#	Ch	From	From	То	То	Substantive Edits
1	0	Page	Line	Page	Line	The IPCC follows the practice of the United Nations (UN) with regards to the geographical denominations used in its reports.
_	U					Consultations take place regularly with the Office of Legal Affairs at UN Headquarters. In line with UN practice, a disclaimer has been
						included on the dedicated WGII AR5 launch web site and will be placed in the front matter of the printed volume(s) to indicate that
						the designations employed and the presentation of material on maps do not imply the expression of any
						opinion on the part of the IPCC concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Any issues discovered in the posted Final Government Distribution (FGD) drafts will be
						brought to the UN standard and addressed as part of production prior to publication.
2	1	4	1	4	2	Text edit as follows in the final WGII report:
_	-	1	1	7	_	"The number of publications per year on the topic of climate change impacts between 2005 and 2010 and on the topic of climate
						change adaptation between 2008 and 2010 has roughly doubled (Figure 1-1c). Thus, the total number of publications more than
						doubled from 2005 to 2010."
						from the original FGD version of: "A doubling of the total number of publications on the topic of climate change impacts between 2005 and 2010 and on the topic of
						climate change adaptation between 2008 and 2010 has occurred (Figure 1-1c)."
3	3	12	53	12	54	Change 20% to 37%, and delete 'and then begin to increase slightly'
4	3	16	16			"where a single event may contribute 40% of total annual erosion": Replace with "where extreme events may contribute about half
						of total erosion; for instance, in Mediterranean Spain 43% of sediment yield over the time period 1990-2009 was produced by a single
5	3	17	3			event". "2010-2099": replace with "2070-2099".
6	3	17	6			"soil erosion increasing by 5-195%": replace with: "-5 to 195% of soil loss".
7	3	27	47	27	49	Add callout to Box CC-VW.
8	3					Table 3-1 Ref 12: "1988-2004": replace with "1988-2003".
9	3					Table 3-1 Ref 13: "1954-2007": replace with "1964-1991 and 1994-2007".
10 11	3					Table 3-1 Ref 15: "1970s-2002": replace with "1978-2003". Figure 3-6: Add to the caption: "Regions with mean runoff less than 0.01 mm/day, Antarctica, Greenland, and small islands are
11	3					excluded from the analysis and indicated by white color."
12	4	44	5			Remove the words 'at least', resulting in "with estimates that roughly 10,000-20,000 freshwater species are extinct or imperilled as
13	4					a consequence of human activity (Strayer and Dudgeon, 2010)." Title Page: Reverse CLA order.
14	4					Add the following reference: Schuur, E.A.G., B.W. Abbott, W.B. Bowden, V. Brovkin, P. Camill, J.G. Canadell, J.P. Chanton, F.S. Chapin
						III, T.R. Christensen, P. Ciais, B.T. Crosby, C.I. Czimczik, G. Grosse, J. Harden, D.J. Hayes, G. Hugelius, J.D. Jastrow, J.B. Jones, T. Kleinen,
						C.D. Koven, G. Krinner, P. Kuhry, D.M. Lawrence, A.D. McGuire, S.M. Natali, J.A. O'Donnell, C.L. Ping, W.J. Riley, A. Rinke, V.E.
						Romanovsky, A.B.K. Sannel, C. Schädel, K. Schaefer, J. Sky, Z.M. Subin, C. Tarnocai, M.R. Turetsky, M.P. Waldrop, K.M. Walter Anthony, K.P. Wickland, C.J. Wilson, and S.A. Zimov, 2013: Expert assessment of vulnerability of permafrost carbon to climate change.
						Climate Change, 119, 359–374. doi:10.1007/s10584-013-0730-7.
15	4					Add "2013" after the other publications by Schurr in the last paragraph of Section 4.3.3.1.1.
