense from "has" to "could" so the revised sentence reads "global average levelised cost of water could decrease from 2.4 €/m3 (2015) to approximately 1.05€/m3 by 2050"
Chapter 04: Water	104	104			Added "while contributing to biodiversity" to the first sentence so it reads "In the context of climate change-induced water insecurity, NbS are an adaptation response that relies on natural processes to enhance water availability, water quality and mitigates risks associated with water-related disasters while contributing to biodiversity (IUCN, 2020)
Chapter 04: Water	104	104			Changed "NBS" to "NbS" in the sentence "In summary, there is growing evidence on NbS effectiveness as an adaptation measure and its critical role for transformative adaptation to address climate change water-related hazards and water security (medium evidence, high agreement).
Chapter 04: Water	104	104			Changed "NBS" to "NbS" in the sentence and delete "- as,.." so the revised sentence reads: "Moreover, several NbS e.g. natural infrastructure (blue and green) and grey infrastructure can help address water-related hazards"
Chapter 04: Water	104	104			changed "water based NBS" to "water-based NbS"
Chapter 04: Water	104	104			removed "}" before (Kapos et al., 2020)
Chapter 04: Water	104	104			removed extra ")" at the end of (Chausson et al, 2020) in the sentence "NbS are cost-effective and can complement or replace grey solutions (Chapter 17 CCB FEASIB.3.2.3), (Chausson et al., 2020).
Chapter 04: Water	107				editorial change for clarity

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Chapter 04: Water	113	1	113	1	Changed to 'Taiwan, province of China'
Chapter 04: Water	122				Punctuaction added to table ref Dey et al 2019
Chapter 04: Water	126	56			Added "(medium confidence)"
Chapter 04: Water	127	21		22	Added "(medium confidence)"
Chapter 04: Water	127	29		30	Added "(medium confidence)"
Chapter 04: Water	127	36			Replaced "Limits to Adaptation and Loss and Damage" with "Limits to Adaptation and Losses and Damages" in line with glossary; requires updating table of contents accordingly
Chapter 04: Water	127	46			Added "(low confidence)"
Chapter 04: Water	130	34	130	35	Replaced "loss and damage occurs" with "losses and damages occur"
Chapter 04: Water	130				Within Figure 4.31 "Loss and Damage" to be replaced with "Losses and Damages"
Chapter 04: Water	135	135			Deleted extra "(" before "(Delany-Crowe et al., 2019)..."
Chapter 04: Water	138				editorial change for clarity
Chapter 04: Water	231	231			deleted extra "(" and "}" in sentence "by-products (UN Water, 2017), ..."
Chapter 04: Water	Section 4.4.5	20			replaced “and hydrological and drought” by “and hydrological drought”
Chapter 04: Water					In Table Cross-Chapter Box DISASTER.1: Deleted sentence "cost of the event was at €4.5–5.5 billion in Germany and over €0.35 billion in Belgium."
Chapter 04 Supplementary Material	1	14			editorial change
Chapter 04 Supplementary Material	1	16			editorial change
Chapter 04 Supplementary Material	1	37			editorial change
Chapter 04 Supplementary Material	2	6			editorial change
Chapter 04 Supplementary Material	2	50		51	editorial change
Chapter 04 Supplementary Material	3	1		2	editorial change
Chapter 04 Supplementary Material	3	9		10	editorial change
Chapter 04 Supplementary Material	3	12	3	12	Replaced capital D with lower case d in "decreasing"
Chapter 04 Supplementary Material	4	31			Addition of IPCC, 2021 reference - i.e. IPCC, 2021: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press. In Press.
Chapter 04 Supplementary Material	7	39	7	39	Correct capilisation of HadCRUT4
Chapter 04 Supplementary Material	8	52			Corrected Mukherji et al 2021
Chapter 04 Supplementary Material	9	2	9	2	Insert "Global" in top two rows of column 2
Chapter 04 Supplementary Material	10	30			Correction of fig number
Chapter 04 Supplementary Material	11	1	11	1	Corrected "contry" to "country" in heading of column 2 of Table SM4.1
Chapter 04 Supplementary Material	11				In row 1 column 7, corrected "Observation stations" to "Satellite and surface gauges"
Chapter 04 Supplementary Material	11				In row 2 column 4, corrected "Mean precipitation" to "Heavy precipitation" and in column 5 changed "Increase" to bold type
Chapter 04 Supplementary Material	11				In row 3, changed "Increase" to "increased"
Chapter 04 Supplementary Material	12				Deleted row 1 as it this paper has already been listed above
Chapter 04 Supplementary Material	12				In row 4, replaced K with °C in accordance with IPCC style guide
Chapter 04 Supplementary Material	13				Deleted row 3 as it's not in scope here, it's detection and attribution rather than primary reporting of observed changes
Chapter 04 Supplementary Material	13				Deleted row 4 as this refers to an old version of the GPCC dataset which has now been superceded.
Chapter 04 Supplementary Material	13				In row 1, deleted "via the C- relation" as this makes no sense
Chapter 04 Supplementary Material	13				In row 1, replaced capital I with lower case i and changed "increase" to "increasing"
Chapter 04 Supplementary Material	13				In row 1, replaced comma with dash in "greenhouse gas, induced changes"
Chapter 04 Supplementary Material	13				In row 5, insert "annual maximum 1-day precipitation" and "annual maximum 5-day precipitation" before "Rx1day" and "Rx5day" respectively.
Chapter 04 Supplementary Material	13				In row 5, replaced K with °C in accordance with IPCC style guide
Chapter 04 Supplementary Material	14				Deleted row 1 as paper refers to an old dataset and has been superceded by WG1 assessment
Chapter 04 Supplementary Material	14				Deleted row 2 as this is not relevant here, it does not show observed ET trends
Chapter 04 Supplementary Material	14				Deleted row 3 as this refers to AR5 WG1 chapter which is now superceded by AR6 WG1.
Chapter 04 Supplementary Material	15				In Row 2, removed WNA and replaced AMZ, NEU, CEU with Amazon, North Europe and Central Europe. Also removed SSA and replaced ENA, NER, MED, SAS with East North America, North-East Brazil, South Europe/Mediterranean, South Asia.
Chapter 04 Supplementary Material	23				In Table SM4.1changed 'country(ies)' should be changed to 'country/region'
Chapter 04 Supplementary Material	54				In Table SM4.2changed 'country(ies)' should be changed to 'country/region'
Chapter 04 Supplementary Material	73				In Table SM4.3changed 'country(ies)' should be changed to 'country/region'
Chapter 04 Supplementary Material	107				"billion USD" measure missing was added
Chapter 04 Supplementary Material	116				“Äì.” misspelling removed
Chapter 04 Supplementary Material	147				Statistically significant ($p < 0.001$) anomalies in average frequency of Wet Millimeter Days per summer season were found over Atlanta’s urban core (3.4 per summer), northeast (3.4 per summer) and east (3.2 per summer)
Chapter 04 Supplementary Material	151				In Table SM4.5 changed 'country(ies)' should be changed to 'country/region'
Chapter 04 Supplementary Material	151				Ch04 SM p151 Table SM4.5 change ‘Taiwan’ to ‘Taiwan, China’
Chapter 04 Supplementary Material	156				Ch04 SM p156 Table SM4.5 change ‘Taiwan’ to ‘Taiwan, China’
Chapter 04 Supplementary Material	232	1	232	1	Change lower case "c" in "central" to upper case
Chapter 04 Supplementary Material	318	40		41	Corrected reference
Chapter 04 Supplementary Material	320	37		38	Corrected reference
Chapter 04 Supplementary Material	321	27		28	Corrected reference
Chapter 04 Supplementary Material	321	38			Corrected reference

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Chapter 04 Supplementary Material	322	20		21	Corrected reference
Chapter 04 Supplementary Material	324	21		22	Corrected reference
Chapter 04 Supplementary Material	324	34		35	Corrected reference
Chapter 04 Supplementary Material	324	44			Corrected reference
Chapter 04 Supplementary Material	325	19		20	Corrected reference
Chapter 04 Supplementary Material	325	22			Corrected reference
Chapter 04 Supplementary Material	325	41			Corrected reference
Chapter 04 Supplementary Material	325	57			Corrected reference
Chapter 04 Supplementary Material	328	4			Corrected reference
Chapter 04 Supplementary Material	330	43			Corrected reference
Chapter 04 Supplementary Material	331	38		39	Corrected reference
Chapter 04 Supplementary Material	334	1		2	Corrected reference
Chapter 04 Supplementary Material	335	17			Corrected reference
Chapter 04 Supplementary Material	335	55		57	Corrected reference
Chapter 04 Supplementary Material	336	24			Corrected reference
Chapter 04 Supplementary Material	336	32			Corrected reference
Chapter 04 Supplementary Material	337	50			Corrected reference
Chapter 04 Supplementary Material	338	2			Corrected reference
Chapter 04 Supplementary Material	339	24			Corrected reference
Chapter 04 Supplementary Material	339	53			Corrected reference
Chapter 04 Supplementary Material	341	12			Corrected reference
Chapter 04 Supplementary Material	341	18			Corrected reference
Chapter 04 Supplementary Material	343	25		28	Corrected reference
Chapter 04 Supplementary Material	343	36		28	Corrected reference
Chapter 04 Supplementary Material	344	32			Corrected reference
Chapter 04 Supplementary Material	344	33		34	Corrected reference
Chapter 04 Supplementary Material	346	41		42	Corrected reference
Chapter 04 Supplementary Material	347	23			Corrected reference
Chapter 04 Supplementary Material	347	55			Corrected reference
Chapter 04 Supplementary Material	348	15			Corrected reference
Chapter 04 Supplementary Material	348	40		41	Corrected reference
Chapter 04 Supplementary Material	349	22		23	Corrected reference
Chapter 04 Supplementary Material	349	50			Corrected reference
Chapter 04 Supplementary Material	350	4			Corrected reference
Chapter 04 Supplementary Material	350	22			Corrected reference
Chapter 04 Supplementary Material	351	3			Corrected reference
Chapter 04 Supplementary Material	352	9			Corrected reference
Chapter 04 Supplementary Material	352	27			Corrected reference
Chapter 04 Supplementary Material	352	56			Corrected reference
Chapter 04 Supplementary Material	353	14		15	Corrected reference
Chapter 04 Supplementary Material	353	52			Corrected reference
Chapter 04 Supplementary Material	354	25			Corrected reference
Chapter 04 Supplementary Material	354	39		40	Corrected reference
Chapter 04 Supplementary Material	356	51		52	Corrected reference
Chapter 04 Supplementary Material	357	49		51	Corrected reference
Chapter 04 Supplementary Material	358	15			Corrected reference
Chapter 04 Supplementary Material	359	6			Corrected reference
Chapter 04 Supplementary Material	359	44			Corrected reference
Chapter 04 Supplementary Material	360	2		3	Corrected reference
Chapter 04 Supplementary Material	360	7			Corrected reference
Chapter 04 Supplementary Material	360	9			Corrected reference
Chapter 04 Supplementary Material	360	22			Corrected reference
Chapter 04 Supplementary Material	361	2			Corrected reference
Chapter 04 Supplementary Material	361	55			Corrected reference
Chapter 04 Supplementary Material	References				Modified Bindoff et al. 2013 reference to Christensen et al. 2013
Chapter 05: Food, fibre, and other ecosystem products	1	15	1	15	Insert 'Annette Cowie (Australia)' between Jennifer Clapp (Canada) and Verónica Crespo-Pérez (Ecuador).
Chapter 05: Food, fibre, and other ecosystem products	1	19	1	19	Insert Angelo Maggiore (Italy), between Maria Loboguerrero (Colombia), and Dianne Mayberry (Australia),
Chapter 05: Food, fibre, and other ecosystem products	9	4	9	4	Insert a line break before the stentence starting 'Climate change' and make it a new paragraph.
Chapter 05: Food, fibre, and other ecosystem products	9	4	9	4	Insert the following before the sentence starting with 'Climate change directly…': 'Food security is defined as "a situation that exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food that meets their dietary needs and food preferences for an active and healthy life" (FAO, 2020). Food insecurity is often experienced as chronic hunger reported in the annual UN Food Security and Nutrition in the World (FAO, 2020), when a person is unable to consume enough food over an extended period. Additionally, we paid attention to climate change impacts on acute food insecurity, which can occur at any time with a severity that threatens lives, livelihoods or both, regardless of the causes, context or duration, as a result of shocks risking determinants of food security and nutrition, and used to assess the need for humanitarian action (IPC Global Partners, 2019). '

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Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. arrow linking 'adaptation and mitigation' to 'climate change drivers' added
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. Arrow linking 'Food, fibre and other ecosystem products' to 'climate change drivers' added, with an intermediate text of 'GHG emissions'
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. Figure circles removed and replaced with text 'Food, fibre and other ecosystem products'
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. mitigation (technology governance) and adaptation (species, feeds, energies) changed to 'adaptation and mitigation (genetic improvements, animal feeds, livelihood diversification, climate services, land restoration, policy and planning, collective resource management, bio-based products, dietary choice, gender equity, youth innovation, species diversification, mixed production, technology improvements, early warning systems, alternative energies, best practices, community based, waste and trade, knowledge systems (Indigenous, local), climate resilient development pathways)'
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. Sustainable development goals logo and graphical depiction of a group of people added to figure
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. text 'Climate change' expanded to to 'climate change impacts (suitable production habitat, pests and pollinators, air, soil and water quality, distribution shifts, altered phenology, food nutritional quality, crop and animal yields, plant and animal fertility, grassland quality, tree mortality, heat stress, ecosystem degradation, biodiversity loss)'
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. Text 'Ecosystem Terrestrial production systems (crops, livestock, forestry, fibre, other) and 'Aquatic production systems (fisheries, aquaculture)' replaced with images of terrestrial and aquatic food production and other ecosystem products
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. Text 'Human drivers 'economic, social, political'' removed.
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. text 'Production, Processing, Trade, Waste' removed along with arrows to ecosystem and aquatic food production systems.
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. Text 'Residual key risks: Food security, Nutritional security, Livelihoods / poverty, marginalization, biodiversity loss' changed to 'risks for people: food availability, diet-related mortality, food prices, food safety, food security, vulnerability of marginal groups, malnutrition, livelihoods, land use competition, heat stress for workers, hunger'
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. text 'Terrestrial and aquatic competition (e.g. land and water)' removed along with arrows to Ecosystem and Aquatic production systems
Chapter 05: Food, fibre, and other ecosystem products	10	1	10	2	Figure 5.1. text box 'maladaptation, barriers, trade-offs' added with arrow linking from 'adaptation and mitigation' to 'climate change impacts' and 'Food, fibre and other ecosystem products'
Chapter 05: Food, fibre, and other ecosystem products	16	6	16	6	Replace Figure 5.2 with a simplified version in TS10c. -Add 'More fruequent and intesified heat, droughts, floods, and Food production system'
Chapter 05: Food, fibre, and other ecosystem products	16	6	16	6	Replace Figure 5.2 with a simplified version in TS10c. -Delete Greenhouse gas emission (GHG). -Replace Climate/weather with Climatic hazards, Drought, and Heat. -Delete Air humidity, Precipitation, Evapration Rate, Atmospheric CO2 & weather variability with
Chapter 05: Food, fibre, and other ecosystem products	16	6	16	6	Replace Figure 5.2 with a simplified version in TS10c. -Delete utilization rate, health care, rate of malnutrition, rate of mal-nutrition related mortality.
Chapter 05: Food, fibre, and other ecosystem products	16	6	16	6	Replace Figure 5.2 with a simplified version in TS10c. -Replace Food affordability and House hold access to food with Access to food.
Chapter 05: Food, fibre, and other ecosystem products	16	6	16	6	Replace Figure 5.2 with a simplified version in TS10c. -Replace soil moisture/fertility, Soil quality with Reduced soil moisture & health.
Chapter 05: Food, fibre, and other ecosystem products	16	6	16	6	Replace Figure 5.2 with a simplified version in TS10c. -Change legend from 'Complex pathwasy from climate/extreme weather variability to undernutrition in subsistence farming household' to 'Cascading impacts of climate hazards on food and nutrition'.
Chapter 05: Food, fibre, and other ecosystem products	16	7	16	9	Change 'Figure 5.2: Complex pathways from climate/weather variability to malnutrition in subsistence farming households. The factors involved in and the probable impacts of weather variables on crop yields (blue arrows) and of production on malnutrition (red arrows). Adapted and revised from (Phalkey et al., 2015)' to 'Figure 5.2: Cascading impacts of climate hazards on food and nutrition. The factors involved the impacts on crop production and prices (black arrows) and interaction among food-health interaction (white arrows). Adapted and revised from (Phalkey et al., 2015)'

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Chapter 05: Food, fibre, and other ecosystem products	17	7	17	7	Change 'Chapter text draws on previous IPCC reports, other reports (i.e., HLPE, FAO, IPBES, and Traffic), and 8 literature published since 2014. This section highlights key trends in research topics and methods since AR5' to ' Chapter text draws on previous IPCC reports, other reports (i.e., High Level Panel of Experts (HLPE), Food and Agriculture Organization (FAO), and Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)), and literature published since 2014. This section highlights key trends in research topics and methods since AR5.
Chapter 05: Food, fibre, and other ecosystem products	18	32	18	32	Replace Li et al., 2014b with Li et al., 2015
Chapter 05: Food, fibre, and other ecosystem products	23	1	23	1	Table Box5.1.1 First row, the second column add 1980-2010
Chapter 05: Food, fibre, and other ecosystem products	24	1	24	1	Table Box5.1.1 First row, the second column add 1961-2008
Chapter 05: Food, fibre, and other ecosystem products	30	29	30	29	Delete 'element'.
Chapter 05: Food, fibre, and other ecosystem products	41	41	41	41	Change Zhang et al., 2019 to Zhange et al., 2019b
Chapter 05: Food, fibre, and other ecosystem products	45	40	45	40	Change 'in Tibet' to 'on the Tibetan Plateau'.
Chapter 05: Food, fibre, and other ecosystem products	49	35	49	38	Change "these could amount to USD 22 billion per year for dairy and USD 38 billion per for beef to end-century under SSP5-8.5, approximately 7% and 20% of the global value of production of these commodities in constant 2005 dollars." by "these could amount to USD 9 billion per year for dairy and USD 31 billion per for beef to end-century under SSP5-8.5, approximately 5% and 14% of the global value of production of these commodities in constant 2005 dollars."
Chapter 05: Food, fibre, and other ecosystem products	62		62		In Table 5.9, in the third column from the left and 6th row from the top, change 'Yanan' to 'Yunnan'.
Chapter 05: Food, fibre, and other ecosystem products	67		67		Table 5.10 the last row, the far-left column add " Medium confidence "
Chapter 05: Food, fibre, and other ecosystem products	69		69		Table 5.10 the third row, the far-left column add " Medium confidence"
Chapter 05: Food, fibre, and other ecosystem products	73	29	73	29	Change Bell et al., 2018a to Bell et al., 2018
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'high mitigation potential, high confidence' of feed conversion efficiency for Europe freshwater and brackish aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'high mitigation potential, low confidence' of feed conversion efficiency for Africa (Near East and Northern) freshwater and brackish aquaculture mitigation to 'low mitigation potential, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'high mitigation potential, medium confidence' of governance for Africa (Near East and Northern) freshwater and brackish aquaculture mitigation to 'low mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'high mitigation potential, medium confidence' of Low Green House Gas emission species for Africa (Near East and Northern) freshwater and brackish aquaculture mitigation to 'low mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'high vulnerability, medium confidence' of livelihoods for Europe freshwater and brackish aquaculture mitigation to 'medium vulnerability, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'low mitigation potential, low confidence' of governance for Latin America and the Caribbean freshwater and brackish aquaculture mitigation to 'high mitigation potential, low confidence'

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Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'low mitigation potential, medium confidence' of feed conversion efficiency for Latin America and the Caribbean freshwater and brackish aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'low mitigation potential, medium confidence' of source of feeds for Asia-Pacific freshwater and brackish aquaculture mitigation to 'medium mitigation potential, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, high confidence' of alternative energies for Europe marine aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, high confidence' of feed conversion efficiency for Europe marine aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, high confidence' of governance for Europe freshwater and brackish aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, high confidence' of governance for Europe marine aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, low confidence' of governance for Asia-Pacific freshwater and brackish aquaculture mitigation to 'low mitigation potential, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, medium confidence' of feed conversion efficiency for Asia-Pacific marine aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium mitigation potential, medium confidence' of feed conversion efficiency for Latin America and the Caribbean marine aquaculture mitigation to 'high mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium vulnerability, medium confidence' of coastal and marine use conflict for North America marine aquaculture vulnerability to 'low vulnerability, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium vulnerability, medium confidence' of food security at a local level for Latin America and the Caribbean marine aquaculture mitigation to 'low vulnerability, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium vulnerability, medium confidence' of food security at a local level for North America marine aquaculture vulnerability to 'low vulnerability, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change 'medium vulnerability, medium confidence' of livelihood for North America marine aquaculture vulnerability to 'low vulnerability, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assesment of source of feeds for Africa (Near East and Northern) marine aquaculture mitigation to 'high mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of Low Green House Gas emission species for for Latin America and the Caribbean freshwater and brackish aquaculture mitigation to 'low mitigation, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Africa (Near East and Northern) freshwater and brackish aquaculture to 'medium vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Africa (Near East and Northern) marine aquaculture to 'medium vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Africa (Sub-Saharan) marine aquaculture to 'medium vulnerability, low confidence'

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Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Asia-Pacific freshwater and brackish aquaculture to 'medium vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Asia-Pacific marine aquaculture to 'medium vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Europe freshwater and brackish aquaculture to 'medium vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Europe marine aquaculture to 'medium vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Latin America and the Caribbean freshwater and brackish aquaculture to 'high vulnerability, low confidence'
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Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of social inequality for Northern America freshwater and brackish aquaculture to 'low vulnerability, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of source of feeds for Africa (Near East and Northern) freshwater and brackish aquaculture mitigation to 'high mitigation potential, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of source of feeds for Africa (Sub-Saharan) freshwater and brackish aquaculture mitigation to 'high mitigation potential, low confidence'
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Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of source of feeds for Europe freshwater and brackish aquaculture mitigation to 'medium mitigation potential, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of source of feeds for Europe marine aquaculture mitigation to 'high mitigation potential, high confidence'
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Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of source of feeds for Northern America marine aquaculture mitigation to 'high mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	Figure 5.14. Change non-assessment of source of feeds for Northern America marine aquaculture mitigation to 'medium mitigation potential, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	85	1	85	1	In Figure 5.14. Change non-assessment of social inequality for Africa (Sub-Saharan) freshwater and brackish aquaculture mitigation to 'medium vulnerability, low confidence'

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Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, high confidence' of eutrophication on Africa (East and Northern) marine aquaculture impacts to 'neutral or mixed impact, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, low confidence' of juvenile availability on Asia-Pacific marine aquaculture impacts to 'very negative impact, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, low confidence' of precipitation changes on Asia-Pacific freshwater and brackish aquaculture impacts to 'very negative impact, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, medium confidence' for aquaculture feed for Africa (Sub-Saharan) freshwater and brackish aquaculture to 'very negative impact, medium confidence''
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, medium confidence' of cyclones / hurricanes / severe storms on Africa (Sub-Saharan) marine aquaculture impacts to 'negative impact, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, medium confidence' of harmful algal blooms on Africa (East and Northern) marine aquaculture impacts to 'very negative impact, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, medium confidence' of harmful algal blooms on Africa (Sub-Saharan) marine aquaculture impacts to 'negative impact, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'negative impact, medium confidence' of pathogens and parasites on Africa (Sub-Saharan) marine aquaculture impacts to 'very negative impact, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'neutral or mixed effects impact, medium confidence' for global warming for Africa (East and Northern) freshwater and brackish aquaculture to 'negative impact, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'neutral or mixed effects impact, medium confidence' of aquaculture feed on Africa (Sub-Saharan) marine aquaculture impacts to 'negative impact, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'neutral or mixed impact, low confidence' of eutrophication on Asia-Pacific freshwater and brackish aquaculture impacts to 'negative impact, low confidence'
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Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'positive impact, medium confidence' of aquaculture feed on Latin America and the Caribbean marine aquaculture impacts to 'negative impact, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change 'very positive, low confidence' of primary productivity for Latin America and the Caribbean marine aquaculture impacts to 'negative impact, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change non-assessment of extreme wave heights for Africa (Sub-Saharan) marine aquaculture impacts to 'negative impact, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change non-assessment of extreme wave heights for Africa (Sub-Saharan) marine aquaculture impacts to 'very negative impact, medium confidence'
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Chapter 05: Food, fibre, and other ecosystem products	87	2	87	2	Figure 5.15. Change non-assessment of sea level rise for Africa (Sub-Saharan) freshwater and brackish aquaculture impacts to 'neutral or mixed impact, low confidence'
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Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16 Change non-assessment of adaptation best practice implementation of Asia-Pacific freshwater and brackish aquaculture to 'medium adaptation likelihood, low confidence'" and change non-assessment of maladaptation of best practice implementation to 'low maladaptation risk, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16 Change non-assessment of adaptation best practice implementation of Europe freshwater and brackish aquaculture to 'medium adaptation likelihood, medium confidence'" and change non-assessment of maladaptation of best practice implementation to 'low maladaptation risk, low confidence'
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Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for biotechnology for Latin America and the Caribbean freshwater and brackish aquaculture to 'medium adaptive likelihood, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for combined food production for Asia-Pacific freshwater and brackish aquaculture to 'medium adaptive likelihood, medium confidence' and change maladptation risk from 'medium risk of maladaptation, low confidence' to 'low risk of maladaptation, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for combined food production for Latin America and the Caribbean freshwater and brackish aquaculture to 'low adaptive likelihood, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for combined food production in Europe marine aquaculture to 'low adaptive likelihood, high confidence' and change aquaculture feeds maladaptation risk from 'low maladaptation risk, medium confidence' to 'low maladaptation risk, high confidence'

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Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for early warning systems in Latin America and the Caribbean marine aquaculture to 'high adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for gender equity for Africa (East and Northern) freshwater and brackish aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, high confidence' for insurance and financial support in Northern America marine aquaculture to 'medium adaptive likelihood, high confidence'
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Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for local governance for Asia-Pacific freshwater and brackish aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for local governance for Latin America and the Caribbean freshwater and brackish aquaculture to 'low adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for local governance in Asia-Pacific marine aquaculture to 'medium adaptive likelihood, medium confidence' and change local governance maladaptation risk from 'low maladaptation risk, high confidence' to 'low maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for local governance in Northern America marine aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for national governance in Northern America marine aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for optimizing fisheries - aquaculture interactions for Asia-Pacific freshwater and brackish aquaculture to 'medium adaptive likelihood, low confidence' and change maladptation risk from 'medium risk of maladaptation, low confidence' to 'low risk of maladaptation, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for spatial planning for Asia-Pacific freshwater and brackish aquaculture to 'low adaptive likelihood, low confidence'

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for spatial planning for Latin America and the Caribbean freshwater and brackish aquaculture to 'low adaptive likelihood, medium confidence' and change spatial planning maladaptation risk from 'medium maladaptation risk, medium confidence' to 'low maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for spatial planning in Asia-Pacific marine aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for tolerant species / strain selection for Africa (Sub-Saharan) freshwater and brackish aquaculture to 'medium adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for tolerant species / strain selections in Asia-Pacific marine aquaculture to 'low adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'high adaptive likelihood, medium confidence' for tolerant species / strain selections in Northern America marine aquaculture to 'low adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low adaptive likelihood, high confidence' for gender equity in Northern America marine aquaculture to 'medium adaptive likelihood, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low adaptive likelihood, high confidence' for governance national for Africa (East and Northern) freshwater and brackish aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low adaptive likelihood, low confidence' for aquaculture feeds in Northern America marine aquaculture to 'medium adaptive likelihood, medium confidence' and change aquaculture feeds maladaptation risk from 'low maladaptation risk, low confidence' to 'low maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low adaptive likelihood, low confidence' for biotechnology for Africa (East and Northern) freshwater and brackish aquaculture to 'medium adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, high confidence' for biotechnology in Latin America and the Caribbean marine aquaculture to 'low maladaptive risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, high confidence' for gender equity in Latin America and the Caribbean marine aquaculture to 'low maladaption risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, high confidence' for local governance in Latin America and the Caribbean marine aquaculture to 'low maladaption risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, high confidence' for national governance in Asia-Pacific marine aquaculture to 'low maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, high confidence' for national governance in Latin America and the Caribbean marine aquaculture to 'low maladaption risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, high confidence' for tolerant species / strain selections in Latin America and the Caribbean marine aquaculture to 'low maladaption risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, medium confidence' for early warning systems in Northern America marine aquaculture to 'low maladaptation risk, high confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptation risk, medium confidence' for spatial planning for Europe freshwater and brackish aquaculture to 'medium maladaptation risk, low confidence'

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Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptive risk, low confidence' for national governance for Latin America and the Caribbean freshwater and brackish aquaculture to 'low maladaptive risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladaptive risk, medium confidence' for aquaculture feeds for Northern America freshwater and brackish aquaculture to 'medium maladaptive risk, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'low maladpation risk, medium confidence' for aquaculture feeds for Africa (East and Northern) freshwater and brackish aquaculture to 'medium maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, high confidence' for aquaculture feeds in Africa (East and Northern) marine aquaculture to 'medium adaptive likelihood, low confidence' and change aquaculture feeds maladaptation risk from 'low maladaptation risk, high confidence' to 'high maladaptation risk, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, high confidence' for aquaculture feeds in Africa (Sub-Saharan) marine aquaculture to 'medium adaptive likelihood, low confidence' and change aquaculture feeds maladaptation risk from 'low maladaptation risk, high confidence' to 'high maladaptation risk, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, low confidence' for combined food production in Northern America marine aquaculture to 'low adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, low confidence' for optimizing fisheries - aquaculture interactions for Europe freshwater and brackish aquaculture to 'medium adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, medium confidence' for aquaculture feeds in Latin America and the Caribbean marine aquaculture to 'medium adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, medium confidence' for biotechnology for Asia-Pacific freshwater and brackish aquaculture to 'low adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, medium confidence' for combined food production for Africa (East and Northern) freshwater and brackish aquaculture to 'medium adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, medium confidence' for combined food production in Latin America and the Caribbean marine aquaculture to 'low adaptive likelihood, high confidence' and change aquaculture feeds maladaptation risk from 'medium maladaptation risk, low confidence' to 'low maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, medium confidence' for gender equity for Africa (Sub-Saharan) freshwater and brackish aquaculture to 'low adaptive likelihood, low confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium adaptive likelihood, medium confidence' for optimizing fisheries - aquaculture interactions for Latin America and the Caribbean freshwater and brackish aquaculture to 'low adaptive likelihood, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium maladaptation risk, low confidence' for aquaculture feeds for Europe freshwater and brackish aquaculture to 'low maladaptation risk, medium confidence'
Chapter 05: Food, fibre, and other ecosystem products	91	26	91	26	Figure 5.16. Change 'medium maladaptive risk, medium confidence' for aquaculture feeds for Latin America and the Caribbean freshwater and brackish aquaculture to 'medium maladaptive risk, medium confidence'

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Chapter 05: Food, fibre, and other ecosystem products	114	9	114	10	Change 'Figure 5.18: The number of days per year where physical work capacity (PWC) is less than 50% based on average daily air temperature and relative humidity (Foster et al., 2021). ' by 'Figure 5.18: The number of days per year where physical work capacity (PWC) is less than 40% based on average daily air temperature and relative humidity (Foster et al., 2021). '
Chapter 05: Food, fibre, and other ecosystem products	118		118		In the first row of Table 5.16, Change 'Summary of adaptation option and evidence for improved food security and nutrition' to 'Summary of urban and peri-urban agriculture and evidence for improved food security and nutrition'
Chapter 05: Food, fibre, and other ecosystem products	127		127		In Table 5.20, in the fourth column from the left and 4th row from the top, change 'Northern China' to 'Central China'
Chapter 05: Food, fibre, and other ecosystem products	127		127		In Table 5.20, in the fourth column from the left and 4th row from the top, change Xu et al. (2019) to Zhang et al. (2019a).
Chapter 05: Food, fibre, and other ecosystem products	133	54	133	56	Replace 'Xu et al. (2019) assessed the need for an increase in irrigation water to sustain maize production in Northeast China. As droughts will become more frequent, this could lead to groundwater depletion and other environmental knock-on effects.' with 'Xu et al. (2019) modelled the irrigation demand for large-scale maize production in Northeast China and concluded that increasing droughts under future climate change would lead to extreme shortage of irrigation water without adaptive measures.'
Chapter 05: Food, fibre, and other ecosystem products	135	8	135	11	Correction to Table 5.23 caption and text. New caption: State of adaptation in food, fibre and other ecosystem products by actor and vulnerable groups included in planned adaptation and targeted in implemented adaptation vulnerability (planned and targeted) (source: Global Adaptation Mapping Initiative (GAMI) database; Berrang-Ford et al., 2021a). Change text "Equity/Justive" to "Vulnerable groups"; Change "Targeted" by "Implemented"
Chapter 05: Food, fibre, and other ecosystem products	135	8	135	9	Table 5.23 caption. Change 'State of adaptation in food, fibre and other ecosystem products by actor and vulnerability (planned and targeted) (source: Global Adaptation Mapping Initiative (GAMI) database (Berrang-Ford et al., 2021a)).' to "State of adaptation in food, fibre and other ecosystem products by actors (a) and vulnerable groups (b) (source GAMI database (Berrang-Ford et al., 2021a))."
Chapter 05: Food, fibre, and other ecosystem products	135		135		Figure 5.19. Figure legend for the response categories Change 'Nature based' to 'Nature-based'.
Chapter 05: Food, fibre, and other ecosystem products	135		135		Table 5.23. The third column title: Change 'Equity/justice' to 'Vulnerable groups'. And change 'Targeted'to 'implemented'.
Chapter 05: Food, fibre, and other ecosystem products	136	2	136	5	Figure 5.20. Caption. Change 'Figure 5.20: Observed adaptation across regions in food, fibre, and other ecosystem products. Stage of implementation; Type of adaptation; Inclusion of Indigenous knowledge and local knowledge (IK and LK) based on Global Adaptation Mapping Initiative (GAMI) database – (Berrang-Ford et al., 2021a). The bars indicate the number of evidence for the options x region.' to 'Observed adaptation options across regions in food, fibre, and other ecosystem products based on the Global Adaptation Mapping Initiative (GAMI) database – (Berrang-Ford et al., 2021a). The bars indicate the number of evidence for the options x region.'
Chapter 05: Food, fibre, and other ecosystem products	136		136		Figure 5.20. Adaptation options (x-axix). Change 'insurances' to 'insurance'.
Chapter 05: Food, fibre, and other ecosystem products	137		137		Figure 5.21. Adaptation options column. Change "Social, eeconomic and institutional' to 'Social, economic and institutional'.
Chapter 05: Food, fibre, and other ecosystem products	138	2	138	4	Change Figure 5.22 caption from 'Figure 5.22: Assessment of 11 feasibility indicators (six categories) (a) and five effectiveness indicators and maladaptation (b) of adaptation options based on 287 peer-reviewed papers. See SM5.7 for methods and data. Scores ranging from 1 (low) to 3 (high) were obtained by averaging five or more papers for each option and indicator.' to 'Figure 5.22: Assessment of 11 feasibility indicators (six categories), five effectiveness indicators and maladaptation of adaptation options based on 287 peer-reviewed papers. See SM5.7 for methods and data. Scores ranging from 1 (low) to 3 (high) were obtained by averaging five or more papers for each option and indicator. Blank cells were not assessed because of insufficient literature.'
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the adaptation options column in Figure 5.22 (a) and (b), change Biodiversity to On-farm diversification
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the adaptation options column in Figure 5.22 (a) and (b), change Landscapte to Landscape diversification

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Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22 (a) Feasibility section, the fourth row from the bottom , "Mixed systems", the far-right column, "Technical resource availability", Change 2.00 to 2.1
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22 (a) Feasibility section, the fourth row from the bottom , "Mixed systems", the fifth column from the left, "Physical feasibility", Change 2.32 to 2.4
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22 (a) Feasibility section, the fourth row from the bottom , "Mixed systems", the fourth column from the right, "Legal, regulatory feasibility", Change 1.82 to 1.9
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22 (a) Feasibility section, the fourth row from the bottom , "Mixed systems", the third column "Ecological Capacity", Change 2.85 to 2.8
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22 (b) Effectiveness section, the fourth row from the bottom, "Mixed systems", and the first column "Reduce risk vulnerability" Change 2.43 to 2.7
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22 (b) Effectiveness section, the fourth row from the bottom, "Mixed systems", and the first column "Reduce risk vulnerability" Change 2.43 to 2.7
Chapter 05: Food, fibre, and other ecosystem products	138		138		In the Figure 5.22(a) Feasibility and (b) Effectiveness are updated into one figure, and all the numbers are rounded to the first decimal place.
Chapter 05: Food, fibre, and other ecosystem products	142	14	142	14	Replace Dalberg 2019 with Tsan et al., 2019
Chapter 05: Food, fibre, and other ecosystem products	150		150		In the lefthand most column and thirrd row from the top in Table 5.24, change 'Tibet' to 'Tibetan Plateau'.
Chapter 05: Food, fibre, and other ecosystem products	154	8	154	8	Replace Chatterjee 2019 with Hochrainer-Stigler and Reiter, 2021
Chapter 05: Food, fibre, and other ecosystem products	158	7	158	7	Delete: Hanssen et al., 2020
Chapter 05: Food, fibre, and other ecosystem products	159	43	159	47	Replace 'Climate-smart agriculture can increase productivity while enhancing resilience and reducing GHG emissions inherent to production (Lipper et al., 2014; Nabuurs et al., 2018; Verkerk et al., 2020; Singh and Chudasama, 2021). Similarly, climate-smart forestry considers the whole value chain and integrates climate objectives into forest sector management through multiple measures (from strict reserves to more intensively managed forests) providing mitigation and adaptation benefits (WGIII Section 7.3).' with 'Climate-smart agriculture can increase productivity while enhancing resilience and reducing GHG emissions inherent to production (Lipper et al., 2014; Singh and Chudasama, 2021). Similarly, climate-smart forestry considers the whole value chain and integrates climate objectives into forest sector management through multiple measures (from strict reserves to more intensively managed forests) providing mitigation and adaptation benefits (Nabuurs et al., 2018; Verkerk et al., 2020; WGIII Section 7.3).'
Chapter 05: Food, fibre, and other ecosystem products	178	16	178	20	Change Bell, J. D. et al., 2018a to Bell, J. D. et al., 2018
Chapter 05: Food, fibre, and other ecosystem products	178	24	178	24	Delete Bell, P. et al., 2018b: A Practical Guide to Climate-Smart Agriculture Technologies in Africa, Wageningen

