

Climate Change in the Media

Where have we been, and where should we be headed?

Mike S. Schäfer

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www.ipmz.uzh.ch/Abteilungen/Wissenschaftskommunikation.html

What's the Plan?

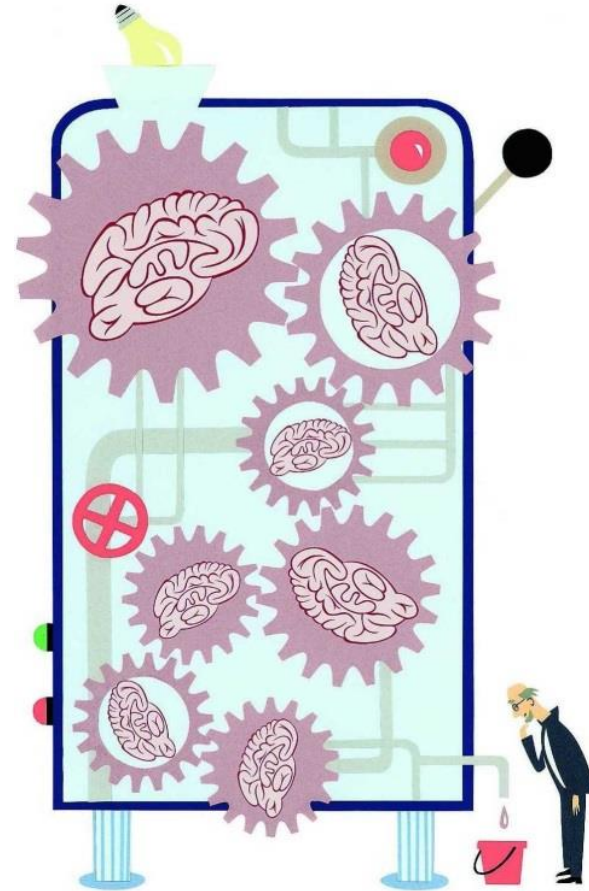
**Climate change in the media:
Why should we talk about this?**

**The Research Field: Development,
Foci, and Gaps**

Where have we been? Main findings

**Where should we be headed?
Avenues for future research**

Conclusion: The Promise of LingClim

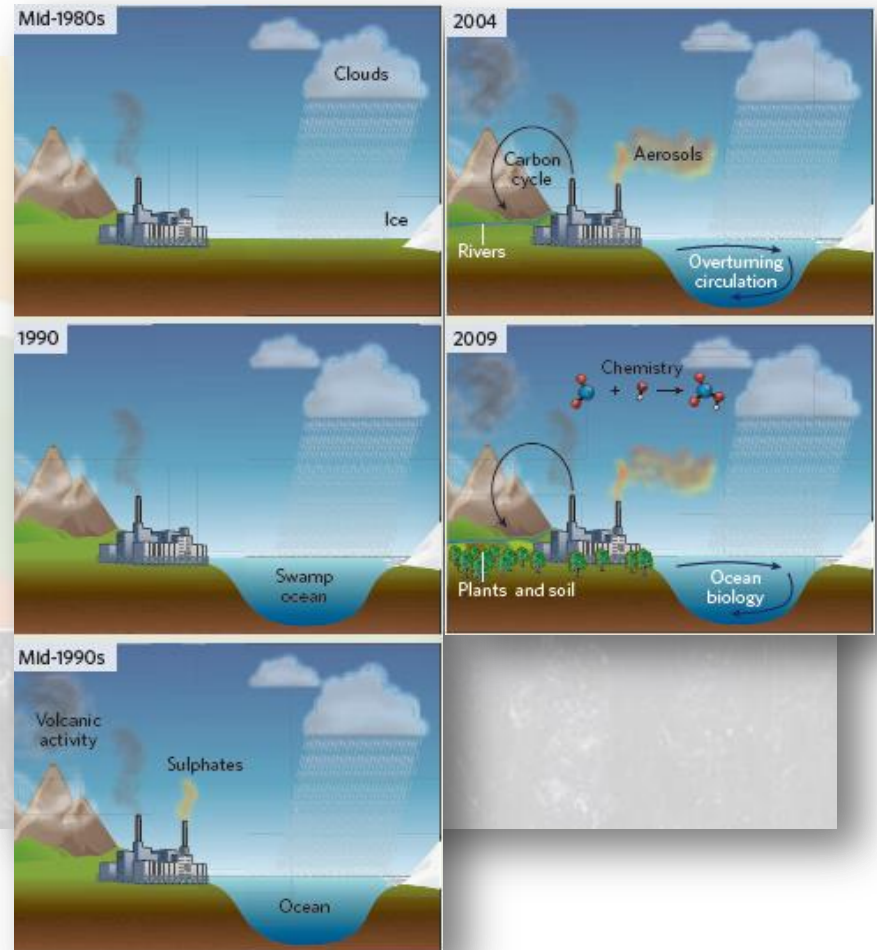


Climate change in the media: Why should we talk about this?