16	5	5				Within the text "In addition, Extended Concentration Pathways (ECPs) have been introduced for the 2100-2300 period (Meinhausen
						et al., 2009) providing the opportunity to assess the long-term commitment to sea level rise, which is very likely to continue beyond
						2500 unless global temperature declines (WG1, Chapter 1, 13.5.2)," at the bottom of page 5, replace 'very likely' with 'virtually
						certain' and, in the source info, replace 2009 with 2011, resulting in the following new text: "Extended Concentration Pathways (ECPs) have been introduced for the 2100-2300 period (Meinhausen et al., 2011) providing the
						opportunity to assess the long-term commitment to sea level rise, which is virtually certain to continue beyond 2500 unless global
						temperature declines (WG1, Chapter 1, 13.5.2)".
17	5	26				Within the text: "Narita et al. (2012) estimated that the global economic costs of production loss of mollusks due to ocean
						acidification (5.3.3.5) by the year 2100 could be over 100 billion US\$," insert the phrase 'based on IPCC IS92a business as usual
						scenario,' resulting in the following new text: "Narita et al. (2012) estimated that the global economic costs of production loss of mollusks due to ocean acidification (5.3.3.5) by
						the year 2100 based on IPCC IS92a business as usual scenario could be over 100 billion US\$".
18	7	2				Executive Summary, para 1: Add the word "terrestrial" before food production in key finding #1
19	7	24				7.4.2 (2nd paragraph): change "by 0.33%" to "only marginally.
20	7	24				7.4.2 (2nd paragraph): Change "both species" to "tuna"
21	8	39	38	39	51	Add the word 'storage' before the word 'capacity,' and replace 'natural areas' with 'land outside the city'.
22	10					Appendix 10.A (Industrial Classification): move to On-Line Supplementary Material (OLSM)
23 24	10					Appendix 10.B (Estimates of the Total and Marginal Economic Impact of Climate Change): move to OLSM Table 10.B.1 (to be re-labeled Table SM10-1): revise with the following edits:
24	10					• In table title, replace 'loss due to' with 'impact of'
						• In cell intersection Hope (2006a) row and Impact (% GDP) column, change '-0.2 to 2.7' to '-2.7 to 0.2'
						Add a footnote to the Impact column, which reads: "Central estimates of welfare impact of climate change; some of these
						estimates are the expected impacts from a regression analysis, some are the average impacts from a Monte Carlo experiment with a model, some are the expected impacts from a meta-analysis, and some are best guesses as reported by the authors. The estimates of
						the uncertainty about the central estimates have similarly diverse interpretations. Therefore, the spread between estimates (e.g., the
						standard deviation of the estimates for a 2.5°C warming relative to pre-industrial is 0.9% of GDP with an average of -1.1%) indicates
						the range of results (e.g., -0.2 to -2.0% GDP for a 2.5°C warming) but does not constitute a confidence interval."
25	12					Reconcile in-text cites with RefWorks reference list.

31 March 2014 Page 1 of 5

Executive Summary, Zurg para. Detect **Direct is a common trend that local governments are inhordered by the abstract or adaptation, and ever and register is with "local agendes and planners are offer confronted by the complexity of adaptation, and ever and register is with "local agendes and planners are offer confronted by the complexity of adaptation without adequate access to guiding information or fait an in bead vinered information and provided in the confronted by the complexity of adaptation without adequate access to guiding information or fait an inched vinered information and provided in the confronted by the complexity of adaptation without adequate access to guiding information or fait an inched vinered information and adaptation from gold or adaptation or inched the confronted in the confronted in the confronted in the confronted inched the confronted	#	Ch	From Page	From Line	To Page	To Line	Substantive Edits
