

# IPCC:

supporting decision makers  
with best climate change science

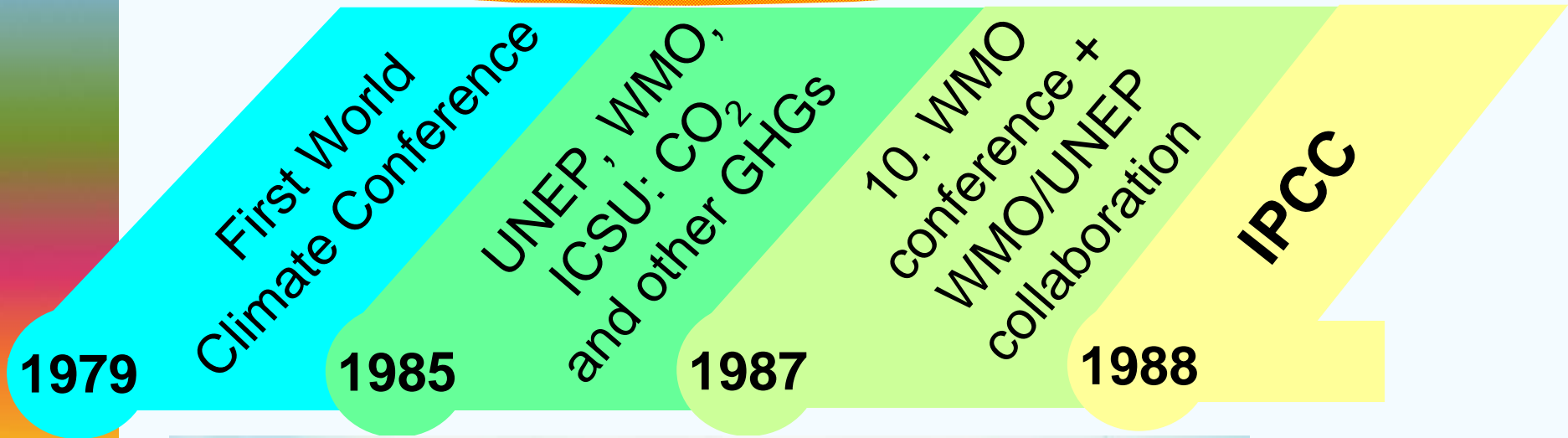
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Research Institute*



# In those cool (?) old days



Nobel  
Peace  
Prize  
2007

# Need for advice from scientists

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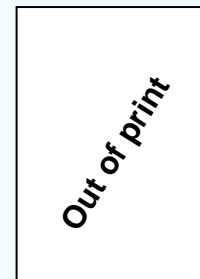
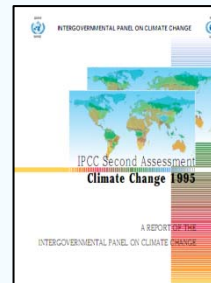
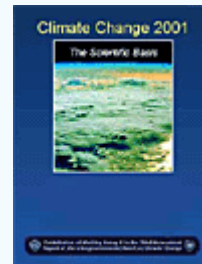
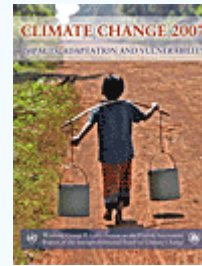
- is climate change real? („detection“)
- what are the causes?
- who is to „blame“? („attribution“)
- what are the consequences?
- what can be done, how, and when?

www.**IPCC**.ch

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- Under UN/WMO since 1988
- Scientific organization "without walls"
- issues reports and develops guidances
- "Intergovernmental Panel"