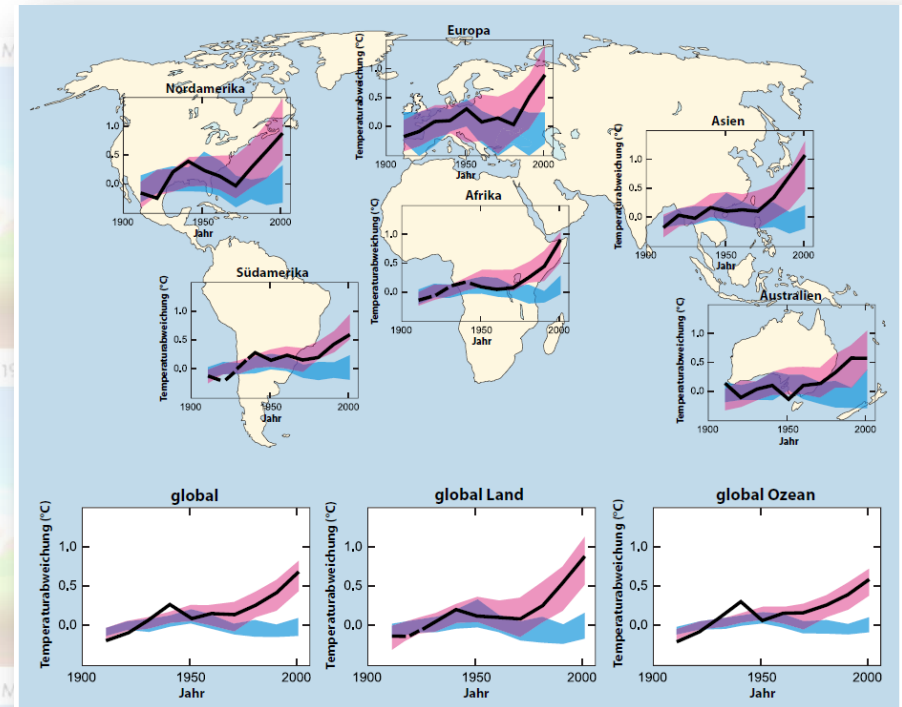
Climate change is an ‚unobtrusive‘ issue ...