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**Tendigenous communities are those populations beth how cultural and historical ties to specific homelands. They are greaterally distinct from politically dominant populations (altestate, 2008) Because of these characteristics, they are particularly vulnerable to climate change, if following issues need to be examined and addressed: the relationship of indigenous peoples to alk michigenous peoples and decisionship of indigenous peoples to alk michigenous peoples and decisionship of indigenous peoples to alk michigenous peoples and decisionship of indigenous peoples of and decisionship of indigenous peoples of and decisionship of indigenous peoples of and decisionship of indigenous peoples and decisionship of indigenous peoples of and decisionship of indigenous peoples of and decisionship of indigenous peoples of an indigenous people of an indigenous peoples of an indigenous people of an indi							guides to adaptation decision-making. Local agencies and planners are often confronted by the complexity of adaptation, and even" and replace it with "local agencies and planners are often confronted by the complexity of adaptation without adequate access to
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Section 15.4.1, 1st para: Insert new topic sentence — "A feature of adaptation planning is decision-making under uncertainty. There a large literature examining how to integrate uncertain information into decision making processes and use this information is evaluate the significance of uncertainties for decision outcomes. Freatment of uncertainty is death uncertainty in death uncer							distinct from politically dominant populations (Battiste, 2008). Because of these characteristics, they are particularly vulnerable to climate change impacts. When assessing indigenous vulnerability and developing CCA strategies and resilience to climate change, the following issues need to be examined and addressed: the relationship of indigenous peoples to land, the degree of migration or displacement of indigenous communities (Miron, 2008), and their adaptive capacity. Vulnerability and challenges to adaptation for
a large literature examining how to integrate uncertain information into decision making processes and use this information in the decision making processes and use this information in the decision making processes and use this information in the decision making processes and use this information in the decision making processes and use this information in the decision making processes and use this information in the decision outcomes. Treatment of uncertainty is dealt with in 2.3.1 in Ch. 2"." Section 15.4.4: insert new cideing para — There are various adaptation options that target the specific vulnerability of disadvantaged groups as social potions of CCA. Social protection programs include public and private inflatives that transfer income or assets to poor people, protect against livelhood risks, and lake the social status and rights of the marginalized (see Gloscary). The roles of social protection in CCA are discussed in 18.3.2. 30 18 19 18 19 18 19 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19							indigenous people are discussed broadly in Chapters 13, 27, and 28."
### There are various adaptation options that target the specific vulnerability of disadvantaged groups as social options of CCA. Social protection programs include public and private initiatives that transfer income or assets to poor people, protest against livelihood risks, and raise the social status and rights of the marginalized (see Glossary). The roles of social protection in CCA are discussed in 13.2 of Ch. 14 and 80s. 13-2 of Ch. 13. 18	28	15	13				
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31 88 18 Add cross-referencing and references at close of second para in Section 18.3.4.2. 32 28 Update RefWorks export provided as master reference list. 34 18 Table 18.5. row Thailand, 2011, last column: change subsistence to 'subsidence' 35 18 Table 18.5. row Thailand, 2011, last column: change subsistence' to 'subsidence' 36 18 Table 18.5. Asia Section. second entry: Change "Shrinking mountain glaciers across Asia" to "Shrinking mountain glaciers across Asia to "Shrinking mountain glaciers across Asia" to "Shrinking mountain glaciers across Asia (Section Shrinking to "Shrinking mountain glaciers across Asia" to "Shrinking mountain glaciers across Asia" to "Shrinking mountain glaciers across Asia" to "Shrinking mountain glaciers acros							protection programs include public and private initiatives that transfer income or assets to poor people, protect against livelihood risks, and raise the social status and rights of the marginalized (see Glossary). The roles of social protection in CCA are discussed in