# IPCC: Assessment reports ...



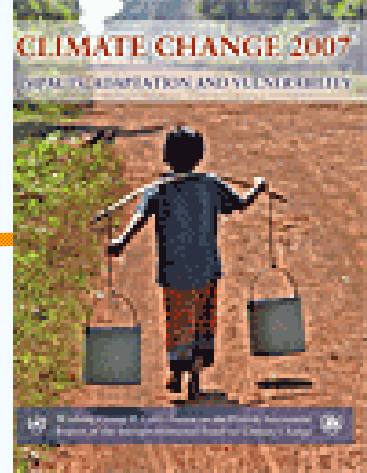
# AR4 - Physical science

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- „The understanding of anthropogenic warming and cooling influences on climate has improved since the TAR, leading to very high confidence that the global average net effect of human activities since 1750 has been one of warming“

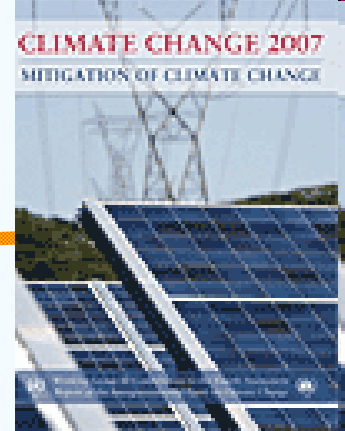
# AR4 - Impacts, adaptation, vulnerability



- „Impacts of climate change ... are very likely to impose net annual costs which will increase over time as global temperatures increase.“
- „more extensive adaptation than is currently occurring is required to reduce vulnerability“

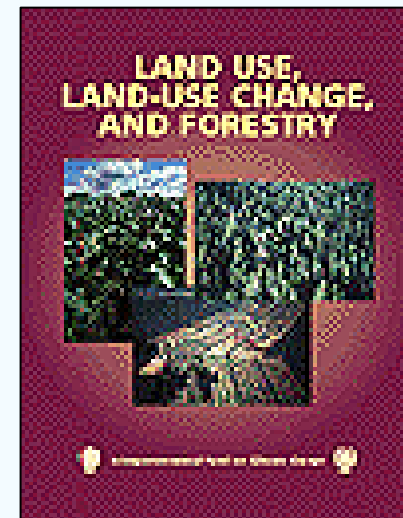
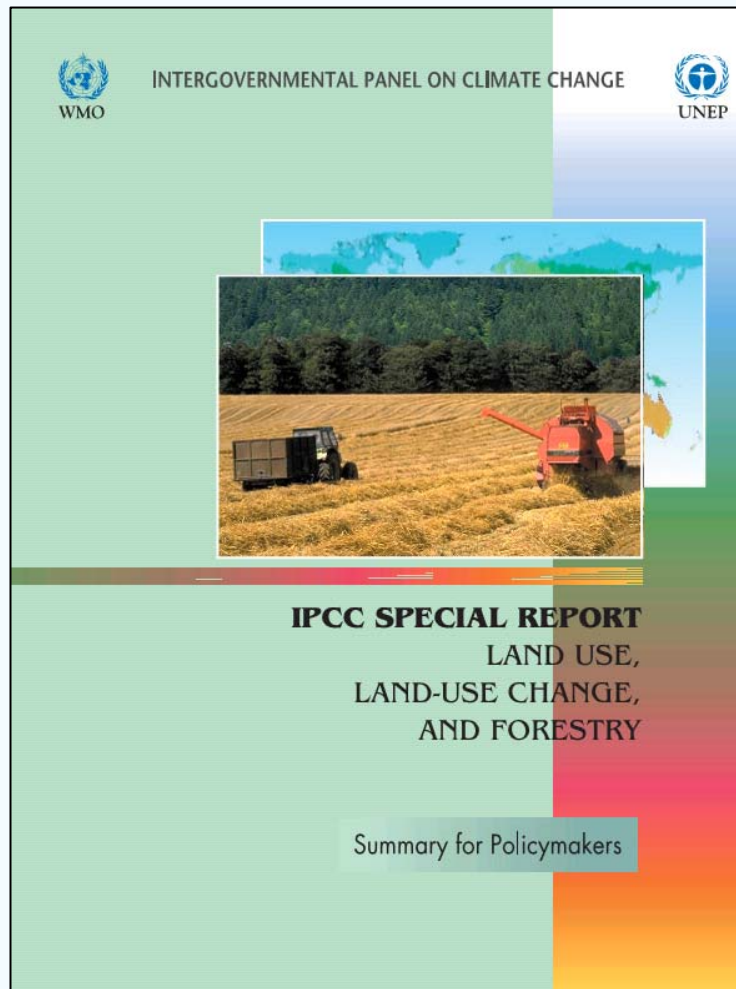
# AR4 - Mitigation