... complex,

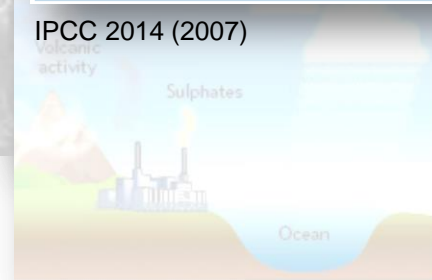


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... complex, large-scale,

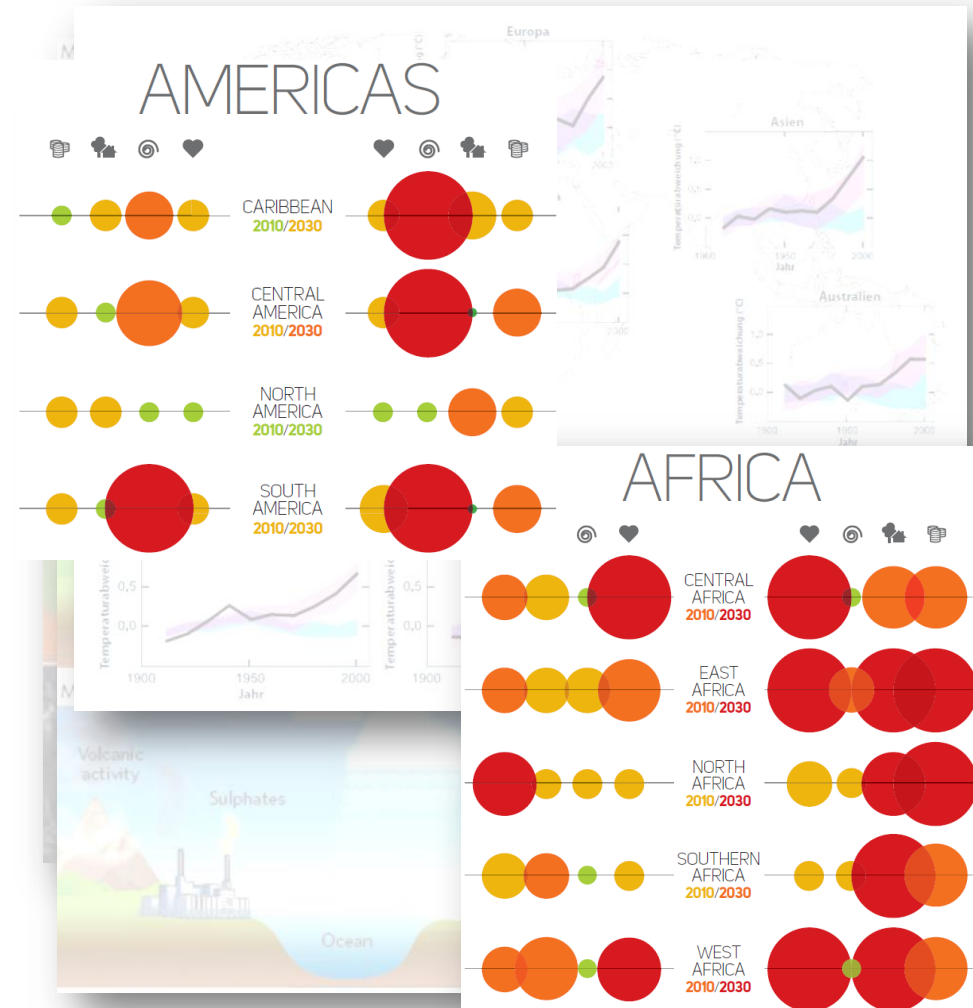


IPCC 2014 (2007)



Climate change is an ‚unobtrusive‘ issue ...

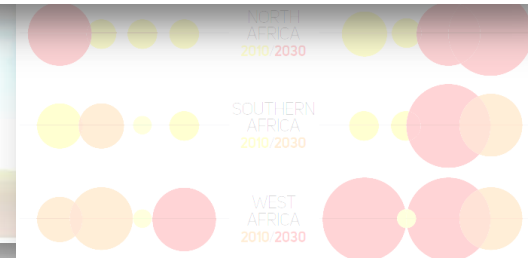
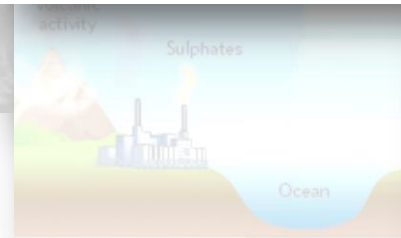
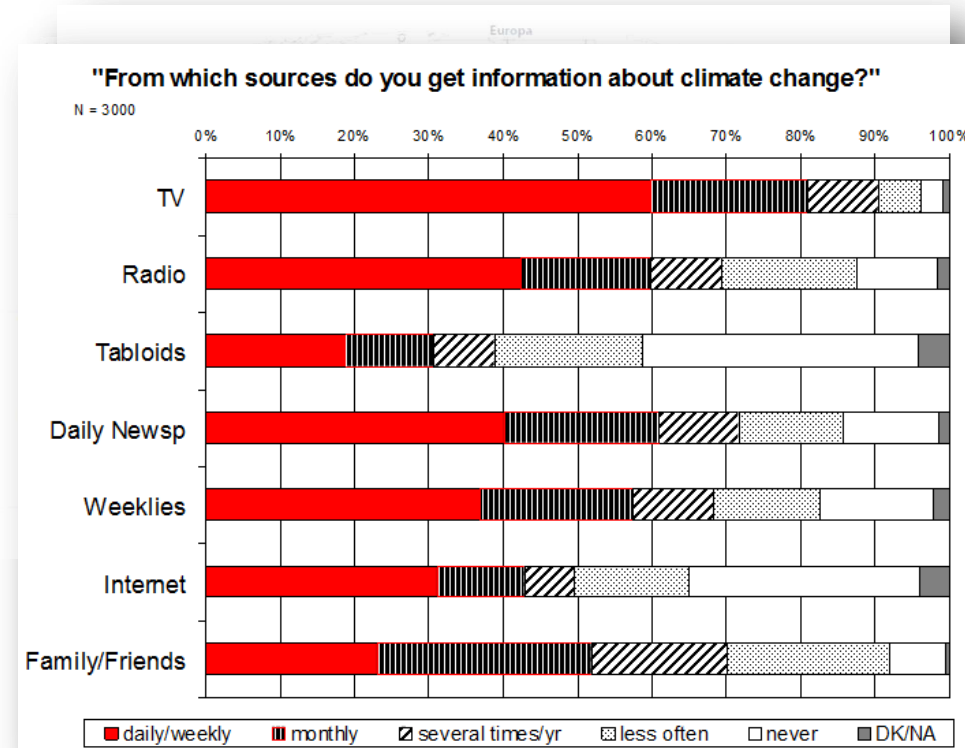
... complex, large-scale, with major implications in the future





... which many people experience via media

- ... complex, large-scale, with major implications in the future
- ... it is an „unobtrusive“ issue, and therefore, media communication about climate change is important



The Research Field





University of
Zurich^{UZH}

IPMZ – Institute of Mass Communication and Media Research

The research field ...