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Table 18-7: Polar Regions, fourth entry: Replace Callaghan et al., 2013, with Callaghan et al., 2011. New statement: "Impacts on tunc animals from increased ice layers in snow pack, following rain-on-snow events [28.2.3.1.3; (Callaghan et al., 2011; Hansen et al., 2013)]" Table 18-9: Africa section, third entry: Change the reference to chapter 11 from 11.4.4 to 11.5.1.1. New statement: "Malaria increase in Kenyan highlands [11.5.1.1; (Alonso et al., 2011; O'Meara et al., 2010; Stern et al., 2011)]" Table 18-9: Asia Section, second entry: Remove Auffhammer and Vincent, 2012 from citations. New statement: "Negative impacts of aggregate wheat yields in South Asia [7.2.1; Figure 7-2; (Pathak et al., 2003)]" Table 18-9: CSA Section, first entry (which reads "More vulnerable livelihood trajectories for indigenous Aymara farmers in Bolivia, due to water shortage [13.1.4; (McDowell and Hess, 2012)]"): Change entry in the "confidence in detection" column from "high" to "medium" Table 18-9: 15 52 15 52 Also include a reference to WGI 6.4.8.1 before Sections 12.4.3 and 12.4.5 references. Replace 6.4.3.3 with 6.3.2.2. Page 19 18 36 18 36 Add reference to WGI 6.4.3.2. Add reference to WGI 6.4.3.2. Delete WGI 12.4.5 reference. Page 27 26 27 Delete WGI 12.4.5 reference with "ARS WGI Figure TS.20" Delete WGI 12.4.5 reference. The AMOC is considered very likely to weaken for such warming, with best estimates of loss over the 21st century under RCP8.5 ranging from 36-44% (AR5 WGI Sections 12.4.7.2 and 12.5.5.2)." Replace 36-44% with 12-54%. The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than" Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1	42	18					Table 18-7: North America Section, fourth entry: Change "Increase in wildfire activity, fire frequency and duration, and burnt area in boreal forest of North America" to "Increase in wildfire activity, fire frequency and duration, and burnt area in forests of the western US and boreal forests in Canada".
Table 18-9: Africa section, third entry: Change the reference to chapter 11 from 11.4.4 to 11.5.1.1. New statement: "Malaria increase in Kenyan highlands [11.5.1.1; (Alonso et al., 2011; O'Meara et al., 2010; Stern et al., 2011)]" Table 18-9: Asia Section, second entry: Remove Auffhammer and Vincent, 2012 from citations. New statement: "Negative impacts of aggregate wheat yields in South Asia [7.2.1; Figure 7-2; (Pathak et al., 2003)]" Table 18-9: CSA Section, first entry (which reads "More vulnerable livelihood trajectories for indigenous Aymara farmers in Bolivia, due to water shortage [13.1.4; (McDowell and Hess, 2012)]"): Change entry in the "confidence in detection" column from "high" to "medium" 15	43	18					Table 18-7: Polar Regions, fourth entry: Replace Callaghan et al., 2013, with Callaghan et al., 2011. New statement: "Impacts on tundra animals from increased ice layers in snow pack, following rain-on-snow events [28.2.3.1.3; (Callaghan et al., 2011; Hansen et al.,
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Table 18-9: CSA Section, first entry (which reads "More vulnerable livelihood trajectories for indigenous Aymara farmers in Bolivia, due to water shortage [13.1.4; (McDowell and Hess, 2012)]"): Change entry in the "confidence in detection" column from "high" to "medium" 19	45	18					Table 18-9: Asia Section, second entry: Remove Auffhammer and Vincent, 2012 from citations. New statement: "Negative impacts on
 47	46	18					Table 18-9: CSA Section, first entry (which reads "More vulnerable livelihood trajectories for indigenous Aymara farmers in Bolivia,