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Chapter 05: Food, fibre, and other ecosystem products	188	38	188	39	Replace Chatterjee, A., 2019: Disaster Risk Financing Options for Enhancing Resilience. <Go to WoS>://WOS:000448839600017 with Hochrainer-Stigler, S. and K. Reiter, 2021: Risk-Layering for Indirect Effects. Int. J. Disaster Risk Sci., 12(5), 770-778, doi:10.1007/s13753-021-00366-2.
Chapter 05: Food, fibre, and other ecosystem products	193	17	193	17	Replace Dalberg, A., 2019: The Digitalisation of African Agriculture Report 2018 - 2019. The Netherlands. with Tsan, M., S. Totapally, M. Hailu and B. K. Addom, 2019: The Digitalisation of African Agriculture Report 2018 - 2019 [Lichtenstein, J., M. Schnapf and B. Becks (eds.)]. The Technical Centre for Agricultural and Rural Cooperation(CTA), The Netherlands.
Chapter 05: Food, fibre, and other ecosystem products	213	18	213	19	Delete: Hanssen, S.V., et al., 2020: The climate change mitigation potential of bioenergy with carbon capture and storage. Nat. Clim. Chang., 10(11), 1023–1029, doi:10.1038/s41558-020-0885-y.
Chapter 05: Food, fibre, and other ecosystem products	231	7	231	8	Replace Li, T. et al., 2014b: Crop-model ensembles reduce uncertainty in predicting rice yield under climate change. Proc. Roy. Soc. B: Biol. Sci. with Li, T. et al., 2015: Uncertainties in predicting rice yield by current crop models under a wide range of climatic conditions. Glob Chang Biol, 21(3), 1328-1341, doi:10.1111/gcb.12758.
Chapter 05: Food, fibre, and other ecosystem products	259	20	259	24	Change Rogelj, J. et al., 2018: Mitigation Pathways Compatible with 1.5°C in the Context of Sustainable Development. [Masson-Delmotte, V., P. Zhai, H. O. Pörtner, D. Roberts, J. Skea, P. R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J. B. R. Matthews, Y. Chen, X. Zhou, M. I. Gomis, E. Lonnoy, T. Maycock, M. Tignor and T. Waterfield (eds.)], pp. In press-In press. ISBN 9789291691517. to Rogelj, J. et al., 2018: Mitigation Pathways Compatible with 1.5°C in the Context of Sustainable Development. In: Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty. [Masson-Delmotte, V., P. Zhai, H. O. Pörtner, D. Roberts, J. Skea, P. R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J. B. R. Matthews, Y. Chen, X. Zhou, M. I. Gomis, E. Lonnoy, T. Maycock, M. Tignor and T. Waterfield (eds.)]. In press.
Chapter 05: Food, fibre, and other ecosystem products	285	23	285	24	Insert Zhang, K. et al., 2019a: Unexpected groundwater recovery with decreasing agricultural irrigation in the Yellow River Basin. Agric. Water Manage., 213, 858-867, doi:10.1016/j.agwat.2018.12.009.
Chapter 05: Food, fibre, and other ecosystem products	285	31	285	32	Change Zhang, Y., A. A. Malzahn, S. Sretenovic and Y. Qi, 2019 to Zhang, Y., A. A. Malzahn, S. Sretenovic and Y. Qi, 2019b
Chapter 05 Supplementary Material	1	20	1	20	Insert Angelo Maggiore (Italy), between Maria Loboguerrero (Colombia), and Dianne Mayberry (Australia),
Chapter 05 Supplementary Material	20		20		Add 'Negative' in the third column from the left and the fifth row from the top.
Chapter 05 Supplementary Material	21		21		In the bottom row and far-right column, change Zhang et al (2015b) to Zhang et al. (2015a)
Chapter 05 Supplementary Material	21		21		In the fouth column from the left and the bottom row, change 'More than 50 % of the world wheat production anomalies are from two major producers: Russia and. Heat and drought account for 42% of the world anomalies. National breakdown follows.' to 'More than 50 % of the world wheat production anomalies are from two major producers. Heat and drought account for 42% of the world anomalies. '
Chapter 05 Supplementary Material	22		22		In the first row from the top and far-right column, change Zhang et al (2015b) to Zhang et al. (2015a)
Chapter 05 Supplementary Material	22		22		In the second row from the top and far-right column, change Zhang et al (2015b) to Zhang et al. (2015a)
Chapter 05 Supplementary Material	38	1	38	1	Change Zhang et al. (2015c) to Zhang et al. (2015b)
Chapter 05 Supplementary Material	54	3	54	3	Change 'robust' to 'medium'.

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Chapter 05 Supplementary Material	101	52	101	54	Delete Zhang, J. T. et al., 2015b: Adaptation to a Warming-Drying Trend Through Cropping System Adjustment over Three Decades: A Case Study in the Northern Agro-Pastural Ecotone of China. J. Meteorol. Res., 29(3), 496-514, doi:10.1007/s13351-015-4083-1.
Chapter 05 Supplementary Material	101	58	101	59	Change Zhang, P., et al., 2015c: Environmental factors and seasonality affect the concentration of rotundone in Vitis vinifera L. cv. Shiraz wine. PLoS ONE, 10(7), e133137 to Zhang, P., et al., 2015b: Environmental factors and seasonality affect the concentration of rotundone in Vitis vinifera L. cv. Shiraz wine. PLoS ONE, 10(7), e133137
Chapter 06: Cities, settlements and key infrastructure	7	6	7	6	INSERT red text "What happens in cities is crucial to successful adaptation (Grafakos et al., 2019). The urban population of the world has grown rapidly from 751 million in 1950 to 4.2 billion in 2018 (UNDESA 2018). By 2050, over two thirds..." Then add new reference - UNDESA (2018) World Urbanisation Prospects 2018, accessed from https://population.un.org/wup/
Chapter 06: Cities, settlements and key infrastructure	90	18	90	20	REPLACE: For example, China has received praise in terms of delivering urban policies that put climate change at its core, thus suggesting its role providing leadership in climate change debates (Liu et al., 2014; Wang and He, 2015; Fu and Zhang, 2017). However, a detailed analysis of case studies of sustainable development in China's cities demonstrates that processes of planning only take into account certain groups and interests (Westman and Broto, 2018). Urban sustainability policy may, as a result, fail to deliver collaborative social and environmental objectives, and this is maladaptive in terms of CRD. WITH: For example, while China has received praise in terms of delivering urban policies that put climate change at its core, thus suggesting its role providing leadership in climate change debates (Liu et al., 2014; Wang and He, 2015; Fu and Zhang, 2017), other analyes suggest that processes of sustainability planning take greater account of certain groups and interests (Westman and Castán Broto, 2018). Urban sustainability policy may, as a result, fail to deliver collaborative social and environmental objectives, and this is maladaptive in terms of CRD.
Chapter 06: Cities, settlements and key infrastructure	91	1	91	3	DELETE: The use of social media and digital mechanisms for coordination with public interest is ambiguous: in China, Weibo has facilitated an expansion of public engagement, although it remains top down and dominated by a few individuals (Yang and Stoddart, 2021).
Chapter 06: Cities, settlements and key infrastructure	108	41	108	42	REPLACE: In practice, building ecological cities in China has focused more on hard measures than institutional innovation (Li et al., 2020). WITH: In practice, building ecological cities in China has focused on both institutional innovation and hard measures (Li et al., 2020).
Chapter 07: Health, wellbeing and the changing structure of communities	5	52	5	53	Reference to SSPs removed as studies cited use multiple RCP but only one component of SSP (population)
Chapter 07: Health, wellbeing and the changing structure of communities	6	46	6	47	Delete sentence "Future climate change may exceed adaptation limits and generate new causal pathways not 47 observed under current climate variability (medium confidence)."
Chapter 07: Health, wellbeing and the changing structure of communities	12	28	13	3	In copy-edited version of figure 7.1 a-b, attention to be paid to verify boundaries on map are consistent with UN practices
Chapter 07: Health, wellbeing and the changing structure of communities	14	12	14	13	Figure 7.2 to be redrawn, with shading of countries in Asia to be corrected to conform with UN practices
Chapter 07: Health, wellbeing and the changing structure of communities	22	1	22	2	Figure 7.3 to be professionally drawnand will arrange arrows slightly to better reflect structure of chapter
Chapter 07: Health, wellbeing and the changing structure of communities	23	32	23	33	Sentence added to link Figure Box 7.2.1 to text
Chapter 07: Health, wellbeing and the changing structure of communities	60	28	60	29	As confidence statements have not changed siginficantly between AR5 and AR6, following sentence to be deleted: The evidence since AR5 has strengthened the evidence for these findings and allowed statements to be made on direct associations between increased risk of conflict and climate change.
Chapter 07: Health, wellbeing and the changing structure of communities	65	14	65	15	Caption for Figure Burning embers diagram changed to read: Burning embers for six climate-sensitive health outcomes under three adaptation scenarios of selected characteristics of health systems based on SSPs 3, 2, and 1, respectively. The assessed projected risks were based a range of scenarios, including SRES, CMIP5, and ISIMIP. The embers are truncated at the full C near the approximate upper temperature change in 2100 under the SSP-RCP combinations in the Working Group 1 SPM, Figure 4
Chapter 07: Health, wellbeing and the changing structure of communities	84	17	84	18	In copy-edited version of figure 7.13, attention to be paid to verify boundaries on map are consistent with UN practices
Chapter 07: Health, wellbeing and the changing structure of communities	86	14	87	6	This paragraph and accompanying table were inedvertently included in wrong section; they have been moved to section 7.4.2.6 (Multisectoral adaptation for nutrition), where they rightly belong. This move required renumbering of tables 7.4-7.6. Table has been updated to reflect increased confidence in feasibility for certain factors based on updates to original study made by study authors at same time as Final Draft submission; these are as follows: Social = high for first row; Evidence = high for 3rd row; Effectiveness = high for 3rd row; Agreement = high for 4th row; Geophysical = medium for 5th row; Effectiveness = medium for 6th row; and Agreement = medium for 6th row.
Chapter 07: Health, wellbeing and the changing structure of communities	86	26	87	27	Remove reference to Supplementary Materials.
Chapter 07: Health, wellbeing and the changing structure of communities	105	7	105	7	Reference Adams & Kay 2019 replaced by Hino et al 2017
Chapter 07: Health, wellbeing and the changing structure of communities	105	45	105	46	Reference to "Global Compact on Refugees" has been corrected to "1951 Convention on the Status of Refugees"
Chapter 07: Health, wellbeing and the changing structure of communities	118	19	118	20	Minor edits for clarity + term "displacement" added to sentence to be consistent with main text of chapter, where "migration and displacement" are used in conjunction with one another

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Chapter 8: Poverty, livelihoods and sustainable development	3	24	3	25	Add "(high confidence)" at the end of the sentence. E.g. "Over 3.3 billion people are living in countries classified as very highly or highly vulnerable, while 1.8 billion people live in countries with low or very low vulnerability (high confidence)"
Chapter 8: Poverty, livelihoods and sustainable development	12	42	12	43	Figure 8.3, replaced word "Race" with "Ethnicity"
Chapter 8: Poverty, livelihoods and sustainable development	17	1	17	3	Caption of Figure Box 8.1.1 should be replace with the following text "The global distribution of the United Nations High Commissioner for Refugees (UNHCR) refugee 2 and internally displaced people (IDP) settlements (as of 2018) overlaid on a gridded map of the days predicted to exceed safe temperature thresholds for human health in the coming decades (2041-2060 under SSP2 8.5). Semi-circles indicate the presence of refugee and IDP camps in grid cells, with darker semi-circles depicting increasingly dense concentrations of settlements. Darker background colors indicate increasingly unsafe conditions. Regions of concern include the southern edge of the Sahel, and the northern edge of the Levant".
Chapter 8: Poverty, livelihoods and sustainable development	32	39	32	39	Added a footnote to line 32 at "INFORM and WRI index systems". The following text has been added as a footnote: "Both index system analyse risk and vulnerability at the country level and are updated yearly. The WorldRiskIndex (WRI) conceptualizes vulnerability as having susceptibility, lack of coping capacity and lack of adaptive capacity components. It is based on 28 indicators (23 vulnerability indicators) for 171 countries. It uses different weights based on statistical tools complemented by expert judgements and equal weights for the three components. The index is composed of additive functions for vulnerability components (Welle and Birkmann_2015). The INFORM Risk Index conceptualizes vulnerability as having two components namely socioeconomic vulnerability and vulnerable groups while lack of coping capacity is considered as a separate component. The INFORM index consists of 18 indicators to assess vulnerability and 14 indicators for measuring lack of coping capacity. It analyses risk and vulnerability for 191 countries. It uses equal weights for indicators and components and uses a multiplicative function for aggregating components to compose the final index (Marin-Ferrer et al., 2017). In this chapter, the lack of coping capacity component of INFORM is included in vulnerability calculations in line with the IPCC framing of vulnerability. The vulnerability map presented in this report is based on both WRI and INFORM indices (see Birkmann et al (2022), Feldmeyer et al (2021), Garschagen et al (2021) for agreement between the WRI and INFORM indices). "
Chapter 8: Poverty, livelihoods and sustainable development	34	10	35	10	Figure 8.6 was updated as following: 1) The population density was changed to show only two classifications in order to improve readability; 2) The pie charts were updated to include heat and wildfire hazard events; 3) The examples of local vulnerable populations were added to and updated in to provide a better spread accross regions and vulnerabilities in light of government comments; The caption was updated accordingly and now reads as follows: "A global map of vulnerability. This map shows the relative level of average vulnerability as calculated by global indices (INFORM and WRI see details in 8.3.2). Areas shaded light yellow are on average the least vulnerable and those shaded darker brown are the most vulnerable. The map combines information about the level of vulnerability (independent of the population size) with the population density (see legend) to show where both high vulnerability and high population density coincide. The map reveals that there are densely populated areas of the world that are highly vulnerable, but also highly vulnerable populations in more sparsely populated areas. There are also highly vulnerable communities and populations in countries with overall low vulnerability as shown with local case studies alongside the map. The pie charts show the number of deaths (mortality) per hazard (storm, flood, drought, heatwaves and wildfires) event per continental region based on EM-DAT Data (CRED, 2020). The size of the pie chart represents the average mortality per hazard event while slices of each pie chart show the absolute number of deaths from each hazard. This reveals that over the past decade, there were significantly more fatalities per hazard in the more vulnerable regions, e.g., Africa and Asia. The analysis of the data shown in this map revealed that over 3.3 billion people are living in countries classified as very highly and highly vulnerable, while approximately 2 billion people live in countries with low and very low vulnerability (Birkmann et al., 2022). These vulnerability values are based on the average of the vulnerability components of the INFORM Index (INFORM, 2019) and WorldRiskIndex (Birkmann and Welle, 2016; Feldmeyer et al., 2017) with updated data from 2019 classified into 5 classes using the quantile method. Other studies applied more vulnerability classes within their assessment and therefore provide slightly different numbers (Birkmann et al., 2021a). However, despite different calculation methods, the conclusion remains that there are significantly more people residing in countries with very high and highly vulnerability compared to those living in countries classified as
Chapter 8: Poverty, livelihoods and sustainable development	38	11	38	14	Modification and addition. Replace text in line 11 to 14 until (e.g., Canada, Italy, Sweden, UK) (Birkmann et al., 2022)" with the following text "The relevance of human vulnerability has also been confirmed by recent studies. The assessment of vulnerability studies and mortality data found that the average mortality from floods, storms and droughts is 15 times higher in countries and regions ranked as very highly vulnerable (e.g., Afghanistan, Haiti, Mozambique, Nigeria, Somalia) compared to countries with very low vulnerability (e.g., Canada, Italy, Sweden, UK) (Birkmann et al., 2022). These patterns are confirmed by other studies (e.g., CRED and UNDRR 2015; 2016; 2020) that examined disaster mortality per hazard event in low and lower middle income countries compared to high income countries and therewith also point towards major differences between countries with high and low vulnerability (CRED and UNDRR 2015; 2016; 2020; Pelling et al, 2004)".
Chapter 8: Poverty, livelihoods and sustainable development	44	21	44	21	replace CRED, 2015 with CRED and UNDRR, 2020
Chapter 8: Poverty, livelihoods and sustainable development	45	7	45	7	replace CRED, 2015 with CRED and UNDRR, 2020

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 8: Poverty, livelihoods and sustainable development	46	52	46	52	Replace the sentence starting with ' Farmers, in particular..... With the following text "Farmers, in particular smallholders, in some regions face losses to irrigated agriculture and hydropower capacity with effects on water scarcity and food security (Drenkhan et al., 2019). However, other assessments also point towards positive effects of water reservoirs and hydropower in terms of water storage, flood management and irrigation (Kuraku et al., 2019; Liu et al, 2015; Ahmad et al, 2014)"
Chapter 8: Poverty, livelihoods and sustainable development	111	49	111	49	Add reference after line 49"Ahmad, A., El-Shafie, A., Razali, S.F.M., et al., 2014. Reservoir Optimization in Water Resources: a Review, Water Resources Management, 28(11): 3391-3405. DOI: 10.1007/s11269-014-0700-5"
Chapter 8: Poverty, livelihoods and sustainable development	125	32	125	32	Add after line 32 the following reference detail "CRED and UNDRR, 2015: The Human Cost of Weather Related Disasters (1995 -2015) Center for Research on the Epidemiology of Disasters (CRED) UN Office for Disaster Risk Reduction (UNDRR), Disasters, C. f. R. o. t. E. o., Louvain. Available at:https://www.unisdr.org/files/46796_cop21weatherdisastersreport2015.pdf""
Chapter 8: Poverty, livelihoods and sustainable development	125	32	125	32	Add after line 32 the following reference detail "CRED and UNDRR, 2016: Poverty & Death: Disaster and Mortality 1996-2015. Center for Research on the Epidemiology of Disasters (CRED) UN Office for Disaster Risk Reduction (UNDRR), Disasters, C. f. R. o. t. E. o., Louvain. Available at: https://reliefweb.int/sites/reliefweb.int/files/resources/CRED_Disaster_Mortality.pdf""
Chapter 8: Poverty, livelihoods and sustainable development	125	33	125	37	Correct reference "CRED and UNDRR, 2020: Human Cost of Natural Disasters: An Overview of the last 20 Years 2000-2019. Center for Research on the Epidemiology of Disasters (CRED) UN Office for Disaster Risk Reduction (UNDRR), Disasters, C. f. R. o. t. E. o., Louvain. Available at: https://reliefweb.int/sites/reliefweb.int/files/resources/Human%20Cost%20of%20Disasters%202000-2019%20Report%20-%20UN%20Office%20for%20Disaster%20Risk%20Reduction.pdf"
Chapter 8: Poverty, livelihoods and sustainable development	132	43	132	43	Add reference after line 43 "Kuraku, Y., Koyamada, K., Sumi, T., et al., 2019. Sustainable development of irrigation system with Sayama-ike reservoir, Journal of Hydro-Environment Research, 26: 8-13. DOI: 10.1016/j.jjher.2019.08.001"
Chapter 8: Poverty, livelihoods and sustainable development	133	57	133	57	Add reference after line 57 "Liu, P., Li, L.P., Guo, S.L., et al 2015. Optimal design of seasonal flood limited water levels and its application for the Three Gorges Reservoir, Journal of Hydrology, 527: 1045-1053. DOI:10.1016/j.jhydrol.2015.05.055"
Chapter 8: Poverty, livelihoods and sustainable development	151	46	151	46	Add after line 46 the following reference detail " Pelling, M. et al., 2004: Reducing Disaster Risk: A Challange for Development. United Nations Development Programme Programme, U. N. D., New York, 161 pp. Available at: https://www.undp.org/sites/g/files/zskgke326/files/publications/Reducing%20Disaster%20risk%20a%20Challenge%20for%20development.pdf "
Chapter 8: Poverty, livelihoods and sustainable development					Figure 8.5: The classification was altered to better show the agreement between the two vulnerability indices. The axis labels were changed as they were previously mislabelled. The data behind the figure remains unchanged. The visual style of the figure was updated. The caption remains unchanged.
Chapter 8: Poverty, livelihoods and sustainable development					Figure 8.7: the indicator "uprooted people" was replaced with "heath status" (because the original indicator was prone to being misunderstood and thus was misleading). The caption was updated accordingly and now reads as follows: "The figure shows selected aspects of human vulnerability, such as extreme poverty and inequality, and access to health care and basic infrastructure as regional averages. These vulnerability aspects are a selection of indicators from the indicator systems (the INFORM Risk Index and WorldRiskIndex 2019) used for the global vulnerability map (Figure 8.6). These normalized indicator scores were averaged for each region and classified into three levels of severity using the natural breaks method. This figure provides a more differentiated picture about the various dimensions of vulnerability that different regions and countries face and the severity of such challenges in each region. Such vulnerability challenges increase the risk of severe adverse impacts of climate change and related hazards (Birkmann et al., 2022)."
Chapter 09: Africa	1	15	1	15	Add "Romy Chevalier" to the list of CAs
Chapter 09: Africa	1	57	1	57	Change the headline in TOC from "Extent of Climate Change Impacts Across Africa" to "Climate Change Impacts Across Africa"
Chapter 09: Africa	2	1	2	1	Change the headline in TOC from "Extent of Climate Change Data and Research Gaps Across Africa" to "Climate Data and Research Gaps Across Africa"
Chapter 09: Africa	4	5	4	5	Add "causing climate change" to the sentence "Africa has contributed among the least to greenhouse gas emissions causing climate change,
Chapter 09: Africa	4	6	4	6	Change loss to "losses" and changed damage to "damages"
Chapter 09: Africa	4	8	4	8	Add "{9.1.6}"
Chapter 09: Africa	4	8	4	8	Added "compared to high level of global warming" to the statement "Limiting global warming to 1.5°C is expected to substantially reduce damages to African economies, agriculture, human health, and ecosystems compared to high level of global warming"
Chapter 09: Africa	4	10	4	10	Add "negative" to the line "Between 1.5°C and 2°C global warming—assuming localised and incremental adaptation—negative impacts are projected to become widespread and severe for with reduced food production". Also replaced for with "with" in the same line
Chapter 09: Africa	4	14	4	14	Add "agriculture, human health" to the statement " Limiting global warming to 1.5°C is expected to substantially reduce damages to African economies, agriculture, human health, and ecosystems "
Chapter 09: Africa	4	21	4	21	Change "{9.8.2}" to "{9.8.1}"
Chapter 09: Africa	4	33	4	33	Add "for Africa" to the statement ":78% of this funding for Africa went to EU and north American institutions and only 14.5% to African institutions" 34 institutions and only 14.5% to African institutions"
Chapter 09: Africa	4	37	4	37	Added "1" on
Chapter 09: Africa	4	41	4	41	Added "high confidence"
Chapter 09: Africa	4	49	4	49	Added "high confidence"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 09: Africa	5	11	5	11	Add "adaptation and mitigation" to the sentence "Without cross-sectoral, transboundary and long-term planning, adaptation and mitigation response options in one sector can become response risks,"
Chapter 09: Africa	5	13	5	13	Add "reduces greenhouse gas" to the sentence "For example, maintaining indigenous forest benefits biodiversity and reduces greenhouse gas emissions mitigation, but afforestation"
Chapter 09: Africa	5	21	5	21	Replace "responses" with "response options"
Chapter 09: Africa	6	1	6	1	Change "2°C" to "4°C"
Chapter 09: Africa	6	5	6	7	Increases in drought frequency and duration are projected over large parts of southern Africa from 1.5°C global warming (high confidence), with decreased precipitation in North Africa at 2°C global warming (high confidence), and above 3°C global warming, meteorological drought frequency will increase, and duration will double from approximately 2 to 4 months in parts of North Africa, the western Sahel and southern Africa (medium confidence). {9.5.2, 9.5.3, 9.5.6.}
Chapter 09: Africa	6	44	6	44	Delete "more than" and added "by 2050" in the sentence "Populations in drylands are projected to more than double by 2050"
Chapter 09: Africa	6	46	46	46	Add "{9.9.4}"
Chapter 09: Africa	7	1	7	2	Add "or weather-related food supply interruptions" to the statement "Early life undernutrition associated with low harvests or weather-related food supply interruptions can impair cognitive development"
Chapter 09: Africa	7	7	7	7	Delete 'in Africa'
Chapter 09: Africa	7	11	7	11	Replace "medium confidence" with "high confidence"
Chapter 09: Africa	7	25	7	25	Add "{9.8.3, 9.11.2}"
Chapter 09: Africa	7	35	7	35	Replace "increases" with "with decreases of" on the statement "At 1.5°C global warming, marine fish catch potential (MFCP) decreases 3–41% by 2081–2100 relative to 1986–2005, with decreases of to 12–69% at 4.3°C, with the highest declines for tropical countries."
Chapter 09: Africa	7	42	7	42	Add "negatively" to the sentence "Climate variability and change already negatively impacts the health of tens of millions of Africans through exposure to non-optimal temperatures and extreme weather, and increased range and transmission of infectious diseases"
Chapter 09: Africa	7	47	7	48	Delete "At 1.5°C" replace with "Above 2°C"
Chapter 09: Africa	7	49	7	49	Add "west" and change "high confidence" to "medium confidence"
Chapter 09: Africa	7	50	7	50	Add "reaching 50–180 additional deaths per 100,000 people annually in regions of North, West, and East Africa for 2.5°C, and increasing to 200-600 per 100,000 people annually for 4.4°C" to the sentence "Above 1.5°C risk of heat-related deaths rises sharply (high confidence), with at least 15 additional deaths per 100,000 annually across large parts of Africa, reaching 50–180 additional deaths per 100,000 people annually in regions of North, West, and East Africa for 2.5°C, and increasing to 200-600 per 100,000 people annually for 4.4°C."
Chapter 09: Africa	7	51	7	51	Replace degrees with "global warming" in the sentence "At 2.1°C global warming, thousands to tens of thousands of additional cases of diarrhoeal disease are projected, mainly in central and east Africa"
Chapter 09: Africa	7	53	7	53	Added "{Figure 9.35}"
Chapter 09: Africa	7	56	7	56	Replace "with" with "compounded by"
Chapter 09: Africa	7	56	7	56	Delete "with" replaced by "by"
Chapter 09: Africa	8	1	8	3	Delete statement "About one-third of African cities with populations over 300,000 are located in areas that are at high risk from climate hazards. sub-Saharan Africa is the only region globally that has recorded increasing rates of flood mortality since the 1990s"
Chapter 09: Africa	8	2	8	2	Add "globally" to the statement "About one-third of African cities with populations over 300,000 are located in areas that are at high risk from climate hazards. sub-Saharan Africa is the only region globally that has recorded increasing rates of flood mortality since the 1990s"
Chapter 09: Africa	8	8	8	8	Add "medium confidence"
Chapter 09: Africa	8	11	8	11	Replace "exclusion" with "social and economic exclusion" in the sentence "Africa's rapidly growing cities will be hotspots of risks from climate change and climate-induced in-migration, which could amplify pre-existing stresses related to poverty, informality, social and economic exclusion, and governance"
Chapter 09: Africa	8	15	8	17	Add "Under relatively low population growth scenarios, the", "people", "of at least 15 days above 42°C in African cities", by 2100 for 1.8°C global warming, " to the statement "Under relatively low population growth scenarios, the sensitive populations (people under 5 or over 64 years old) in African cities exposed to heat waves of at least 15 days above 42°C in African cities is projected to increase from around 27 million in 2010 to 360 million by 2100 for 1.8°C global warming (Shared Socioeconomic Pathway 1 (SSP1)) and 440 million (SSP5) for >4°C, global warming.
Chapter 09: Africa	8	48	8	48	Add "{9.6.2, 9.8.2)
Chapter 09: Africa	8	51	8	51	Delete "interacting drivers" then add "the effect of the interaction of increasing CO2 and aridity that" to the sentence "The outcome of the effect of the interaction of increasing CO2 and aridity that operate in opposing directions on future biome distributions is highly uncertain."
Chapter 09: Africa	8	53	8	55	Add the sentence "Changes in vegetation cover could occur rapidly if tipping points are crossed"
Chapter 09: Africa	9	1	9	1	Add "terrestrial" to the sentence "At 2°C, 36% of freshwater fish species are vulnerable to local extinction, 7–18% of terrestrial species assessed are at risk of extinction, and over 90% of east African coral reefs could be destroyed by bleaching."
Chapter 09: Africa	9	2	9	2	Replace "could" with "are projected to be" . Statement now read "At 2°C, 36% of freshwater fish species are vulnerable to local extinction, 7–18% of terrestrial species assessed are at risk of extinction, and over 90% of east African coral reefs are projected to be destroyed by bleaching"
Chapter 09: Africa	9	4	9	4	Add "{Figure 9.19}"
Chapter 09: Africa	10	25	10	25	Add "secured land tanure" in the statement "Climate information services, institutional capacity building, secure land tenure, and strategic financial investment can help overcome these barriers to adaptation"
Chapter 09: Africa	10	26	10	26	Add {9.3.1}

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 09: Africa	13	45	13	45	Delete "Extent of"
Chapter 09: Africa	14	18	14	18	Change the heading "Extent of Climate Change Data and Research Gaps Across Africa" to "Climate Data and Research Gaps Across Africa"
Chapter 09: Africa	15	37	15	38	Delete "projects funded by non-African agencies"
Chapter 09: Africa	15	38	15	38	Delete "and"
Chapter 09: Africa	15	39	15	39	Add "and having"
Chapter 09: Africa	19	15	19	15	Change "9.6.1) to (9.6.2)
Chapter 09: Africa	20	13	20	18	Revise figure 9.6 caption to "Burning embers for selected key risks in Africa showing how risks increases with increasing level of global warming. Increases in risk are assessed for the levels of global warming above pre-industrial (1850–1900). All three risks are assessed to have already transitioned to moderate risk by the recent level of global warming 2010–2020 (1.09°C). Risks are characterised as undetectable, moderate, high, or very high, and the transition between risk levels as a function of global warming is represented by the colour change of each bar (IPCC, 2021). The dots indicating the confidence level for a given transition in risk are placed at the level of global warming that is the assessed best estimate for that transition. For range of global warming levels for each risk transition used to make this figure see Supplementary Material Table SM 9.1. "
Chapter 09: Africa	20	21	20	21	Added row to the table 9.2
Chapter 09: Africa	20	21	20	21	Added "increased" and "and infectious diseases (including vector-borne and diarrhoeal diseases)" to the column "Mortality and morbidity from heat and infectious diseases"
Chapter 09: Africa	36	3	36	3	Delete "author's own map"
Chapter 09: Africa	45	10	45	10	Replace "(9.9.2)" to "(9.9)"
Chapter 09: Africa	45	35	45	35	Remanethe title "Knowledge Gaps and Recommendations" to "Knowledge gaps in Africa and uneven research resources"
Chapter 09: Africa	46	13	46	14	Rephrase the statement "Human-caused temperature increases are detected across Africa and many regions have warmed more rapidly than the global average" to "Temperature increases due to human-caused climate change are detected across Africa and many regions have warmed more rapidly than the global average"
Chapter 09: Africa	47	1	47	5	Figure 9.13 Caption revised to "Temperature increases due to human-caused climate change are detected across Africa and many regions have warmed more rapidly than the global average. Mean observed trends in (a) average temperature (°C per decade) and (b) average precipitation in (mm per decade) for 1980-2015. Trends were calculated with respect to the climatological mean over 1980-2015. The Climate Research Unit Time Series data (CRU TS) are used to compute temperature trends using 2-m temperature and the Global Precipitation Climatology Centre data (GPCC) precipitation trends. Regions with no cross-hatching indicate statistically significant trends over this period and regions in grey indicate insufficient data. The figures are derived from Gutiérrez et al. (2021).
Chapter 09: Africa	47	11	47	11	Add "as well as" to the sentence "Sustained station observation networks (Figure 9.15) are essential for the long-term analysis of local and regional climate trends, including for temperature and rainfall, as well as: the calibration of satellite-derived climate products,"
Chapter 09: Africa	48	10	48	10	Add "of WGI" to the statement in thefigure 9.14 caption "The figure is a modified version of Table 12.3 in Chapter 12 of WGI"
Chapter 09: Africa	49	1	49	1	Add "This figure shows" to the figure caption 9.15 "This figure shows stations in Africa with quality-controlled station data used in developing the Rainfall Estimates on a Gridded Network (REGEN) interpolated rainfall product"
Chapter 09: Africa	50	5	50	5	Add "Change in the" to the figure caption 9.16 sentence "(b) Change in the number of days per year above 35 °C (days);"
Chapter 09: Africa	50	10	50	10	Replace (WGI CH3) with the correct reference "(Eyring et al., 2021)"
Chapter 09: Africa	52	22	52	22	Delete "TN" replace with "tropical nights"
Chapter 09: Africa	53	37	53	37	Add "in the western parts of West Africa" to the statement "The duration of meteorological drought in the western parts of West Africa is projected to increase from approximately 2 months during 1950–2014 to approximately 4 months in the period 2050–2100 under RCP8.5 and SSP5-8.5 "
Chapter 09: Africa	56	47	56	47	Add "the reduced rainfall that caused the" before drought and "(95% confidence interval 1.5-6)" between three and in. Statement now "Anthropogenic climate change made the reduced rainfall that caused the drought three times more likely (95% confidence interval 1.5-6)"
Chapter 09: Africa	58	16	58	16	Replace "climatology" with "the 35-year average" in the sentence "In the ecologically sensitive region west of southern Madagascar, the longest and most intense marine heatwave in the past 35 years was recorded during the austral summer of 2017 in the region, it lasted 48 days and reached a maximum intensity of 3.44°C above the 35-year average"
Chapter 09: Africa	66	11	66	11	Delete "risk" from table caption 9.5
Chapter 09: Africa	69	29	69	29	Delete "five to six" replace with "three" and Ott et al 2018
Chapter 09: Africa	70	35	70	35	Delete "are" then added "as of early 2020 were" in the figure caption "Over a third (36%) of all adaptation actions identified in the NDCs of 52 African countries as of early 2020 were ecosystem-based adaptations (EbA). Of these actions ±83% fall within the agriculture, land use/forestry, environment and water sectors. The EbA actions identified from the NDCs span 12 primary sectors and 29 sub-sectors."
Chapter 09: Africa	75	16	75	18	Add "sub-Saharan", replace "and these numbers will increase under climate change" with "with Mozambique and multiple countries in West Africa estimated to have had the proportion of their populations exposed to flooding increase by more than 50% " , and these numbers will increase under climate change.
Chapter 09: Africa	75	33	75	34	Delete "five to six" replace with three. Add "reduced rainfall that caused the" before drought and "(95% confidence interval 1.5-6)" after likely. Statement now "Anthropogenic climate change made the reduced rainfall that caused the drought three times more likely (95% confidence interval 1.5-6)" (Otto et al., 2018)