Environmental Communication, 2014

Vol. 8, No. 2, 142–160, <http://dx.doi.org/10.1080/17524032.2014.914050>

 Routledge
Taylor & Francis Group

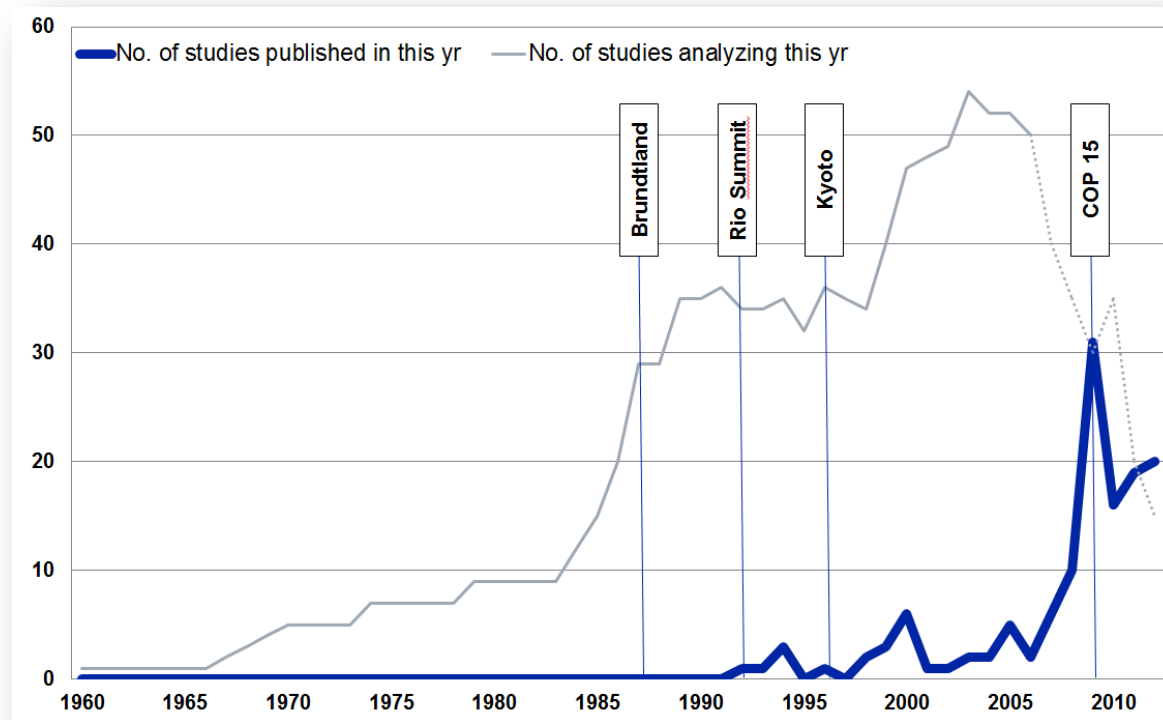
Media Representations of Climate Change: A Meta-Analysis of the Research Field

Mike S. Schäfer & Inga Schlichting



The research field ...

... has expanded
over time





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... diversified itself in terms
of the analysed countries,