 48 19 17 4 17 4 Replace 6.4.3.3 with 6.3.2.2. 49 19 18 36 18 36 Add reference to WGI 6.4.3.2. 50 19 25 44 25 44 Replace "AR5 WG1 TS" reference with "AR5 WGI Figure TS.20" 51 19 26 27 26 27 Delete WGI 12.4.5 reference. 52 19 26 30 26 30 "The AMOC is considered very likely to weaken for such warming, with best estimates of loss over the 21st century under RCP8.5 ranging from 36-44% (AR5 WGI Sections 12.4.7.2 and 12.5.5.2)." Replace 36-44% with 12-54%. 53 19 26 31 26 31 "The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than" 54 19 26 37 26 37 "Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1 	4-	10	4-		4-		"medium"
 49 19 18 36 18 36 Add reference to WGI 6.4.3.2. 50 19 25 44 25 44 Replace "AR5 WG1 TS" reference with "AR5 WGI Figure TS.20" 51 19 26 27 26 27 Delete WGI 12.4.5 reference. 52 19 26 30 26 30 "The AMOC is considered very likely to weaken for such warming, with best estimates of loss over the 21st century under RCP8.5 ranging from 36-44% (AR5 WGI Sections 12.4.7.2 and 12.5.5.2)." Replace 36-44% with 12-54%. 53 19 26 31 26 31 "The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than" 54 19 26 37 26 37 "Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1 			+	-		+	
 50 19 25 44 25 44 Replace "AR5 WG1 TS" reference with "AR5 WGI Figure TS.20" 51 19 26 27 26 27 Delete WGI 12.4.5 reference. 52 19 26 30 26 30 "The AMOC is considered very likely to weaken for such warming, with best estimates of loss over the 21st century under RCP8.5 ranging from 36-44% (AR5 WGI Sections 12.4.7.2 and 12.5.5.2)." Replace 36-44% with 12-54%. 53 19 26 31 26 31 "The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than" 54 19 26 37 26 37 "Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1 			+			+	
 19 26 27 26 27 Delete WGI 12.4.5 reference. 19 26 30 26 30 "The AMOC is considered very likely to weaken for such warming, with best estimates of loss over the 21st century under RCP8.5 ranging from 36-44% (AR5 WGI Sections 12.4.7.2 and 12.5.5.2)." Replace 36-44% with 12-54%. 19 26 31 26 31 "The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than" 19 26 37 26 37 "Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1 			+	-		+	
ranging from 36-44% (AR5 WGI Sections 12.4.7.2 and 12.5.5.2)." Replace 36-44% with 12-54%. 19 26 31 26 31 "The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than" 19 26 37 26 37 "Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1			+			+	·
large uncertainties." Delete "more than" 19 26 37 26 37 Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1	52	19	26			+	
estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1							"The best estimated range for CTP by 2100 is from 50 to more than 250 PgC for RCP8.5 (AR5 WGI Section 6.4.3.4) although there are large uncertainties." Delete "more than"
	54	19	26	37	26	37	"Regions of the boreal forest could witness widespread forest dieback (low confidence) putting at risk the boreal carbon sink, estimated at 0.5 Pg year-1 in 2000-2007 (AR5 WGI Section 12.5.5; AR5 WGII Section 4.3.3.1.1)." Delete "estimated at 0.5 Pg year-1 in 2000-2007."

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#	Ch	From	From Line	To	To	Substantive Edits
55	19	Page 26	51	Page 26	Line 51	"Ocean acidification is defined as 'a reduction in pH of the ocean over an extended period, typically decades or longer, caused
	1,5	20	31	20	31	primarily by the uptake of carbon dioxide from the atmosphere' (AR5 WGI 3.3.2, Box 3.2; Box CC-OA; see also WGII Glossary)." Add "(CO2)" after "carbon dioxide".
56	19	28	35	28	35	Remove AR5 WGI Section 6.5 reference.
57	19	34	24	34	24	Replace "AR5 WGI Section 11.3.2.5" with "AR5 WGI FAQ 12.2."
58	19	41	3	41	3	"WGI finds medium confidence in attribution of intensification of heavy precipitation over Northern Hemisphere land areas with
						sufficient data (AR5 WGI Section 10.6.1.2)" Delete "Northern Hemisphere"
59	19	41	14	41	14	"Among the conclusions are, 'In most regions the frequency of warm days and warm nights will likely increase in the next decades,
						while that of cold days and cold nights will decrease' (AR5 WGI Chapter 11 ES)." Add "land" before "regions".