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 09: Africa	76	56	76	56	Add "sub-Saharan" to the sentence "By 2050, up to 921 million additional people in sub-Saharan Africa could be exposed to climate change-related water stress, while up to 459 million could experience reduced exposure"
Chapter 09: Africa	77	27	77	27	Change "decreasing" to "decrease" and added "during" to the same sentence "In the upper Blue Nile basin, models also indicate up to 15% increase in runoffs in wet season and up to −24% decrease in dry season during 2021–2040 (RCP8.5)"
Chapter 09: Africa	77	37	77	37	Replace "show that it will likely be warmer and wetter" with "project warmer and wetter conditions"
Chapter 09: Africa	78	30	78	31	Add "across Africa" to the sentence "Hydrological fluctuations are associated with drought, flood and cyclone events which have had multi-sector impacts across Africa"
Chapter 09: Africa	78	35	78	35	Replace "from sea level rise of saline intrusion" to "of saline intrusion from sea level rise"
Chapter 09: Africa	79	59	79	52	Rephrase the sentence "The water–energy–food (WEF) nexus explicitly recognises the strong interdependencies of these three sectors and their high levels of exposure to climate change" to "The interdependencies in the water-energy-food (WEF) nexus, coupled with its high exposure to climate change, amplify WEF risks"
Chapter 09: Africa	81	2	82	6	Rephrase the Figure Box 9.5.1 caption to "Climate risks to hydropower and irrigation in Africa. a) The map shows the location and size of existing (blue) and planned (orange) hydropower plants in African governments' infrastructure expansion plans, 2015–2050. b) Matrix shows historical correlations in annual river flows between some of the major river basins indicating risk to clustered hydropower where correlation is higher. Existing and planned hydropower and irrigation are indicated in charts c) and e). Dark blue shows forecasted revenues from 2015–2050 of existing c) hydropower and e) irrigation in major African river basins in a scenario without further climate change (i.e., based on historical data). Orange on those charts show expected to increases to c) hydropower and e) irrigation revenues as new hydropower and irrigation infrastructure is added in a scenario without climate change based on planned infrastructure development (PIDA+). The bar graphs show the forecast revenues for d) hydropower and f) irrigation infrastructure from 2015–2050 in each river basin under different climate scenarios (2015–2050) highlighting risk from high variability in river discharge due to climate change. In river basins with a wide range of potential outcomes, such as the eastern Nile and Zambezi, there is significant uncertainty around revenue forecasts based on historical trends. Hydropower revenues refer to net present value of hydroelectricity produced in each river basin over the period, and irrigation revenues refer to the crop revenues per hectare for each crop multiplied by the number of hectares of each crop across the basin. Orange bars illustrate the range of forecasted revenue from 2015–2050 from new and existing hydropower and irrigation under 121 different climate futures. All figures are estimates of the net present value of revenues, using a discount rate of 3%, and are in 2012 USD billions. The 121 potential climate futures were derived using different General Circulation Models (GCMs), Representative Concentration Pathways (RCPs), and downscaling methods. IPCC AR4 and AR5 provided data from 22 and 23 GCMs, respectively. These were evaluated across two or three emissions pathways, including RCP4.5 and RCP8.5. The Bias Corrected Spatial Disaggregation method of downscaling was then used to derive 99 potential climate futures. An additional 22 climate futures (11 GCMs driven by the RCP4.5 and RCP8.5 emissions pathways) were produced using the Empirical Statistical Downscaling Methods developed at the Climate Systems Analysis Group at the University of Cape Town. Data sourced from Cervigni
Chapter 09: Africa	87	19	87	19	Delete "we find"
Chapter 09: Africa	87	19	87	19	Replace "indicating" with "indicate"
Chapter 09: Africa	91	20	91	20	Add "in Agriculture" to the heading "Adapting to Climate Variability and Change"
Chapter 09: Africa	94	30	94	30	Add "already" to the sentence "Climate change already poses a significant threat to marine and freshwater fisheries and aquaculture in Africa"
Chapter 09: Africa	94	51	94	52	Delete "maintaining" and "levels below" and "MCP by". Rephrased the sentence to "At 4.3°C global warming, maximum catch potential (MCP) from marine fisheries in African Exclusive Economic Zones (EEZs) would decrease by 12–69% by the end of the 21st century relative to recent decades (1986–2005), whereas global warming of 1.6°C would limit the MCP decrease to 3–41%"
Chapter 09: Africa	94	52	94	52	Delete "However,"
Chapter 09: Africa	98	42	98	43	Delete "Globally, only". Delete "has recorded increasing rates of flood mortality" replace it with "is the only region globally that did not show decreasing rates of flood mortality" Statement now read "Sub-Saharan Africa is the only region globally that did not show decreasing rates of flood mortality since the 1990s"
Chapter 09: Africa	98	43	98	43	Replace citation "Tellman et al 2021" with "Tanoue, 2016 "
Chapter 09: Africa	101	19	101	19	Change 9.9.3 heading to "Observed vulnerabilities and exposure of human settlements to climate risks"
Chapter 09: Africa	101	28	101	28	Change "12%" to "11%"
Chapter 09: Africa	101	28	101	28	Add "using natural hazard data for the period 1970s to early 2000s" to the sentence "Almost one-third of African cities with populations of 300,000 or more are located in areas of high exposure to at least one natural hazard, including floods (11%) and droughts (20–25%) using natural hazard data for the period 1970s to early 2000s (Gu et al., 2015)"
Chapter 09: Africa	101	30	101	30	Add statement "From 2000–2015, the proportion of people exposed to floods increased for most African countries, with Mozambique and multiple countries in West Africa estimated to have had the proportion of their populations exposed to flooding increase more than 50% (Tellman et al., 2021)"
Chapter 09: Africa	105	1	105	2	Add "aggregate expected damage risks over the period 2020 to 2100" to the Table 9.8 Caption.
Chapter 09: Africa	107	32	107	34	Add "(that is the annual average number of days with a maximum temperature above 40.6℃ multiplied by the number of people exposed to that temperature), but this is expected to increase" between 1985–2005 and to 45 billion
Chapter 09: Africa	107	32	107	32	Add "above 40°C" after "per year"
Chapter 09: Africa	107	32	107	32	Change "is expected to increase from" to "was estimated to be"

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Chapter 09: Africa	107	37	107	39	Rephrase the sentence to "Considering the urban heat island effect, the more vulnerable populations under 5 and over 64 exposed to heat waves of >15 days over 42°C are projected to increase from 27 million in 2010 to 360 million by 2100 for low population growth (SSP1) with 1.8°C global warming, increasing to 440 million for low population growth (SSP5) with >4°C global warming, with west Africa most affected"
Chapter 09: Africa	113	27	113	32	Rephrase the Figure 9.32 to "Observed climate impacts and projected climate change risks across African regions for eight key health outcomes. Global warming levels shown refer to increases relative to pre-industrial values (1850–1900). This list of health impacts and risks is not intended to be exhaustive, but instead focuses on well-documented conditions. This assessment is a synthesis across 58 studies on observed impacts and 29 studies on projected risks for health (see Table SM 9.7). The category of air pollution-related health outcomes includes health impacts from changing particulate matter concentrations due to climate change."
Chapter 09: Africa	113		113		Figure 9.32: Changes 1. Southern Africa becomes high confidence for the observed row of heat-related illness 2. Southern Africa becomes high confidence for the observed row of All-cause mortality attributed to non-optimal temperatures 3. Central, East and West Africa all become low confidence for the observed row of All-cause mortality attributed to non-optimal temperatures 4. Central, East and West Africa all become very high risk for the observed row of All-cause mortality attributed to non-optimal temperatures 5. Change to high confidence for every entry in the row for >4C for All-cause mortality attributed to non-optimal temperatures
Chapter 09: Africa	118	34	118	34	Add "globally" to the sentence "Excess death rates from non-optimal temperature in sub-Saharan Africa are estimated to be nearly double the global average, with 24% of the more than 5 million annual deaths globally associated with non-optimal temperature occurring in Africa"
Chapter 09: Africa	119	16	119	16	Add "Above 1.5°C the risk of heat-related deaths rises sharply, with at least 15 additional deaths per 100,000 annually across large parts of Africa"
Chapter 09: Africa	120	11	120	11	Replace "green" with "burgundy" in the figure caption 9.35
Chapter 09: Africa	120	23	120	23	Replace "little" with "and inadequate"
Chapter 09: Africa	120	25	121	1	Delete "and the number of years lived depending on age, sex and comorbidities (Egondi et al., 2015)"
Chapter 09: Africa	131		131		Figure 9.37 – delete panel C, Data already represented in existing panel b
Chapter 09: Africa	131	4	131	4	Add "economic growth with no further" to the figure caption 9.37
Chapter 09: Africa	131	19	131	19	Add "weather" to the sentence "Several studies indicate that experiencing low rainfall, warming temperatures or extreme weather events reduce education attainment and that future climate change may reduce children's school participation, particularly for agriculturally dependent and poor urban households."
Chapter 09: Africa	147	56	148	3	Delete "Rainfall impacts African livelihoods and well-being primarily through drought and heavy rainfall events. Drought frequency, duration and intensity is projected to increase in most parts of Africa, but particularly in west Africa and the Sahel. By 2030, about 250 million people may experience high water stress in Africa, with up to 700 million people displaced as a result. In sub-Saharan Africa, floods are expected to displace an average of 2.7 million people in any given year in the future." replace with "Multi-year droughts have become more frequent in west Africa, and the 2015–2017 Cape Town drought was three times more likely due to human-induced climate change. Above 2°C global warming, drought frequency is projected to increase, and duration will double from 2 to 4 months over north Africa, the western Sahel and southern Africa. Estimates of increased exposure to water stress are higher than those for decreases. By 2050, climate change could expose an additional 951 million people in sub-Saharan Africa to water stress while also reducing exposure to water stress by 459 million people. Compared to population in 2000, human displacement due to river flooding in sub-Saharan Africa is projected to triple for a scenario of low population growth and 1.6°C global warming."
Chapter 09: Africa	147	58	147	58	Add "approximately"
Chapter 09: Africa	148	2	148	3	Delete the sentence "In sub-Saharan Africa, floods are expected to displace an 3 average of 2.7 million people in any given year in the future." in the FAQ 9.1
Chapter 09: Africa	148	6	148	6	Delete "RCP4.5" replace with "even moderate greenhouse gas emissions scenarios"
Chapter 09: Africa	148	10	148	10	Delete "anthropogenic" replace with "human-caused global"
Chapter 09: Africa	149	6	149	6	Add "With increasing warming, there is a lower likelihood species can migrate rapidly enough to track shifting climates, increasing extinction risk across more of Africa. At 2°C global warming more than 10% of African species are at risk of extinction. Species ability to disperse between areas to track shifting climates is limited by fencing, transport infrastructure, and the transformation of landscapes to agriculture and urban areas."
Chapter 09: Africa	149	6	149	6	Delete "all" replace with "large portions of their"
Chapter 09: Africa	149	8	149	8	Add "less effective or", "above" to the sentence "Many nature-based adaptation measures (e.g., for coral reefs, mangroves, marshes) are less effective or no longer effective above 1.5ºC of global warming".
Chapter 09: Africa	149	9	149	9	Delete "at"
Chapter 09: Africa	149	16	149	16	Add "extreme" to the sentence "Increasing climate extreme events—droughts and floods—impose specific adaptation responses which poorer households cannot afford"
Chapter 09: Africa	149	45	149	45	Add "with increasing temperatures also a severe risk factor" to the sentence "This is partly due to the growing severity of drought with increasing temperatures also a severe risk factor."
Chapter 09: Africa	149	46	149	46	Add "that is projected to grow to around 40% of the world's population by 2100" to the sentence "Adding to these challenges, Africa has the fastest-growing population in the world that is projected to grow to around 40% of the world's population by 2100"
Chapter 09: Africa	149	46	149	47	Delete sentence "Its population is expected to increase by roughly 50% over the next 15 years, growing from 1.2 billion people to over 1.8 billion by 2035."

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Chapter 09: Africa	149	54	149	54	Add "(9.8.3, 9.8.4)"
Chapter 09: Africa	151	47	151	49	Add access date for "Adams, L., 2018: Unlocking the potential of enhanced rainfed agriculture. SIWI, Stockholm. Available at: https://www.siwi.org/wp-content/uploads/2018/12/Unlocking-the-potential-of-rainfed-agriculture-2018-FINAL.pdf (accessed 23/05/2021)"
Chapter 09: Africa	151	52	151	55	Add publisher location for "Addaney, M., 2020: Strengthening Africa's Adaptive Capacity to Climate Change: African Union Law and Implications of China's Belt and Road Policy. In: Climate Change, Hazards and Adaptation Options [Filho, W. L., G. J. Nagy, M. Borga, P. D. C. Muñoz and A. Magnuszewski (eds.)]. Springer Nature Switzerland AG, pp. 481-503. ISBN 978-3-030-37425-9."
Chapter 09: Africa	152	19	152	20	Add publisher and publisher location to "Adepoju, A., 2019: Migrants and Refugees in Africa. In: Oxford Research Encyclopedia of Politics. Oxford University Press, UK. ISBN 9780190228637"
Chapter 09: Africa	152	23	152	26	Add publisher location for "Adeyeye, B. et al., 2020: A SWOT analysis of indigenous language use in agricultural radio programming in Nigeria. In: Emerging Trends in Indigenous Language Media, Communication, Gender, and Health [Adesina, E., O. Afolabi, N. C. Asogwa, F. Falobi, A. C. Ifeanyichukwu, K. Kadiri, P. Mpofu, O. Ogunyombo, K. Onyenankeya, O. Oredola, T. Owolabi and O. Oyero (eds.)]. IGI Global, Pennsylvania, USA, pp. 188-209. ISBN 9781799820918."
Chapter 09: Africa	152	46	152	48	Add access date for "AfDB, 2018a: The Africa Infrastructure Develoment Index 2018. Available at: https://www.afdb.org/fileadmin/uploads/afdb/Documents/Publications/Economic_Brief_-_The_Africa_Infrastructure_Development_Index.pdf (accessed 30/10/2020)"
Chapter 09: Africa	152	49	152	50	Add access date for "AfDB, 2018b: African Economic Outlook 2018. 200 pp. Available at: https://www.afdb.org/en/documents/document/african-economic-outlook-aoe-2018-99877 (accessed 15/05/2021)."
Chapter 09: Africa	152	51	152	54	Add access date for "AfDB, 2018c: Multinational Appraisal Report for Programme for Integrated Development and Adaptation to Climate Change (PIDACC). African Development Bank (AfDB), AfDB, Abidjan, Côte d'Ivoire, 56 pp. Available at: https://www.afdb.org/en/documents/document/multinational-programme-for-integrated-development-and-adaptation-to-climate-change-in-the-niger-basin-pidacc-appraisal-report-109273 (accessed 13/07/2021)"
Chapter 09: Africa	152	58	152	61	Add access date for "AfDB, 2021: African Development Report 2015 - Growth, Poverty and Inequality Nexus: Overcoming Barriers to Sustainable Development. African Development Bank, Bank, A. D., Abidjan, Côte d'Ivoire, 270 pp. Available at: https://www.afdb.org/en/documents/document/african-development-report-2015-growth-poverty-and-inequality-nexus-overcoming-barriers-to-sustainable-development-89715 (accessed 20/07/2021)"
Chapter 09: Africa	153	7	153	9	Add access date for "Agrawal, A. et al., 2019: Climate resilience through social protection. Background paper to the 2019 report of the Global Commission on Adaptation. Rotterdam and Washington, DC. Available at: www.gca.org. (accessed 10 August 2021)
Chapter 09: Africa	153	20	153	21	Amend author details on "Ahdoot, S. et al., 2015: Global Climate Change and Children's Health. Pediatrics, peds.2015-3233, doi:10.1542/peds.2015-3233."
Chapter 09: Africa	154	57	154	59	Access date added for "AMCOW, 2012: Water Security and Climate Resilient Development: Strategic Framework. Water Climate Development Programme, The African Ministers' Council on Water (AMCOW), AMCOW, Abuja Nigeria, 52 pp. Available at: https://www.preventionweb.net/files/43470_watersecurityandclimateresilientdev.pdf (accessed 30/10/2020)"
Chapter 09: Africa	155	18	155	19	Access date added to "Angula, M. N. and E. Menjono, 2014: Gender, culture and climate change in Namibia. 225-238 pp. Available at: http://journals.unam.edu.na/index.php/JSHSS/article/view/980 (accessed 30/10/2020)"
Chapter 09: Africa	156	23	156	24	Access date added for "AU, 2015: Agenda 2063. The African Union Commission, Addis Ababa, Ethiopia. Available at: https://au.int/sites/default/files/documents/36204-doc-agenda2063_popular_version_en.pdf (accessed 10/08/2021)"
Chapter 09: Africa	156	27	156	28	Publisher location added for "Augustyn, J. et al., 2018: South Africa. In: Climate change impacts on fisheries and aquaculture: a global analysis [Phillips, B. and M. Perez-Ramirez (eds.)]. John Wiley and Sons Inc, New Jersey, USA, pp. 479-522. ISBN 978-1-119-15404-4."
Chapter 09: Africa	157	26	157	26	Add new reference to the bibliography "Baldocchi, D. and J. Penuelas, 2019: The physics and ecology of mining carbon dioxide from the atmosphere by ecosystems. Global Change Biology, 25(4), 1191-1197, doi:https://doi.org/10.1111/gcb.14559"
Chapter 09: Africa	158	62	158	63	Volume and issue number, pages and doi added for "Berrang-Ford, L. et al., 2021: A systematic global stocktake of evidence on human adaptation to climate change. Nature Climate Change, 11(11), 989-1000, doi:10.1038/s41558-021-01170-y."
Chapter 09: Africa	159	26	159	27	Publisher location added for "Birabi, A. K. and B. Nawangwe (eds.), Mitigating threats to local knowledge embedded in earthen architecture: the case of preserving African architectural semiotics. The 10th International Conference on the Study and Conservation of Earthen Architectural Heritage, 2011, California, USA, Getty Publications, 104 pp. ISBN 1606060430." Also changed from book chapter to conference proceedings
Chapter 09: Africa	159	50	159	50	Add journal name to "Boas, I. et al., 2019: Climate migration myths. Nataure Climate Change, 9(12), 901-903, doi:10.1038/s41558-019-0633-3."
Chapter 09: Africa	160	56	160	56	Added new reference to the bibliography "Bright, R. M., K. Zhao, R. B. Jackson and F. Cherubini, 2015: Quantifying surface albedo and other direct biogeophysical climate forcings of forestry activities. Global Change Biology, 21(9), 3246-3266, doi:https://doi.org/10.1111/gcb.12951."
Chapter 09: Africa	161	12	161	13	Added access date for "Brooks, C., 2019: Will climate change undermine the potential for hydropower in Africa?, Oxford Management Policy. Available at: https://www.opml.co.uk/blog/the-impact-of-climate-change-on-hydropower-in-africa (accessed 30 July 2021)"

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Chapter 09: Africa	161	22	161	23	Add volume and issue number, pages for "Brown, J. R. et al., 2020: Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. Climate of the Past Discussions, 16(5), 1777–1805, doi:https://doi.org/10.5194/cp-2019-155"
Chapter 09: Africa	162	7	162	8	Change "Bwasiri, E. J., 2011: The challenge of managing intangible heritage: Problems in Tanzanian legislation and administration. South African Archaeological Bulletin, 66(194), 129–135, doi:10.3316/informit.617059292792417." from Book section to Journal article reference type
Chapter 09: Africa	162	26	162	27	Add volume and issue number, pages and doi for "Callaghan, M. et al., 2021: Machine-learning-based evidence and attribution mapping of 100,000 climate impact studies. Nature Climate Change, 11(11), 966-972, doi:10.1038/s41558-021-01168-6"
Chapter 09: Africa	163	21	163	22	Add access date for "CDKN, 2013: Enhancing direct access to the Green Climate Fund. Climate and Devleopment Knowledge Network. Available at: https://cdkn.org/wp-content/uploads/2013/06/CDKN_GCFPolicyBrief_Pr2_21-06-13_WEB.pdf (accessed 30/07/2021)"
Chapter 09: Africa	163	59	163	60	Add publisher location to "Chatiza, K., 2019: Cyclone Idai in Zimbabwe: An analysis of policy implications for post-disaster institutional development. Oxfam, Oxford, UK, 30 pp"
Chapter 09: Africa	164	15	164	16	Change "Chersich, M. F. et al., 2019b: Violence in hot weather: Will climate change exacerbate rates of violence in South Africa?, 447-449 pp." from report to generic type
Chapter 09: Africa	165	1	165	2	Add publisher location for "Clapp, C. and K. Pillay, 2017: Green Bonds and Climate Finance. In: Climate Finance [Markandya, A. and I. Galarraga (eds.)]. World Scientific, Singapore, pp. 79-105. ISBN 978-981-4641-80-7."
Chapter 09: Africa	165	10	165	11	Change "Closset, M., S. FEINDOUNO, P. Guillaumont and C. Simonet, 2017: A Physical Vulnerability to Climate Change Index: Which are the most vulnerable developing countries? HAL Open Science." from journal to generic
Chapter 09: Africa	166	38	166	39	Change "Coultas, M. and R. Iyer, 2020: Handwashing Compendium for Low Resource Settings: A Living Document. Institute of Development Studies, Brighton, UK." from report to generic and added location published.
Chapter 09: Africa	167	51	167	51	Add location published for "Darko, D. et al., 2019: The context and politics of decision making on large dams in Ghana: an overview, Manchester, UK." also changed it from report to manuscript type of reference
Chapter 09: Africa	169	23	169	24	Change "Ding, K., J. M. Gilligan and G. M. Hornberger, 2019: "Avoiding "day-zero": A Testbed for Evaluating Integrated Food-energy-water Management in Cape Town, South Africa. In: 2019 Winter Simulation Conference (WSC), National Harbor, MD, USA, IEEE, pp. 866-877, doi:10.1109/WSC40007.2019.9004889." from journal to conference paper,
Chapter 09: Africa	170	10	170	12	Provide volume and issue number for "Dosio, A. et al., 2019: What can we know about future precipitation in Africa? Robustness, significance and added value of projections from a large ensemble of regional climate models. Clim Dyn, 53(9), 5833-5858, doi:10.1007/s00382-019-04900-3."
Chapter 09: Africa	170	13	170	14	Provide volume and issue number, pages for "Dosio, A. et al., 2021: Projected future daily characteristics of African precipitation based on global (CMIP5, CMIP6) and regional (CORDEX, CORDEX-CORE) climate models. Clim Dyn, 57(11), 3135–3158, doi:10.1007/s00382-021-05859-w."
Chapter 09: Africa	171	8	171	8	Change "Duffy, M., 2012: The “One Water” Approach. Water Online, 6 pp." from report to generic type reference
Chapter 09: Africa	171	14	171	15	Add publisher location for "Duncombe, R., 2018: Digital Technologies for Agricultural and Rural Development in the Global South. Business and Economics, CAB International, Oxfordshire, UK, 160 pp. ISBN 978178693340."
Chapter 09: Africa	171	51	171	51	Add "Eyring, V., N. P. Gillett, K. M. Achuta Rao, R. Barimalala, M. Barreiro Parrillo, N. Bellouin, C. Cassou, P., J. Durack, Y. Kosaka, S. McGregor, S. Min, O. Morgenstern, Y. Sun, 2021, Human Influence on the Climate System. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Cambridge University Press. In Press."
Chapter 09: Africa	174	19	174	20	Add access date for "Fleifel, E., J. Martin and A. Khalid, 2019: Gender Specific Vulnerabilities to Water Insecurity. Available at: https://ic-sd.org/wp-content/uploads/2019/11/eliana-fleifel.pdf (accessed 30/10/2020)"
Chapter 09: Africa	174	53	174	54	Change "Evans, M. et al., 2020: Reconciling model predictions with low reported cases of COVID-19 in Sub-Saharan Africa: Insights from Madagascar. Global Health Action, 13(1), doi:10.1101/2020.07.15.20149195." from report to journal reference type
Chapter 09: Africa	174	56	174	57	Provide volume and issue number, pages for "Franke, J. A. et al., 2021: Agricultural breadbaskets shift poleward given adaptive farmer behavior under climate change. Global Change Biology, 28(1), 167-181, doi:https://doi.org/10.1111/gcb.15868"
Chapter 09: Africa	176	41	176	41	Provide volume and issue number, pages for "Golden, C. D. et al., 2021: Aquatic foods to nourish nations. Nature, 598(7880), 315-320, doi:10.1038/s41586-021-03917-1."
Chapter 09: Africa	177	21	177	23	Provide access date for "Government of Malawi, 2019: Malawi 2019 Floods Post Disaster Needs Assessment (PDNA), 106 pp. Available at: https://reliefweb.int/sites/reliefweb.int/files/resources/Malawi%202019%20Floods%20Post%20Disaster%20Needs%20Assessment%20Report.pdf (accessed 30/10/2020)"
Chapter 09: Africa	177	45	177	47	Provide access date for "Government of Somalia, 2018: Somalia Drought Impact and Needs Assessment (DINA) Vol. 2, 2, 180 pp. Available at: https://www.undp.org/content/undp/en/home/librarypage/climate-and-disaster-resilience-/somalia-drought-impact-and-needs-assessment.html (accessed 10 July 2021)"

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Chapter 09: Africa	182	30	182	32	Provide access date for "Huntjens, P. and K. Nachbar, 2015: Climate Change as a Threat Multiplier for Human Disaster and Conflict. The Hague Institute for Global Justice. Working Paper 9. Available at: http://www.thehagueinstituteforglobaljustice.org/working-paper-9 (accessed 30 October 2020)"
Chapter 09: Africa	184	15	184	15	Add "IPCC, 2019: Summary for Policymakers. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O.Pörtner,D.C.Roberts,V.Masson-Delmotte,P.Zhai,M.Tignor,E.Poloczanska,K.Mintenbeck,A.Alegría,M.Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. Cambridge University Press, In press
Chapter 09: Africa	185	25	185	28	Change from report to journal referene type "Kahn, M. E. et al., 2021: Long-term macroeconomic effects of climate change: A cross-country analysis. Energy Economics, 104, 105624, doi:https://doi.org/10.1016/j.eneco.2021.105624"
Chapter 09: Africa	185	55	185	57	Add access date for "Keeling, A., K. Dain and L. Hadley, 2012: Diabetes and Climate Change Report. International Diabetes Foundation (IDF), (IDF), I. D. F. Available at: https://www.idf.org/our-activities/advocacy-awareness/resources-and-tools/144:diabetes-and-climate-change-report.html (accessed 30/10/2020)."
Chapter 09: Africa	186	15	186	19	Add publisher location for "Kifani, S. et al., 2018: Chapter 8: Climate change impacts, vulnerabilities and adaptations: Eastern Central Atlantic marine fisheries [Barange, M., T. Bahri, M. Beveridge, K. Cochrane, S. Funge-Smith and F. Poulain (eds.)]. Impacts of Climate Change on Fisheries and Aquaculture: Synthesis of Current Knowledge, Adaptation and Mitigation Options, FAO Fisheries and Aquaculture, Rome, Italy, 159-183 pp. Available at: http://www.fao.org/3/i9705en/I9705EN.pdf (accessed 30/10/2020)"
Chapter 09: Africa	190	14	190	15	Change from report to generic reference type "Liwenga, E. et al., 2015: Climate related projections on future water resources and human adaptation in the Great Ruaha River Basin in Tanzania. University of Dar-es-salaam, Dar-es-salaam, Tanzania." Added publisher and publisher location
Chapter 09: Africa	190	61	190	62	Provide publisher location for "Lyon, B. and N. Vigaud, 2017: Unraveling East Africa's Climate Paradox. In: Climate Extremes [Wang, S. S., J. Yoon, C. C. Funk and R. R. Gillies (eds.)]. John Wiley & Sons, Inc, Washington, DC, pp. 265-281. ISBN 9781119068020"
Chapter 09: Africa	191	25	191	25	Change from report to book section reference type "Mafongoya, P. et al., 2019: Climate Change and Rapidly Evolving Pests and Diseases in Southern Africa. In: New Frontiers in Natural Resources Management in Africa [Ayuk, E. and N. Unuigbe (eds.)]. Springer, Cham, Switzerland AG, pp. 41-57. ISBN 978-3-030-11857-0."
Chapter 09: Africa	191	39	191	40	Add volume and issue number, pages for "Maire, E. et al., 2021: Micronutrient supply from global marine fisheries under climate change and overfishing. Current Biology, 31(18), 4132-4138.e4133, doi:https://doi.org/10.1016/j.cub.2021.06.067."
Chapter 09: Africa	192	39	192	40	Add publisher location for "Masters, G. and L. Norgrove, 2010: Climate change and invasive alien species. 1, CABI, Switzerland, 30 pp. Available at: https://www.cabi.org/Uploads/CABI/expertise/invasive-alien-species-working-paper.pdf."
Chapter 09: Africa	192	46	192	50	Change "Masullo, I., G. Larsen, L. Brown and L. Dougherty-Choux, 2015: "Direct Access" To Climate Finance: Lessons Learned By National Institutions. World Resources Institute, 1-32 pp. Available at: https://wriorg.s3.amazonaws.com/s3fs-public/22DIRECT_ACCESS_TO_CLIMATE_FINANCE_LESSONS_LEARNED_BY_NATIONAL_INSTITUTIONS.pdf (accessed 30/10/2020)" to report reference type
Chapter 09: Africa	193	52	193	53	Add volume and issue number, pages for "Mechler, R. et al., 2020: Loss and Damage and limits to adaptation: recent IPCC insights and implications for climate science and policy. Sustainability Science, 15(4), 1245–1251, doi:10.1007/s11625-020-00807-9."
Chapter 09: Africa	196	28	196	30	Add volume and issue number, pages for "Muringai, R. T., P. L. Mafongoya and R. Lottering, 2021: Climate Change and Variability Impacts on Sub-Saharan African Fisheries: A Review. Reviews in Fisheries Science & Aquaculture, 29(4), 706-720, doi:10.1080/23308249.2020.1867057."
Chapter 09: Africa	197	17	197	18	Provide publisher location for "Mvula, P. et al., 2014: Towards Defragmenting the Management System of Lake Chilwa Basin, Malawi. Defragmenting African Resource Management, vol. 1, LIT Verlag, Zurich, Switzerland. ISBN 978-3643903983"
Chapter 09: Africa	198	22	198	23	Change from report to journal article reference type "Ndoro, W., 2015: Heritage laws: Whose heritage are we protecting? South African Archaeological Bulletin, 70(202), 136–137, doi:10.3316/informit.750186185776460."
Chapter 09: Africa	199	37	199	39	Add publisher location for "Numbere, A. O., 2019: Mangrove Habitat Loss and the Need for the Establishment of Conservation and Protected Areas in the Niger Delta, Nigeria. In: Habitats of the World-Biodiversity and Threats [Musarella, C. M., A. C. Ortiz and R. Q. Canas (eds.)]. IntechOpen, London, UK, pp. 49-63. ISBN 978-1-78984-487-0"
Chapter 09: Africa	200	7	200	9	Amend editors of "Nyasimi, M. et al., 2018: Inclusion of Gender in Africa's Climate Change Policies and Strategies. In: Handbook of Climate Change Communication [Leal Filho, W., E. Manolas, A. Azul, U. Azeiteiro and H. McGhie (eds.)]. Springer, Cham, pp. 171-185. ISBN 978-3-319-69837-3."
Chapter 09: Africa	200	41	200	44	Add access date for "Obura, D. et al., 2017: Coral reef status report for the Western Indian Ocean. Global Coral Reef Monitoring Network (GCRMN)/International Coral Reef Initiative (ICRI). 144 pp. Available at: https://nairobiconvention.org/clearinghouse/sites/default/files/Coral%20reef%20status%20report%20for%20the%20Western%20Indian%20Ocean%20%282017%29.pdf (accessed 30/10/2020)"
Chapter 09: Africa	202	5	202	6	Provide journal name to "Onyekuru, A. N. and R. Marchant, 2014: Climate change impact and adaptation pathways for forest dependent livelihood systems in Nigeria. Africa Journal of Agricultural Research, 9(24), 1819-1832, doi:https://doi.org/DOI:10.5897/AJAR2013.8315."