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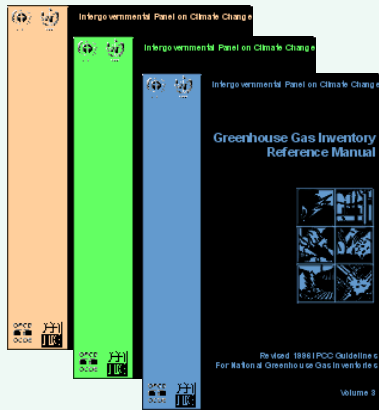


- „Many impacts can be avoided, reduced or delayed by mitigation.“
- „there is substantial economic potential for the mitigation of global GHG emissions over the coming decades, that could offset the projected growth of global emissions or reduce emissions below current levels“

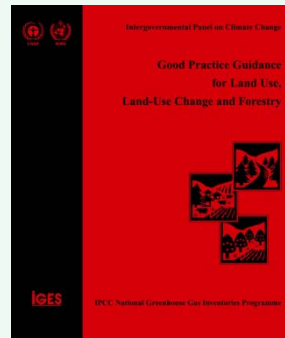
# IPCC: ... Special reports ...



# IPCC: ... Methodological reports



1996 Revised Guidelines



2003 GPG for LULUCF



2006 Guidelines





# UNFCCC reporting tables (extract)

	A	B	C	D	E	F	G
1	<b>TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY</b>						Inventory 2006
2	<b>(Sheet 1 of 1)</b>						Submission 2008 v1.3
3							<b>COUNTRY X</b>
5	<b>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</b>	<b>Net CO<sub>2</sub> emissions/removals<sup>(1), (2)</sup></b>	<b>CH<sub>4</sub><sup>(2)</sup></b>	<b>N<sub>2</sub>O<sup>(2)</sup></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>NMVO C</b>
6		<b>(Gg)</b>					
7	<b>Total Land-Use Categories</b>	-5 938,56	1,24	0,01	0,31	10,88	NA,NE
8	<b>A. Forest Land</b>	-4 661,00	1,24	0,01	0,31	10,88	NE
9	1. Forest Land remaining Forest Land	-4 465,00	1,24	0,01	0,31	10,88	NE
10	2. Land converted to Forest Land	-196,00	NE,NO	NE,NO	NO	NO	NE
11	<b>B. Cropland</b>	-1 277,56	IE,NE,NO	IE,NE,NO	IE,NO	IE,NO	NE
12	1. Cropland remaining Cropland	-1 277,56	IE,NE	IE,NE	IE	IE	NE
13	2. Land converted to Cropland	IE,NE,NO	NE,NO	NE,NO	NO	NO	NE
14	<b>C. Grassland</b>	IE,NA,NE,NO	NE,NO	NE,NO	NO	NO	NE
15	1. Grassland remaining Grassland	IE,NA,NE,NO	NE,NO	NE,NO	NO	NO	NE
16	2. Land converted to Grassland	IE,NA,NE,NO	NO	NO	NO	NO	NE
17	<b>D. Wetlands</b>	IE,NE,NO	NE,NO	NE,NO	NA,NO	NA,NO	NE
18	1. Wetlands remaining Wetlands <sup>(3)</sup>	NE,NO	NO	NO	NA	NA	NE
19	2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO	NE
20	<b>E. Settlements</b>	IE,NA,NE	NA	NA	NA	NA	NE
21	1. Settlements remaining Settlements <sup>(3)</sup>	NE	NA	NA	NA	NA	NE
22	2. Land converted to Settlements	IE,NE	NA	NA	NA	NA	NE
23	<b>F. Other Land</b>	IE,NE,NO	NA,NO	NA,NO	NA	NA	NE
24	1. Other Land remaining Other Land <sup>(4)</sup>						
25	2. Land converted to Other Land	IE,NE	NA	NA	NA	NA	NE
26	<b>G. Other (please specify)<sup>(5)</sup></b>	NE	NA	NA	NA	NA	NA
27	<i>Harvested Wood Products<sup>(6)</sup></i>	NE	NA	NA	NA	NA	NA