CO	10		4-		4-	
60	19	41	15	41	15	"Specifically, 15% of currently observed maximum daily temperatures exceed the historical 90th percentile values (rather than the
						historical 10%) and by about 2035, 25-30% of daily maximums are projected to exceed the historical 90th percentile value (AR5 WGI Figures 11-17)." Add "about" before "15%"
61	19	41	22	41	22	"The frequency and intensity of heavy precipitation events over land will likely increase on average in the near term. However, this
						trend will not be apparent in all regions because of natural variability and possible influences of anthropogenic aerosols and land use
						change (AR5 WGI Chapter 11 ES)." Delete "and land use change"
62	19	45	4	45	7	"The Greenland ice sheet (very likely) and the Antarctic ice sheet (medium confidence) contributed to the 5m (very high confidence)
						to 10m (high confidence) sea level rise that occurred during the Last Interglacial (AR5 WGI SPM; Kopp et al. 2009; McKay et al., 2011;
						Dutton and Lambeck, 2012)." Add "higher than present" after "5m" and "above present" after "10m"
63	19	45	11	45	10	"With regard to projection might be irreversible (AR5 WGI SPM)"Change to "With regard to projection, AR5 WGI finds that "There is
63	19	45	11	45	18	high confidence that sustained warming greater than some threshold would lead to the near-complete loss of the Greenland ice
						sheet over a millennium or more, causing a global mean sea level rise of up to 7 m. Current estimates indicate that the threshold is
						greater than about 1°C (low confidence) but less than about 4°C (medium confidence) global mean warming with respect to pre-
						industrial" (AR5 WGI SPM). A threshold for the disintegration of WAIS remains difficult to identify due to shortcomings in various
						aspects of ice sheet modeling, including representation of the dynamical component of ice loss and ocean processes. For RCP8.5,
						projected sea level rise is 1 to more than 3 m (medium confidence) by 2300. Beyond 2300, "Sustained mass loss by ice sheets would
						cause larger sea level rise, and some part of the mass loss might be irreversible" (AR5 WGI SPM)."
						cause larger sea lever rise, and some part of the mass loss might be irreversible (ARS worshiv).
	40		2.0	4.5		INTEREST OF A PROPERTY OF A PR
64	19	45	26	45	27	"The risk of substantial carbon release in the form of methane or carbon dioxide increases with warming. (AR5 WGI Section 6.4.7.3,
						Figure 6.37; Archer et al., 2009; O'Connor et al., 2010)." Change "The risk" to "The probability". Also, delete AR5 WGI Section 6.4.7.3
65	19	45	33	45	35	and Figure 6.37 references. "WGI AR5 finds that tipping point" (AR5 WGI Chapter 12 ES)." Change to: "WGI AR5 finds that a "nearly ice-free Arctic Ocean (sea
		45	33	43	33	lice extent less than 1 × 106 km2 for at least 5 consecutive years) in September before mid-century is likely under RCP8.5 (medium
						confidence)." Furthermore, "There is little evidence in global climate models of a tipping point (or critical threshold) in the transition
						from a perennially ice-covered to a seasonally ice-free Arctic Ocean beyond which further sea ice loss is unstoppable and
						irreversible." (AR5 WGI Chapter 12 ES)"
66	19	45	53	45	55	"Overall, recent multi-model estimates based on different CMIP3 climate scenarios and different dynamic global vegetation models
00	13	45	55	45	33	predict a moderate risk of tropical forest reduction in South America (AR5 WGI Section 12.4.8.2)." Add "and even lower risk for
						African and Asian tropical forests" after "South America" and put quotes before "multi-model" and ending after "South America.
						, , , , , , , , , , , , , , , , , , ,
67	19	46	42	46	42	Add "(1850-1900)" after "pre-industrial".