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 09: Africa	202	45	202	47	Add access date for "Otzelberger, A., 2014: Tackling the Double Injustice of Climate Change and Gender Inequality. CARE Climate Change, CARE International. Available at: https://www.carefrance.org/ressources/themas/1/4442,CARE_COP20_Tackling-double-injustic.pdf (accessed 30/10/2020)"
Chapter 09: Africa	202	61	202	62	Provide publisher location for "Ozaki, M., 2016: Disaster Risk Financing in Bangladesh. ADB South Asia Working Paper Series, 46, Asian Development Bank, Metro Manila, Philippines. Available at: https://www.adb.org/sites/default/files/publication/198561/sawp-046.pdf"
Chapter 09: Africa	203	1	203	3	Add access date for "Ozor, N. and A. Nyambane, 2020: Nationally Determined Contributions Implementation Index and Tracking Tools for Africa. The Pan Africa Climate Justice Alliance (PACJA). Available at: https://www.pacja.org/docs/publications/NDC%20Implementation%20Report%20-final.pdf (accessed 10/07/2021)"
Chapter 09: Africa	203	30	203	32	Provide volume and issue number for "Parmar, A. et al., 2019: Exposure to air pollutants and heat stress among resource-poor women entrepreneurs in small-scale cassava processing. Environmental Monitoring and Assessment, 191(11), doi:10.1007/s10661-019-7811-7
Chapter 09: Africa	204	6	294	9	Add access date for "Paz, M., A. Avendaño, A. Caballero and V. Gozalo, 2015: Joining the dots of Informality and Climate Change: A Discussion Paper for Practitioners [Konrad Adenauer Foundation (ed.)]. 40 pp. Available at: https://www.kas.de/c/document_library/get_file?uuid=6139364e-b294-8198-153f-1cdf2f91f034&groupId=252038 (accessed 30/10/2020)"
Chapter 09: Africa	204	33	204	35	Edit author names for "Peyre, M. et al., 2015: A Systematic Scoping Study of the Socio-Economic Impact of Rift Valley Fever: Research Gaps and Needs. Zoonoses and Public Health, 62(5), 309-325, doi:10.1111/zph.12153."
Chapter 09: Africa	205	5	205	7	Add volume and issue number for "Poudel, S., S. Funakawa, H. Shinjo and B. Mishra, 2020: Understanding households' livelihood vulnerability to climate change in the Lamjung district of Nepal. Environment, Development and Sustainability, 22(6), doi:10.1007/s10668-019-00566-3."
Chapter 09: Africa	205	44	205	45	Add publisher location for "Ramin, B., 2009: Slums, climate change and human health in sub-Saharan Africa. Bulletin of the World Health Organization, 86, World Health Organization, Geneva, Switzerland, 886 pp."
Chapter 09: Africa	205	46	205	47	Provide publisher and publisher location for "Ramutsindela, M. and B. Büscher, 2019: Environmental Governance and the (Re-)Making of the African State. In: Oxford Research Encyclopedia of Politics. Oxford University Press, Oxford, UK. ISBN 9780190228637."
Chapter 09: Africa	206	12	206	13	Add volume and issue number, pages for "Rauner, S. et al., 2020a: Coal-exit health and environmental damage reductions outweigh economic impacts. Nature Climate Change, 10(4), 308-312, doi:10.1038/s41558-020-0728-x."
Chapter 09: Africa	206	14	206	15	Add volume and issue number, pages for "Rauner, S. et al., 2020b: Air quality co-benefits of ratcheting up the NDCs. Climatic Change, 163(3), 1481–1500, doi:10.1007/s10584-020-02699-1."
Chapter 09: Africa	206	33	206	35	Add publisher location for "Reid, H., 2014: Ecosystem-and community-based adaptation: learning from natural resource management. IIED Briefing Paper-International Institute for Environment and Development, IIED London, UK, 4 pp. Available at: http://pubs.iied.org/17243IIED."
Chapter 09: Africa	207	16	207	17	Provide access date for "Robilliard, A.-S., 2020: What's New About Income Inequality in Africa? Issue Brief, World Inequality Lab, Lab, W. I., 9 pp. Available at: https://wid.world/document/whats-new-about-income-inequality-in-africa/ (accessed 10/07/2020)"
Chapter 09: Africa	209	12	209	12	Provide volume and issue number, pages for "Savvidou, G. and A. Atteridge, 2021: Tracking adaptation finance in Africa. Climate Policy, 21(8), 1020-1036, doi:10.1080/14693062.2021.1978053."
Chapter 09: Africa	209	15	209	18	Provide publisher location for "Schaeffer, M. et al., 2013: Africa's Adaptation Gap Technical Report: Climate-change impacts, adaptation challenges and costs for Africa [Schaeffer, M., R. Munang, J. Andrews, S. Adams and C. Baxter (eds.)]. UNEP, Nairobi, Kenya, 58 pp. Available at: https://climateanalytics.org/media/schaeffer_et_al__2013__africao__s_a_daptation_gap_technical_report.pdf."
Chapter 09: Africa	210	62	210	63	Add author initials for "Shepherd, N., 2019: Making Sense of "Day Zero": Slow Catastrophes, Anthropocene Futures, and the Story of Cape Town's Water Crisis. Water, 11(9), 1744, doi:10.3390/w11091744."
Chapter 09: Africa	211	46	211	47	Provide volume and issue number, pages for "Simpson, N. P. et al., 2021a: Climate Change Literacy in Africa. Nature Climate Change, 11(11), 937–944, doi:10.1038/s41558-021-01171-x."
Chapter 09: Africa	212	6	212	7	Add volume and issue number, pages and doi for "Sitati, A. et al., 2021: Climate change adaptation in conflict-affected countries: A systematic assessment of evidence. Discover Sustainability, 2(1), 1-15, doi:10.1007/s43621-021-00052-9.
Chapter 09: Africa	212	16	212	17	Provide doi for "Sloan, S., B. Bertzky and W. F. Laurance, 2017: African development corridors intersect key protected areas. African Journal of Ecology, 55(1-7), doi:10.1111/aje.12377."
Chapter 09: Africa	212	59	212	62	Add publisher location for "Spencer, D., 2015: "TO PROTECT HER HONOUR" Child marriage in emergencies – the fatal confusion between protecting girls and sexual violence. Gender and Protection in Humanitarian Contexts: Critical Issues Series, CARE International UK, London, UK. Available at: https://insights.careinternational.org.uk/media/k2/attachments/CARE_Child-marriage-in-emergencies_2015.pdf."
Chapter 09: Africa	213	4	213	6	Add volume and issue number, pages for "Spinoni, J. et al., 2021: Global exposure of population and land-use to meteorological droughts under different Warming Levels and Shared Socioeconomic Pathways: A Coordinated Regional Climate Downscaling Experiment-based study. International Journal of Climatology, 41(15), 6825-6853, doi:https://doi.org/10.1002/joc.7302."
Chapter 09: Africa	215	6	215	6	New reference "Tanoue, M., Y. Hirabayashi and H. Ikeuchi, 2016: Global-scale river flood vulnerability in the last 50 years. Scientific Reports, 6(1), 36021, doi:10.1038/srep36021"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 09: Africa	215	20	215	21	Add access date for "Taylor, A. and C. Peter, 2014: Strengthening climate resilience in African cities: A framework for working with informality. Available at: https://media.africaportal.org/documents/CDKN_ACC_WP_final_web-res.pdf (accessed 30/10/2020).
Chapter 09: Africa	215	42	215	43	Add publisher and publisher location for "Tesfamariam, Y. and N. Zinyengere, 2017: Climate, Gender, and Ethnicity: A Study on Vulnerability and Adaptation of Eritrean Farmers. In: Beyond Agricultural Impacts [Zinyengere, N., T. F. Theodory, M. Gebreyes and C. I. Speranza (eds.)]. Academic Press, London, UK, pp. 169-191. ISBN 9780128126240."
Chapter 09: Africa	215	62	215	62	Provide volume and issue number, pages and Doi for "Thiery, W. et al., 2021: Intergenerational inequities in exposure to climate extremes. Science (New York, N.Y.), 374(6564), 158-160, doi:10.1126/science.abi7339.
Chapter 09: Africa	217	43	217	44	Add access date for "UN-Water, 2006: Gender, Water and Sanitation: A Policy Brief. Available at: https://www.unwater.org/publications/gender-water-sanitation-policy-brief/ (accessed 30/10/2020)."
Chapter 09: Africa	217	48	217	49	Add access date for "UNAIDS, 2020: UNAIDS data 2020. Joint United Nations Programme on HIV/AIDS (UNAIDS), 436 pp. Available at: https://www.unaids.org/sites/default/files/media_asset/2020_aids-data-book_en.pdf (accessed 10/07/2021)."
Chapter 09: Africa	217	60	217	62	Add access date for "UNDP, 2016: Climate Information & Early Warning Systems Communications Toolkit. UNDP Programme on Climate Information for Resilient Development in Africa, UNDP. Available at: https://www.adaptation-undp.org/sites/default/files/resources/communications-toolkit-v3.docx (accessed 8/07/2021)
Chapter 09: Africa	218	12	218	14	Add access date for "UNEP, 2015: Africa's Adaptation Gap 2: Bridiging the gap – mobilising resources - technical report [Schaeffer, M., F. Baarsch and R. Munang (eds.)]. United Nations Environment Programme, 67 pp. Available at: http://wedocs.unep.org/handle/20.500.11822/9092 (accessed 25/10/2020)"
Chapter 09: Africa	219	7	219	8	Add access date for "United Nations General Assembly, 2015: Transforming our world: the 2030 Agenda for Sustainable Development, New York, USA. Available at: https://sustainabledevelopment.un.org/post2015/transformingourworld (accessed 15/10/2015)
Chapter 09: Africa	219	30	219	30	Provide publisher location for "Van Der Ree, R., D. J. Smith and C. Grilo, 2015: Handbook of road ecology. John Wiley & Sons, West Sussex, UK. ISBN 978-1-118-56818-7."
Chapter 09: Africa	219	55	219	56	Add author initials for "Veettil, B. K. and U. Kamp, 2019: Global Disappearance of Tropical Mountain Glaciers: Observations, Causes, and Challenges. Geosciences, 9(5), 196, doi:10.3390/geosciences9050196."
Chapter 09: Africa	219	61	219	63	Provide access date for "Venema, H. D. and J. Temmer, 2017: Water supply and sanitation systems. Building a Climate-Resilient City, Prairie Climate Centre, International Institute for Sustainable Development (IISD) and the University of Winnipeg, 10 pp. Available at: https://www.iisd.org/library/building-climate-resilient-city-water-supply-and-sanitation-systems (accessed 15/10/2020)"
Chapter 09: Africa	221	5	221	6	Change "Wangui, E., 2018: Adaptation to Current and Future Climate in Pastoral Communities Across Africa. Oxford University Press, Oxford, UK." from report to generic reference type
Chapter 09: Africa	221	9	221	10	Change "Warren, M., 2019: Why Cyclone Idai is one of the Southern Hemisphere's most devastating storms. Available at: https://doi.org/10.1038/d41586-019-00981-6 (accessed 2019/03)." from journal article to electronic article
Chapter 09: Africa	221	13	221	15	Provide access data for "WASH Alliance International, 2015: Accelerating WASH in Ethiopia: Best practices from the 2011-2015 WASH Programme. Available at: https://wash-alliance.org/wp-content/uploads/sites/36/2016/08/Best-Practice-Etiopia.pdf (accessed 30/10/2020)."
Chapter 09: Africa	221	59	221	60	Add author initials for "Weston, P., R. Hong, C. Kaboré and C. A. Kull, 2015: Farmer-Managed Natural Regeneration Enhances Rural Livelihoods in Dryland West Africa. Environmental Management, 55(6), 1402-1417, doi:10.1007/s00267-015-0469-1."
Chapter 09: Africa	222	13	222	15	Provide publisher location for "WHO, 2015: Operational framework for building climate resilient health systems [World Health Organization (ed.)]. World Health Organisation, Geneva, Switzerland, 54 pp. Available at: https://apps.who.int/iris/bitstream/handle/10665/189951/9789241565073_eng.pdf."
Chapter 09: Africa	222	16	222	17	Provide access date for "WHO, 2016: El Niño and health. Global Report. World Health Organisation (WHO), Geneva, Switzerland. Available at: https://www.who.int/hac/crises/el-nino/who_el_nino_and_health_global_report_21jan2016.pdf (accessed 25/10/2020)"
Chapter 09: Africa	223	34	223	34	Provide publisher location for "World Bank, 2020b: Disability Inclusion in Nigeria: A Rapid Assessment. Social Analysis, World Bank, Washington, DC"
Chapter 09: Africa	223	49	223	51	Provide access date for "World Travel and Tourism Council, 2019b: The Economic Impact of Global Wildlife Tourism. Available at: https://travesiasdigital.com/wp-content/uploads/2019/08/The-Economic-Impact-of-Global-Wildlife-Tourism-Final-19.pdf (accessed 10/10/2020)"
Chapter 09: Africa	223	52	223	53	Provide access date for "WorldPop, 2021: Population density, University of Southampton. Available at: https://www.worldpop.org/project/categories?id=18 (accessed 15/07/2021)"
Chapter 09: Africa	224	49	224	52	Provide access date for "Zermoglio, F., S. J. Ryan and M. Swaim, 2019: Shifting burdens: malaria risk in a hotter Africa. Technical Report, United States Agency for International Development (USAID) and Adaptation Thought Leadership and Assessments (ATLAS). Available at: https://www.climatelinks.org/sites/default/files/asset/document/2019_USAID_ATLAS_Shifting%20Burdens.pdf (accessed 30/10/2020)."
Chapter 09 Supplementary Material	170		170		Delete the rows with the reference "Dibuola and Egondi" in table SM 9.7a
Chapter 09 Supplementary Material	212		212		Change the west and east Africa from rating of 3 to 4
Chapter 10: Asia	1	46	1	46	Remove Box 10.4

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 10: Asia	3	48	3	51	Replace "By mid-21st Century, the international transboundary river basins of Amu Darya, Indus, Ganges and inter-state Sabarmati river basin in India could face severe water scarcity challenges with climate change acting as a stress multiplier (high confidence)." by "By mid-21st Century, the international transboundary river basins of Amu Darya, Indus, Ganges could face severe water scarcity challenges due to climatic variability and changes acting as stress multipliers (high confidence)."
Chapter 10: Asia	4	5	4	7	remove the sentence: 'The glacier is likely2 to disappear by nearly 50% in High Mountain Asia and about 70% in Central and Western Asia by the end of the 21st century under the medium scenario, and more under the high scenario'.
Chapter 10: Asia	4	8	4	9	Replace "More glacier collapses and surges were found in western Tibet." by "More glacier collapses and surges were found in western Tibetan Plateau."
Chapter 10: Asia	7	9	7	10	Replace "The gross domestic product (GDP) per capita ranged from US$587 (Afghanistan) to US$81,585 (Macao, PRC) (IMF, 2018)." by "The gross domestic product (GDP) per capita ranged from US$587 (Afghanistan) to US$81,585 (Macao, SAR, PRC) (IMF, 2018)."
Chapter 10: Asia	12	18	12	18	Add footnote 2 at 'likely': '2 In this Report, the following terms have been used to indicate the assessed likelihood of an outcome or a result: Virtually certain 99–100% probability, Very likely 90–100%, Likely 66–100%, About as likely as not 33–66%, Unlikely 0–33%, Very unlikely 0–10%, and Exceptionally unlikely 0–1%. Additional terms (Extremely likely: 95–100%, More likely than not >50–100%, and Extremely unlikely 0–5%) may also be used when appropriate. Assessed likelihood is typeset in italics, e.g., very likely. This Report also uses the term 'likely range' to indicate that the assessed likelihood of an outcome lies within the 17-83% probability range.' In other words, move the footnote on page 4 to page 12.
Chapter 10: Asia	14	0	14	0	Figure 10.3: remove the national boundaries or sub region boundaries in this figure.
Chapter 10: Asia	14	7	14	9	Figure 10.3 caption: remove the sentence "The boundaries and names shown and the designations used on this map are for the ecoregions and do not imply official endorsement or acceptance by the United Nations."
Chapter 10: Asia	16	41	16	47	Replace "Despite this methodological disagreement on detection and attribution of migration due to climate change, there is medium evidence, medium agreement that higher warming and associated changes in frequency and intensity of slow- and rapid-onset events are expected to increase forced migration in the future, especially under less optimistic development pathways (Dasgupta et al., 2014a; Davis et al., 2018; Rigaud et al., 2018; Hauer et al., 2020) but its role is smaller than non-climatic socio-economic drivers of migration (Wodon et al., 2014; Adger et al., 2021)." by "Despite methodological disagreement on detection and attribution of migration due to climate change, there is medium confidence that higher warming and associated changes in frequency and intensity of slow-onset events (such as drought and sea level rise) and rapid-onset events (such as cyclones and flooding) will increase involuntary displacement in the future, especially under SSP3 and SSP4 pathways (Dasgupta et al., 2014a; Davis et al., 2018; Rigaud et al., 2018; Hauer et al., 2020). But its role is smaller than non-climatic socio-economic drivers of migration (Wodon et al., 2014; Adger et al., 2021)."
Chapter 10: Asia	34	30	34	30	replace "Behoi Sea" by "Bohai"
Chapter 10: Asia	37	48	37	50	Replace "By mid-21st Century, the international transboundary river basins of Amu Darya, Indus, Ganges could face severe water scarcity challenges with climate change acting as a stress multiplier (high confidence)" by "By mid-21st Century, the international transboundary river basins of Amu Darya, Indus, Ganges could face severe water scarcity challenges due to climatic variability and changes acting as stress multipliers (high confidence)."
Chapter 10: Asia	39	9	39	9	Add "The changes in snowmelt water can explain 19% of the variations in rivers of arid regions like Xinjiang, China (Bai et al., 2018) (medium confidence), and the 10.6% of the runoff of the upper Brahmaputra River was contributed by snow during 2003-2014 (Chen et al., 2017c) (medium confidence)." before "A recent study …"
Chapter 10: Asia	40	19	40	19	Add "The likely increased frequency of hazards caused by abnormal glacier changes, such as the glacier collapses happened on two glaciers in western Tibetan Plateau in 2016 (Kääb et al., 2018), and also surges which were frequently found in this vast region (e.g. Bhambri et al., 2017; Mukherjee et al., 2017; Ding et al., 2018), threatening the security of the local and down streaming societies (high confidence).The total amount and area of glacier lakes increased during last decade (Zhang et al., 2015; Chen et al., 2017c) (high confidence)." before "Himalayan rivers are frequently hit …"
Chapter 10: Asia	41	36	41	36	Add "Researchers have found that the southern Tibetan Plateau has been consistently melting from 1998-2007 and is projected to continue melting until 2050 (Lutz et al., 2014b) (high confidence)." before "In High Mountain Asia,"
Chapter 10: Asia	43	19	43	57	Remove Box 10.4
Chapter 10: Asia	59	7	59	9	Replace "Similarly, in Mumbai (India) SLR damages amount to US$49-50 billion by 2050 and could increase by a factor of 2.9 by 2070 (Abadie et al., 2020)." by "Similarly, in Mumbai (India) SLR damages amount to US$ 112-162 billion by 2050 and could increase by a factor of 2.8-2.9 by 2070 (Abadie et al., 2020)."
Chapter 10: Asia	60	18	60	19	Replace "By 2050, it is likely that 69% of fundamental human infrastructure in the Pan Arctic will be at risk (RCP 4.5 scenario),"by "By 2050, it is likely that 69% of fundamental human infrastructure in the Pan Arctic will be at risk (RCP 4.5 scenario)(medium confidence),"
Chapter 10: Asia	62	2	62	3	Figure 10.8: in the last column for Southeast Asia, with Kuala Lumpur as an example - replace the symbol for risk level reflects high risk for sea level with medium evidence (large circle, lighter purple) by the symbol of a hyphen (not applicable).
Chapter 10: Asia	66	21	66	23	replace "Case studies on urban EbA also raise equity concerns (medium evidence, medium agreement) such as interventions biasd towards suburban areas in Guangzhou (China) (Zhanqiang et al., 2019)' by "Case studies on urban EbA also raise equity concerns (medium evidence, medium agreement) such as interventions biased towards suburban areas in Haizhu District, Guangzhou (China) (Zhu et al., 2019)."

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 10: Asia	67	46	67	46	Replace "Byers et al. 2018" by "Michael et al. 2018". (Michael, K., Deshpande, T., & Ziervogel, G. (2018). Examining vulnerability in a dynamic urban setting: the case of Bangalore's interstate migrant waste pickers. Climate and Development, 1–12. https://doi.org/10.1080/17565529.2018.1531745)
Chapter 10: Asia	71	5	71	6	replace "Hong Kong, China (Chan et al., 2018)" by "Hong Kong SAR of China (Chan et al., 2018)"
Chapter 10: Asia	71	16	71	17	replace "Hong Kong, China" by "Hong Kong SAR of China"
Chapter 10: Asia	72	0	72	0	Figure 10.11: remove Taiwan
Chapter 10: Asia	105	11	105	13	remove the sentence: 'The glacier is likely to disappear by nearly 50% in High Mountain Asia and about 70% in Central and Western Asia by the end of the 21st century under the RCP4.5 scenario, and more under the RCP8.5 scenario'.
Chapter 11: Australasia	1	12	1	13	Change CA attribution for Blackett to 'New Zealand/United Kingdom'
Chapter 11: Australasia	1	13	1	14	Change CA attribution for Cradock-Henry to 'New Zealand/United Kingdom/Canada'
Chapter 11: Australasia	1	15	1	15	Change CA attribution for Di Luca to 'Canada /Argentina'
Chapter 11: Australasia	1	22	1	22	Change CA attribution for Ranasinghe to 'The Netherlands/Sri Lanka/Australia'
Chapter 11: Australasia	4	10	4	11	Replace "ongoing significant clean ice glacier retreat" with "ongoing glacier retreat"
Chapter 11: Australasia	4	11	4	14	For improved conisistency with WG1, replace "More droughts and extreme fire weather are projected in southern and eastern Australia (high confidence) and over most of New Zealand (medium confidence). Increased rainfall intensity is projected, with fewer tropical cyclones and a greater proportion of severe cyclones (medium confidence)" with "More extreme fire weather is projected in southern and eastern Australia (high confidence) and over northern and eastern New Zealand (medium confidence). Increased drought frequency is projected for southern and eastern Australia and northern New Zealand (medium confidence). Increased heavy rainfall intensity is projected, with fewer tropical cyclones and a greater proportion of severe cyclones (medium confidence)".
Chapter 11: Australasia	4	29	4	29	Add confidence statement 'very high confidence'
Chapter 11: Australasia	4	34	4	34	Add confidence statement 'high confidence' and replace comma with full stop
Chapter 11: Australasia	4	42	4	43	Add confidence statement 'high confidence'
Chapter 11: Australasia	4	47	4	47	Add confidence statement 'high confidence'
Chapter 11: Australasia	5	2	5	2	Add confidence statement 'high confidence'
Chapter 11: Australasia	5	7	5	7	Add confidence statement 'high confidence'
Chapter 11: Australasia	5	9	5	9	Add paragraph space
Chapter 11: Australasia	5	13	5	13	Add confidence statement 'high confidence'
Chapter 11: Australasia	5	20	5	20	Add confidence statement 'high confidence' and full stop
Chapter 11: Australasia	14	37	14	40	For improved consistency with WG1, replace "Winter and spring rainfall and soil moisture are projected to decrease with more droughts in southern Australia, increased extreme rainfall intensity, higher evaporation rates, decreased wind over southern mainland Australia, increased wind over Tasmania, and more extreme fire weather in southern and eastern Australia (high confidence)" with "Winter and spring rainfall and soil moisture are projected to decrease, with higher evaporation rates, decreased wind over southern mainland Australia, increased wind over Tasmania, and more extreme fire weather in southern and eastern Australia (high confidence). Heavy rainfall intensity is projected to increase, with more droughts over southern and eastern Australia (medium confidence)."
Chapter 11: Australasia	15	4	15	5	Replace "Fire weather is projected to increase in most areas, except for Taranaki-Manawatū, West Coast and Southland" with "Fire weather indices are projected to increase over northern and eastern New Zealand" for consistency with the Executive Summary
Chapter 11: Australasia	15	11	15	12	For improved consistency with WG1, replace "Extreme rainfall is projected" with "Heavy rainfall intensity is projected"
Chapter 11: Australasia	16	1	16	1	Fix reference to Clark, 2021 #2658 in the Fire row of Table 11.3a to "Clark, 2021"
Chapter 11: Australasia	35	14	35	14	Change 'decrease in density' to 'decreasing in density' in last row, second last paragraph under Examples column
Chapter 11: Australasia	35	26	35	26	Change "Mortality fish" to "Mortality of fish" in Table 11.6
Chapter 11: Australasia	36	14	36	14	Change 'predict' to 'predicted' in first row,second last paragraph under Examples column
Chapter 11: Australasia	37	14	37	14	Add the reference 'Stuart-Smith et al., 2018' to the last row (2016 marine heatwave)
Chapter 11: Australasia	37	14	37	14	Add the reference (Watson et al., 2018) to third row (increased temperature)
Chapter 11: Australasia	37	14	37	14	Add the references (Watson et al., 2018; McMahon et al., 2020) to second row (elevated CO2)
Chapter 11: Australasia	37	14	37	14	Delete the reference 'Stuart-Smith et al., 2018' from second last row
Chapter 11: Australasia	37	14	37	14	Delete the references (Watson et al., 2018; McMahon et al., 2020) (Watson et al., 2018) from first row (lowered pH)
Chapter 11: Australasia	43	28	43	28	Change reference to 'MfE and Stats NZ, 2021'
Chapter 11: Australasia	47	40	47	40	Delete Wang#1599 and Change "Wang et al., 2018a" to "Wang et al., 2018"
Chapter 11: Australasia	50	18	50	19	Delete "decreased fine root biomass of E. globulus (Quentin et al., 2015) and"
Chapter 11: Australasia	51	55	51	56	Change reference to 'MfE and Stats NZ, 2021'
Chapter 11: Australasia	52	2	52	2	Change reference to 'MfE and Stats NZ, 2021'
Chapter 11: Australasia	52	12	52	13	Change reference to 'MfE and Stats NZ, 2021'
Chapter 11: Australasia	53	33	53	33	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11: Australasia	53	37	53	37	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11: Australasia	54	19	54	19	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11: Australasia	54	52	54	52	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11: Australasia	55	32	55	32	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11: Australasia	61	16	61	16	delete 'and'
Chapter 11: Australasia	61	17	61	17	Add 'and vector-borne diseases (medium confidence).' after high confidence
Chapter 11: Australasia	61	31	61	31	Fix reference to Lai 2020
Chapter 11: Australasia	61	34	61	38	Delete paragraph
Chapter 11: Australasia	62	12	62	12	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11: Australasia	62	29	62	29	Insert full stop

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 11: Australasia	72	1	72	1	Change last row in Table 11.11 to a white background
Chapter 11: Australasia	74	8	74	8	replace "In Australia, extreme" with "Extreme"
Chapter 11: Australasia	79	16	83	1	In response to comments from Expert Reviewers of the SOD, we had underlined the headings "Consequences", "Hazards", "Exposure", "Vulnerability" and "Adaptation options" for each key risk in Table 11.14 to improve readability, but the underlining has disappeared. Underlined headings should be re-instated for each key risk. Also, replace "dairy production." with "dairy production,".
Chapter 11: Australasia	85	1	85	2	Figure 11.7 replaced with updated high resolution formatted figure
Chapter 11: Australasia	85	3	85	4	Change figure 11.7 cpation to: "Illustrative adaptation pathway for risk to natural and human systems in low-lying coastal areas in Australia and New Zealand due to sea-level rise"
Chapter 11: Australasia	85	6	85	7	Figure 11.8 replaced with updated high resolution formatted figure
Chapter 11: Australasia	86	40	86	40	replace "NESP ESCC, 2020" with "NESP ESCC, 2021"
Chapter 11: Australasia	87	32	87	32	Fix reference "Bendall, 2018 #413" to "Bendall 2018"
Chapter 11: Australasia	89	4	89	4	Local government row: change '39' to '66'
Chapter 11: Australasia	89	40	89	40	Add 'Douglas Shire Coast Strategic Plan 2019 {Douglas Shire Council, 2019 #2875} (https://douglas.qld.gov.au/download/resilient_coast/Resilient-Coast-Strategic-Plan.pdf' to the Queensland row
Chapter 11: Australasia	93	14	93	14	Fix reference for Boston 2018
Chapter 11: Australasia	133	57	133	57	Change reference to 'MfE and Stats NZ, 2021'
Chapter 11: Australasia	134	36	134	36	insert a new reference for "NESP ESCC, 2021: Informing strategic development of a national climate services capability for Australia. Earth Systems and Climate Change Hub Report No. 19. Earth Systems and Climate Change Hub, Australia. https://nespclimate.com.au/reports-books-and-book-chapters/escc-hub-ncsac-climate-services-report-3/"
Chapter 11: Australasia	146	48	146	48	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11 Supplementary Material	2	5	2	5	In the Vision column, replace "a national" with "A national"
Chapter 11 Supplementary Material	5	1	5	1	In the Victoria row, under the Vision column, fix line-wrapping format. In the Western Australia row, under the 2nd column, fix line-wrapping format.
Chapter 11 Supplementary Material	8	1	8	1	In Bay of Plenty row, delete repetition of "Climate Action Plan" in 2nd column
Chapter 11 Supplementary Material	11	1	11	1	Figure SM11.2b to be updated with a high resolution figure from the Working Group 1 Interactive Atlas
Chapter 11 Supplementary Material	13	4	13	4	In Table SM11.2c, in the Moderate to High Risk row, replace "impacts became" with "Impacts became"
Chapter 11 Supplementary Material	20	1	20	4	Indent dot points starting with "Every"
Chapter 11 Supplementary Material	21	1	21	1	Delete superfluous dot next to "structural options" and replace 'structural' with 'Structural'
Chapter 11 Supplementary Material	21	4	21	4	In Table SM11.2g, 3rd column, replace "new smart technologies" with "New smart technologies"
Chapter 11 Supplementary Material	22	1	22	1	In Table SM11.2g, 3rd column, replace "later pruning" with "Later pruning"
Chapter 11 Supplementary Material	24	1	24	1	In Table SM11.2g, 3rd column, replace "overcome to successful" with "overcome for successful"
Chapter 11 Supplementary Material	25	3	25	3	Replace "Tapper in Press" with "Tapper 2021" in colum 3
Chapter 11 Supplementary Material	26	1	26	1	Replace "Tapper in Press" with "Tapper 2021" in colum 3
Chapter 11 Supplementary Material	26	1	26	2	Delete superfluous dot next to "develop long term"
Chapter 11 Supplementary Material	27	1	27	1	Replace "Tapper in Press" with "Tapper 2021" in colum 3
Chapter 11 Supplementary Material	31	1	31	1	Replace "Tapper in Press" with "Tapper 2021" in colum 3
Chapter 11 Supplementary Material	33	1	33	1	Format reference "Tombs, 2018 #1539" to "Tombs and France-Hudson, 2018"
Chapter 11 Supplementary Material	40	31	40	31	Delete repetition of DOI in line 30
Chapter 11 Supplementary Material	41	57	41	57	Delete repetition of DOI in line 57
Chapter 11 Supplementary Material	43	59	43	59	Replace "Tapper in Press" with "Tapper 2021"
Chapter 11 Supplementary Material	44	59	44	59	Delete repetition of DOI in line 58
Chapter 11 Supplementary Material	45	8	45	8	Fix indentation
Chapter 12: Central and South America	22	40	22	40	Include parenthesis at the end of the line
Chapter 12: Central and South America	25	51	25	51	Replace " is amongst the richest biodiversity" by "is one of the most diverse savannah"
Chapter 12: Central and South America	30	3	30	3	Remove " ()" at the end of the sentence.
Chapter 12: Central and South America	30	20	30	20	Add "of" after "period"
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, NES, food, forestry: change from not assessed to high impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, NSA Food, permanent crops: change from not assessed to medium impact low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, NWS, poverty, livestock: change impact from low to medium
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, NWS, poverty, territory: change confidence from medium to high
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, cities, housing: change from high impact to not assessed
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, cities, mobility: change from medium impact medium confidence to not assessed
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, cities, urban land: change from not assessed to medium impact low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, cities, water supply: change from medium to high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, food, annual crop: change from high to low impact
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, food, forestry: change from low impact to not assessed
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, food, livestock: change from medium to low impact
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, health, labor productivity: change from low impact low confidence to not assessed
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, health, morbidity: change from medium impact medium confidence to high impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, human, conflicts: change from low impact high confidence to not assessed
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, human, migration: change from low impact high confidence to medium impact medium confidence

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Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, poverty, income: change from medium impact high confidence to low impact low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, poverty, livestock mortality: change from low impact medium confidence to medium impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, poverty, territory: change from not assessed to high impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, water, cryosphere: change high impact to not assessed
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SES, water, streamflow: change from medium to low impact; change from medium to low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, observed impacts, SSA, food, permanent crops: change by adding low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NES, food, forestry: change from not assessed to medium impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NES, food, livestock: change from high impact to medium impact
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NES, food, permanent crop: change from high impact to medium impact
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NES, water, streamflow: the assessment is medium impact medium confidence (color used was not clear)
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NSA, food, annual crop: change from not assessed to medium impact low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NSA, food, permanent crop: change from not assessed to medium impact low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NWS, poverty, income: change from not assessed to medium impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NWS, poverty, livestock: change from low impact to high impact; change from medium confidence to high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, NWS, poverty, territory: change from medium impact to high impact
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, cities, land use: change from not assessed to medium impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, cities, urban land: change from not assessed to medium impact low confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, cities, water: change from not assessed to medium impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, food, annual crops: change from not assessed to low impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, food, fisheries: change from not assessed to medium impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, food, permanent crops: change from not assessed to low impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, health, morbidity: change from low confidence to high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, health, mortality: change from not assessed to low impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, human, migration: change from not assessed to medium impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, poverty, livestock: change from not assessed to high impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, poverty, territory: change from not assessed to high impact high confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, water, aquifers: change from not assessed to low impact medium confidence
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, water, cryosphere: change from high impact high confidence to system not corresponding
Chapter 12: Central and South America	48	1	48	2	Figure 12.9, projected impacts, SES, water, streamflow: change from medium impact medium confidence to low impact low confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis observed impacts, NWS, population in poverty: change from low confidence to medium confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis observed impacts, SES, food: change from medium impact to low impact
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis observed impacts, SES, health: change from low impact to medium impact
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis observed impacts, SES, migration: change from low impact high confidence to medium impact low confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis observed impacts, SES, water: change from medium impact to low impact
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, NES, food: change from high impact medium confidence to medium impact high confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, NSA, food: change from high impact to medium impact
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, NWS, population: change from medium impact to high impact
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, SES, cities: change from not assessed to medium impact medium confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, SES, food: change from medium confidence to high confidence

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Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, SES, health: change from not assessed to medium impact medium confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, SES, migration: change from not assessed to medium impact low confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, SES, population in poverty: change from not assessed to high impact high confidence
Chapter 12: Central and South America	48	10	48	11	Figure 12.10, synthesis projected impacts, SES, water: change from high impact to low impact
Chapter 12: Central and South America	65	33	65	33	Replace "depletion" by "loss"
Chapter 12: Central and South America	65	51	65	51	Replace " more temperate part of South America in the south " by "temperate southern most region of South America"
Chapter 12: Central and South America	66	46	66	46	Delete: "in this task"
Chapter 12: Central and South America	90		90		6. Risk of large-scale changes and biome shifts in the Amazon: T&F wtaer ecosystems, Please remove the repeated phrase: "and restoration"
Chapter 12: Central and South America	96	15	96	15	Remove double parentheses in Kern et al. (2019))
Chapter 12 Supplementary Material	13	1		1	must say Impacts instead of Ompacts
Chapter 13: Europe	3	7	3	8	Impacts of compound hazards of warming and precipitation have become more frequent (medium confidence). (added: "impacts of")
Chapter 13: Europe	10	1	10	1	Figure 13.3: New footnote 1 for NEU projected mean precipitation at 1.5C & 4C GWL: (1) For December, January, February New footnote 2 for SEU projected mean precipitation at 1.5C GWL: (2) For June, July, August Renumbered original footnotes: 1-4 become 3-6 Change title of climate impact driver 'Relative sea level rise and coastal flooding' to 'Sea level rise driven coastal flooding'
Chapter 13: Europe	11	1	11	1	Figure 13.4 Background map projections of climate impact drivers corrected for consistency with WGI Atlas, for all panels Figure caption modified to: Changes in climate hazards for global warming levels of 1.5ºC and 3ºC based on the CMIP6 ensemble (Gutiérrez et al., 2021) with respect to the baseline period 1995-2014, combined with information on present exposure or vulnerability (replaced "baseline" by "ensemble", added "with respect to the baseline period 1995-2014" and "combined with information on")
Chapter 13: Europe	14	1	14	1	Figure Box 13.1.1 In panel (b) 11.5 months is corrected to 10.5 months
Chapter 13: Europe	17	1	17	1	Figure 13.5 Panels (b) and (c) replaced with correct data
Chapter 13: Europe	19	8	19	9	Figure 13.6 In original footnotes 1-6, footnote 4 removed. Footnotes renumbered 1-5. Incorrect placement of footnotes corrected in several places
Chapter 13: Europe	48	1	48	1	Table 13.1 Assessment of cities' implementation changed from low to advancing adaptation; Assessment of energy implementation 'Measures undertaken by some distribution system operators and energy companies, focus on adaptation of transmission lines, water cooling, actions to avoid flooding (e.g. dams) and secure fuel supply changed from advancing to low adaptation
Chapter 13: Europe	70	20	70	21	Figure 13.28 Two dots were added in correspondence to the first transition of the burning ember "Delayed risks for cultural heritage and long-living infrastructures" Burning ember for Delayed risks for the cultural heritage and long-living infrastructure updated to reflect changes in Figure 13.32 (this is requested not yet implemented)
Chapter 13: Europe	75	1	75	1	Figure 13.31 Footnote vi text was replaced with: Under high global warming a large portfolio of measures is needed to reduce risk to water scarcity sufficiently, and this may not be able to avoid water shortage (dashed lines) (**).
Chapter 13: Europe	76	26	77	1	Figure 13.32 Panel (b) a green line (no-build zones) has been added starting from the transition node just before iii. to the transition node directly above. Panel (c) Burning ember for Delayed risks for the cultural heritage and long-living infrastructure updated Panel (d) lines have been added to connect Ecosystem-based and Wet and dry proofing with the uppermost lines and bottommost lines. Lines have also been added going down from the uppermost pathways to the last transition node on the planned relocation. A line to connect wet and dry proofing has been added to connect with first transition node on planned relocation. Retention and diversion has been removed. A dotted line for Flood insurance has been added to lines just above ii.
Chapter 13 Supplementary Material	2	5	10	1	Table SM13.1 Deletion of the column "References" as this was redundant information because all references are listed in the following columns by category.
Chapter 13 Supplementary Material	46	1	46	1	Table SM13.16 "Wet-bulb temperature below 2°C is needed for snowmaking." is corrected ("below 2°C" added)
Chapter 13 Supplementary Material	52	1	54	1	Table SM13.23 By mistake, all references to the table were listed in each row. Editing of the references listed by row (deletion of references so that the reference number is as stated in Figure 13.33).