	All (n = 273)	1957–1989 (n = 67)	1990–1999 (n = 129)	2000–2010 (n = 236)
Europe	39.4	37.3	36.2	40.9
UK	16.1	14.9	10.8	16.0
Germany	4.0	6.0	5.4	3.4
France	3.6	4.5	4.6	3.8
Sweden	2.9	1.5	1.5	3.4
Russia	2.2	1.5	3.1	2.5
Others	10.6	9.0	10.8	11.8
North America	28.1	44.8	34.6	23.6
USA	19.3	29.9	23.8	15.6
Canada	6.9	13.4	8.5	6.3
Mexico	1.8	1.5	2.3	1.7
Asia	14.2	6.0	13.8	15.6
India	3.3	0.0	2.3	3.4
Middle East	2.6	1.5	2.3	3.0
China	2.2	0.0	2.3	2.5
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	All (n = 199)	1957–1989 (n = 30)	1990–1999 (n = 66)	2000–2010 (n = 155)
60 Europe				
UK				
Germany				
France				
50 Sweden				
Russia				
Other				
40 North America				
US				
Canada				
Mexico				
30 Asia				
India				
Malaysia				
China				
20 Japan				
Others				
Oceania				
10 Australia				
New Zealand				
Others				
Latin America				
0 Brazil				
Argentina				
Others				
Africa				
South Africa				
Others				
Print media	67.5	85.1	83.5	66.9
National newspaper	41.0	53.2	52.2	41.6
Regional newspaper	12.0	6.4	14.9	13.4
Magazines	7.5	17.0	11.9	5.1
Print other	6.0	6.4	3.0	6.4
Newswire	1.0	2.1	1.5	0.6
TV and Radio	15.5	14.9	10.4	16.6
TV News	8.5	12.8	10.4	8.3
TV Other	3.5	2.1	0	3.8
Radio	2.0	0	0	2.5
Film/documentary	1.5	0	0	1.9
Internet	17.0	0	6.0	16.0
Media websites	5.0	0	0	6.4
Social media	4.0	0	0	4.5
Search engines	3.0	0	1.5	3.2
Websites of NGOs	3.0	0	4.5	1.3
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Predominantly quantitative	47.8	46.9	54.0	49.5
Predominantly qualitative	44.8	50.0	40.0	41.0
Balance of quantitative and qualitative	7.5	3.1	6.0	9.5
Design				
Case study	39.6	31.3	22.0	37.1
Longitudinal study	23.9	9.4	6.0	23.8
Comparative study	20.9	40.6	46.0	24.8
Comparative and longitudinal study	10.4	18.8	20.0	11.4
Other	5.2	0.0	6.0	2.9
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The research field ...

- ... has expanded over time
- ... diversified itself in terms of the analysed countries, media
- ... but gaps & analytical challenges remain – TV is under-researched, there is a 'Western' bias and a focus on 'responsible' countries

	All (n = 199)	1957–1989 (n = 30)	1990–1999 (n = 66)	2000–2010 (n = 155)
Table 5. What types of countries have been analyzed?				
				%
<i>Responsibility</i>				
Ten countries with the largest total CO ₂ emissions (in order from highest to lowest: China, USA, India, Russia, Japan, Germany, Canada, Iran, UK, and South Korea; according to United Nations Statistics Division (2013)).				56.2
All 38 Annex-B countries to the Kyoto protocol (in alphabetical order: Australia, Austria, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Ireland, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Monaco, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK, Ukraine, and USA; according to United Nations Framework Convention on Climate Change [UNFCCC] (2013)).				78.8
<i>Vulnerability</i>				
All 31 countries acutely threatened by climate change (in alphabetical order: Afghanistan, Armenia, Bolivia, Bosnia and Herzegovina, Cambodia, China, Croatia, Cuba, El Salvador, Gambia, Georgia, Greece, Guyana, Hungary, Iran, Lithuania, Mauritius, Moldova, Morocco, Mozambique, Namibia, Nicaragua, Peru, Portugal, Romania, South Africa, Spain, Tajikistan, Uruguay, Vietnam, and Zimbabwe; according to DARA Vulnerability Monitor (2013)).				5.2
Ten countries most affected by negative impacts of climate change between 1992 and 2011 (in order of risk from highest to lowest: Honduras, Myanmar, Nicaragua, Bangladesh, Haiti, Vietnam, DPR Korea, Pakistan, Thailand, and Dominican Republic; according to Climate Risk Index, see Harmeling and Eckstein (2013, p. 6)).				0.0
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- ... but gaps & analytical challenges remain – TV is under-researched, there is a ‚Western‘ bias and a focus on ‚responsible‘ countries, but not ‚vulnerable‘ ones

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Where have we been?





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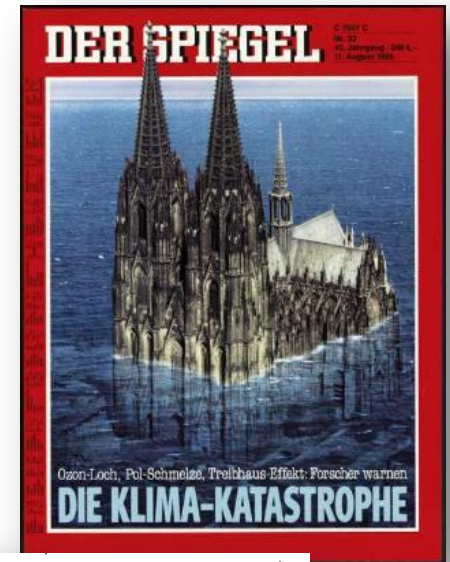
IPMZ – Institute of Mass Communication and Media Research

We've been to many interesting places

Stakeholder Communication and Agenda Building

- different modes of agenda building with prominent involvement of scientists: successful scientific agenda building in GER, persistent „climate denial machine“ (McCright & Dunlap 2011) in US