# UNFCCC reporting tables (extract)

	A	B	C	D	E	F	G	H	I	J	K
1	<b>TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY</b>										Inventory 2006
2	<b>Forest Land</b>										Submission 2008 v1.3
3	<b>(Sheet 1 of 1)</b>										<b>COUNTRY X</b>
4											
5	<b>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</b>		<b>ACTIVITY DATA</b>		<b>CHANGES IN CARBON STOCK</b>					<b>Net CO<sub>2</sub> emissions/removals<sup>(8) (9)</sup></b>	
6	<b>Land-Use Category</b>	<b>Sub-division<sup>(1)</sup></b>	<b>Area<sup>(2)</sup> (kha)</b>	<b>Area of organic soil<sup>(2)</sup> (kha)</b>	<b>Carbon stock change in living biomass<sup>(3) (4)</sup></b>			<b>Net carbon stock change in dead organic matter<sup>(4)</sup></b>	<b>Net carbon stock change in soils<sup>(4) (6)</sup></b>		
7					<b>Gains</b>	<b>Losses</b>	<b>Net change</b>		<b>Mineral soils</b>		<b>Organic soils<sup>(7)</sup></b>
8											<b>(Gg C)</b>
9											
10	<b>A. Total Forest Land</b>		1 805,80	NE,NO	1 271,18	IE,NO	1 271,18	NE,NO	IE,NE,NO	NE,NO	-4 661,00
11	<b>1. Forest Land remaining Forest Land</b>		1 759,65	NE	1 217,73	IE	1 217,73	NE	NE	NE	-4 465,00
12	<b>2. Land converted to Forest Land<sup>(10)</sup></b>		46,16	NO	53,46	IE,NO	53,46	NE,NO	IE,NO	NO	-196,00
13	2.1 Cropland converted to Forest Land		46,16	NO	53,46	IE	53,46	NE	IE	NO	-196,00
14	2.2 Grassland converted to Forest Land		IE	NO	IE	IE	IE	NE	IE	NO	IE,NE,NO
15	2.3 Wetlands converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO
16	2.4 Settlements converted to Forest Land		IE	NO	IE	IE	IE	NE	IE	NO	IE,NE,NO
17	2.5 Other Land converted to Forest Land		IE	NO	IE	IE	IE	NE	IE	NO	IE,NE,NO

# UNFCCC reporting principles

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- transparency
- accuracy
  - practicability
  - for some pools under KP:  
demonstration may be enough  
that the pool is not a source
- consistency
- completeness
- comparability

# IPCC: ... Methodological reports

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- developed as a joint endeavour
- internationally approved
- provide consistency/comparability
- provide methodological assistance
- provide default data
- flexible

# Importance of accurate C inventories

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- To accurately report: UNFCCC / KP
- To accurately capture the fluxes of the most important GHG under UNFCCC / KP
- To understand processes
- To develop policies
- To assess the effectiveness of policies

# IPCC: ... Other activities

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- technical papers
- supporting materials
- meetings
- workshops
- capacity building
- ...