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Chapter 13 Supplementary Material	58	1	60	1	Table SM13.25 The first transition for the health risk is 0.7-1.0 and not 0.73-0.85. Also, for the transition with high adaptation, it is now 0.7-1.0. The range does not reflect the warming between 1995-2014 but the assessment is based on the literature of attribution, which is reported in that box.
Chapter 13 Supplementary Material	71	3	72	2	Table SM13.30 Change column title from 'Level of risks due to coastal with low adaptation…' to 'Level of risks to coastal with low to medium adaptation…'
Chapter 14: North America	1	16	1	16	Change Alejandro Monterrosso to Alejandro Monterroso
Chapter 15: Small Islands	3	7	3	7	change the growing impacts of tropical cyclones to a larger proportion of the most intense topical cyclones (TCs)
Chapter 15: Small Islands	4	17	4	18	A 5–10-cm additional SLR (expected for ~2030–2050) should be changed to " The projected estimates in SLR for 2050, compared to 1994-2014 varies from 18-24 cm and in a worst case could be 15-40 cm, which will double flooding etc.
Chapter 15: Small Islands	4	47	5	2	The continued degradation of terrestrial and marine ecosystems of small islands due to human activities will amplify the vulnerability of island peoples to climate change impacts (high confidence). New studies highlight large population reductions with an extinction risk of 100% for endemic species within insular biodiversity hotspots including within the Caribbean, Pacific and Sundaland regions by 2100 for > 3°C warming. Ecosystem degradation is likely to decrease the provision of resources to the millions of people inhabiting small islands, resulting in impacts upon settlements and infrastructure, food and water security, health, economies, culture, and migration (high confidence). {ESCh15}
Chapter 15: Small Islands	5	39	5	44	change loss and damage to losses and damages
Chapter 15: Small Islands	7	4	7	4	change loss and damage to losses and damages
Chapter 15: Small Islands	24	26	24	26	change loss and damage to losses and damages
Chapter 15: Small Islands	27	39	27	39	change loss and damage to losses and damages
Chapter 15: Small Islands	31	50	31	50	change loss and damage to losses and damages
Chapter 15: Small Islands	33	28	33	28	change loss and damage to losses and damages
Chapter 15: Small Islands	34	14	34	14	change loss and damage to losses and damages
Chapter 15: Small Islands	34	16	34	16	change loss and damage to losses and damages have a range of conceptualisations (Section 1.4.4.2; Cross-Chapter Box LOSS in Chapter 17) and are a critical issue for many small islands
Chapter 15: Small Islands	34	20	34	47	change loss and damage to losses and damages
Chapter 15: Small Islands	34	23	34	23	should be losses and damages have
Chapter 15: Small Islands	34	34	34	34	should be losses and damages currently present
Chapter 15: Small Islands	37	14	37	15	change loss and damage to losses and damages
Chapter 15: Small Islands	39	48	39	48	change loss and damage to losses and damages
Chapter 15: Small Islands	48	41	48	41	change loss and damage to losses and damages
Chapter 15: Small Islands	75		75		change loss and damage to losses and damages
Chapter 15: Small Islands	76		76		change loss and damage to losses and damages
Chapter 16: Key risks across sectors and regions	3	24	3	24	Change "long term" to "long-term"
Chapter 16: Key risks across sectors and regions	4	6	4	6	Delete "Table SM16.21"
Chapter 16: Key risks across sectors and regions	5	39	5	39	Change "over 130 Key Risks" to "over 120 Key Risks"
Chapter 16: Key risks across sectors and regions	5	51	5	51	replace "intermediary climate scenarios" with "outcomes for scenarios between RCPs 2.6 and 8.5"
Chapter 16: Key risks across sectors and regions	5	57	6	2	change text "Under these conditions there would be severe and pervasive risks to critical infrastructure and to human health from heat-related mortality (high confidence), to low-lying coastal areas, aggregate economic output, and livelihoods (all medium confidence)," to "Under these conditions there would be severe and pervasive risks to critical infrastructure (high confidence), to human health from heat-related mortality, low-lying coastal areas, aggregate economic output, and livelihoods (all medium confidence),…"
Chapter 16: Key risks across sectors and regions	7	4	7	4	After "CO2 scenario" add "(high confidence)"
Chapter 16: Key risks across sectors and regions	7	53	7	53	replace (low confidence) with (medium confidence)
Chapter 16: Key risks across sectors and regions	8	10	8	10	replace "(medium confidence for RFC2 and RFC3, low confidence for RFC4 and RFC5). " with "(medium confidence for RFC2, RFC3 and RFC4, low confidence for RFC5). "
Chapter 16: Key risks across sectors and regions	14	55	14	55	Change "Synthesis of Observed Impacts" to "Synthesis of observed impacts of observed changes in climate-realted systems"
Chapter 16: Key risks across sectors and regions	15	6	15	6	Change "climate induced changes in growing seasons to growing seasons…" to "climate induced changes in growing seasons…"
Chapter 16: Key risks across sectors and regions	15	8	15	8	Change "However, this decision…." to "This decision…"
Chapter 16: Key risks across sectors and regions	15	14	15	14	Change "assessment of observed impacts" to "assessment of observed impacts of changes in climate related systems"
Chapter 16: Key risks across sectors and regions	15	16			"So 'no assessment' in a certain region does not apply the considered type of impact did not occur in this region." has to be changed to "So 'no assessment' in a certain region does not imply that the considered type of impact did not occur in this region."
Chapter 16: Key risks across sectors and regions	15	16	15	16	Change "apply" to "imply that"
Chapter 16: Key risks across sectors and regions	15	23	15	13	Change "change or a specific event" to "long-term change in an impact indicator or of the change in the temporal or spatial extent, the intensity or frequency of a specific event"

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Chapter 16: Key risks across sectors and regions	15	34	15	34	Change "...land use patterns, agricultural..." to "...land use patterns and agricultural..."
Chapter 16: Key risks across sectors and regions	15	36	15	36	Change "...counterfactual)." to "... couternfactual baseline)."
Chapter 16: Key risks across sectors and regions	15	56	15	56	Change "could e.g.,..." to "could, e.g.,..."
Chapter 16: Key risks across sectors and regions	16	5	16	5	Change "...detection and attribution are consecutive steps" to "detection and attribution usually are consecutive steps"
Chapter 16: Key risks across sectors and regions	16	29	16	29	Change "one dimensional" to "one-dimensional"
Chapter 16: Key risks across sectors and regions	16	34	16	34	Change "long-term climate change" to "long-term changes in the climate-related systems"
Chapter 16: Key risks across sectors and regions	16	36	16	36	WGI AR6 Chapter 11 Seneviratne et al., 2021 Is that the correct way to refer to the chapter? May have to be adjusted.
Chapter 16: Key risks across sectors and regions	16	44	16	44	Change "climate e.g. derived" to "climate, e.g., derived"
Chapter 16: Key risks across sectors and regions	16	49	16	49	Add bracket before e.g.: "observed climate (e.g.,Abatzoglou and Williams (2016) for changes in the extent of forest fires or Diffenbaugh and Burke (2019) for effects on economic inequality)."
Chapter 16: Key risks across sectors and regions	16	51	16	51	Add bracket before e.g.: "...forcings (e.g., Kirchmeier-Young et al. (2019b) for the extent of forest fires).
Chapter 16: Key risks across sectors and regions	16	53	16	53	Add comma befire e.g.: "...by, e.g., reproducing...."
Chapter 16: Key risks across sectors and regions	17	8	17	8	Change "long term" to "long-term"
Chapter 16: Key risks across sectors and regions	17	13	17	13	Change "explicitly account" to "explicitly accounts"
Chapter 16: Key risks across sectors and regions	17	17	17	17	Change "Wang and Hijmans (2019), separating effects..." to "Wang and Hijmans (2019) separating effects..."
Chapter 16: Key risks across sectors and regions	17	28	17	28	Change "identification for relevant literature" to "identification of relevant literature"
Chapter 16: Key risks across sectors and regions	17	31	17	31	Change "16.2.3 Observed Impacts" to "16.2.3 Observed Impacts of changes in climate-related systems"
Chapter 16: Key risks across sectors and regions	17	33	17	33	Change "synthesize observed impacts" to "synthesize observed impacts of changes in climate-related systems"
Chapter 16: Key risks across sectors and regions	17	38	17	38	Change Table 16.B.1, 16.B.2. and 16.B.3 to SM16.21, SM16.22, SM16.23
Chapter 16: Key risks across sectors and regions	17	45	17	45	Change "(e.g., Phenology shifts in terrestrial ecosystems)" to "(e.g., phenology shifts in terrestrial ecosystems)"
Chapter 16: Key risks across sectors and regions	17	48	17	48	Change "impacts attribution" to "impact attribution"
Chapter 16: Key risks across sectors and regions	17	49	17	50	Change "...only limited evidence on impacts of long-term climate change but rather addressed the system's responses to short term weather fluctuations." to "...only limited evidence on impacts of long-term changes in climate-related systems but rather addressed the responses of natural, human, or managed systems to short-term fluctuations in the climate-related ones."
Chapter 16: Key risks across sectors and regions	18	3	18	7	Change "Another example of an abrupt change in an ecosystem triggered by a climate extreme is the shift from kelp- to urchin-dominated communities along parts of the Western North America coast due a marine heatwave (Rogers-Bennett and Catton, 2019; McPherson et al., 2021, see 'Marine ecosystems - Kelp forest', Table SM16.22) where anthropogenic climate forcing has been shown to have increased the probability for an event of that duration by at least a factor of 33 (Laufkötter et al., 2020)." to "Another example of an abrupt change in an ecosystem triggered by a climate extreme is the shift from kelp- to urchin-dominated communities along parts of the Western North America coast (Rogers-Bennett and Catton, 2019; McPherson et al., 2021, see 'Marine ecosystems - Kelp forest', Table SM16.22). The loss of kelp forests was induced by a marine heatwave where anthropogenic climate forcing has been shown to have increased the probability for an event of that duration by at least a factor of 33 (Laufkötter et al., 2020)."
Chapter 16: Key risks across sectors and regions	18	20	18	20	Add 'the': "and the invasion"
Chapter 16: Key risks across sectors and regions	18	39	18	40	Change "(Sauer et al., 2021, see 'Water distribution: Flood-induced economic damages', Table 16.2)" to "(Sauer et al., 2021, see 'Water distribution - Flood-induced economic damages', Table SM16.22)"
Chapter 16: Key risks across sectors and regions	18	40	18	40	Delete "see 'Water distribution: Flood-induced economic damages', Table 16.2)" as it is included twice.
Chapter 16: Key risks across sectors and regions	18	46	18	47	Change "(see 'Water distribution - Reductions in water availability + induced damages and fatalities, Table SM16.23)" to "(see 'Water distribution - Reductions in water availability + induced damages and fatalities', Table SM16.23)"
Chapter 16: Key risks across sectors and regions	18	47	18	47	Change "(see 'Food system - Malnutrition, Table SM16.23)" to "(see 'Food system - Malnutrition', Table SM16.23)"
Chapter 16: Key risks across sectors and regions	18	49	18	49	Change "(medium confidence), ('Atmosphere - Droughts, Table SM16.21)" to "(medium confidence) (see 'Atmosphere - Droughts', Table SM16.21)"
Chapter 16: Key risks across sectors and regions	18	53	18	53	Change "'Water distribution - Reductions in water availability + induced damages and fatalities, Table SM16.23." to "'Water distribution - Reductions in water availability + induced damages and fatalities', Table SM16.23."
Chapter 16: Key risks across sectors and regions	19	4	19	4	Change "(see 'Coastal systems: Tropical cyclones', Table SM16.21)" to "(see 'Coastal system - Tropical cyclone activity', Table SM16.21)."

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Chapter 16: Key risks across sectors and regions	19	8	19	10	Change "(Risser and Wehner, 2017; Van Oldenborgh et al., 2017; Wang et al., 2018) for hurricane Harvey in 2017 (Patricola and Wehner, 2018) and for hurricanes Katrina in 2005, Irma in 2017, and Maria in 2017 (see 'Atmosphere - Heavy precipitation', Table SM16.21)." to "(Risser and Wehner, 2017; Van Oldenborgh et al., 2017; Wang et al., 2018 for hurricane Harvey in 2017 and Patricola and Wehner, 2018 for hurricane Katrina in 2005, Irma in 2017, and Maria in 2017, see 'Atmosphere - Heavy precipitation', Table SM16.21)."
Chapter 16: Key risks across sectors and regions	19	17	19	18	Change "(Strauss et al. (2021), contribution of anthropogenic SLR to damages induced by hurricane Sandy; Wehner and Sampson (2021), contribution increased precipitation to damages induced by hurricane Harvey)" to "(Strauss et al., 2021 for the contribution of anthropogenic SLR to damages induced by hurricane Sandy; Wehner and Sampson, 2021 for the contribution increased precipitation to damages induced by hurricane Harvey)"
Chapter 16: Key risks across sectors and regions	19	42	19	42	Change "have be overcome" to "have been overcome"
Chapter 16: Key risks across sectors and regions	19	48	19	48	Change "(Hochman et al., 2017; Sultan et al., 2019) based on detailed process-based modelling including a dedicated evaluation against observed yield fluctuations)" to "(Hochman et al., 2017; Sultan et al., 2019 based on detailed process-based modelling including a dedicated evaluation against observed yield fluctuations)."
Chapter 16: Key risks across sectors and regions	20	14	20	14	Change "the study" to "the analysis"
Chapter 16: Key risks across sectors and regions	20	15	20	17	Change list of references to: "(South-East Asia: Dang et al., 2016; Ingole et al., 2017; Mazdiyasni et al., 2017; South Africa: Wichmann, 2017, Scovronick et al., 2018; the Middle East: Alahmad et al., 2019, Gholampour et al., 2019; and Latin America: Péres et al., 2020)."
Chapter 16: Key risks across sectors and regions	20	27	20	27	Add 2021: Vicedo-Cabrera et al. 2021
Chapter 16: Key risks across sectors and regions	20	30	20	30	Change "heat waves" to "heatwave"? Not sure whether that is harmonized across the entire chapter, report?
Chapter 16: Key risks across sectors and regions	20	41	20	41	Change "waterborne" to "water-borne"
Chapter 16: Key risks across sectors and regions	20	53	20	53	Change "waterborne" to "water-borne"
Chapter 16: Key risks across sectors and regions	20	55	20	55	Change "waterborne" to "water-borne"
Chapter 16: Key risks across sectors and regions	20	57	20	57	Change 'water management project' to 'water management projects'
Chapter 16: Key risks across sectors and regions	21	1	21	1	Change "waterborne" to "water-borne"
Chapter 16: Key risks across sectors and regions	21	4	21	4	Change "waterborne" to "water-borne"
Chapter 16: Key risks across sectors and regions	21	6	21	6	Change "waterborne" to "water-borne"
Chapter 16: Key risks across sectors and regions	21	10	21	10	Change "heat waves" to "heatwave"? Not sure whether that is harmonized across the entire chapter, report?
Chapter 16: Key risks across sectors and regions	21	17	21	17	delete "documentation of cases in"
Chapter 16: Key risks across sectors and regions	21	22	21	22	Delete second bracket: "(…Lowe et al., 2021))" to "(…Lowe et al., 2021)"
Chapter 16: Key risks across sectors and regions	21	25	21	25	Change "has been shown to sensitive" to "has been shown to be sensitive"
Chapter 16: Key risks across sectors and regions	21	42	21	43	Change "(high confidence, (Kugeler et al., 2015; McPherson et al., 2017; Lin et al., 2019; Couper et al., 2020, see 'Other societal impacts - Vector-borne diseases', Table SM16.22)." to "(high confidence, Kugeler et al., 2015; McPherson et al., 2017; Lin et al., 2019; Couper et al., 2020, see 'Other societal impacts - Vector-borne diseases', Table SM16.22)."
Chapter 16: Key risks across sectors and regions	21	46	21	46	Change "(medium confidence) (Medlock et al., 2013; Paz et al., 2013; Roiz et al., 2015; ECDC, 2018, see 'Other societal impacts - Vector-borne diseases', Table SM16.22)." to "(medium confidence, Medlock et al., 2013; Paz et al., 2013; Roiz et al., 2015; ECDC, 2018, see 'Other societal impacts - Vector-borne diseases', Table SM16.22)."
Chapter 16: Key risks across sectors and regions	21	55	21	56	Change "(..., see 'Water distribution - Reductions in water availability + induced damages and fatalities, Table SM16.23, and 'Water distribution - Flood-induced economic damages, Table SM16.22)" to (..., see 'Water distribution - Reductions in water availability + induced damages and fatalities', Table SM16.23, and 'Water distribution - Flood-induced economic damages', Table SM16.22)
Chapter 16: Key risks across sectors and regions	22	1	22	1	Change "as well as long-term" to "as well as in the long-term"
Chapter 16: Key risks across sectors and regions	22	6	22	6	Adjust "between country inequality" to "between-country inequality". Has to be done throughout the section, including the label of the Symbol in Figure 16.2 and the subheading in Table SM16.22 und SM16.23
Chapter 16: Key risks across sectors and regions	22	7	22	7	Adjust "within country inequality" to "within-country inequality" throughout the section, including the label of the symbol in Figure 16.2 and the subheading in Table SM16.22 und SM16.2
Chapter 16: Key risks across sectors and regions	22	9	22	9	Change "Between country inequality" to "Within-country inequality"
Chapter 16: Key risks across sectors and regions	22	15	22	15	Change "long term" to "long-term"
Chapter 16: Key risks across sectors and regions	22	18	22	18	Delete "extremes to anthropogenic forcing"

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Chapter 16: Key risks across sectors and regions	22	21	22	22	Change "long term" to "long-term"
Chapter 16: Key risks across sectors and regions	22	42	22	42	Change "(see 'Other societal impacts - Social conflict' in Table SM16.23)" to "(see 'Other societal impacts - Social conflict', Table SM16.23)"
Chapter 16: Key risks across sectors and regions	23	7	23	7	Change "examples for displacement" to "examples of displacement"
Chapter 16: Key risks across sectors and regions	23	16	23	16	Change "in the absence of the climate event" to "in the absence of climate change"
Chapter 16: Key risks across sectors and regions	23	22	23	22	Change "(see 'Other societal impacts- Displacement and migration' in Table SM16.23)" to "(see 'Other societal impacts- Displacement and migration', Table SM16.23)."
Chapter 16: Key risks across sectors and regions	23	25	23	25	Add a blank between '2017' and 'for': Beine and Parsons, 2017 for
Chapter 16: Key risks across sectors and regions	23	43			The section "16.2.3.11 Case study on climate change and the outbreak of the Syrian civil war" should be included as a box.
Chapter 16: Key risks across sectors and regions	24	38	24	38	Change "show high level" to "show a high level"
Chapter 16: Key risks across sectors and regions	24		24		Figure 16.2: Change 'Coastal system' to 'Coastal systems'
Chapter 16: Key risks across sectors and regions	24		24		Figure 16.2: Change 'Marine ecosystem' to 'Marine ecosystems'
Chapter 16: Key risks across sectors and regions	24		24		Figure 16.2: Change 'Terrestrial ecosystem' to 'Terrestrial ecosystems'
Chapter 16: Key risks across sectors and regions	25	2			The caption "Figure 16.2: Impact of Climate Change or Weather Fluctuations". Should be deleted as it already appears in the Figure.
Chapter 16: Key risks across sectors and regions	25		25		Figure 16.2: Change "water-born" and "vector-born" to "water-borne" and "vector-borne"
Chapter 16: Key risks across sectors and regions	25		25		Figure 16.2: Change Table 16.B.1, 16.B.2 and 16.B.3 to Table SM16.21, SM16.22 and SM16.23 wherever it occurs
Chapter 16: Key risks across sectors and regions	41	1	41	1	Figure Cross-Chapter Box INTEREG.1: In the box labeled "Total global effect", the sentence "-2.5% of industrial production" was deleted because of insufficient evidence.
Chapter 16: Key risks across sectors and regions	42	Table 2nd row, 4th column	42	Table 2nd row, 4th column	in the cell for RFC4, replace "2.5–4.5ºC (low confidence)" with "2.5–4.5ºC (medium confidence)"
Chapter 16: Key risks across sectors and regions	45	31	31	31	replace "loss and damage" with "Loss and Damage"
Chapter 16: Key risks across sectors and regions	46	37	37	37	replace "loss and damage" with "losses and damages"
Chapter 16: Key risks across sectors and regions	56	45	56	45	Insert blank line before this line
Chapter 16: Key risks across sectors and regions	56	48	56	48	Insert blank line before this line
Chapter 16: Key risks across sectors and regions	56	50	56	50	Insert blank line before this line
Chapter 16: Key risks across sectors and regions	57	22	57	22	Change "130 key risks" to "120 key risks"
Chapter 16: Key risks across sectors and regions	59	12	59	13	replace "intermediary climate scenarios" with "outcomes for scenarios between RCPs 2.6 and 8.5"
Chapter 16: Key risks across sectors and regions	62	40	62	40	replace "Table 16.2" with "Table SM16.22"
Chapter 16: Key risks across sectors and regions	62	47	62	47	replace "Table 16.2" with "Table SM16.22"
Chapter 16: Key risks across sectors and regions	62	52	52	52	replace "loss and damage" with "losses and damages"
Chapter 16: Key risks across sectors and regions	63	17	63	17	replace "Chapter 2 Table 2.S.4," with "Chapter 2 Table SM2.5, "
Chapter 16: Key risks across sectors and regions	63	19	19	19	replace "loss and damage" with "losses and damages"
Chapter 16: Key risks across sectors and regions	66	23	66	23	change "without change" to "without climate change"
Chapter 16: Key risks across sectors and regions	67	42	67	42	delete ", or 2-5% over the current background rate"; text is not relevant to this section and should be removed to avoid confusion.
Chapter 16: Key risks across sectors and regions	67	53	67	53	change "(high confidence)" to "(medium confidence)"; incorrect confidence level was recorded in the final draft
Chapter 16: Key risks across sectors and regions	67	54	67	54	change "2-7/10,000/yr" to "7/10,000/yr"
Chapter 16: Key risks across sectors and regions	67	57	68	1	change "every population of the world" to "most populations of the world"
Chapter 16: Key risks across sectors and regions	68	1	68	1	change "proportion of deaths" to "percentage of deaths"

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Chapter 16: Key risks across sectors and regions	68	2	68	2	after "the end of this century (RCP8.5)", insert text "(Vicedo-Cabrera, 2018a;Gasparrini, 2017)"; these two citations were mistakenly left out of the final draft; reference information is already in the final draft reference list.
Chapter 16: Key risks across sectors and regions	68	23	68	23	change "Colon-Gonzalez et al., 2018" to "Colon-Gonzalez et al., 2021"
Chapter 16: Key risks across sectors and regions	68	28	68	28	change "Colon-Gonzalez et al., 2018" to "Colon-Gonzalez et al., 2021"
Chapter 16: Key risks across sectors and regions	69	6	69	8	delete text "This RKR includes (i) mortality from heat, and morbidity and mortality from (ii) vector-borne diseases and (iii) waterborne diseases. It builds on KRs identified primarily in Chapter 7 and health risks in regional chapters."; it is the text that occurs at the start of this section and is mistakenly repeated here
Chapter 16: Key risks across sectors and regions	71	18	71	19	replace "children under 5 years" with "children under 15 years"
Chapter 16: Key risks across sectors and regions	74	6	74	7	in figure 16.10, the confidence level for the key risk on heat-related mortality (within Human Health RKR) should be medium, not high, to be consistent with correction to the text.
Chapter 16: Key risks across sectors and regions	75	22	75	22	Add blank line before this paragraph.
Chapter 16: Key risks across sectors and regions	75	22	75	22	Put "Without high levels of warming" in italics.
Chapter 16: Key risks across sectors and regions	75	22	75	22	Replace dash with period (".")
Chapter 16: Key risks across sectors and regions	75	28	75	28	Add blank line before this paragraph.
Chapter 16: Key risks across sectors and regions	75	28	75	28	Put "With high levels of adaptation" in italics.
Chapter 16: Key risks across sectors and regions	75	28	75	28	Replace dash with period (".")
Chapter 16: Key risks across sectors and regions	92	1	92	1	replace "Figure 16.15" with "Figure 16.12"
Chapter 16: Key risks across sectors and regions	92	2	92	2	replace "Figure 16.15" with "Figure 16.12"
Chapter 16: Key risks across sectors and regions	92	2	92	3	replace "Figure 16.15" with "Figure 16.12"
Chapter 16: Key risks across sectors and regions	93	14	93	14	replace "SSP2-45" with "SSP2-4.5"
Chapter 16: Key risks across sectors and regions	95	27	95	27	replace "SM16.5" with "SM16.6"
Chapter 16: Key risks across sectors and regions	96	3	96	3	replace "SM16.5" with "SM16.6"
Chapter 16: Key risks across sectors and regions	97	13	97	13	replace "Figure 16.14" with "Figure 16.15"
Chapter 16: Key risks across sectors and regions	97	50	97	50	replace "Figure 16.14" with "Figure 16.15"
Chapter 16: Key risks across sectors and regions	98	24	98	24	replace "Figure 16.14" with "Figure 16.15"
Chapter 16: Key risks across sectors and regions	98	26	98	26	replace "Table SM16.18" with "Table SM16.20"
Chapter 16: Key risks across sectors and regions	99	0	99	0	replace Figure 1.15 with updated diagram to be consistent with SPM figure SPM.4
Chapter 16: Key risks across sectors and regions	99	3	99	4	Replace "(a) Global surface air temperature (GSAT), relative to 1995-2014 (left axis) and pre-industrial, 1850-1900 (right axis) (WGI AR6 Figure 4.2a, (Lee et al., 2021))." to "(a) Global surface temperature (GST), relative to pre-industrial, 1850-1900 (WGI AR6 Figure SPM.8d). (IPCC, 2021a)."
Chapter 16: Key risks across sectors and regions	99	6	99	7	Replace "The horizontal line denotes the present global warming of 1.2°C (WMO, 2020) which is used to separate the observed, past impacts below the line from the future projected risks above it. " to "The horizontal line denotes the present global warming of 1.09°C (IPCC WGI Figure SPM.8d) which is used to separate the observed, past impacts below the line from the future projected risks above it. "
Chapter 16: Key risks across sectors and regions	100	20	100	20	replace "table 16.1" with "Table SM16.22"
Chapter 16: Key risks across sectors and regions	100	52	100	52	replace "Table 16.2" with "Table SM16.22"
Chapter 16: Key risks across sectors and regions	101	28	101	101	replace "Table 16.2" with "Table SM16.22"
Chapter 16: Key risks across sectors and regions	103	46	103	47	replace "(Chapter2, Table 2.S.4,Figure 2.11)" with (Chapter 2, Table SM2.5, Figure 2.11)"
Chapter 16: Key risks across sectors and regions	105	19	105	19	replace "((IPCC AR6 WGI SPM Figure 6, IPCC, 2021b))" with "(IPCC AR6 WGI SPM Figure SPM.6, IPCC 2021b)"
Chapter 16: Key risks across sectors and regions	105	21	105	21	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	105	25	105	25	replace "(IPCC AR6 WGI SPM Figure 6)" with "(IPCC AR6 WGI SPM Figure SPM.6)"
Chapter 16: Key risks across sectors and regions	105	33	105	34	replace "(IPCC AR6 WGI SPM Figure 6)" with "(IPCC AR6 WGI SPM Figure SPM.6)"

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Chapter 16: Key risks across sectors and regions	105	43	105	43	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	106	57	106	57	replace "Figure 13.33" with "Figure 13.31"
Chapter 16: Key risks across sectors and regions	107	2	107	2	replace "Figure 11.7" with "Figure 17.6"
Chapter 16: Key risks across sectors and regions	107	45	107	45	replace "Figure 11.7" with "Figure 17.6"
Chapter 16: Key risks across sectors and regions	108	47	108	47	replace "Figure 13.30" with "Figure 13.29"
Chapter 16: Key risks across sectors and regions	108	49	108	49	replace "Figure 11.7" with "Figure 17.6"
Chapter 16: Key risks across sectors and regions	109	49	109	49	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	110	42	110	42	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	111	4	111	4	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	111	6	111	6	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	113	50	113	52	There is also evidence that some regions could benefit from low levels of warming (high confidence), leading to net benefits globally at these temperatures (low confidence). The size of the span of estimates grows with global warming level (high confidence), with variation across statistical estimates larger than variation in structural estimates (high confidence).
Chapter 16: Key risks across sectors and regions	115	33	115	36	Regional results illustrate the potential for overall net benefits in more temperate regions at lower levels of warming with potential lower energy demand and comparative advantages in agricultural markets (high confidence); however, at higher levels of warming net losses are estimated (high confidence).
Chapter 16: Key risks across sectors and regions	118	12	118	12	replace "WGII AR6 Table 2.S.4" with "Table SM2.5"
Chapter 16: Key risks across sectors and regions	119	17	119	18	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	119	19	119	19	replace "Table 2.S.4, Figure 2.11" with "Table SM2.5, Figure 2.11"
Chapter 16: Key risks across sectors and regions	120	28	120	28	replace "for RFC2 and RFC3, low confidence for RFC4 and RFC5). " with "for RFC2, RFC3 and RFC4, low confidence for RFC5). "
Chapter 16: Key risks across sectors and regions	121	26	121	26	Change "130 key risks" to "120 key risks"
Chapter 16: Key risks across sectors and regions	135	45	135	45	insert new reference here, "Colón-González FJ, Sewe MO, Tompkins AM, Sjödin H, Casallas A, Rocklöv J, Caminade C, Lowe R. Projecting the risk of mosquito-borne diseases in a warmer and more populated world: a multi-model, multi-scenario intercomparison modelling study. The Lancet Planetary Health. 2021 Jul 1;5(7):e404-14." https://doi.org/10.1016/S2542-5196(21)00132-7
Chapter 16: Key risks across sectors and regions	148	34	148	34	after "critical infrastructure - floods.", replace "43." with "Publications Office of the European Union, Luxembourg, JRC109015, 39 pp."
Chapter 16: Key risks across sectors and regions	346		346		Table row 3: column 1: replace entry with "Local or global extinction of species and reduction or irreversible loss of ecosystems and their services in freshwater and land ecosystems" for consistency with final version of Africa chapter
Chapter 16: Key risks across sectors and regions					Inga Sauer (Germany), Thomas Vogt (Germany), Stefanie Heinicke (Germany) should be included as contributing authors
Chapter 16 Supplementary Material	2	16	2	16	Insert new line with text "SM16.6 Section 16.6.2: Evaluation of Risk Accrual to the Reasons for Concern with Global Warming"
Chapter 16 Supplementary Material	2	16	2	16	replace "SM16.5.2" with "SM16.6.1"
Chapter 16 Supplementary Material	2	17	2	17	replace text "SM16.5.3 Section 16.6.1.1" with "SM16.6.2 Section 16.6.3 Updated Reasons for Concern: "
Chapter 16 Supplementary Material	2	18	2	19	Delete the text "SM16.6 Section 16.6.3: Evaluation of Risk Accrual to the Reasons for Concern with Global Warming"
Chapter 16 Supplementary Material	11		11		Table SM16.6 -- change 'Taiwan' to 'Taiwan, Province of China'
Chapter 16 Supplementary Material	33		33		Table SM16.12 -- correct typo: "HASEGAWA Toshihiro"
Chapter 16 Supplementary Material	47	20	47	29	replace "Mendeley Data, V1 (Ibrahim, 2021)." with "Mendeley Data, V1 (Ibrahim et al., 2021a)."
Chapter 16 Supplementary Material	49	4	49	4	Insert new line with text "SM16.6 Section 16.6.2: Evaluation of Risk Accrual to the Reasons for Concern with Global Warming"
Chapter 16 Supplementary Material	49	5	49	5	replace "SM16.5.2" with "SM16.6.1"
Chapter 16 Supplementary Material	49	8	49	8	replace "Table SM16.15" with "Table SM16.17"
Chapter 16 Supplementary Material	49	17	49	17	delete text "SM16.5.3 Section 16.6.1.1"
Chapter 16 Supplementary Material	49	20	49	20	replace "Table SM16.17: Section 16.6.1.1: Framework for expert elicitation for the Reasons for Concern" with "Table SM16.17: Framework for expert elicitation for the Reasons for Concern"
Chapter 16 Supplementary Material	51		51		replace "Table SM16.16" with "Table SM16.18a"
Chapter 16 Supplementary Material	52		52		replace "Mendeley Data V.1 (doi: 10.17632/kwb97szmc5.1)." with "Mendeley Data, V1 (Ibrahim et al., 2021b)."
Chapter 16 Supplementary Material	52		52		In table cell "Elicitation Structure" replace "Table SM16.17" with "Table SM16.19"
Chapter 16 Supplementary Material	53		53		replace "Table SM16.17" with "Table SM16.19"
Chapter 16 Supplementary Material	53		53		replace "Figure 16.14" with "Figure 16.15"
Chapter 16 Supplementary Material	53		53		replace "Table SM16.16" with "Table SM16.20"
Chapter 16 Supplementary Material	53		53		replace "(i.e., Table SM16.16)" with "(i.e., Table SM16.20)"
Chapter 16 Supplementary Material	53		53		In the row "Construction", replace "Table SM16.15" with "Table SM16.19"

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Chapter 16 Supplementary Material	58	5	58	6	replace "SM16.6 Section 16.6.3: Consensus values of Risk Accrual to the Reasons for Concern with Global Warming" with "SM16.6.2 Section 16.6.3: Values of Risk Accrual to the Reasons for Concern with Global Warming"
Chapter 16 Supplementary Material	58	12	58	13	In Table A) RFC1 Unique and threatened systems, replace all 3 occurrences of "Median" with "Best estimate (median)"
Chapter 16 Supplementary Material	58	13	59	1	In Table B) RFC2 Extreme weather events, replace all 3 occurrences of "Median" with "Best estimate (median)"
Chapter 16 Supplementary Material	58	14	58		In Table D) RFC4 Global aggregate impacts, replace all 3 occurrences of "Median" with "Best estimate (median)"
Chapter 16 Supplementary Material	59	1	59	2	In Table C) RFC3 Distribution of impacts, replace all 3 occurrences of "Median" with "Best estimate (median)"
Chapter 16 Supplementary Material	59	2	59	2	In the table, replace "between 2.7 to 3.7" with "between 2.7 to 3.7 *" and add to the bottom of the table a note "* experts provided a range, and not a single value, for the best estimate (median) of when the transition from high to very high risk might occur for RFC4 and a mid-point value of 3.2 was used for input as the 'median' in the spreadsheet for upload into The Burning Ember Factory (https://climrisk.org/emberfactory/) application for development of the RFC4 ember diagram"
Chapter 16 Supplementary Material	59	3	59	4	In Table E) RFC5 Large-scale singuular events, replace all 3 occurrences of "Median" with "Best estimate (median)"
Chapter 16 Supplementary Material	59	3	59	3	In the table, replace "not determined" with "not determined †" and add to the bottom of the table a note "† experts did not provide a value for the best estimate (median) of when the transition from high to very high risk level might occur and no value was used for input as the 'median' in the spreadsheet for upload into The Burning Ember Factory (https://climrisk.org/emberfactory/) application for development of the RFC5 diagram"
Chapter 16 Supplementary Material	60		60		Caption to Table SM16.21: Change Figure 16.1. to Figure 16.2
Chapter 16 Supplementary Material	60		60		Change subheading "Detection and attribution of observed changes climate-related system ('Climate attribution')" to "Detection and attribution of observed changes climate-related systems ('Climate attribution')"
Chapter 16 Supplementary Material	69	2	69	3	In the table D) RFC4 Global aggregate impacts, in the column marked Confidence, replace 'Low' with 'Medium'.
Chapter 16 Supplementary Material	119		119		Delete break before colon: "North America: Timing of decline in abundance of multiple species (British Columbia)..."
Chapter 16 Supplementary Material	163		163		Change "...has been attributed to anthropogenic climate forcing (see Table 16.1)." to "...has been attributed to anthropogenic climate forcing (Table SM16.21)."
Chapter 16 Supplementary Material	163		164		Change "Section 4.2.5, Table 4.5" to "Section 4.2.5, Table 4.4". Has to be adjusted throughout the Table as the numbering has changed in chapter 4.
Chapter 16 Supplementary Material	187		187		Change 'There is no attribution of changes to climate change but only 'detection of weather sensitivity' (see part 3 of this table)' to "There is no attribution of changes to climate change but an 'identification of weather sensitivity' (see 'S17 Water distribution - Water-borne diseases', Table SM16.23)"
Chapter 16 Supplementary Material	211		211		Change "There is no attribution of changes in food prices to climate change but only a 'detection of weather sensitivity' (see Table 16.3)" to "There is no attribution of changes in food prices to climate change but an 'identification of weather sensitivity' (see 'S19 Food system - Food prices', Table SM16.23)"
Chapter 16 Supplementary Material	214		214		Table SM16.22 -- change 'Taiwan' to 'Taiwan, Province of China'
Chapter 16 Supplementary Material	234		234		Adjust "Overarching impacts - Macroeconomic output" to "Other societal impacts - Macroeconomic output"
Chapter 16 Supplementary Material	235		235		Adjust subheading from 'Overarching societal impacts - Between country inequality' to "Other societal impacts - Between-country inequality"
Chapter 16 Supplementary Material	236		236		Change '(see 'Overarching impacts - Sensitivity of economic growth to variations in weather conditions')' in the fifth column to "Section 'S31b Other societal impacts - Macroeconomic output', Table SM16.23"
Chapter 16 Supplementary Material	237		237		Adjust subheading "Overarching societal impacts - Within country inequality" to "Other societal impacts - Within-country inequality"
Chapter 16 Supplementary Material	238		238		Adjust "Overarching societal impacts - Social Conflict" to "Other societal impacts - Social conflict"
Chapter 16 Supplementary Material	255		255		Change "moderate confidence (**)" to "medium confidence (**)" and use italics
Chapter 16 Supplementary Material	256		256		Delete "Maize: Wheat:" after 'observations' in the North America line.
Chapter 16 Supplementary Material	257		257		Delete background color for 'minor influence' and 'minor sensitivity'. Throughout the Table we only use white backgroun color for 'no assessment', 'insufficient data' etc. indicating that there also is no assessment in Figure 16.2
Chapter 16 Supplementary Material	258		258		delete background color of 'moderate sensitivity'
Chapter 16 Supplementary Material	259		259		delete background color of 'moderate sensitivity'
Chapter 16 Supplementary Material	266		266		Adjust "Overarching societal impacts - Malnutrition:" to "Other societal impacts - Malnutrition"
Chapter 16 Supplementary Material	281		281		Delete "& Box 7.1 FOD"
Chapter 16 Supplementary Material	293		293		Add white background color to 'no assessment elsewhere'
Chapter 16 Supplementary Material	294		294		Adjust "Other societal impacts - Within country inequality" to "Other societal impacts - Within-country inequality"
Chapter 16 Supplementary Material	294		294		Use this reference: Alvaredo, F. et al., World Inequality Report 2018. 344 pp. Available at: https://www.hup.harvard.edu/catalog.php?isbn=9780674984554.
Chapter 16 Supplementary Material	295		295		Replace 'World inequality report 2018' by this reference: Alvaredo, F. et al., World Inequality Report 2018. 344 pp. Available at: https://www.hup.harvard.edu/catalog.php?isbn=9780674984554.
Chapter 16 Supplementary Material	295		295		Use this reference: Alvaredo, F. et al., World Inequality Report 2018. 344 pp. Available at: https://www.hup.harvard.edu/catalog.php?isbn=9780674984554.