Der Spiegel 33/1986



ORGANIZED CLIMATE CHANGE DENIAL

RILEY E. DUNLAP AND AARON M. MCCRIGHT

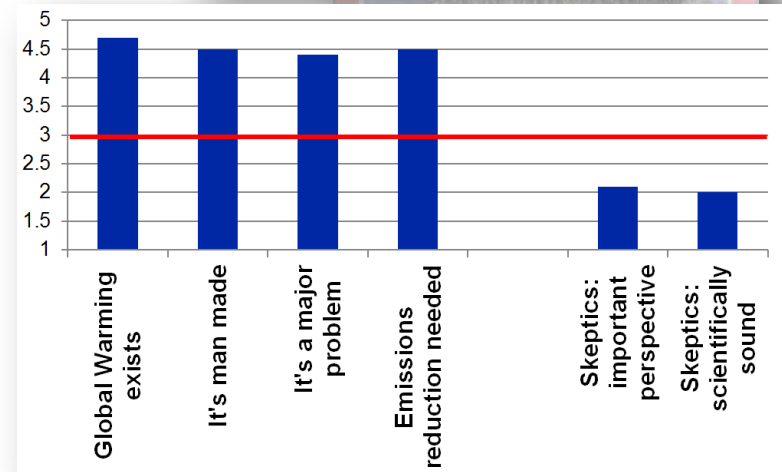
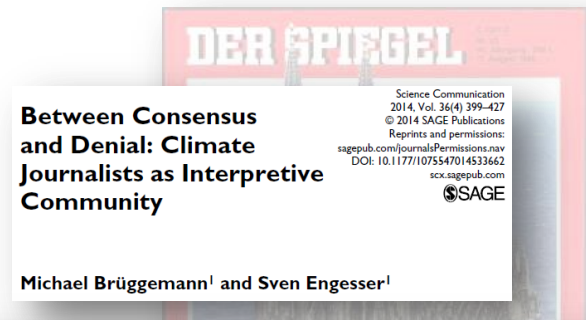
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„Climate Journalists“

- professionalization of „climate journalists“ who mostly share IPCC positions





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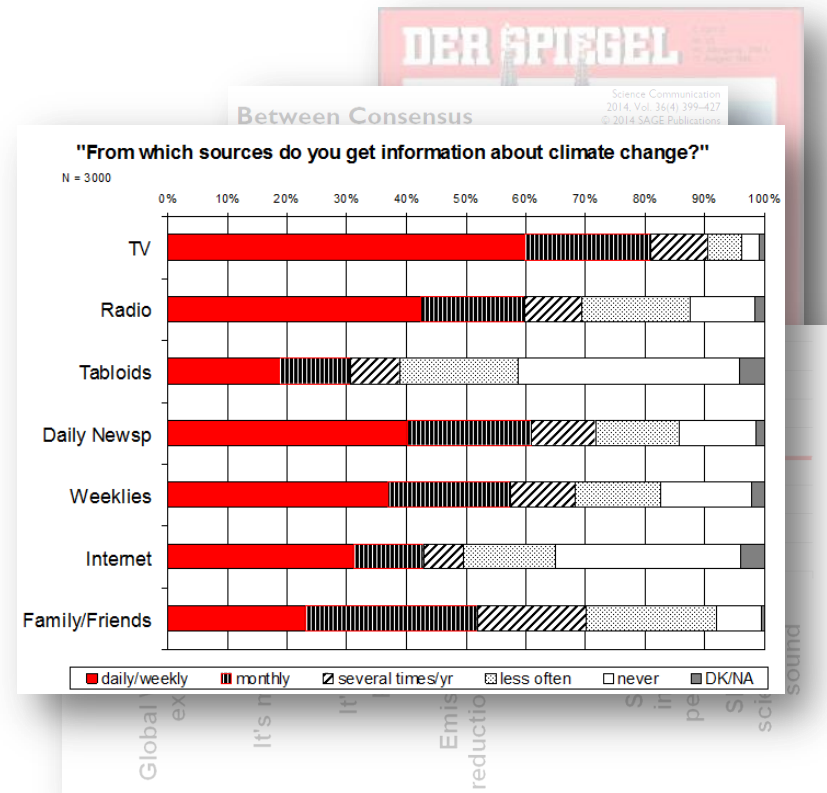
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The Audience: Use and Effects

- media as important & trustworthy sources of information about climate change



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The Audience: Use and Effects

- media as important & trustworthy sources of information about climate change
- agenda setting effects, cognitive effects; but limited or no discernible attitudinal and behavioral effects