68	19	50	29	50	29	Change TFE5 to TFE.5
69	20	1	55			change "medium high" to "medium"
70	20	2	43			replace "Both kinds of responses" with "Adaptation and mitigation"
71	20	3	7			delete "moderately"
72	20	3	7			delete "high" after "medium"
73	20	3	44			replace "strong" with "robust"
74	20	3	46			change "strong" to "robust" (both this and the above may refer to the same correction on the last line of the page)
75	20	3	49		50	Following summaries of what we know about climate change impacts (Chapter 18) and reasons for concern (Chapter 19),
76	20	4	3			replace "of what we should be most worried about" with "reasons for concern" (probably refers to same revision as above)
77	20	4	25	1		add "; also see Working Group III, Chapter 6 on Assessing Transformation Pathways"
78	20	4	43			delete "given growing evidence that the"
79	20	4	44			delete "world is on a trajectory toward relatively major climate change"
80	20	5	34	1		replace "adopted" with "identified"
81	20	5	35			replace "equated" with "implicitly equating"
82	20	_		1	1	insert "meets the needs of the present without compromising the ability of future generations to meet their own needs. (see
62	20	5	45			glossary) It" after "development"
83	20	5	54			Replace "in principle" to "overall"
84	20	6	6	1		replace "In principle" with "Overall" (refers to the same revision as above)
85	20	6	6			replace "In principle" with "Overall"
86	20	6		1		Insert after sentence on 4th line ending "offset already achieved gains": "Resilience is defined in this report as the ability of a social,
		0				ecological, or socio-ecological system and its components to anticipate, reduce, accommodate, or recover from the effects of a
						hazardous event or trend in a timely and efficient manner (see glossary). Climate resilience refers to the outcomes of evolutionary
						processes of managing change in order to reduce disruptions and enhance opportunities."

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#	Ch	From Page	From Line	To Page	To Line	Substantive Edits
87	20	12	Line	i age	Line	Replace "'Box 20-5 lists a number of attributes of climate-resilient pathways categorized into awareness and capacity, resources and
						practices" with "Box 20-3 draws on material throughout the chapter to list a number of attributes of climate-resilient pathways
						categorized into awareness and capacity, resources and practices" (similar to response above)
88	20	12	22			replace "lists" with "draws on material throughout the chapter to list"
89	20	13	26			Insert meaning of GHG in parentheses after the acronym: "(greenhouse gases)"
90	20	13	34			delete "and other parties"
91	20	13	36			Replace "climate extremes and extreme events" with "extreme weather and climate events"
92	20	13	37			delete the sentence beginning "Perspectives among countries"
93	20	13	38			replace "greenhouse" with "carbon dioxide"
94	20	13	39			Delete "greenhouse gas emission and/or"
95	20	14	10			replace "leads to socially unacceptable pain and distress" with "is not sufficiently successful"
96	20	14	10			add a cross-reference to the Glossary "(see Glossary)", after the period.
97	20	14	12			replace "sun's radiation that" with " amount of absorbed solar energy in the climate system"
98	20	14	13			delete "reaches the surface of the earth"
99	20	14	13			insert "(see glossary)" after atmosphere
100	20	14	26			replace "ocean corals" with "biodiversity"
101	20	14	34			insert "Chapter 19.5.4, Working Group II; Chapter 3.3.7, Working Group III;" after "e.g.,"
102	20	14	37			Add "and risks" after "ancillary effects"
103	20	16	34			replace "Btu2" with "Gm3"
104	20	16	38			delete "results"
105	20	16	45			replace "91 to 129" with "19 to 29" (based on review editor comment)
106	20	16	45			replace "91 to 129" with "19 to 21"
107	20	17	18			BM3 should be GM3 (Unsure where this occurs, or if it the same as the response above)
108	20	17	24			Check to see that the copy edit removed the extra word: "results"
						adaptation action and national level planning. In six cases studies in West Africa and Latin America, Agrawal et al. (2011) found that these connections are missing in all the countries studied. However, in these countries external policy support catalyzed adaptation actions through three types of intervention mechanisms:information, incentives, and institutions."
110	20	21	3			replace "cases" with "case"
111	20	21	14			insert "potentially" after "could"
112	20	21	14			Add a cross-reference to the Glossary "(see Glossary)", after the period.