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Chapter 16 Supplementary Material	298		298		Adjust subheading from 'Other societal impacts - Between country inequality' to "Other societal impacts - Between-country inequality
Chapter 16 Supplementary Material	320		320		Table row 2: column 9: replace "2.5.5.4" with "2.5.3.4"
Chapter 16 Supplementary Material	320		320		Table row 3: column 9: replace entry with "2.4.2.2, 2.5.1.3"
Chapter 16 Supplementary Material	320		320		Table row 4: column 1: replace "damage" with "increase"
Chapter 16 Supplementary Material	320		320		Table row 4: column 9: replace entry with "2.4.4.2, 2.5.3.2, FAQ 2.3"
Chapter 16 Supplementary Material	321		321		All table entries for Chapter 11 (Australasia) have been revised to be consistent with the final chapter 11 text of the FGD (KR table had not been updated for the FGD)
Chapter 16 Supplementary Material	331		331		Table row 3: column 9: replace "5.12.3" with "5.12.4"
Chapter 16 Supplementary Material	332		332		Table row 2: column 8: replace "strong" with "robust"
Chapter 16 Supplementary Material	332		332		Table row 4: column 9: insert "5.5.2" at start of list
Chapter 16 Supplementary Material	333		333		Table row 3: column 9: delete comma at end of list
Chapter 16 Supplementary Material	334		334		Table row 2: column 9: replace "and" with ", "
Chapter 16 Supplementary Material	335		335		global, observations: Turn "medium / high confidence" into italics, same in yellow attribution box: turn "medium to high confidence" fully into italics; add a blank before 'southern Africa' in "...western North America, south-western Australia,southern Africa, and southwestern South America."
Chapter 16 Supplementary Material	335		335		Table row 4: column 9: replace "5.13.7" with "5.13.4"
Chapter 16 Supplementary Material	335		335		Table row 5: replace "Coastal cities" with "Cities and Settlements by the Sea"
Chapter 16 Supplementary Material	346		346		Table row 3: column 3: replace "12%" with "10%"
Chapter 16 Supplementary Material	346		346		Table row 3: column 8: replace entry with "Medium confidence"
Chapter 16 Supplementary Material	346		346		Table row 3: column 9: replace "9.8" with "9.6.2"
Chapter 16 Supplementary Material	346		346		Table row 4: column 9: replace "9.8" with "9.6.2, 9.8.5"
Chapter 16 Supplementary Material	347		347		Table row 2: column 9: replace "9.4" with "9.8.2"
Chapter 16 Supplementary Material	348		348		Table row 1: column 9: replace entry with "9.7.2, 9.9.4, Box 9.5"
Chapter 16 Supplementary Material	348		348		Table row 2: column 9: replace entry with "9.11.2"
Chapter 16 Supplementary Material	349		349		Table row 2: column 9: replace "9.6" with "9.10.2"
Chapter 16 Supplementary Material	350		350		Table row 2: column 9: replace "9.6" with "9.10.2"
Chapter 16 Supplementary Material	350		350		Table row 3: column 9: replace "9.6" with "9.10.2"
Chapter 16 Supplementary Material	351		351		Table row 2: column 9: replace "9.7" with "9.9, Box 9.4"
Chapter 16 Supplementary Material	352		352		Table row 2: delete this row (it is a repeat of a row above)
Chapter 16 Supplementary Material	359		366		Table row 3: column 9: insert "5.11.1" at start of list
Chapter 16 Supplementary Material	372		372		Table row 3: column 3: replace "MED" with "Southern Europe"; column 9: add "SM13.10"
Chapter 16 Supplementary Material	373		373		Table row 2: column 9: add "SM13.10"
Chapter 16 Supplementary Material	373		373		Table row 3: column 9: add "SM13.10"
Chapter 16 Supplementary Material	374		374		Table row 2: column 9: add "SM13.10"
Chapter 16 Supplementary Material	374		374		Table row 3: column 9: add "SM13.10"
Chapter 16 Supplementary Material	374		374		Table row 3: swap this row with row 2, to be in line with the order of risks discussed in the chapter
Chapter 16 Supplementary Material	392		392		Table row 2: column 3: replace "By mid-century ... share of freshwater." with "By mid-century up to 50-100% of the lowland population being water stressed in area already water stressed today (e.g. dependent on essential but largely insufficient share of freshwater)."
Chapter 16 Supplementary Material	392		392		Table row 4: column 2: replace this entire entry with "Mountain Areas in Central-South America, Asia and Africa"
Chapter 16 Supplementary Material	392		392		Table row 4: column 6: replace "(e.g. WCE, NWS)" with "Northwestern South America and South Asia"
Chapter 16 Supplementary Material	392		392		Table row 4: column 9: replace entry with "CCP5.2.7.2, CCP5.3.1, CCP5.2.1, CCP5.4, SMCCP5.4"
Chapter 16 Supplementary Material	393		393		Table row 2: column 2: replace "NWS, SAS, TIB" with "Northwestern South America and South Asia."
Chapter 16 Supplementary Material	393		393		Table row 2: column 9: replace entry with "CCP5.2.7.2, CCP5.2.2.1, CCP5.3.2.2, CCP5.4, SMCCP5.4"
Chapter 16 Supplementary Material	393		393		Table row 3: column 3: replace entry with "Extinction of 15% of species (4–48%) at 5ºC global surface air temperature increase"
Chapter 16 Supplementary Material	393		393		Table row 3: column 9: replace entry with "CCP5.3.1, CCP5.3.2.3, SMCCP5.4"
Chapter 16 Supplementary Material	396	40	396	41	Year is missing. It is this paper: Western Pac Surveill Response J. 2015 Apr 20;6(2):82-9. doi: 10.5365/WPSAR.2014.5.4.002
Chapter 16 Supplementary Material	400	39	400	39	Year is missing. It is this paper: Lancet. 2014 Nov 1;384(9954):1571-2. doi: 10.1016/S0140-6736(14)61977-2
Chapter 16 Supplementary Material	402	19	402	20	Year is missing. It is this paper: Ticks Tick Borne Dis. 2017 Jun;8(4):554-563. doi: 10.1016/j.ttbdis.2017.03.003
Chapter 16 Supplementary Material	403	14	403	15	Year is missing. It is this paper: Eur J Clin Microbiol Infect Dis. 2003 May;22(5):327-8. doi: 10.1007/s10096-003-0918-2
Chapter 16 Supplementary Material	405	48	405	49	Year is missing. It this paper: Braz J Infect Dis 21 (5) • Sep-Oct 2017 • https://doi.org/10.1016/j.bjid.2017.06.002
Chapter 16 Supplementary Material	408		408		Gilpin reference: Year is missing. It is 2020: https://doi.org/10.1016/j.jinf.2020.06.065
Chapter 16 Supplementary Material	409	61	409	61	Reference has to be adjusted (year is missing): Hanna JN, Ritchie SA, Hills SL, Pyke AT, Montgomery BL, Richards AR, Piispanen JP. "Dengue in north Queensland, 2002", Commun Dis Intell Q Rep. 2003; 27(3):384-9. PMID: 14510067
Chapter 16 Supplementary Material	410	32	410	33	Year is missing. It is this paper: Euro Surveill. 2015 Apr 2;20(13):9-16. doi: 10.2807/1560-7917.es2015.20.13.21077

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 16 Supplementary Material	412	5	412	6	Replace "Ibrahim, Z. B. Z., 2021: Climate risk documents analysed for linkages with SDG Goals, Targets and Indicators, Mendeley Data, V1." with "Ibrahim, Z.Z., et al., 2021a: Climate risk documents analysed for linkages with SDG Goals, Targets and Indicators, Mendeley Data, V1, doi: 10.17632/k4snbvxz5j.1"
Chapter 16 Supplementary Material	412	6	412	7	Insert a reference "Ibrahim, Z.Z., et al, 2021b: Literature used for updating the Reasons for Concern 2021, Mendeley Data, V1, doi: 10.17632/kwb97szmc5.1"
Chapter 16 Supplementary Material	415	6	415	7	Year is missing. It is this paper: Emerg Infect Dis. 2015 Aug; 21(8):1455-7. doi: 10.3201/eid2108.141878.
Chapter 16 Supplementary Material	422	26	422	27	Year of publication is missing. It is this Paper: Acta Trop. 2017 Sep;173:17-22. doi: 10.1016/j.actatropica.2017.05.007.
Chapter 16 Supplementary Material	426	61	426	62	Year is missing. It is this paper: Vector Borne Zoonotic Dis. 2015 Dec;15(12):718-25. doi: 10.1089/vbz.2015.1822.
Chapter 16 Supplementary Material	431	51	431	52	Year is missing. It is this paper: Int J Circumpolar Health, 2017;76(1):1298882. doi: 10.1080/22423982.2017.1298882.
Chapter 16 Supplementary Material	435		435		Delete: World Inequality Lab, 2017: World Inequality Lab. Available at: https://wir2018.wid.world/files/download/wir2018- full-report-english.pdf.
Chapter 16 Supplementary Material	436	27	436	28	The reference should be adjusted: Delete "1879-1026 (Electronic)).". It seems to be this one: https://doi.org/10.1016/j.scitotenv.2018.05.121 from the year 2018. It is referred to in Table SM16.21, Attribution of droughts in Asia (page 71)
Chapter 16 Supplementary Material					Caption of Table SM16.22 should be changed to: Attribution of observed changes in natural, human and managed systems (orange symbols in Figure 16.2): Assessment statements relate to 'impact attribution' i.e. the identification and quantification of the contribution of long-term changes in the climate-related systems to the observed changes in the natural, human, and managed systems. The subtitles of the orange symbols in Figure 16.2 and associated numbers can be found here as titles of associated sections. Each section provides the background information (references and associated evidence) behind the ratings in the Figure (direction of change and level of confidence). The summary statements in the orange cells of the table are displayed in Figure 16.2.
Chapter 16 Supplementary Material					Caption of Table SM16.23 should be changed to: Attribution of variations and disturbances in natural, human, and managed systems to fluctuations or extremes in the climate-related systems (blue symbols in Figure 16.2) Assessment statements relate to 'identification of weather-sensitivity' i.e. the identification and quantification of the contribution of short-term fluctuations and extremes in the climate-related systems to the observed fluctuations in the natural, human, and managed systems. The titles of the blue symbols in Figure 16.2 and associated numbers can be found here as titles of associated sections. Each section provides the background information (references and associated evidence) behind the ratings in the Figure (strength of influence and level of confidence). The summary statements in the orange cells of the table are displayed in Figure 16.2.
Chapter 16 Supplementary Material					Caption of Table SM16.21 should be changed to: Detection and attribution of changes in the climate-related systems (grey symbols in Figure 16.2.): Assessment statements relate to 'climate attribution' i.e. the identification and quantification of the contribution of anthropogenic forcings to the observed changes in the climate-related systems. The subtitles of the grey symbols in Figure 16.2 and associated numbers can be found here as titles of associated sections. Each section provides the background information (references and associated evidence) behind the ratings in the Figure (direction of change and level of confidence). The summary statements in the orange cells of the table are displayed in Figure 16.2.
Chapter 16 Supplementary Material					There are some horizonal lines appearing in the Tables SM16.21, SM16.22, SM16.33 that should not appear. There should only be horizontal lines between the regional rows but not between the individual 'observations' or 'attribution lines'. For examples in the "Terrestrial ecosystems - Range reduction or shift" section of Table SM16.22 there are too many lines that also appear between rows belonging to one regional section. I correctly formatted version has been sent to Melinda. The problem may be induced by the transformation from doc to pdf.
Chapter 16 Supplementary Material					Whenever Taiwan is mentioned it has to be turned into "Taiwan, province of China"
Chapter 17: Decision-making options for managing risk	1	18	1	18	after "(Finland)" and before "Zoe Klobus (USA)" add "Rachel Elizabeth Keeton (The Netherlands/ USA)"
Chapter 17: Decision-making options for managing risk	1	28	1	28	Change "Ivo Wallimar-Helmer" to "Ivo Wallimann-Helmer"
Chapter 17: Decision-making options for managing risk	4	18	4	20	Delete the sentence: "Although the estimated cost of adaptation is higher for developed countries (medium confidence), for developing countries they are much higher as a proportion of national income, making the self-financing of adaptation more difficult (high confidence)."
Chapter 17: Decision-making options for managing risk	30	16	30	16	"Persian/Arabian Gulf" to be corrected to "Persian Gulf"
Chapter 17: Decision-making options for managing risk	52	32	52	31	replace "(Swanson)" with "(Swanson and Bhadwal, 2009)"
Chapter 17: Decision-making options for managing risk	52	35	52	35	Change "one simple" to "one relatively simple"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 17: Decision-making options for managing risk	52	47	52	47	Add “(CRDPs)” after “pathways to it”
Chapter 17: Decision-making options for managing risk	52	55	52	55	Replace “plans by using” with “i.e. plans that use”
Chapter 17: Decision-making options for managing risk	62	27	62	35	Replace: "While various definitions for climate finance have been suggested, and the UNFCCC has yet to have an agreed definition, the IPCC (see Glossary) defines climate financing as “the financial resources devoted to addressing climate change by all public and private actors from global to local scales, including international financial flows to developing countries to assist them in addressing climate change. [It] aims to reduce net greenhouse gas emissions and/or to enhance adaptation and increase resilience to the impacts of current and projected climate change. Finance can come from private and public sources, channelled by various intermediaries, and is delivered by a range of instruments, including grants, concessional and non-concessional debt, and internal budget reallocations”." With: "While the UNFCCC and the UNFCCC has yet to arrive at a formally agreed definition of climate finance, numerous overlapping have been suggested and reported (e.g., Falconer and Stadelmann, 2014; UNFCCC, 2014; Roberts and Weikmans, 2017; Munira et al., 2021). However, there is wide agreement across these definitions that climate finance refers to financial resources devoted to addressing climate change, both mitigation and adaptation to current and projected climate change, and that these resources can come from both public and private sources (high confidence). Climate finance includes, but in most definitions is not restricted to, international financial flows to developing countries. Finance can be delivered through a range of instruments including grants, concessional and non-concessional debt, and internal budget reallocations (high Falconer, A. and M. Stadelmann, 2014: What is climate finance? Definitions to improve tracking and scale up climate finance. Climate Policy Initiative, London. Available at: http://climatepolicyinitiative.org/wp-content/uploads/2014/07/Brief-on-Climate-Finance-Definitions.pdf (accessed 2022/01/30). Munira, S., R. Bashar, T. H. Easher and M. R. Khan, 2021: Climate Finance in the UNFCCC Negotiations: Bridging Gaps with Lessons Learnt. In: Climate Change in Bangladesh: A Cross-Disciplinary Framework [Jakariya, M. and M. N. Islam (eds.)]. Springer International Publishing, Cham, pp. 1-24. ISBN 978-3-030-75825-7. UNFCCC, 2014: UNFCCC Standing Committee on Finance 2014 Biennial Assessment and Overview of Climate Finance Flows Report. United Nations Framework Convention on Climate Change (Standing Committee on Finance), Berlin, 94 pp. Available at: http://unfccc.int/6877 (accessed 2021/08/15).
Chapter 17: Decision-making options for managing risk	64	32	64	35	Replace: "Across these different sources, the main instruments used are grants, concessional debt, market debt, internal budget allocation, including personal savings in households, and insurance." With: "Across these different sources, the main instruments used are grants, concessional debt, market debt, internal budget allocation, insurance, as well as personal savings in households (high confidence)."
Chapter 17: Decision-making options for managing risk	69	20	69	22	Replace: "Several factors affecting fair and just financing in developing countries have been identified in recent literature (Klein et al., 2014; Colenbrander et al., 2018; Mfitumukiza et al., 2019; Khan et al., 2019a; Doshi and Garschagen, 2020)." With: "While the gap between current financial flows to developing countries and their adaptation needs (see Box Cross-Chapter Box FINANCE.1) is a major factor undermining equity and fairness in financing, several other factors that can also affect fair and just financing in developing countries have been identified in recent literature (Klein et al., 2014; Colenbrander et al., 2018; Mfitumukiza et al., 2019; Khan et al., 2019a; Doshi and Garschagen, 2020).."
Chapter 17: Decision-making options for managing risk	84	6	84		Change “co-benefits” to “benefits”
Chapter 17: Decision-making options for managing risk	84	20	84		sentence ends “trade-offs/ dis-benefits”
Chapter 17: Decision-making options for managing risk	84	22	84		change to “i.e. trade-offs/ dis-benefits”
Chapter 17: Decision-making options for managing risk	85	Figure 17.09			Legend p.85, line 5, should read: “synergies/ benefits and trade-offs/ dis-benefits”
Chapter 17: Decision-making options for managing risk	87	Fig.17 .10			Changes to Fig.17.10 Legend of Figure 17.10 should now read: CENTRAL PANEL High, e.g. through dis-benefits that worsen the situation for the group/ sector Moderate, e.g. through mixed or no clear benefits/ dis-benefits Small, e.g. through moderate benefits for the group/ sector Negligible, e.g. through large benefits for the group/ sector •Trade-offs in the figure itself should be deleted, together with the bracket •Please add the following table to the Ch17 SM as the last table SM 17.5
Chapter 17: Decision-making options for managing risk	92	27	92	27	replace reference 'GIZ, 2020a' with 'GIZ, 2020'
Chapter 17: Decision-making options for managing risk	126	43	126	44	replace entire reference 'GIZ, 2020'/ previously 'GIZ, 2020a' with 'GIZ, 2020: Guidebook for Monitoring and Evaluating Ecosystem-based Adaptation Interventions. Available at: https://www.adaptationcommunity.net/publications/guidebook-for-monitoring-and-evaluating-eba/; https://www.adaptationcommunity.net/download/ME-Guidebook_EbA.pdf'
Chapter 17: Decision-making options for managing risk	126	43	126	43	replace reference 'GIZ, 2020a' with 'GIZ, 2020'

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 17 Supplementary Material		Table SM17.5			SM17.5: Mapping of climate responses and adaptation options as assessed in Chapter 17 (17.2, 17.5) with the climate responses and adaptation options assessed in Ch18 (CCB FEASIB). Table SM17.5: Feasibility list / Adaptation benefits list **Coastal defence & hardening** — Coastal infrastructure **Integrated coastal zone management** — Coastal accommodation **Forest-based adaptation** — / **Sustainable aquaculture and fisheries** — Farm/fishery practice **Agroforestry** — / **Biodiversity management & ecosystem connectivity** — Minimizing ecosystem stressors **Water use efficiency & water resource management** — Water use/demand efficiency; Water capture/storage; Water supply/distribution **Improved cropland management** — Farm/fishery practice **Efficient livestock systems** — / **Green infrastructure & ecosystem services** — Ecosystem-based adaptation **Sustainable land use & urban planning** — Infrastructure retrofitting; Building codes; Spatial planning **Sustainable urban water management** — / **Improve water use efficiency** — Water use/demand efficiency **Resilient power systems** — / **Energy reliability** — / **Health & health systems adaptation** — Availability of health infrastructure; Access to health care **Livelihood diversification** — Diversification of livelihoods **Planned relocation & resettlement** — Permanent migration **Human migration** — Permanent migration **Disaster risk management** — / **Climate services, including Early Warning Systems** — Disaster early warning **Social safety nets** — Social safety nets **Risk spreading & sharing** — Insurance
Chapter 17 Supplementary Material	57	Table SM17.17	57	Table SM17.17	"Persian/Arabian Gulf" to be corrected to "Persian Gulf"
Chapter 17 Supplementary Material	59	Table SM17.17	59	Table SM17.17	"Persian/Arabian Gulf" to be corrected to "Persian Gulf"
Chapter 18: Climate resilient development pathways	7	4	7	6	Change "There are only a few decades remaining to chart" to "Action over the next decade will be critical for charting"
Chapter 18: Climate resilient development pathways	9	24	9	24	change "to less than 2°C or 1.5°C." to "well-below 2°C or 1.5°C."
Chapter 18: Climate resilient development pathways	10	8	10	9	remove 'to achieve development goals'
Chapter 18: Climate resilient development pathways	11	0	11	0	Figure 18.1 legend "Climatic or non-climatic shock" edited to read "Illustrative climatic or non-climatic shock, e.g. COVID-19, drought or floods, that disrupts the development pathway"
Chapter 18: Climate resilient development pathways	11	0	11	0	Figure 18.1 pathways/pathway wording "pathways not taken" "warming stays below 1.1C" and "1.5C warming reached in 2030" edited and now reads "opportunities missed for higher climate resilient development", "warming stabilises at 1.5 C" and "more than 2 C warming by 2050"
Chapter 18: Climate resilient development pathways	11	2	11	18	Updated caption of figure 18.1 now reads as follows: Figure 18.1: Climate Resilient Development Pathways are development trajectories that successfully integrate GHG mitigation and adaptation efforts to support sustainable development for all. (a) Climate resilient development is a process that takes place through continuous societal choices towards higher CRD (illustrative green pathways) or lower CRD (illustrative red pathways). (b) CRD is described by five development dimensions - people, prosperity, partnership, peace, planet - on which the SDGs build (18.2). Some societal choices have mixed outcomes for CRD (illustrative orange pathways). This figure builds on figure SPM.9 in AR5 WGII depicting climate resilient pathways by describing how CRDPs emerge from societal choices about adaptation, mitigation and sustainable development within multiple arenas – rather than solely from discrete decision points (18.4). Dimensions of CRD characterize both development outcomes as well as the interactions and societal choices that make up the development process. Societal choices, often contested, are made in arenas of engagement through interactions between key actors in civil society, the private sector and government (see Figure 18.2). The quality of interactions, such as degree of inclusion and empowerment of diverse voices, determine whether societal choices and associated actions shift development towards or away from CRD, The five CRD dimensions underline the close interconnectedness between the biosphere and humans, the two necessarily intertwined in interactions, actions, transitions, and futures (see Figure 18.3). There is a narrow and closing window of opportunity to make transformational changes to move towards and not away from development futures that are more climate-resilient and sustainable (Box 18.1). Pathways not taken (dotted line) illustrate that opportunities have been missed for higher CRD pathways due to past societal choices and increasing temperatures. Present societal choices determine whether we shift towards higher CRD in future or whether pathways will be limited to lower CRD
Chapter 18: Climate resilient development pathways	12	2	12	2	Figure 18.2 labels wording edited/added to now read "(a) Societal choices away from CRD (b) Societal choices towards CRD and (c) Interactions between arenas of engagement across scales"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 18: Climate resilient development pathways	12	4	12	23	Updated caption of figure 18.2 now reads: Figure 18.2 Societal choices made in arenas of engagement shape actions and systems. The settings, places and spaces in which key actors from government, civil society and the private sector interact to influence the nature and course of development can be called arenas of engagement, including political, economic, socio-cultural, ecological, knowledge-technology and community arenas (18.4) For instance, political arenas include formal political settings such as voting procedures to elect local representatives as well as less formal and transparent political arenas. Streets, town squares and post-disaster landscapes can become sites of interaction and political struggle as citizens strive to have their voices heard. Arenas of engagement can take the form of “struggle arenas” – in which power and influence are used to include/exclude, set agendas, and make and implement decisions – with inevitable winners and losers. The quality of interactions in these arenas leads to development outcomes that can be characterized as CRD dimensions that underpin the SDGs – people, prosperity, partnership, peace, planet (see Figure 18.1). (a) Interactions characterized by inequitable relations and domination of some actors over others may lead to societal choices away from CRD, including mitigation and adaptation actions that exacerbate vulnerability among marginalized groups. (b) Prospects for moving towards CRD increase when governance actors work together constructively in these different arenas. Interactions and actions that are inclusive and synchronous, as opposed to fragmented or contradictory, enable system transitions and transformational change towards CRD (see Figure 18.3). Most societal choices and associated decisions are characterized by a mix of the dimensions shown in (a) and (b), with mixed outcomes for CRD. (c) Arenas exist across scales from the local to national level, and beyond. Community arenas of engagement constitute the many interactions between governance actors and the political, economic, socio-cultural, ecological, knowledge-technology arenas, reflecting emergent societal choices across scales. Together, the decisions made by multiple actors within and across these arenas of engagement form societal choices. Unlocking the potential of these societal choices and associated mitigation, adaptation and sustainable development actions is central to advancing human well-being and planetary health.
Chapter 18: Climate resilient development pathways	12	25	12	25	Figure 18.3 labels wording edited/added to now read "(a) Actions and outcomes characterizing lower CRD Pathways
Chapter 18: Climate resilient development pathways	12	27	13	4	Updated caption of figure 18.3 now reads: Figure 18.3 Transformative actions and system transitions characterize Climate Resilient Development Pathways (a) Societal choices that generate fragmented climate action or inaction and unsustainable development perpetuate business as usual and entrenched systems. (b) Societal choices that support CRD involve transformative adaptation, mitigation and sustainable development actions that drive five systems transitions (energy, land and other ecosystems, urban and infrastructure, industrial and societal). There is close interdependence between these systems. The system transition framework allows for a comprehensive assessment of the synergies and trade-offs between mitigation, adaptation and sustainable development. For example, land and water use in one system impacts the other systems and their surrounding ecosystems, thus reflecting how agricultural practices can have an impact on energy usage in urban centers. Finally, societal system transitions within each of the other systems enable the transitions to occur (18.3, Box 18.1).
Chapter 18: Climate resilient development pathways	13	35	13	35	insert citation: Moser, S., S. Meerow, J. Arnott, and E. Jack-Scott. 2019. The Turbulent World of Resilience: Interpretations and Themes for Transdisciplinary Dialogue. Climatic Change 153 (1-2): 21-40. https://doi.org/10.1007/s10584-018-2358-0.
Chapter 18: Climate resilient development pathways	13	50	13	50	change "at the micro-level" to "at the local- or household-level"
Chapter 18: Climate resilient development pathways	13	53	13	53	insert: "(18.2, Box 18.4)"
Chapter 18: Climate resilient development pathways	17	28	17	29	change "The Government of Kenya’s (GoK) ambition is to transform Kenya into a ‘newly industrializing, middle income country providing a high-quality life to all its citizens by 2030 in a clean and secure environment’" to "The government of Kenya's (GoK) ambition through Vision 2030 is to create a globally competitive and prosperous country with a high quality of life by 2030. It aims to transform Kenya into a newly-industrialising, middle-income country providing a high quality of life to all its citizens in a clean and secure environment."
Chapter 18: Climate resilient development pathways	17	41	17	42	delete a 2,000km long, 100 km wide economic and development corridor extending from Mombasa to Sudan and Ethiopia" and insert "The LAPSSET Corridor consists of two elements: the 500 meter wide Infrastructure Corridor where the road, railway, pipelines, power transmission and other projects will be located and the Economic Corridor of 50 km on either sides of the infrastructure corridor which will be contain other industrial investments."
Chapter 18: Climate resilient development pathways	19	56	19	56	insert confidence statement "(high confidence)" before citation.
Chapter 18: Climate resilient development pathways	25	7	25	8	change "and what is required to transform from today into each socioeconomic future" to "and process associated with transforming from today into each assumed socioeconomic future"
Chapter 18: Climate resilient development pathways	25	31	25	31	change "Over the next decade" to "Over the near-term"
Chapter 18: Climate resilient development pathways	25	36	25	36	insert "because the likelihood of the higher warming levels is a function of the likelihood of the higher emissions scenarios" before citation.
Chapter 18: Climate resilient development pathways	25	46	25	46	insert "and ranges of climate outcomes" before end of parenthetical.
Chapter 18: Climate resilient development pathways	25	47	25	47	insert sentence at the beginning of line 47: "Higher global warming levels also can affect geographic patterns of change and probability distributions of regional climate outcomes (e.g., Ahmad, 2018)."

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 18: Climate resilient development pathways	26	31	26	32	Replace caption for FIgure 18.4 with the following: "Regional projected select climate change and sustainable-development-related climate impact indicators by global warming level. Sources: WGI AR6 Interactive Atlas (https://interactive-atlas.ipcc.ch/) and WGII Chapters 3, 4, 5, and 6. Right figures developed from WGII Figures 3.21, 4.17, 5.19, and 6.3. Figure 6.3 based on RCP climate projections, and Figures 3.21, 4.17, and 5.19 are based on SSP climate projections. The GWLs shown are multi-model means derived from Hauser et al (2019) for the respective RCP and SSP and time periods associated with each figure."
Chapter 18: Climate resilient development pathways	26	35	26	35	Change heading to read: "Options for Managing Future Climate Risks to Climate Resilient Development"
Chapter 18: Climate resilient development pathways	30	1	30	1	Change "Past assessments have" to "The IPCC's SR1.5 report"
Chapter 18: Climate resilient development pathways	30	19	30	19	Change "However, trade-offs have been found and are important to consider and potentially manage." to read "However, trade-offs also have been found and are important to consider and potentially address."
Chapter 18: Climate resilient development pathways	30	19	30	19	Insert sentence at beginning of line: "For example, "low-regrets" adaptation strategies have been identified, such as improvements in health systems that reduce climate health impacts in cities (Barata et al, 2018)."
Chapter 18: Climate resilient development pathways	30	23	30	23	change "managing" to "addressing"
Chapter 18: Climate resilient development pathways	30	23	30	23	insert cross reference to "Box 18.4"
Chapter 18: Climate resilient development pathways	30	25	30	25	change "offset the trade-offs" to "address those trade-offs"
Chapter 18: Climate resilient development pathways	31	37	31	37	delete "degrowth and"
Chapter 18: Climate resilient development pathways	31	38	31	38	change "plural knowledges" to "different forms of knowledge"
Chapter 18: Climate resilient development pathways	31	42	31	45	delete "Here, the relationship between adaptation and SDGs is illustrated through an examination of SDG3 good health and well-being and SDG16 peace, justice and strong institutions. These two are foundational to social equity and justice that underpin sustainability outcomes as well as enablers of CRD."
Chapter 18: Climate resilient development pathways	31	48	31	51	change "In general, evidence suggests positive effects of formal interventions as well as household and community-based adaptation strategies on discrete social variables among target populations, particularly if they are shaped by the local context and needs, with real participation and leadership by target populations" to "In general, formal adaptation policies as well as household and community-based adaptation strategies can generate positive outcomes, particularly if they are responsive to the local context and needs, with real participation and leadership by target populations"
Chapter 18: Climate resilient development pathways	34	6	34	7	Change "Mitigation entails greenhouse gas emissions reductions, avoidance, and removal and sequestration, as well as management of other climate forcing factors (WGIII AR6)." to "Mitigation, including greenhouse gas emissions reductions, avoidance, and removal and sequestration, as well as management of other climate forcing factors (WGIII AR6), is a key element of addressing climate risk and pursuing CRD."
Chapter 18: Climate resilient development pathways	34	10	34	12	Change "and limiting global average warming to any temperature level has also been found to be associated with broad ranges of emissions pathways representing socioeconomic, technological, market, physical uncertainties (very high confidence)" to "and limiting global average warming to any temperature level has also been found to be associated with broad ranges of potential global emissions pathways that represent future uncertainty in the evolution of socioeconomic, technological, market and physical systems (very high confidence)"
Chapter 18: Climate resilient development pathways	35	4	35	4	Change "Social and sustainability concerns" to "Social, environmental, and sustainability concerns"
Chapter 18: Climate resilient development pathways	35	53	35	54	Change "Results like those in Figure 18.5 illustrate that mitigation-development trade-offs and balancing of societal priorities are inevitable and need to be considered." to "Results such as those in Figure 18.5 illustrate that mitigation–development trade-offs are inevitable and need to be considered and addressed."
Chapter 18: Climate resilient development pathways	35	54	35	55	Change "For instance, Roy (2018) found that none of the 1.5˚C and 2˚C pathways assessed achieved all of the UN's Sustainable Development Goals (SDGs)." to "For instance, Roy (2018a) found that although limiting warming to 1.5°C would make it markedly easier to achieve most of the UN's SDGs, none of the 1.5°C pathways assessed achieved all of the SDGs. A similar conclusion follows from the results in Figure 18.5 based on WGIII AR6 scenarios."
Chapter 18: Climate resilient development pathways	35	56	35	56	Insert after "trade-offs" the following sentence: "Results like those in Figure 18.5 provide insights regarding some of the types of strategy sets to consider."

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 18: Climate resilient development pathways	38	2	39	2	Update caption for Figure 18.5 to read as follows: "Regional implications of climate mitigation pathways in 2050 for different global mean peak temperature outcomes (during the century) for various development and sustainable development proxy variables. Each row reports results for a different variable for each of the five global regions (columns) used by WGIII, and SDG associated with each variable is noted. Blue dots represent individual emissions scenario results from each of the respective WGIII climate outcome scenario categories, with red bars the median results. All results are changes (percentage or fraction) relative to each WGIII scenario's reference scenario. In some circumstances the reference case emissions are below those from the scenario consistent with a global warming level, which can produce results that appear counter-intuitive (e.g., increases in GDP or consumption). Data sample sizes vary substantially across temperature levels for a given variable and across variables due to model infeasibilities and model differences in reporting. Model infeasibilities, in particular, result in significantly fewer data points for 1.5˚C compatible emissions pathways compared to 2˚C pathways (i.e., models are more often unable to solve for a 1.5˚C consistent pathway, than a 2˚C pathway, with a given set of assumptions). Food/feed crop price results were not available for 1.5˚C and 4˚C warming levels. Sample sizes for each variable and warming level respectively—1.5˚C, 2˚C, 3˚C, and 4˚C—are as follows (and apply to all regions): GDP (n = 2, 93, 29, 12); Consumption (2, 93, 30, 13); Black Carbon (2, 100, 39, 16), NOx (2, 100, 39, 15), SO2 (2, 100, 39, 16), price food/feed crops (0, 44, 23, 0); price electricity (2, 94, 38, 15); price natural gas (10, 86, 44, 10). The sample sizes are very small for the 1.5˚C and 4˚C results; therefore, the medians for these warming levels are statistically unreliable, which should be considered in comparing across warming levels. Individual values in the samples exceed y-axis' ranges in a few cases: black carbon 2˚C Latin America minimum equals 0.08, food/feed price change 3˚C minimums in Asia, Latin America, Middle East/Africa, OECD, and Reforming Economies equal respectively -33%, -28%, -28%, -29%, and -29%, natural gas price change 2˚C maximums in Asia, Latin America, Middle East/Africa, OECD, and Reforming Economies equal respectively 962%, 1240%, 2768%, 917%, and 3588%. Figure developed from the WGIII AR6 scenarios database, with scenarios filtered according to WGIII exclusions and regional vetting."
Chapter 18: Climate resilient development pathways	39	25	39	27	Change "These types of global aggregate analyses inform discussions regarding long-run global pathways and goals but are of limited value to local near-term planning." to "These types of global aggregate analyses inform discussions regarding long-run global pathways and goals but are not designed to inform local planning."
Chapter 18: Climate resilient development pathways	39	42	39	42	Insert confidence statement before citation: "(very high confidence)"
Chapter 18: Climate resilient development pathways	39	44	39	47	Change "Non-linear estimated economic climate damage means increasingly higher damages for each additional incremental increase in climate change (e.g., global average temperature) (very high confidence)." to "Nonlinear increases in estimated economic climate damage means increasingly higher damages for each additional incremental increase in climate change (e.g., global average temperature). However, the evidence on whether damages increase at an increasing or decreasing rate is mixed (Chapter 16 CWGB: ECONOMIC).
Chapter 18: Climate resilient development pathways	40	8	40	8	Change heading to read: "Trade-offs and synergies in adaptation, mitigation and climate-resilient development"
Chapter 18: Climate resilient development pathways	41	38	41	38	insert cross reference to "Box 4.7" at end of sentence.
Chapter 18: Climate resilient development pathways	41	40	41	43	Change text of paragraph to read as follows: "Overall, this literature is relatively new and still developing. It highlights the importance of societal priorities and policy design for realizing synergies. However, the literature is not well developed in terms of how to optimize mitigation, adaptation and sustainable development interventions to achieve multiple priorities."
Chapter 18: Climate resilient development pathways	41	46	41	46	Insert the following sentence at the beginning of the paragraph: "Given the global climate system is committed to additional future warming, different portfolios of adaptation, mitigation, and sustainable development interventions are relevant for climate risk management."
Chapter 18: Climate resilient development pathways	41	47	41	47	Change "risk management" to "climate risk management"
Chapter 18: Climate resilient development pathways	42	2	42	2	Change "those that do adopt" to "those that are able to adopt"
Chapter 18: Climate resilient development pathways	42	19	42	19	change "managing" to "addressing"
Chapter 18: Climate resilient development pathways	42	23	42	23	change "higher climates" to "higher levels of warming"
Chapter 18: Climate resilient development pathways	42	27	42	27	change "higher climates" to "higher levels of warming"

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Chapter 18: Climate resilient development pathways	42	33	42	47	Replace with: “Climate resilient development is not necessarily defined by a specific climate change goal, such as limiting global average warming to 1.5˚C. With surpassing 1.5˚C a distinct possibility, considering higher levels of warming is a necessity. CRD could be pursued with additional adaptation, recognizing increasing challenges for adaptation and sustainable development with higher warming, just as there are increasing challenges for mitigation and sustainable development with limiting warming to lower levels. There are many possible pathways for pursuing climate-resilient development, though our understanding of the possibilities with different levels of warming is currently limited (e.g., David Tàbara et al., 2018; O’Brien, 2018). The current literature suggests that different mixes of adaptation and mitigation strategies and constraints, and sustainable development and trade-off management priorities, measures, and reallocations (Section 18.5.3.1), will need to be considered for different expected climates and locations (18.1.2); while trade-offs between climates will be dictated by relative non-linearities, feasibilities, shifts in priorities, and trade-off and reallocation options across future climates. Finally, it is important to note that there is currently limited information available regarding the following: (1) local implications of 1.5˚C versus warmer futures with respect to local climate, avoided impacts, and sustainable development implications and interactions given that applying global conclusions to local, national, and regional settings can be misleading, (2) local context-specific synergies and trade-offs with respect to local adaptation, mitigation, and sustainable development for 1.5˚C futures, and (3) standard indicators for monitoring factors related to CRD (Roy et al., 2018).”
Chapter 18: Climate resilient development pathways	45	47	47	28	Box 18.5 deleted due to insufficient supporting evidence
Chapter 18: Climate resilient development pathways	49	7	52	3	Box 18.6 and associated table numbering changed to 18.5 due to deletion of original Box 18.5
Chapter 18: Climate resilient development pathways	53	33	53	34	Change "can be triggered" to "could be triggered"
Chapter 18: Climate resilient development pathways	53	36	53	36	Change "options helps to drive" to "options could help to drive"
Chapter 18: Climate resilient development pathways	53	37	53	37	Insert following sentence at end of paragraph: "However, some have argued that such promotional campaigns that target consumers do little to incentivize sustainable development and climate action (Farrell, 2015; Grydehøj and Kelman, 2017)."
Chapter 18: Climate resilient development pathways	65	45	65	45	Change "Four key insights regarding the nexus of political economy and CRD emerge from this literature." to "Review and assessment of this literature reveals our key insights about the relationship between the political economy and CRD." Append this sentence to end of preceeding paragraph.
Chapter 18: Climate resilient development pathways	65	45	65	51	Change paragraph (after first sentence) to read as follows: "First, the political economy drives coupled development–climate change trajectories and determines vulnerability, thereby potentially subjecting those least responsible for climate change to the greatest risk (Sovacool et al., 2015; Barnett, 2020). The legitimacy, viability and sustainability of the prevailing political economy is being called into question because of its role in driving vulnerability in a changing climate (Barnett, 2020), thus undermining the prospects for CRD.As underpinning political economy ideologies, interests and institutions change, the cause of the vulnerable is being appropriated, the drivers of vulnerability and the adaptation agenda are depoliticised, and market-based solutions advocated in ways that sustain the prevailing political economy at the expense of those most at risk. Political economy interests and institutions that drive vulnerability are thus themselves at risk because worsening climate change raises questions about their legitimacy and political and economic viability (Barnett, 2020)."
Chapter 18: Climate resilient development pathways	66	17	66	21	Change "With a narrow window of time to contain dangerous levels of global warming, political economy research calls for CRD trajectories that counter the globalized neoliberal hegemony (Newell and Lane, 2020), especially given the pandemic, and the intersection of economic power and public health, environmental quality, climate change, and human and indigenous rights (Bernauer and Slowey, 2020; Schipper et al., 2020b)." to "With a narrow window of time to contain dangerous levels of global warming, political economy research calls for CRD trajectories that counter the tendency of the prevailing political economy to compound climate change impacts and risk (Newell and Lane, 2020), especially given the opportunity to realise co-benefits through pandemic recovery efforts that take into account vulnerability and the intersection of economic power and public health, environmental quality, climate change, and human and indigenous rights (Bernauer and Slowey, 2020; Schipper et al., 2020b)."
Chapter 18: Climate resilient development pathways	66	24	66	24	change "social" to "societal"
Chapter 18: Climate resilient development pathways	66	28	66	31	change "This view is consistent with sustainable development being a process constituted by multiple actions that are contested and have path dependencies and context-sensitive synergies and trade offs with natural and embedded human systems as well as bounded by multiple and contested knowledges and worldviews (Goldman et al., 2018; Heinrichs, 2020; Nightingale et al., 2020; Schipper et al., 2020b)." to "This view is consistent with sustainable development being a process constituted by multiple inter-related societal choices and actions that are often contested as the needs and interests of current and future generations are addressed. Development choices have path dependencies and context-sensitive synergies and trade-offs with natural and embedded human systems, and they are bounded by multiple and contested knowledges and worldviews (Goldman et al., 2018; Heinrichs, 2020; Nightingale et al., 2020; Schipper et al., 2020b). Consequently, societal choices about the political economy underpin prospects for moving towards or away from CRD."