Sampei & Aosagi 2009

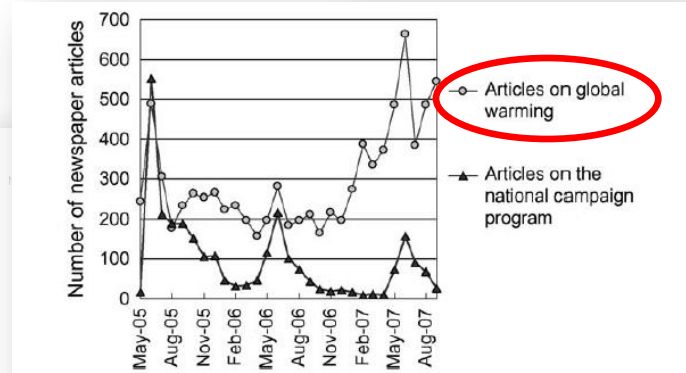


Fig. 4. Coverage by three major national Japanese newspapers of key terms on global warming and from the Japanese national campaigns.

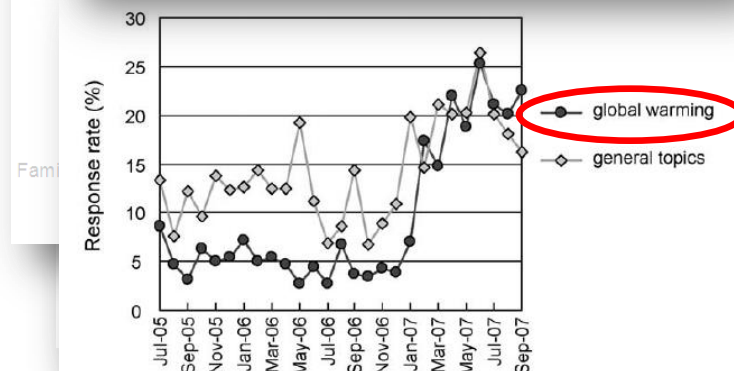


Fig. 7. Response rates for the two sub-categories of the 'environment' response, 'global warming' and 'general topics'.

CC is a relevant media issue around the world

Media attention in 27 Countries over 15 Years

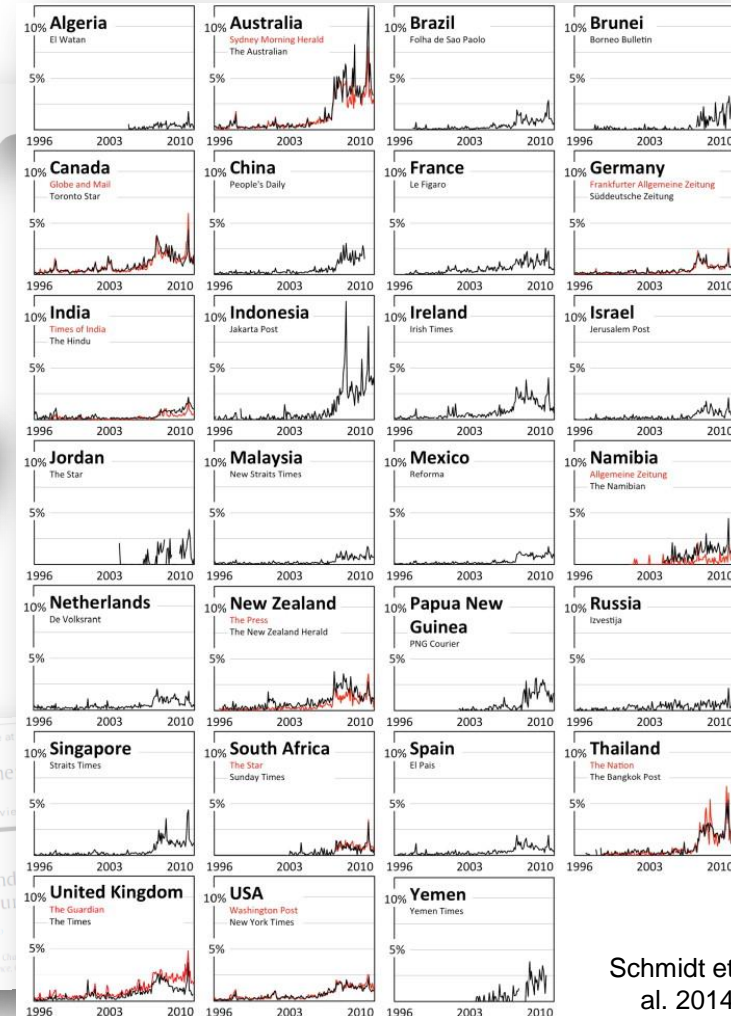
- using quality print media, 1996-2010
- approx. 150,000 articles
- measuring percentage of entire coverage that mentions CC
- using complex search strings and extensive manual cross-checks