113	20	21	14			insert "potentially" after "could"
114	20	21	34			Check to see that the copy edit changed "cases" to "case"
115	20	23	40	23	47	replace O'Brien, 2013 with O'Brien, 2012
116	20	24	12			replace O'Brien, 2013 with O'Brien, 2012
117	20	24	26			replace O'Brien, 2013 with O'Brien, 2012
118	20	24	28		29	Replace "multiple paths" with "alternative paths", replace "same total amount" with "similar levels of", and delete "alternative stable states"
119	20	25	10			Start sentence with "Examples in this chapter demonstrate that" (m)any of the choices
120	20	27	5			Replace "forthcoming" with "2013"
121	20	34	5			replace "Osford" with "Oxford"
122	20	35				Replace O'Brien 2012 reference with complete reference: O'Brien, K., 2012: Global environmental change II From adaptation to deliberate transformation. Progress in Human Geography, 36(5), 667-676.
123	20	38	3			replace "Osford" with "Oxford" (this is the same as the previous, depends on which version of FGD is used)
124	20	46	1			replace "forthcoming" with "2013"
125	21					Provide new master reference list
126	28	2				4th Key finding: Change "annual ice over continental shelves" to "annual sea ice cover"
127	28	2				Adjust line of sight in key findings 1 and 4
128	28	3				Key finding 10: 4th sentence change "will" to "may"; 6th sentence change "as" to "if"
129	28	4				Introduction, third para: After topic sentence, insert two sentences capturing WGI AR5 findings: "There is evidence that Arctic land surface temperatures have warmed substantially since the mid-20th century and the future rate of warming is expected to exceed the global rate. Sea-ice extent at the summer minimum has decreased significantly in recent decades and the Arctic Ocean is projected to become nearly ice-free in summer within this century."

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#	Ch	From Page	-	To To Page Line	Substantive Edits
130	28				Add confidence statements to the following sections: 28.2.4 Health and Wellbeing of Arctic Residents 28.2.4.1 (2 statements) page 16 28.2.4.2 (2 statements) page 16/17 28.2.5 Indigenous Peoples and Traditional Knowledge (1 statement) page 18 28.2.6. Economic Sectors 28.2.6.1.4 Infrastructure (1 statement) page 20 28.2.6.1.6 Informal Subsistence-based Economy (1 statement) page 21 28.3.4 Economic Sectors 28.3.4.2 Forestry and Farming (1 statement) page 29 28.3.4.3 Infrastructure, Transportation, and Terrestrial Resources (2 statements) page 30
131	28				Section 28.4, subheader "indigenous Peoples": Move last two sentences of 1st para to the beginning of 4th para. Insert at the end of the 1st paragraph: "While many of these adaptation activities tend to be short-term or reactive in nature, also dealing with other issues such as disaster response planning, some indigenous communities are beginning to develop more formal adaptation plans (Galloway McLean, 2010; Brubaker et al, 2011b,c; Nakashima et al, 2012). Comprehensive adaptation planning must take also into account underlying social issues of some indigenous populations when addressing the new challenges from climate and development. Indigenous communities are especially vulnerable to climate change because of their strong dependence on the environment for food, culture and way of life; their political and economic marginalization; the social, health, and poverty disparities; and community locatations along exposed ocean, lake or river shorelines (Ford and Furgal, 2009; Galloway McLean, 2010; Larsen et al, 2010; Cochran et al, 2013)."
132	29	16	18		Change "warming to less than 1.5±1.3°C" to "warming to less than 1.5°C (1.3–1.8°C AOGCM range)"
133	29				Figure 29-3 caption: Delete the sentence beginning "To get projections"
134	30				Title page: Adjust author order.
135	30				Exec Summary point 2: Changed confidence level to "certain" from "virtually certain" in sentence "Global average sea surface temperatures have increased since both the beginning of the 20th Century and the 1950s (virtually certain)" to align with WGI.
136	30				30.3.1.1.Heat Content and Temperature, Changed confidence level to "certain" from "virtually certain" in sentences "The Ocean has absorbed 93% of the extra heat arising from the enhanced greenhouse effect (1971–2010), with most of the warming (64%) occurring in the upper (0–700 m) ocean (1971–2010; WGI Section 3.2.3, Figure 3.2, Box 3.1). It is virtually certain that global average sea surface temperatures (SST) have increased since the beginning of the 20th Century."

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