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Chapter 18: Climate resilient development pathways	67	36	67	36	insert "the UN Convention to Combat Desertification (UNCCD, 1994)" after "UNFCCC, 1992)"
Chapter 18: Climate resilient development pathways	69	69	70	70	Box numbering changed to Box 18.6
Chapter 18: Climate resilient development pathways	71	44	71	44	Additional citations added to existing ciations: "Cornell et al., 2013; Guido et al., 2020"
Chapter 18: Climate resilient development pathways	73	46	73	49	Change "Traditional, modern and postmodern worldviews have different, and in many ways, complementary potentials for integrative diverse approaches to climate action and sustainable development. They can also destabilize climate-sensitive societal values (van Egmond and de Vries, 2011; Van Opstal and Hugé, 2013; De Witt et al., 2016; Shaw, 2016) which are predictors of concern (Shi et al., 2015)." to "Traditional, modern and post-modern worldviews have different, and in many ways, complementary potentials for enabling diverse approaches to climate action and sustainable development. They can also shift societal values and societal concern for climate change (Shi et al., 2015), resulting in changes in behaviour and acceptance of climate change policies (van Egmond and de Vries, 2011; Van Opstal and Hugé, 2013; De Witt et al., 2016; Shaw, 2016) which are predictors of concern."
Chapter 18: Climate resilient development pathways	73	55	73	56	Change "To address these difficult contests, climate- and global environmental change-related worldviews are often scientized.This can exclude other worldviews which ultimately narrows understanding of climate change and the solution space." to "To address these difficult contests, worldviews regarding climate and global environmental change are often expressed in scientific language and themes (Parsons et al., 2016; Goldman et al., 2018). This can exclude other worldviews grounded in other forms of knowledge or ways of knowing which ultimately narrows understanding of climate change and the solution space."
Chapter 18: Climate resilient development pathways	74	11	74	13	Change "On the other hand, the tendence for certain worldviews to dominate the policy discourse has the potential to exacerbate social, economic and political inequities (very high confidence). ontological, epistemic and procedural injustices." to "On the other hand, the tendency for certain worldviews to dominate the policy discourse has the potential to exacerbate social, economic and political inequities as well as ontological, epistemic and procedural injustices (very high confidence).
Chapter 18: Climate resilient development pathways	106	19	106	49	Text for FAQ 18.1 should read as follows: "A pathway is defined in IPCC reports as a temporal evolution of natural and/or human systems towards a future state. Pathways can range from sets of scenarios or narratives of potential futures to solution-oriented decision-making processes to achieve desirable societal goals. Climate-resilient development pathways (CRDPs) are therefore trajectories for the pursuit of climate resilient development (CRD) and navigating its complexities. They involve ongoing processes that strengthen sustainable development, eradicate poverty and reduce inequalities while promoting fair adaptation and mitigation across multiple scales. As the pursuit of CRDPs is contingent on achieving larger-scale societal transformation, CRDPs invariably raise questions of ethics, equity and feasibility of options to drastically reduce emission of greenhouse gasses (mitigation) that limit global warming (e.g., to well below 2°C) and achieve desirable and liveable futures and well-being for all. There in no one, correct pathway for CRD, but rather multiple pathways depending on factors such as the political, cultural and economic contexts in which different actors find themselves. Some development pathways are more consistent with CRD, while others move society away from CRD. Moreover, CRDPs are not one single decision or action. Rather, CRDPs represent a continuum of coherent, consistent decisions, actions and interventions that evolve within individual communities, nations, and the world. Different actors, the private sector, and civil society, influenced by science, local and Indigenous knowledges, and the media play a role in designing and navigating CRD pathways. While dependent on past patterns of development and their socio-ethical, political, economic, ecological and knowledge-technology outcomes at any point in time, transformation, ecological tipping points and shocks can create sudden shifts and unexpected nonlinear development pathways. Actions taken today can enable or foreclose some future potential CRDPs. The differentiated impacts of hurricanes and COVID-19 on nations and communities around the world illustrate how the character of societal development such as equity and inclusion have enabled some

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Chapter 18: Climate resilient development pathways	106	52	108	15	Text for FAQ 18.2 should read as follows: Climate resilient development (CRD) is a process of implementing greenhouse gas mitigation and adaptation options to support sustainable development for all in ways that support human and planetary health and well-being, equity and justice. CRD combines adaptation and mitigation with underlying development choices and everyday actions, carried out by multiple actors within political, economic, ecological, socio-ethical and knowledge-technology arenas. The character of processes within these development arenas are intrinsic to how social choices are made and they determine whether development moves society along pathways toward CRD or away. For example, inclusion, agency and social justice are qualities within the political arena that underpin actions that enable CRD. CRD addresses the relationship between GHG emissions, levels of warming and related climate risks. However, CRD involves more than just achieving temperature targets. It considers the possible transitions that enable those targets to be achieved as well as the evaluation of different adaptation strategies and how the implementation of these strategies interact with broader sustainable development efforts and objectives. This interdependence between patterns of development, climate risk and the demand for mitigation and adaptation action is fundamental to the concept of CRD. Therefore, climate change and sustainable development cannot be assessed or planned in isolation of one another. Hence, CRD represents development that deliberately adopts mitigation and adaptation measures to secure a safe climate on earth, meet basic needs for each human being, eliminate poverty and enable equitable, just and sustainable development. It halts practices causing dangerous levels of global warming. CRD may involve deep societal transformation to ensure well-being for all. CRD is now emerging as one of the guiding principles for climate policy, both at the international level, reflected in the Paris Agreement (UNFCCC, 2015), and within specific countries.
Chapter 18: Climate resilient development pathways	108	18	108	49	Text for FAQ 18.3 should read as follows: "CRD entails trade-offs between different policy objectives. Governments as well as political and economic elites may play a key role in defining the direction of development at a national and sub-national scale; but in practice, these pathways can be influenced and even resisted by local people, non-governmental organisations (NGOs) and civil society. Given such tensions, contestation and debate are inherent to the definition and pursuit of CRD. An active civil society and citizenship create the enabling conditions for deliberation, protest, dissent and pressure, which are fundamental for an inclusive participatory process. These enable a multiplicity of actors to engage across multiple arenas including governmental, economic and financial, political, knowledge, science & technology, and community. Decisions and actions may be influenced by uneven interactions among actors, including socio-political relations of domination, marginalisation, contestation, compliance and resistance, with diverse and often unpredictable outcomes. In this way, recent social movements and climate protests reflect new modalities of action in response to social, economic, and political inaction. The new climate movement, led mostly by youth, seeks science-based policy and, more importantly, rejects a reformist stance toward climate action in favour of radical climate action. This is mostly pursued through collective disruptive action and non-violent resistance to promote awareness, a regenerative culture and ethics of care. These movements have resulted in notable political successes, such as declarations of climate emergency at the national and local level, as well as in universities. Also, their methods have proven effective to end fossil fuel sponsorship. The success and importance of recent climate movements also suggest a need to rethink the role of science in society. On one hand, the new climate movements demanding political action were prompted by the findings of scientific reports, mainly the IPCC (2018a) and IPBES (2019) reports. On the other hand, these movements have increased public awareness and stimulated public
Chapter 18: Climate resilient development pathways	108	52	109	10	Text for FAQ 18.4 should read as follows: "The IPCC SR1.5 report identified transitions in four key systems, including energy, land and ocean ecosystems, urban and infrastructure, and industry, as being fundamental to the pursuit of CRD. In addition, this report identifies societal transitions, in terms of values and worldviews that shape aspirations, lifestyles and consumption patterns, as another key component of CRD. Acknowledging societal transitions has implications for how one assesses options and values different outcomes from the perspectives of ethics, equity, justice and inclusion. Collectively, these system transitions can widen the solution space and accelerate and deepen the implementation of sustainable development, adaptation, and mitigation actions by equipping actors and decision-makers with more effective and more equitable options. However, the way they are pursued may not necessarily be perceived as ethical or desirable to all actors. Moreover, system transitions are necessary precursors for more fundamental climate and sustainable-development transformations. Yet, these transitions can themselves be outcomes of transformative actions."

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Chapter 18: Climate resilient development pathways	109	13	109	32	Text for FAQ 18.5 should read as follows: CRD is not a predefined goal to be achieved at a certain point or stage in the future. It is a constant process of evaluating, valuing, acting and adjusting various options for mitigation, adaptation and sustainable development, shaped by societal values as well as contestations of those values. Any achievement or success is always a work in progress driven by with continuous, directed, intentional actions. These actions will vary according to the priorities and needs of each population or system; therefore, specific criteria for, and indicators of, CRD will vary according to each specific context. This respect for context ensures the pursuit of CRD prioritizes people, planet, prosperity, peace and partnership, per the broad goals of the Agenda 2030 on sustainable development. If CRD is defined as a process of implementing greenhouse gas mitigation and adaptation options to support sustainable development for all, this implies various potential criteria for success. These include the adoption of mitigation and adaptation measures to secure a safe climate, meet basic needs, eliminate poverty and enable equitable, just and sustainable development for all. Therefore, the 17 United Nations' SDGs provide a good (although limited) measure of progress toward CRD. The SDGs aim at ending poverty and hunger globally and protect life on land and underwater until the year 2030. Although there are proven synergies between the SDGs and mitigation, there remain clear synergies between the SDGs and adaptation to be explored in terms of how adaptation relates to the fulfilment of the SDGs.
Chapter 18: Climate resilient development pathways	155	15	155	23	Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	155	15	155	23	Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	160	25	160	57	Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	160	25	160	57	Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	172	1	172	1	Figure Cross-Chapter Box FEASIB.2: every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	172	1	172	1	Figure Cross-Chapter Box FEASIB.2: every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	172	2	172	2	Caption for CCB FEASIB2: This figure summarizes the assessment results classifying options by System Transitions and Representative Key Risks. Each option is assessed across six dimensions: economic, technological, institutional, socio-cultural, environmental and geophysical. Each dimension is assessed as high (big circle), medium (medium circle), low (small circle) feasibility, and limited evidence or no evidence (LE/NE, as a dash). Composite feasibility is calculated across the six dimensions following the same key as above, with feasibility levels determined by circle size and confidence levels by shades of color. The last column shows options with strong synergies with mitigation, which is then broken down in Fig. CCB FEASIB 3.
Chapter 18: Climate resilient development pathways	172	2	172	2	Caption for CCB FEASIB2: This figure summarizes the assessment results classifying options by System Transitions and Representative Key Risks. Each option is assessed across six dimensions: economic, technological, institutional. Socio-cultural, environmental and geophysical. Each dimension is assessed as high (big circle), medium (medium circle), low (small circle) feasibility, and limited evidence or no evidence (LE/NE, as a dash). Composite feasibility is calculated across the six dimensions following the same key as above, with feasibility levels determined by circle size and confidence levels by shades of color. The last column shows options with strong synergies with mitigation, which is then broken down in Fig. CCB FEASIB 3.
Chapter 18: Climate resilient development pathways	173	1	173	1	Figure Cross-Chapter Box FEASIB.3 (a): every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	173	1	173	1	Figure Cross-Chapter Box FEASIB.3 (a): every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	173	1	173	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Biodiversity management and ecosystem connectivity", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	173	1	173	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Biodiversity management and ecosystem connectivity", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	173	1	173	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Agroforestry", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	173	1	173	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Agroforestry", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	174	2	174	6	Caption for CCB FEASIB3, Panel A: This figure summarises the synergies and trade-offs for mitigation of the adaptation options presented in CCB FEASIB2. The strength of the synergy or trade-off is depicted by the size of the circle (strong as big, weak as small) and the confidence through the color (high was dark and low as light).
Chapter 18: Climate resilient development pathways	174	2	174	6	Caption for CCB FEASIB3, Panel A: This figure summarises the synergies and trade-offs for mitigation of the adaptation options presented in CCB FEASIB2. The strength of the synergy or trade-off is depicted by the size of the circle (strong as big, weak as small) and the confidence through the color (high was dark and low as light).
Chapter 18: Climate resilient development pathways	174	2	174	6	Caption for CCB FEASIB3, Panel B: This figure summarises the synergies and trade-offs for adaptation of mitigation options. The strength of the synergy or trade-off is depicted by the size of the circle (strong as big, weak as small) and the confidence through the color (high was dark and low as light).

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Chapter 18: Climate resilient development pathways	174	2	174	6	Caption for CCB FEASIB3, Panel B: This figure summarises the synergies and trade-offs for adaptation of mitigation options. The strength of the synergy or trade-off is depicted by the size of the circle (strong as big, weak as small) and the confidence through the color (high was dark and low as light).
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Energy reliability", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Energy reliability", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Resilient power systems", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.3 (a): in the option "Resilient power systems", the circle representing synergies with mitigation should reflect strong synergies with high confidence.
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: "Sustainable forest management" positive nexus with SDG 7,8,9 should be added
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: "Sustainable forest management" positive nexus with SDG 7,8,9 should be added
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: For "efficient livestock systems" in Panel A synergies with mitigation, change 'low synergies' to 'medium synergies', confidence language (medium confidence) remains the same.
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: For "efficient livestock systems" in Panel A synergies with mitigation, change 'low synergies' to 'medium synergies', confidence language (medium confidence) remains the same.
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: in the option "Coastal defence", nexus with SDG 3: positive, 10: negative, 11 mixed, 14 mixed, 15 mixed nexus should be added
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: in the option "Coastal defence", nexus with SDG 3: positive, 10: negative, 11 mixed, 14 mixed, 15 mixed nexus should be added
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: in the option "Integrated coastal zone management", nexus with SDG 3 Positive, 5: Leave blank, 8: positive, 16: positive, 17: positive should be added
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: in the option "Integrated coastal zone management", nexus with SDG 3 Positive, 5: Leave blank, 8: positive, 16: positive, 17: positive should be added
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: Rename "Sustainable forest management* (with footnote) including conservation, reforestation and afforestation" to "Forest-based adaptation* (with footnote) including sustainable forest management, forest conservation and restoration, reforestation and afforestation".
Chapter 18: Climate resilient development pathways	175	1	175	1	Figure Cross-Chapter Box FEASIB.4: Rename "Sustainable forest management* (with footnote) including conservation, reforestation and afforestation" to "Forest-based adaptation* (with footnote) including sustainable forest management, forest conservation and restoration, reforestation and afforestation".
Chapter 18: Climate resilient development pathways	175	2	175	2	Caption for CCB FEASIB4. This figure summarises the assessment of the nexus of each adaptation option considered in this CCB with the 17 Sustainable Development Goals (SDGs). SDGs with which there is a nexus are colored and have a + for positive nexus, - for negative nexus and +/- for mixed nexus. Blank cells either don't have a nexus or there is no or limited evidence of such nexus.
Chapter 18: Climate resilient development pathways	175	2	175	2	Caption for CCB FEASIB4. This figure summarises the assessment of the nexus of each adaptation option considered in this CCB with the 17 Sustainable Development Goals (SDGs). SDGs with which there is a nexus are colored and have a + for positive nexus, - for negative nexus and +/- for mixed nexus. Blank cells either don't have a nexus or there is no or limited evidence of such nexus.
Chapter 18: Climate resilient development pathways	175	21	175	21	Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways	175	21	175	21	Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries"
Chapter 18: Climate resilient development pathways					(b) Actions and outcomes characterizing higher CRD Pathways
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-SDG 5 (net impact): For 'Mountain ecosystem', replace '+ (enabling)' with '- (constraining)'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector: Replace 'Health' by 'Health, well-being, and changing communities' structure'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector: Replace 'Industry' by 'Industrial system transition'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector: Replace 'Mountain' by 'Mountain ecosystem'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector: Replace 'Poverty' by 'Poverty, livelihood & Sustainable Development'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector: Replace 'Terrestrial' by 'Terrestrial & freshwater ecosystem'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector:Replace 'Cities' by 'Cities, settlement & key infrastructure'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector:Replace 'Food' by 'Food, fibre & others'
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector:Replace 'Ocean' by 'Ocean & coastal ecosystem
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1- Column-Sector:Replace 'Water' by 'Urban water & sanitation

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Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1-Sector colour: Colour of 'Mountain ecosystem' will be RED and not GREEN
Chapter 18 Supplementary Material	2	1	5		Table SMCCB GENDER.1: Flip the position of 'Health, well-being, and changing communities' structure' and 'Industrial system transition'. 'Industrial system transition' should come after 'Health, well-being, and changing communities' structure' following the figure in the chapter text.
CCP1: Biodiversity Hotspots	2	43	2	43	Replace "could" by "can"
CCP1: Biodiversity Hotspots	8	24	8	24	Replacy "may" by "can"
CCP1: Biodiversity Hotspots	9	3	9	3	Add "the analytical package" before "VoCC"
CCP1: Biodiversity Hotspots	10	32	8	33	Replace "Predicted actual" by "Modelled"
CCP1: Biodiversity Hotspots	14	24	14	24	Replacy "may be" by "are"
CCP1: Biodiversity Hotspots	14	50	14	50	Replace "Costello, in press" by "Costello, 2021"
CCP1: Biodiversity Hotspots	16	4	16	4	Replace "and focus" by "and focused on"
CCP1: Biodiversity Hotspots	16	31	16	13	Replace "predicting" by "showing"
CCP1: Biodiversity Hotspots	17	28	17	28	Replace "may" by "are projected to be"
CCP1: Biodiversity Hotspots	17	38	17	38	Replace "may" by "is projected to be"
CCP1: Biodiversity Hotspots	17	38	17	38	Replace "may" by "is projected to be"
CCP1: Biodiversity Hotspots	17	41	17	41	Replace "spatial" by "changing climate"
CCP1: Biodiversity Hotspots	17	42	17	42	Append to list of references "; Bellard et al., 2014b; Chapter 15
CCP1: Biodiversity Hotspots	21	2	21	2	Add ", and" after "second row)"
CCP1: Biodiversity Hotspots	21	3	21	3	Add " for Drakensberg region, and" after "elephant)"
CCP1: Biodiversity Hotspots	23	27	23	27	Replace "may" by "can"
CCP1: Biodiversity Hotspots	23	37	23	27	Replace "would" by "to"
CCP1: Biodiversity Hotspots	24	8	24	8	Replace "that climate change would" by "climate change to"
CCP1: Biodiversity Hotspots	26	25	26	25	Replace "may" by "are able tol"
CCP1: Biodiversity Hotspots	26	35	26	35	Replace "both" by "the Atlantic and Pacific"
CCP1: Biodiversity Hotspots	27	1	27	1	Add "there is" before low confidence for climate change
CCP1: Biodiversity Hotspots	27	31	27	31	Replace "may" by "are expected to"
CCP1: Biodiversity Hotspots	27	32	27	33	Replace "appear unlikely" by "are not expected to"
CCP1: Biodiversity Hotspots	27	36	27	36	Replace "may lead" by "is projected to lead"
CCP1: Biodiversity Hotspots	27	39	27	39	Add "projected to be" after "gains and losses are"
CCP1: Biodiversity Hotspots	28	5	28	5	Add "some" after "limit the capacity of"
CCP1: Biodiversity Hotspots	29	8	29	8	Replace "richspot" by "hotspot"
CCP1: Biodiversity Hotspots	30	6	30	6	Replace "Working Group II Interactive Atlas" by "Gutiérrez et al., 2021"
CCP1: Biodiversity Hotspots	30	45	30	45	Replace "Costello, in press" by "Costello, 2021"
CCP1: Biodiversity Hotspots	30	56	30	56	Replace "may" by "can"
CCP1: Biodiversity Hotspots	31	13	31	13	Add "draf" after "post-2020"
CCP1: Biodiversity Hotspots	31	13	31	13	Capitalize "Global Biodiversity Framework"
CCP1: Biodiversity Hotspots	31	13	31	13	Replace "target" by "Target"
CCP1: Biodiversity Hotspots	32	0	32	0	In Table CCP1.2, row 'Carbon sequestration' replace "biodiversity" by "plants"
CCP1: Biodiversity Hotspots	33	6	33	5	Replace "may be resilient" by "have shown resilience"
CCP1: Biodiversity Hotspots	33	13	33	13	Replace "may" by "is expected"
CCP1: Biodiversity Hotspots	33	39	33	39	Replace "CCP1.2.4" by "CCP1.2"
CCP1: Biodiversity Hotspots	34	41	34	44	Append at the end of the sentence "to minimise species losses"
CCP1: Biodiversity Hotspots	34	42	34	42	Delete "and scientific community"
CCP1: Biodiversity Hotspots	34	50	34	50	Replace "Decade of Oceans" by "Decade of the Ocean Science for Sustainable Development"
CCP1: Biodiversity Hotspots	34	50	34	50	Replace "Decade of Restauration" by "Decade on Ecosystem Restauration"
CCP1: Biodiversity Hotspots	38	11	38	11	Replace "Costello, in press" by "Costello, 2021"
CCP1 Supplementary Material	1	28	1	28	Remove "sets of"
CCP1 Supplementary Material	1	32	1	32	Replace "30-50%" by "30–50% "
CCP1 Supplementary Material	1	33	1	33	Replace "land - yellow" by "land – yellow"
CCP1 Supplementary Material	1	35	1	35	Add "of" after "suggested goals"
CCP1 Supplementary Material	1	36	1	36	Remove "Numbered"
CCP1 Supplementary Material	1	41	1	41	Replace "for more details" by "which has more"
CCP2: Cities and Settlements by the Sea	10	39	10	39	Figure CCP2.3: Remove data point from Greenland.
CCP2: Cities and Settlements by the Sea	15	33	15	33	Figure CCP2.4: In panel (a) change "Floating cities" to "Floating structures (experimental)"
CCP2: Cities and Settlements by the Sea	15	33	15	33	Figure CCP2.4: In panel (b) change point 7 to "Frequent flooding, flooding create access problems"
CCP4: Mediterranean Region	4	27	4	28	Executive summary: "A growing number of observed impacts across the entire basin are now being attributed to climate change, along with major roles of other forcings of environmental change (medium to high confidence)." => this should be "high confidence", as shown in section 4.1.4.
CCP4: Mediterranean Region	8	7	8	7	Figure CCP4.4: Change title to become "Bioclimatic regions (Köppen-Geiger classification) and terrestrial biodiversity hotspots in the Mediterranean region"
CCP4: Mediterranean Region	10	24	10	24	At the end of the paragraph which begins with "The agricultural sector", the following sentences should be added: "Grassland and pastoral systems are also vulnerable to increasing drought, notably in the western part of the basin (Balzan et al, 2020). Increased heat stress in summer negatively impacts animal health and welfare, i.e., increased incidence of diseases and mortality or lower fertility (Lacetera 2019)."
CCP4: Mediterranean Region	12	13	12	13	Figure CCP4.6: Change title to become "Present-day and projected land below high-tides in the Nile delta, due to sea-level rise and land subsidence"
CCP4: Mediterranean Region	12	13	12	13	Figure CCP4.6: panel (a) to be labelled "present-day conditions"
CCP4: Mediterranean Region	12	13	12	13	Figure CCP4.6: panel (b) to be labelled "2100, at 0.43 m sea-level rise (SSP1-2.6)"
CCP4: Mediterranean Region	12	13	12	13	Figure CCP4.6: panel (c) to be labelled "2100, at 0.75 m sea-level rise (SSP5-8.5)"

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CCP4: Mediterranean Region	12	13	12	13	Figure CCP4.6: panel (d) to be labelled "2100, at 1.7 m sea-level rise (SSP5-high-end)"
CCP4: Mediterranean Region	12	13	12	13	Figure CCP4.6: in legend change "5000" to become "6000"
CCP4: Mediterranean Region	12	14	12	14	Change caption text to "Figure CCP4.6: Land area located below high-tides in the Nile delta (Egypt) for present-day conditions and for projected sea-level rise and land subsidence. A) present-day conditions; B) median sea-level projection SSP1-2.6 by 2100 for the Eastern Mediterranean; C) median SSP5-8.5 sea-level projection by 2100; D) SSP5-8.5 sea-level projection by 2100, involving additional losses from ice-sheet melt, for which there is low-confidence (see AR6-WG1-Ch9). The exposed low-lying area will not necessarily be flooded because of enhanced coastal adaptation measures, but sea levels will continue to rise for centuries after 2100 (see AR6-WG1-Ch9). The land area below high-tide levels is projected to expand significantly for 1.7m sea-level rise in the eastern part of the delta due to land subsidence, as well as for all scenarios (Frihy et al., 2010; Ali and El - Magd, 2016; Kulp and Strauss, 2019; sea-level scenarios are regionalized in the Nile Delta area based on AR6 -WG1 - Ch9, following the method in SMCCP4.4)."
CCP4: Mediterranean Region	17	17	17	17	Figure CCP4.8: Change title to read "Key risks in the Mediterranean region"
CCP4: Mediterranean Region	24	2	24	2	Figure CCP4.9: Change the title to read "Indicators for the achievement of the Sustainability Development Goals in the Mediterranean region"
CCP4: Mediterranean Region	40	28	40	28	Between the references "Kutiel 2019" and "Lacroix 2016", the following reference should be inserted "Lacetera, N., 2019: Impact of climate change on animal health and welfare. Anim. Front., 9, 26–31. doi: 10.1093/af/vfy030"
CCP4: Supplementary Material	6	6	6		"Table SMCCP4.2c: Supporting material for inland ecosystems" => This should be "Supporting material for terrestrial and freshwater ecosystems"
CCP4: Supplementary Material	6	6	6		Table SMCCP4.2c: The confidence is high (not medium) for Undetecteable to Moderate, medium (not high) for Moderate to high – this is important because there is inconsistency with the burning embers then.
CCP5: Mountains	3	29	3	29	"impacted" instead of "affected"
CCP5: Mountains	3	Footnote, line 1	3	Footnote, line 1	add "(Mastrandrea et al., 2010)" after "evidence"
CCP5: Mountains	6	19	6	19	replace "decades" with "decade" (should not be plural)
CCP5: Mountains	6	45	6	45	add "carried out' after "key risks assessment"
CCP5: Mountains	8	2	8	2	replace "high" with "higher"
CCP5: Mountains	9	1	9	1	replace "climate" with "rates" in "warming climate"
CCP5: Mountains	14	46	14	46	add 'and' before South America
CCP5: Mountains	15	9	15	9	add 'is reported' after Himalayan region (Hopping et al 2018). likewise should be changed to Likewise
CCP5: Mountains	15	15	15	15	change "Hock et al. (2019)" to "Hock et al. 2019)".
CCP5: Mountains	15	18	15	18	Gynostemmapentaphyllum should be changed to 'Gynostemma pentaphyllum'
CCP5: Mountains	21	41	21	41	Change '10.3' to '10.4.4.5'
CCP5: Mountains	21	41	21	41	Change '4.4.1.3' to 'BOX 4.1'
CCP5: Mountains	24	7	24	7	delete "involve in the"
CCP5: Mountains	28	1	28	1	Figure CCP5.5 legend under global warming in both Panel a and b should be 1.3 - 1.7 and not 1.5 - 1.7
CCP5: Mountains	29	1	29	1	Change '4.2.2.3' to '4.5.7 and 4.7'
CCP5: Mountains	29	19	29	19	Change '4.5.3' to '4.7'
CCP5: Mountains	29	26	29	32	Change 'GLWs' to 'GWLs'
CCP5: Mountains	30	2	30	2	Check if the reference to Table SMCCP5.19 is relevant here.Table SMCCP5.19 is for KR2 - water, but reference to the Table is given in section for KR3 - ecosystems. Consider to move this reference to p. 28, section CCP5.3.2.2.
CCP5: Mountains	30	8	30	8	add "trends" between "current" and "will"
CCP5: Mountains	30	8	30	8	Change Chapter 2.4 to Section 2.4
CCP5: Mountains	31	13	31	13	Change '16.3.2.5' to '16.3.2.4'
CCP5: Mountains	31	38	31	38	Change '4.5.2.1' to '4.6.6'
CCP5: Mountains	31	48	31	48	Change 'Sections' to 'Section'
CCP5: Mountains	32	5	32	5	Change '16.3.2.5' to '16.3.2.4'
CCP5: Mountains	36		36		Table CCP5.3, second bullet from the top of the page across and along the row starting with "Limited amount and scope of literature available..." - change "mountains social-ecological systems" to "mountain social-ecological systems"
CCP5: Mountains	54	45	54	45	In front of "Mastrorillo" add " Mastrandrea, M.D., C.B. Field, T.F. Stocker, O. Edenhofer, K.L. Ebi, D.J. Frame, H. Held, E. Kriegler, K.J. Mach, P.R. Matschoss, G.-K. Plattner, G.W. Yohe, and F.W. Zwiers, 2010: Guidance Note for Lead Authors of the IPCC Fifth Assessment Report on Consistent Treatment of Uncertainties. Intergovernmental Panel on Climate Change (IPCC). Available at http://archive.ipcc.ch/pdf/supporting-material/uncertainty-guidance-note.pdf (accessed 27 January 2022)"
CCP5: Supplementary Material	190	5	190	5	Should be low (0-0.25), medium/moderate (0.26-0.50), high (0.51-0.75) and very high (0.76-1)
CCP5: Supplementary Material	190	Table SMCCP5.16	191	Table SMCCP5.16	Change CEAF to SEAF in the Table
CCP5: Supplementary Material	190	Table SMCCP5.16	190	Table SMCCP5.16	Remove the row in the table in correspondence with SWAF as we did not use it for the Figure.
CCP5: Supplementary Material	191	6	191	6	Should be low (0-0.25), medium/moderate (0.26-0.50), high (0.51-0.75) and very high (0.76-1)

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CCP5: Supplementary Material	192	Table SMCC P5.17	192	Table SMCC P5.17	Change SWAF to WAFS in the Table
CCP5: Supplementary Material	192	Table SMCC P5.17	192	Table SMCC P5.17	The column 'IPCC Reference Region' change 'CEU' to 'WCE'
CCP5: Supplementary Material	192	Table SMCC P5.17	192	Table SMCC P5.17	The column 'Sub region averaged risk level' WCE should be 0.30 in all of the six columns.
CCP7: Tropical Forests	2	24	2	24	added "degradation or"
CCP7: Tropical Forests	2	35	2	37	Authors suggested to keep "Indigenous knowledge and local knowledge (IK and LK) " separated and not expressed as "IKLK" (as suggested in the copyedited version). This was done throughout the whole text
CCP7: Tropical Forests	2	48	2	48	The word "often" was added in between governance fuel; becoming "governance often fuel"
CCP7: Tropical Forests	3	2	3	2	The word "complexity" was replaced by "urgency", becoming "yet the urgency of tackling"
CCP7: Tropical Forests	4	35	4	42	The text on this lines was edited for clarity. The previous text is indicated on the document, in track changes.
CCP7: Tropical Forests	5	31	5	31	Once thre were two references "IPCC, 2019", we added letters 'a' abd 'b' to distinguish them
CCP7: Tropical Forests	7	13	7	14	The follow part of the text and references were deleted: "including staple foods (Brondízio, 2008; Isendahl, 2011)"
CCP7: Tropical Forests	7	43	8	2	Table CCP7.2 and legend were edited to accommodate the Copyedited suggestions
CCP7: Tropical Forests	9	4	9	6	Edited **Figure CCP7.3** shall be changed accordingly (with authorization from AAAs)
CCP7: Tropical Forests	9	6	9	8	Figure CCP7.3 legend was edited to reflect the cropped map
CCP7: Tropical Forests	9	36	9	38	The sentence was slightly edited (by including "as well as') to better reflect the message that it aims to convey and the cited reference
CCP7: Tropical Forests	17	1	18	22	All citations in square brackets were revised and corrected
CCP7: Tropical Forests	19	12	19	21	Cross references to WGII chapters and papers were checked
CCP7: Tropical Forests	20	55	21	2	Table CCP7.3 was replaced to meet grammar editings
CCP7: Tropical Forests	31	25	35	1	Table Box CCP7.2.1: The acronyms for Bhutanese traditional medicine (BTM); gross national happiness (GNH); acute respiratory infection (ARI); partnership agreements (PAs) were deleted.
Technical Summary	1	4			Debra Cynthia Roberts to be changed to Debra C. Roberts for consistency with the SPM
Technical Summary	1	6			Country of Rawshan Ara Begum to be corrected to Malaysia/Australia/Bangladesh
Technical Summary	1	12			Country of David Dodman to be changed to Jamaica/United Kingdom
Technical Summary	1	14			Spelling of name to be corrected to Marjolijn Haasnoot
Technical Summary	5	16	6	6	Figure TS.2 is to be revised for more clarity; title of panel a to be changes to say “Climate, Biodiversity and Human Society as coupled systems, current interactions and trends”; previous panel b columns to be replaced by a graphic; title of panel b to say ""solution options applied in response to climate risks, establishing resilience"; labels and wording in the graphics updated for more clarity; Caption to be updated to reflect changes to the graphics
Technical Summary	7	32	8	38	This Box TS.2 box has been carefully revised for more clarity and also to be fully consistent with WGI AR6
Technical Summary	11				Figure TS.3 panel a: entries will be limited to show confidence in attribution only and not strength of impact anymore (as this was felt kind of redundant with confidence);for confidence it will be distinguished between high/very high, medium and low confidence; it will be distinguished between "not applicable", "not detected" and "insufficient evidence/not assessed"; the column "provisioning services" will be removed as it overlaps with information included in panel b
Technical Summary	12	2	12	15	Figure TS.3 caption: caption will be revised for more clarity and to reflect the corrections and revisions to the figure
Technical Summary	12	12	12	12	"Table SMTS.1.2" corrected to "SMTS1.2"
Technical Summary	12				Figure TS.3 panel b: arrows to be replaced by +/- symbols; "mixed impacts" to be rephrased for clarity to "increading adverse as well as positive impacts"; "water scarcity" to become "water availability", "Agriculture/crop production losses" to become "Agriculture/crop production", "Reduced animal livestock health and productivity" to become "Animal livestock health and productivity", "Reduced fisheries yields & aquaculture production" to become "Fisheries yields and aquaculture production"; "Stress responses" to be split and become one column for "Mental health" and one column for "Heat, malnutrition and other", direction of impacts and confidence adjusted accordingly where needed; "Migration/displacement" corrected to become "Displacement" only, impacts and confidence adjuted accordingly as needed; footnote added for cases in which for mental health impacts no confidence was available; for confidence it will be distinguished between high/very high, medium and low confidence; it will be distinguished between "not applicable", "not detected" and "insufficient evidence/not assessed";
Technical Summary	14	40	14	41	"It is very likely" is to be changed to "There is high confidence" to be consistent with figure TS.3
Technical Summary	23	33	23	33	replace "130" with "120"
Technical Summary	24	37	24	37	confidence to be corrected to "high confidence"
Technical Summary	28	11	29	1	Figure TS.4, panel Global mean surface temperature:Projected temperature ranges for SSP plots to be replaced with WGI constrained data; Text introduced: “Historical average temperature increase in 2011-2020 was 1.09 °C range 0.95-1.20°C”
Technical Summary	28	11	29	1	Figure TS.4, panel Reasons for Concern: RFC numbering (RFC1-RFC5) to be added; Text “Complementary reference scale: Global mean temperature increase relative to 1995-2014” to be replaced with “Observed past impacts occurred at or below 1.09°C “ clearly indicating range