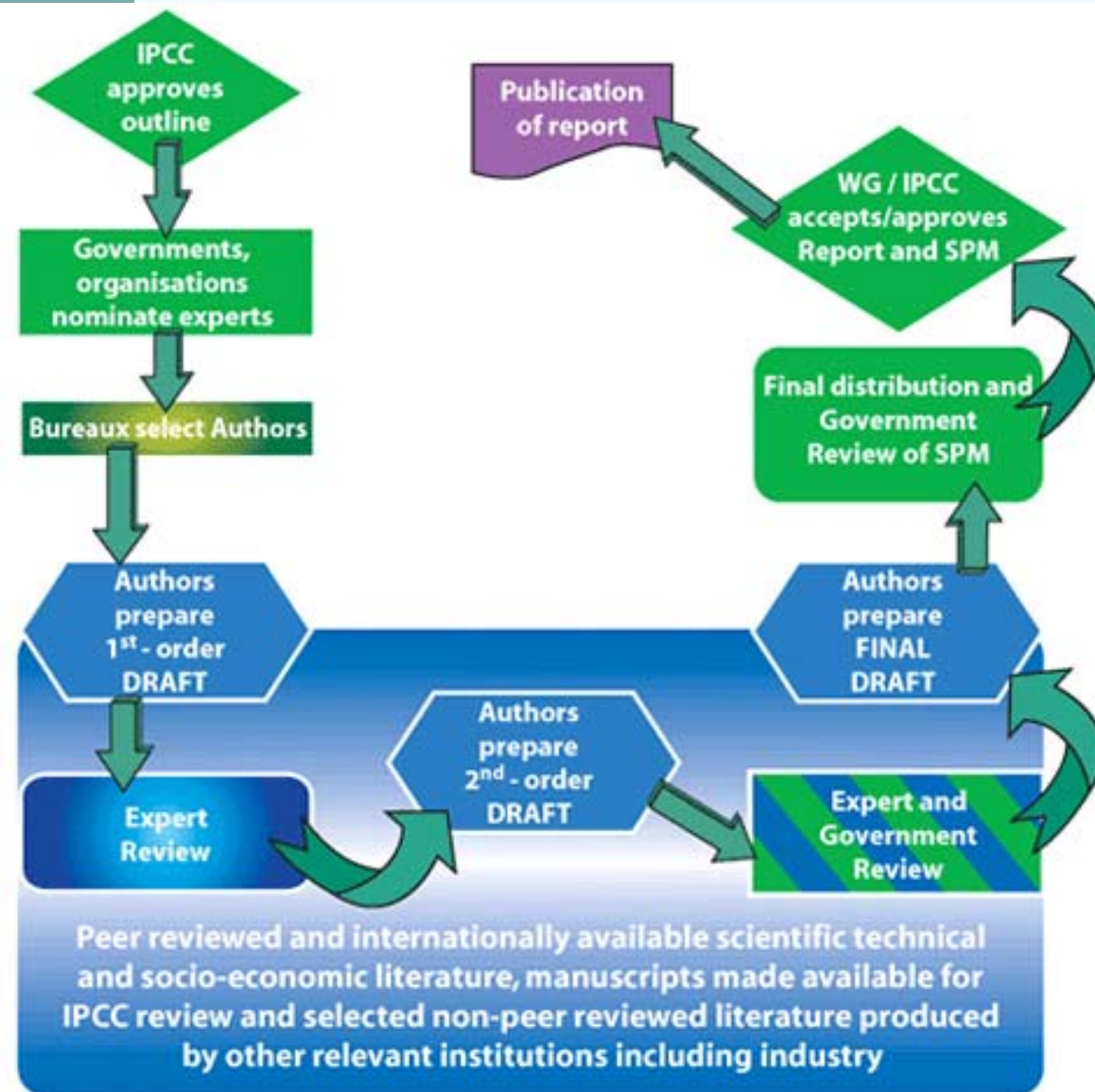


# www.IPCC.ch principles

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- no research or monitoring on its own
- assessment on a comprehensive, objective, open and transparent basis of the latest scientific, technical and socio-economic literature produced worldwide
- joint work
- strict review process
- results can be used by anyone

# IPCC: transparent operation



- Writing: groups of scientists
- Internal review: review editors
- Expert reviews
- Considering comments
- Government reviews
- Finalizing

# Non-governmental IPCC and others

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- science is an endless scepticism
- how to be sceptic?
- IPCC
  - is a human endeavour
  - has a chance to operate correctly
  - should be developed
- do other attempts have a so rigorous system of developing assessments / judgements / reports??