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Technical Summary	28	11	29	1	Figure TS.4, panel Regional highlights: Ember diagrams will become Panel g – placed after compilation of key risks per region as examples of regional burning embers; Risk transition from undetectable to moderate for warm-water corals to be corrected to very high confidence as consistent with SROCC; Risk transitions for kelp forests corrected to very high confidence as consistent with SROCC; Text examples will become Panel f and complemented with additional risks from Chapter 16 assessment so each region shows five key risks; Title adjusted accordingly; Footnotes (1-4) to be introduced below panel f and specify the level of confidence to indicate where risk assessment was sub-regional or where level of confidence was less than high.
Technical Summary	28	11	29	1	Figure TS.4: title to be changed to “Assessments of regional and global risks to ecosystems and humans as a result of climate change”; Introductory text at the top was removed and part included in the caption; subdivided into different panels a-g with titles for more clarity; Legend “level of adaption” was removed entirely as only embers showing low to moderate adaptation are now included; Legend “Level of risk” was changed to “risk/impact” to reflect impacts below current day warming level and placed to the right of the panel b; Legend “Confidence” and transition range moved to the right of panel b; Display of levels of confidence next to transition ranges displayed vertically rather than horizontally; Size and layout of the figure was adjusted and modified for greater clarity; Present day warming level displays corrected to 1.09°C
Technical Summary	29	2	30	5	Figure TS.4 to be corrected to say "Burning ember diagrams of global, sectoral and regional risk assessments and examples of other regional key risks. Burning embers is a colloquial term for the diagrams that show the levels of concern assessed for the risks from climate change and the change in risk with global warming levels (a). Impacts and risks are shown in relation to Global Mean Surface Temperature (GMST) relative to pre-industrial period (1850-1900). The Reasons for Concern (RFC) framework communicates scientific understanding about accrual of risk in for five broad categories (b). Risks for terrestrial and freshwater ecosystems (c), ocean ecosystems (d) and human health (e) are assessed at global scale. (e) Burning embers for four climate-sensitive health outcomes under three adaptation scenarios of selected characteristics of health systems based on SSPs 3, 2, and 1, respectively. The assessed projected risks were based a range of scenarios, including SRES, CMIP5, and ISIMIP. The embers are truncated at the full ºC near the approximate upper temperature change in 2100 under the SSP-RCP combinations in the WG1 Figure SPM.4. The compilation of five key risks per region (f) shows those with assessed with the highest confidence. The full set of 127 assessed global and regional key risks is given in SM16.7. Illustrative burning embers (g) were not assessed for all regions. {16.5, 16.6, Figure 16.15, SM16.3, SM16.4, SM16.7, Figure 2.11, Figure SM3.1, Figure 7.9, Figure 9.6, Figure 11.6, Figure 13.28, Figure CCP6.5, Figure CCP4.8, Figure CCP14.10, Figure TS.4, For methodology see TS.AII}."
Technical Summary	37	27			“Some recent” to replace “Recent”
Technical Summary	37	28			delete “overall”
Technical Summary	37	51			delete “and losses”
Technical Summary	37	52			“and some are” to replace “and are”
Technical Summary	37	52			“Some recent” to replace “Recent”
Technical Summary	37	55			delete “or to rule out the largest impacts”
Technical Summary	38	1			“could exceed” to replace “exceeds”
Technical Summary	38	2			TS.C.10.2. The first sentence that ends in 2020 does not have a confidence statement associated with it. However it looks like it does because of the semi-colon - replace semicolon with full stop
Technical Summary	38	4			delete “because of nonlinearities in the relationship between economic damages and temperature”
Technical Summary	38	5	39	8	Change 'Increased aquatic food risks are from aflatoxin contamination in higher latitudes (medium confidence); harmful algal blooms (high confidence); and persistent organic pollutants and methylmercury (low to medium confidence), with risks large for communities with high consumption of seafood, including coastal Indigenous communities (medium confidence). ' to 'Food safety will be undermined from increased food contamination for seafood with harmful algal blooms, mycotoxins, and chemical contaminants, worsening health risks (high confidence). '
Technical Summary	38	54	38	54	Change 'Climate change will compromise food safety through multiple pathways. ' to 'Climate hazards cause multiple impacts, interacting to compound risks to food security, nutrition and human health.'
Technical Summary	40	47	40	47	replace "high risk (medium confidence) for RFC2 and RFC3, low confidence for RFC4 and RFC5). " with "high risk (medium confidence) for RFC2, RFC3 and RFC4, low confidence for RFC5). "
Technical Summary	42	22	42	22	LoS was incomplete/incorrect - LoS corrected by adding Sections 2.5, 3.4, 7.3 and 16.6
Technical Summary	44				Figure TS.5, panel a: Figure including caption to be replaced for consistency with the corrected version of TS.3/TS.2
Technical Summary	48				Figure TS.7 panel a: Caption text to be corrected to say: a) The global map of vulnerability is based on two comprehensive global indicator systems, namely INFORM Risk Index and WorldRiskIndex (2019). Climate change hazards and exposure levels are not included in this figure. The relative level of average national vulnerability is shown by the colours. Vulnerability values are based on the average of the two indices, classified into 5 classes using the quantile method. A hexagon binning method was used to simplify the global map and enlarge small states. The map combines information about the level of vulnerability (independent of the population size) with two classes of population density (high density ≥ 20 people/km2 and low density < 20 people/km2). The selected examples of local vulnerable populations underscore that there are also highly vulnerable populations in countries with overall low relative vulnerability {8.3.2, Figure 8.6}

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Technical Summary	48				Figure TS.7 panel b: names of categories and degree of challenges to be updated for more clarity. Caption text incl LoS to be corrected to say: b) This figure shows regional averages for selected aspects of human vulnerability. The indicators are a selection of the indicator systems used within the global vulnerability map (panel a). The colours represent the average value of the respective indicator for the regional level; classified into three classes using natural breaks. This regional information reveals that within all regions challenges exist in terms of different aspects of vulnerability, however, in some regions these challenges are more severe and accumulate in multiple-dimensions. For example, the indicator "dependency ratio" measures the ratio of the number of children (0-14 years old) and older persons (65 years or over) to the working-age population (15-64 years old). {8.3.2, Figure 8.7}
Technical Summary	48		49		Figure TS.7, panel a: Headline to be added saying "Observed human vulnerability differs between and within countries and strongly determines how climate hazards impact people and society.", subheading to te updated; Case studies to be updated to 1) Indigenous Peoples of the Arctic I health inequality, limited access to subsistence resources and culture I CCP6.2.3, CCP.6.3.12) Urban ethnic minorities I structural inequality, marginalisation, exclusion from planning processes I 14.5.9, 14.5.5, 6.3.6 3) Smallholder coffee producers I / limited market access & stability, single crop dependency, limited institutional support I 5.4.2, 12.3.1 4) Indigenous Peoples in the Amazon I land degradation, deforestation, poverty and lack of support I 8.2.1, Box 8.6 5) Older people, especially those poor & socially isolated | health issues, disability, limited access to support | 8.2.1, 13.7.1, 6.2.3, 7.1.7 6) Island communities in the Pacific | limited land, population growth and coastal ecosystem degradation | 15.3.2 7) Children in rural low-income communities I food insecurity, sensitivity to undernutrition and disease I 5.12.3
					8) People uprooted by conflict in the NearEast and Sahel | prolonged temporary status, limited mobility | Box 8.1, , Box 8.4 9) Women & non-binary | limited access to & control over resources, e.g. water, land, credit | Box 9.1, CCB-GENDER, 4.8.3, 5.4.2, 10.3.3 10) Migrants I informal status, limited access to health services & shelter, exclusion from decision-making processes | 6.3.6, Box 10.2l 6.3.6, Box 10.2 11) Aboriginal and Torres Strait Islander Peoples | poverty, food & housing insecurity, dislocation from community | 11.4.1 - Insert a further case study (nr. 12) with following text: "People living in informal settlements | poverty, limited basic services & often located in areas with high exposure to climate hazards | Box 9.1, 9.9, 10.4.6, 6.2.3, 12.3.2, 12.3.5, 15.3.4". - Number 12 added to the continents Asia, Africa, Central- and South America and Small islands Case study number 8 has been added to Africa, new LoS added; Case study number 9 has been added to Asia; Small Islands banner has been added close to Caribbean islands with case studies 3,6 and 12
Technical Summary	49				Figure TS.7 caption: Insert '{Figure 8.6}' as line of sight for caption of panel c; - Delete "Data from Thomas et al, 2021 based on 1682 scientific publications reporting on adaptation-related responses in human systems and from Chapter 9.3" from the caption of panel d. Insert '{9.3, 16.4.3, Figure 16.8}' as line of sight for caption of panel d; - Insert '{4.3.8, 5.13.5, Box7.1, Box8.6, Box9.2.1, 11.4, 12.3, 13.2, Box14.1, 15.6.4, CCP7.4}' as line of sight for the caption of panel a
Technical Summary	49				TS.7 panel c: - Insert '{Figure 8.6}' as line of sight for caption of panel c
Technical Summary	49				TS.7 panel d: - Delete "Data from Thomas et al, 2021 based on 1682 scientific publications reporting on adaptation-related responses in human systems and from Chapter 9.3" from the caption of panel d. Insert '{9.3, 16.4.3, Figure 16.8}' as line of sight for caption of panel d
Technical Summary	50	2	50	2	Insert {7.1.4, 7.1.6, 7.1.7, 7.2.1, 7.2.2, 7.2.3, 7.2.4, 7.2.5, 7.2.6, 7.2.7, 7.3.1,7.3.3, 7.4.1, 7.4.2., 7.4.3, 7.4.6, 7.4.7, Table 7.1,Table 7.3, Table 7.6., Table 7.7, Table 7.8, Figure 7.6, Figure 7.7, Table 7.10, Table 7.11, Figure 7.16, Box 7.1, Box 7.2, Cross-Chapter Box COVID, Cross-Chapter Box MIGRATE, CROSS CHAPTER BOX HEALTH CO-BENEFITS} as line of sight for the figure.
Technical Summary	52				Figure TS.9, panel c: in explanatory text, "based on current adaptation measures" is to be replaced with "based on current protection levels"
Technical Summary	52				Figure TS.9, panel C: The circles for Greenland are to be removed as the Greenland plate is affected by uplift and glacial isostatic adjustment
Technical Summary	52				Figure TS.9, panel c: in explanatory text, change to "Calculated for sea level rise and population change under SSP2-4.5, based on current protection levels. "
Technical Summary	52				Caption TS.9 panel c: add "population change and" before "sea-level rise under", and replace "population" with "projected population"
Technical Summary	53		54		Figure TS.10, panel b: Table 12.6, Figure 12.11, 12.4 to be added to the Line of Sight

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Technical Summary	60	0	60	8	TS:11 to be updated for consistency with chapter/CCB corrections: "& risks of maladaptation" to be removed from panel headline; Panels regarding "System transition" and "Representative key risks" to be removed; "Near-term adaption options" to be changed to "Climate adaptation options; A foodnote (1) to be added to "Integrated coastal zone management" reading "1Co-benefits and trade-offs correspond to coastal infrastructure"; "Sustainable forest management" to be changed to "Forest-based adaptation" and the asterisk was changed to foodnote 2 reading "2 Including sustainable forest management, forest conservation and restoration, reforestation and afforestation"; "and fisheries" to be added to "Sustainable aquaculture"; A foodnote (3) to be added to "Planned relocation and resettlement" and reads "3 Relocation and resettlement, such as when related to habitability for Small Islands due to Sea level rise, is undertaken as a response to an adaption limit rather than as an adaption"; A foodnote (4) to be added to Human migrations and displacement" and reads "4Migration, when safe and orderly, allows households to reduce risks related to climatic and non-climatic stressors"
Technical Summary	60	0	60	8	TS.11 will be merged with TS.13 and become figure TS.11b; New titel of Figure TS.11: "Enabling system transitions and implementation of Sustainable Development Goals in the near-term. Synthesis of feasibility, co-benefits and trade-offs of adaptation options to respond to Representative Key Risks"
Technical Summary	60	2	60	8	TS.11, now TS.11b, Caption to be updated for consistency chapter/CCB and to reflect corrections to say "Panel B explains how the composite feasibility assessment is obtained by assessing feasibility across six dimensions: technological, economic, socio-cultural, institutional, geophysical and environmental. The dimensions show high, medium, and low feasibility (denoted by circle size), and insufficient evidence as a dash. Additionally, adaptation options are assessed for the likelihood to provide benefits to ecosystems and their services, low-income populations, gender, and ethnic groups, or to worsen the situation for these systems and groups. {Figure CCB FEASIB.2, Figure 17.10}"
Technical Summary	63				Figure TS.12 caption: caption to be been revised to reflect figure updates and corrections to say "This figure shows the interconnectedness between ecosystems and people in a changing climate. Human activities are carried out in diverse urban and rural locations – from mountains to the sea. Maintaining - ecosystem health and integrity is essential for human well-being and planetary health. Climate resilient development pathways involve adaptation and mitigation actions that promote sustainable development for all. Panel a) illustrates how human actions characterised by exploitation and degradation lead to unsustainable development, with adverse outcomes for people and nature. This situation is made much worse by human activities that cause progressively higher global warming levels. Panel b) illustrates how adaptation options, described in D and TS.11, and implemented in an integrated way with urgent mitigation leads to higher climate resilient development pathways. Protecting, conserving and restoring ecosystems is foundational for climate resilient development {2.5, 2.6, 3.5, 3.6, 4.3, 5.13, 6.3, 7.4, CCP1, CCP3, CCP5, Box 18.6}"
Technical Summary	63				Figure TS.12 is to be updated for more clarity; The figure is to be divided into two panels a) (former left side) and panel b) (former right side); title to be added saying „Ecosystem health influences prospects for climate resilient development"
Technical Summary	63				Figure TS.12, panel a: - Title to be changed from "Degraded continuum of ecosystems" to "Human activities that degrade ecosystems also drive global warming and negatively impact nature and people"; "alien plants" to be changed to "Invasive plants"; "Unsustainable energy production" to be changed to "High-emission energy production"; "low diversity" to be changed to "low biodiversity" (next to the mountain); "Retreat and loss of glaciers" to be changed to "Retreat and loss of glaciers and permafrost thaw"; "Mass animal production" to be replaced by "intensive animal production"; "Reduced food security" to be changed to "reduced food and water security"; "Eroded soil washed to the ocean" to be changed to "Coastal erosion washed to the ocean"; "informal settlements" to be added; "water scarcity" to be added (right side of the city); "flooding" to be changed to "coastal flooding"; "Overland flow of fertilizers into river" to be changed to "Excessive fertilisers in waterways"; "Unsustainable tourism" to be moved from ocean to land; "sealed soil" to be removed; "Global goods transportation" to be added (below left boat); "Reduced catch" to be changed to "reduced fisheries catch"; White bubbles to be removed (mountain symbol, animal symbol and "coastal ecosystems" and "ocean ecosystems"; "Eutrophication" to be removed
Technical Summary	63				Figure TS.12, panel b: Title to be changed to: "Human activities that protect, conserve and restore ecosystems contribute to climate resilient development"; White bubbless to be removed from the image ("terrestrial ecosystems", "grassland ecosystems" "insects", and car image; Text "agroforestry and other ecologically based adaptation/ conservation measures" to be removed; "sustainable energy production" to be changed to "Low-emission energy production"; "Biodiversity benefits" to be replaced by "High biodiversity"; Mangrove forest icons to be added to the coast; "water security" to be added; The road leading into the background to be replaced by railways; "Mixed crop and livestock" to be changed to "Mixed, diverse crops & livestock"; "soil health" to be changed to "healthy soils" and to be added to mountain area and next to the agriculture; "Green cities" to be changed to "green cities and settlements"; "Agroecology" and "seagrass" to be added; "Intact peatlands" to be added as text and image
Technical Summary	72	0	72	4	Figure TS.13 will be merged with Figure TS.11 to become TS.11a

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Technical Summary	72	0	72	4	TS.13: Every mention of "sustainable aquaculture" should be relabelled to "sustainable aquaculture and fisheries" ; "Near-term adaption option" to be changed to "Climate adaption options; "Sustainable forest management" to be changed to "Forest-based adaption"; "The panel "Potential contributions" will be modified and subdivided to panels for Ecosystems and their services, Ethnic groups, Gender equity, and Low-income population; "Potential adaption" was changed to "Potential feasibility" and is labelled together with "Synergies with mitigation" as "Feasibility management relevant in the near term and up to 1.5 °C global warming"; "Ecosystems and their services", "Ethnic groups", "Gender equity", and "Low-income" to be changed to "Potential co-benefits for sectors and groups at risk independent of global warming level"; Label of the last four panels (starting with "Ecosystem and their services") to be changed from "Sectors groups at risk of maladaptation due to trade-offs" to "Potential trade-offs for sectors and groups at risk independent of global warming level"
Technical Summary	72	0	72	4	TS.13: Foodnote to be corrected to "Including sustainable forest management, forest conservation and restoration, reforestation and afforestation"
Technical Summary	72	0	72	4	TS.13: headline to be changed from "Nexus with Sustainable Development Goals" to "SDG nexus with climate adaption options"; Below table headline a legend is to be added explaining the newly added directions of change: + = positive, - = negative, ± = mixed, and ∘ = neutral
Technical Summary	72	0	72	4	TS.13: SDG nexus to be updated for various Climate adaption options o Coastal defense and hardening, Integrated coastal zone management (10,11, 14, 15 to be added) o Forest based adaption (7, 8, 9 to be added) o Improved cropland management (3, 15, 17 to be added) o Efficient livestock systems (9 to be added) o Livelihood diversification (11 to be added)
Technical Summary	72	0	72	4	TS.13: to be updated for consistency with chapter/CCB corrections
Technical Summary	72	2	72	4	TS.13: Caption to be updated for consistency with chapter/CCB and to reflect corrections to say "Adaptation options, organized by System Transitions and Representative Key Risks, are assessed for their multidimensional feasibility at 1.5°C (CCB FEASIB). This figure shows the composite feasibility assessment, synergies with mitigation, and nexus with the 17 SDGs. For the composite feasibility (expanded in Panel B), the figure shows high, medium, or low feasibility (denoted by circle size), and confidence levels (denoted by circle colour). Insufficient evidence is denoted by a dash. Synergies with mitigation are identified as strong, medium, and weak (denoted by circle size) with confidence levels (denoted by circle color). SDG nexus was identified for the 23 adaptation options assessed. Nexus includes positive (+), negative (-) and mixed (+/-) impacts of the adaptation option on each SDG. Areas not colored indicate there is no nexus or no interaction of the option with the respective SDG {Figure CCB FEASIB.3}"
Technical Summary	79	22	80	1	Figure TS.14 to be revised for more clarity. To be restructured, with panel (a) societal choices about adaptation, mitigations and sustainable development made in arenas of engagement, panel (b) Illustrative development pathways, panel (c) Actions and outcomes characterizing development pathways; Previous panel (b) to be replaced with a new panel (d), a table with some more clearer and explicit examples for CRD; Heading of figure to be changed from "societal choices shaping climate resilient development pathways, system transitions and transformative action" to "There is a narrowing window of opportunity for societal choices towards higher climate resilient development pathways"
Technical Summary	79	22	80	32	Figure TS.14 will be renumbered to become Figure TS.13
Technical Summary	80	2	80	32	Figure TS.14 caption to be adapted to reflect new structure and revised content (including for panel d)
Technical Summary	84	6	84	6	confidence to be changed to very high confidence to be consistent with SPM
Technical Summary	90	15	90	15	replace "130" with "120"
Technical Summary	``		12		Figure TS.3: inconsistencies between the figure and the chapters in the attribution of impacts to be corrected; entries in Figure TS.3 have been revised and updated for consistency with chapters and papers. Design to be adapted for more clarity.
Technical Summary					Figure TS.4, panel Climate sensitive health outcomes: Legend for level of adaption (white – grey – blue dots) to be removed; Embers for "Lyme disease" and "West Nile fever" to be removed as these are very localized assessments
Technical Summary					Figure TS.4, panel Ecosystems: Panel will be separated into two – separating ocean ecosystems from terrestrial and freshwater for improved clarity
Technical Summary Supplementary Material	1	56	1	56	"Figure TS.3/SPM.3" to be corrected to "Figure TS.3/SPM.2"
Technical Summary Supplementary Material	3	1	3	1	"Figure TS.3/SPM.3" to be corrected to "Figure TS.3/SPM.2"
Technical Summary Supplementary Material	3	6	3	6	"Figure SPM.3" to be corrected to "Figure SPM.2"
Technical Summary Supplementary Material	3				Some description of the methodology underlying Figure SPM.2/TS.3 development has been requested during the review of the SPM FD; following this request, a short description of the methodology will be included in the TS Supplementary Material under SMTS.1
Technical Summary Supplementary Material	3		6		Table SMTS.1: table to be updated with some corrections to Lines of Sight; columns for changes on provisioning services to be removed to reflect changes to figure TS.3a; for more clarity, confidence levels for impact attribution will be added to this table to be shown together with lines of sight

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Technical Summary Supplementary Material	6	5	6	5	"Figure SPM.3" to be corrected to "Figure SPM.2"
Technical Summary Supplementary Material	6		11		Table SMTS.2: table to be updated with some corrections to Lines of Sight; for more clarity, impact direction and confidence levels for impact attribution will be added to this table to be shown together with lines of sight
Technical Summary Supplementary Material	12	8	12	8	"Table SMTS.1.1" corrected to "SMTS1.1"
Technical Summary Supplementary Material	90				For full transparency, material underlying the updated Figure TS.14d incl full line of sight is going to be added as SMTS.3 and Table SMTS.5
Technical Summary Supplementary Material	91	20	91	21	change to "...severe and pervasive risks to critical infrastructure (high confidence), to human health from heat-related mortality, low-lying coastal areas, aggregate economic output, and livelihoods (all medium confidence), ..." to be consistent with corrections to figure TS.AII.1
Technical Summary Supplementary Material	93	0			in Figure TS.AII.1 change the confidence level for the key risk on heat-related mortality (within Human Health RKR) from high to medium, to be consistent with correction to the chapter 16 text and figure 16.10.
Annex I: Global to Regional Atlas	7	1	71	1	Add a description of RCP and SSP scenarios in the legend of figures that use them.
Annex I: Global to Regional Atlas	10	1	10	1	Figure AI.7: In legend, added "(multi-directional)" after "Forest cover change"
Annex I: Global to Regional Atlas	15	1	15	1	Figure AI.12: Added layer for "Areas for model agreement" with corresponding text in caption.
Annex I: Global to Regional Atlas	16	1	16	1	Figure AI.13: Added layer for "Areas for model agreement" with corresponding text in caption.
Annex I: Global to Regional Atlas	30	1	30	1	Figure AI.27: Changed mentions of "SSP3-" with "RCP"
Annex I: Global to Regional Atlas	49	1	51	1	Figure AI.46: Display of levels of confidence next to transition ranges displayed vertically rather than horizontally
Annex I: Global to Regional Atlas	49	1	49	1	Figure AI.46: Graph with projected temperature ranges for SSP plots replaced with WGI constrained data
Annex I: Global to Regional Atlas	49	1	51	1	Figure AI.46: Present day warming level displays corrected to 1.09°C
Annex I: Global to Regional Atlas	49	1	49	1	Figure AI.46a: Introductory text at the top was removed.
Annex I: Global to Regional Atlas	49	1	49	1	Figure AI.46a: Legend “Level of risk” was changed to “risk/impact” to reflect impacts below current day warming level.
Annex I: Global to Regional Atlas	49	1	49	1	Figure AI.46a: RFC numbering (RFC1-RFC5) added
Annex I: Global to Regional Atlas	49	1	49	1	Figure AI.46a: Text “Complementary reference scale: Global mean temperature increase relative to 1995-2014” replaced with “Observed past impacts occurred at or below 1.09°C “ clearly indicating range
Annex I: Global to Regional Atlas	49	1	49	1	Figure AI.46a: Text introduced: “Historical average temperature increase in 2011–2020 was 1.09 °C range 0.95–1.20°C”
Annex I: Global to Regional Atlas	49	1	49	1	Removed the word "Vulnerabilities" from title becuase this topic is not coverd in this section.
Annex I: Global to Regional Atlas	50	1	50	1	Figure AI.46a: Ember for Europe "Delayed risks for the cultural heritage and long-living infrastructure" updated based on correction from Figure 13.32.
Annex I: Global to Regional Atlas	50	1	50	1	Figure AI.46b: Added missing confidence level (medium) to Alpine skiing burning ember.
Annex I: Global to Regional Atlas	50	1	50	1	Figure AI.46b: Addedd missing confidence to North America "heavy precipitation".
Annex I: Global to Regional Atlas	50	1	50	1	Figure AI.46b: Removed extra label for 1.5°C in Mediterranean.
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46: Embers under "Risks to ocean ecosystems" were rescaled correctly.
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: For Ecosystems: Changed the temperatures to: High to very high: 1.8, 2.5, 4
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: For Ecosystems: Changed the temperatures to: Undetectable to Moderate: 0, 0.5, 1; Moderate to high: 0.6, 1.5, 2
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: For Ecosystems: Edits made to reflect corrections made to underlying Figure in Chqpter 2.
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: For Tree Mortality, in the Risk transitions column, change the high-very high temperature to 3.5ºC.
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: Health related embers truncated as follows: Adaptation scenario under SSP1: truncate at 2 C, Adaptation scenario under SSP2: truncate at 3 C, Adaptation scenario under SSP3: keep to 4 C.
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: replace "Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)." with "IPCC, 2019"
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: The ember "Kelp forests" showed wrong confidence in the risk transition, this was corrected to match SROCC Errata Figure SPM.3
Annex I: Global to Regional Atlas	51	1	51	1	Figure AI.46c: The ember "Warm water corals" showed wrong confidence in the risk transition, this was corrected to match SROCC Errata Figure SPM.3
Annex I: Global to Regional Atlas	62	1	62	1	Figure AI.11: Removed redunant sentence "Simulated global biomass changes of animals."
Annex I: Global to Regional Atlas	62	1	62	1	Figure AI.11: Spelled out Coupled Model Intercomparison Project 6 (CMIP6)
Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.12: caption is missing the description of unhatched areas. Now includes description as follows: "....a total of nine and 10 CMIP6 Earth System Models (ESMs).Unhatched areas represent regions where at least 80% of models agree on the sign of biomass anomaly..."
Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.12: Removed "Simulated global biomass changes of surface zooplankton. In the multi-model mean (solid lines) and very likely range (envelope) over 2000–2100 relative to 1995–2014, for SSP1-2.6 and SSP5-8.5." and "Confidence intervals can be affected by the number of models available for the Coupled Model Intercomparison Project 6 (CMIP6) scenarios and for different variables. " which reffers to a panel in Figure 3.21, not shown here.
Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.13: caption is missing the description of unhatched areas. Now includes description as follows: "....a total of nine and 10 CMIP6 Earth System Models (ESMs).Unhatched areas represent regions where at least 80% of models agree on the sign of biomass anomaly..."
Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.13: Removed "Simulated global biomass changes of surface phytoplankton. In the multi-model mean (solid lines) and very likely range (envelope) over 2000–2100 relative to 1995–2014, for SSP1-2.6 and SSP5-8.5." and "Confidence intervals can be affected by the number of models available for the Coupled Model Intercomparison Project 6 (CMIP6) scenarios and for different variables.", which reffers to a panel in Figure 3.21, not shown here.

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Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.14: Removed "Simulated global biomass changes of seafloor benthos. In the multi-model mean (solid lines) and very likely range (envelope) over 2000–2100 relative to 1995–2014, for SSP1-2.6 and SSP5-8.5." and "Confidence intervals can be affected by the number of models available for the Coupled Model Intercomparison Project 6 (CMIP6) scenarios and for different variables. " which reffers to a panel in Figure 3.21, not shown here.
Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.14: Spelled out Earth System Models (ESMs).
Annex I: Global to Regional Atlas	63	1	63	1	Figure AI.17: Changed "from 13 February 1961" to since 1961".
Annex I: Global to Regional Atlas	64	1	64	1	Figure AI.22: Removed the following text which was attributed to elements not shown in the figure "Horizontal dashed lines mark the 5th and 95th percentile of the historical variability (1983–2013; ensemble median) and open circles highlight the 'time of climate impact emergence' (TCIE), the year in which the smoothed median response exceeds the historical envelope. For context, the TCIE calculated from GC5 5 simulations is indicated in lighter shades above the TCIE based on GC6 (>2099 if no TCIE occurs by 2099). " and 2Regional production time series (e) are similar to (a) but stratified for the four major KoeppenGeiger climate zones (temperature limited, temperate/humid, subtropical and tropical). The percentage of the total global production contributed by each zone is indicated in the top right corner of the inlets."
Annex I: Global to Regional Atlas	64	1	64	1	Figure AI.23: Removed the following text which was attributed to elements not shown in the figure "Horizontal dashed lines mark the 5th and 95th percentile of the historical variability (1983–2013; ensemble median) and open circles highlight the 'time of climate impact emergence' (TCIE), the year in which the smoothed median response exceeds the historical envelope. For context, the TCIE calculated from GC5 5 simulations is indicated in lighter shades above the TCIE based on GC6 (>2099 if no TCIE occurs by 2099). " and 2Regional production time series (e) are similar to (a) but stratified for the four major KoeppenGeiger climate zones (temperature limited, temperate/humid, subtropical and tropical). The percentage of the total global production contributed by each zone is indicated in the top right corner of the inlets."
Annex I: Global to Regional Atlas	65	1	65	1	Figure AI.25: Changes "2000 to the 2090s" to "from early 21st century (2000) to end of century (2081-2100) "
Annex I: Global to Regional Atlas	65	1	65	1	Figure AI.25: In caption text, changed "in 2090s" to "at the end of century "
Annex I: Global to Regional Atlas	65	1	65	1	Figure AI.25: Replace entire caption with "Change in the number of days per year above 'extreme stress' values from early 21st century (1991-2010) to end of century (2081-2100) estimated under SSP1-2.6 and SSP5-8.5 using the Temperature Humidity Index (THI). Mapped for species current global distribution (Gilbert et 12 al., 2018) (grey areas, no change). (Thornton et al., 2021)"
Annex I: Global to Regional Atlas	65	1	65	1	Figure AI.26: Change "50%" to "40%" in caption text.
Annex I: Global to Regional Atlas	65	1	65	1	Figure AI.30: Replace "annual mean near surface air temperature (°C) in 2040–2059 under Representative Concentration Pathway RCP8.5." with "projected days with temperature exceeding 35°C in 2041–2060 relative to 1850¬–1900 under SSP2–8.5"
Annex I: Global to Regional Atlas	66	1	66	1	Figure AI.32: Change title of panel (b) with "Projected changes in the number of extreme heat stress days for cattle from early to end of century"
Annex I: Global to Regional Atlas	66	1	66	1	Figure AI.32: Figure caption for panel (b) replace with "Projected changes in the number of extreme heat stress days for cattle from early (1991–2010) to end of century (2081–2100) under SSP1-2.6 and SSP5-8.5, shown as arrows rooted in the most affected area in each IPCC sub-region pointing to the nearest area of reduced or no extreme heat stress. Arrows are shown only for sub-regions where >1 million additional animals are affected. Shaded areas are those with >5000 animals per 0.5° grid cell in the early 21st century (Thornton et al., 2021)."
Annex I: Global to Regional Atlas	66	47	66	47	Figure AI.34: "Inland" replaced by "Marine".
Annex I: Global to Regional Atlas	67	1	67	1	Figure AI.39: Removed "but they are available in Chapter 4"
Annex I: Global to Regional Atlas	68	1	68	1	Figure AI.42: "Adaptation meassures" changed to "protection levels"
Annex I: Global to Regional Atlas	68	1	68	1	Figure AI.45: In Caption text remove "in the 2080s".
Annex I: Global to Regional Atlas	68	1	68	1	Figure AI.42 caption: replace "numer of people" with "projected number of people" and "absolute population with "projected absolute population" and add "projected" to the population so that full caption reads as follows: Figure AI.42: Projected number of people at risk of a 100-year coastal flood.The size of the circle represents the projected number of people at risk per IPCC region and the colours show the timing of risk based on projected sea-level rise (Haasnoot et al., 2021) under three different Shared Socioeconomic Pathways (SSPs). Darker colours indicate earlier in setting risks. The left side of the circles shows projected absolute population at risk and the right side the projected share of the population in percentage. {Figure CCP2.4; Figure 13.6; Figure 15.3}.
Annex I: Global to Regional Atlas	69	1	69	1	Figure AI.45: Added explanation of symbols by replacing all caption text after (d) with "Global or regional potential exposure (% to the total population affected by flooding) under different warming levels with constant population scenario of CMIP5 (cross, Alfieri et al., 2017) and CMIP6 (triangle, Hirabayashi et al., 2021) and with population scenario of SSP5 of CMIP6 (bar chart, Hirabayashi et al., 2021). Inundation is calculated when the magnitude of flood exceeds current flood protection (Scussolini et al., 2016). Note that number of GCMs used to calculate Global Warming Level (GWL) 4.0 is less than that for other SWLs, as the global mean temperature of some GCMs did not exceed 4°C."
Annex I: Global to Regional Atlas	70	8	70	9	Replaced "Stage of implementation; Type of adaptation; inclusion of Indigenous knowledge and local knowledge " with "Observed adaptation options across regions in food, fibre, and other ecosystem products "
Annex I: Global to Regional Atlas	72	55	72	55	Add citation: "Gilbert, M., Nicolas, G., Cinardi, G., Van Boeckel, T. P., Vanwambeke, S. O., Wint, G. R. W., & Robinson, T. P. (2018). Global distribution data for cattle, buffaloes, horses, sheep, goats, pigs, chickens and ducks in 2010. Scientific Data, 5(1), 180227. doi: 10.1038/sdata.2018.227"

Chapter / Paper / Annex	From page	From line	To page	To line	Correction
Annex I: Global to Regional Atlas	73	11	73	11	Add citation: IPCC, 2012: Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. A Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change [Field, C.B., V. Barros, T.F. Stocker, D. Qin, D.J. Dokken, K.L. Ebi, M.D. Mastrandrea, K.J. Mach, G.-K. Plattner, S.K. Allen, M. Tignor, and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, UK, and New York, NY, USA, 582
Annex I: Global to Regional Atlas	73	11	73	11	Add citation: IPCC, 2019: Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. In press
Annex II: Glossary	0	0	0	0	Added the definition of "Climatic impact-drivers (CIDs)" to the glossary "Climatic impact-drivers (CIDs)" Climatic impact-drivers (CIDs) are physical climate system conditions (e.g., means, events, extremes) that affect an element of society or ecosystems. Depending on system tolerance, CIDs and their changes can be detrimental, beneficial, neutral, or a mixture of each across interacting system elements and regions.
Annex II: Glossary	2		2		The definition of adaptation limits has been changed from "The change in climate where adaptation is unable to prevent damaging impacts and further risk. • Soft limits occur when additional adaptation may be possible if constraints are able to be overcome. • Hard limits occur when no additional adaptation is possible." to: "The point at which an actor's objectives (or system needs) cannot be secured from intolerable risks through adaptive actions. • Hard adaptation limit - No adaptive actions are possible to avoid intolerable risks. • Soft adaptation limit - Options may exist but are currently not available to avoid intolerable risks through adaptive action."
Annex II: Glossary	4		4		The following changes have been implemented in the definition of "Aerosols": "A suspension of airborne solid or liquid particles, with typical diameters between a few nanometres and a few micrometres and atmospheric lifetimes of up to several days in the troposphere and up to years in the stratosphere. " changed to "A suspension of airborne solid or liquid particles, with typical particle size in the range of a few nanometres to several tens of micrometres and atmospheric lifetimes of up to several days in the troposphere and up to years in the stratosphere." "Atmospheric aerosols may be emitted as primary particulate matter, and form within the atmosphere from gaseous precursors (secondary production). The main classes of aerosol chemical composition are sea salt, organic carbon, black carbon (BC), mineral species (mainly desert dust), sulphate, nitrate and ammonium." changed to "Atmospheric aerosols may be either emitted as primary particulate matter or formed within the atmosphere from gaseous precursors (secondary production). Aerosols may be composed of sea salt, organic carbon, black carbon (BC), mineral species (mainly desert dust), sulphate, nitrate and ammonium or their mixtures."
Annex II: Glossary	10		10		Blank entry for "climate scenario" has been removed from the glossary.
Annex II: Glossary	14		14		"(up to 100 km)" is removed from the definition of the term downscaling.
Annex II: Glossary	20		20		In the definition of "Global mean sea level (GMSL) change" the part "is driven by" has been replaced by "it is the sum of"
Annex II: Glossary	32		32		The definition of "particulate matter" has been changed from: "Very small solid particles emitted during the combustion of biomass and fossil fuels. PM may consist of a wide variety of substances. Of greatest concern for health are particulates of diameter less than or equal to 10 nm, usually designated as PM10." to: "Atmospheric aerosol involved in air pollution issues. Of greatest concern for health are particles of aerodynamic diameter less than or equal to 10 micrometers, usually designated as PM10 and particles of diameter less than or equal to 2.5 micrometers, usually designated as PM2.5."
Annex II: Glossary	38		38		The definition of "compound risks" is being added to the glossary as a subterm to Risk: Compound risks {↑ Risk} arise from the interaction of hazards, which may be characterised by single extreme events or multiple coincident or sequential events that interact with exposed systems or sectors.
Annex II: Glossary	39		39		Blank entry for the term "Sand and dust storms" has been removed
Annex II: Glossary					Add the definition of Representative Key Risks (RKRs) to the glossary as a subterm of "Key Risks": Representative Key Risks (RKRs) are representative, thematic clusters of key risks.