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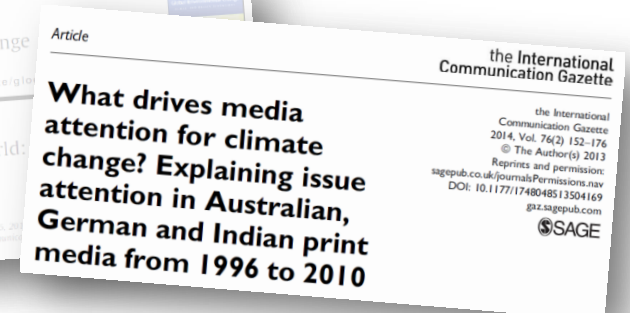
- attention rises in all countries, particularly since mid-2000s
- overall attention levels comparatively high (e.g. compared to „genohype“ (Racine et al. 2006))
- pronounced peaks around certain events, particularly COP 15 in 2009





Media coverage is triggered mainly by socio-politics

Triggers of media
attention for climate
change

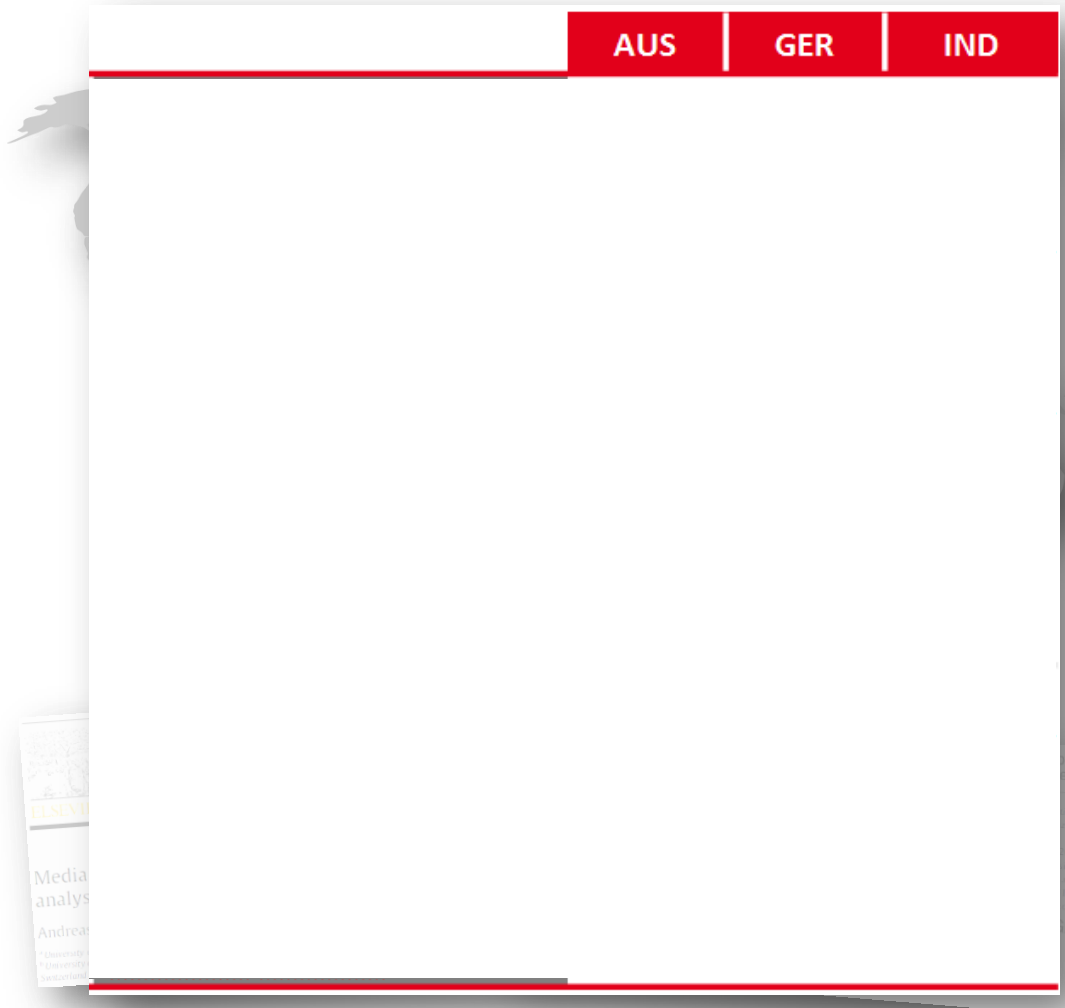




Media coverage is triggered mainly by socio-politics

Triggers of media attention for climate change

- time series regression models explaining amount of issue attention
- for Australia, Germany, India





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Triggers of media attention for climate change

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- explanatory factors: „problem indicators“,

	AUS	GER	IND
Internat. Extreme Weather			
Domestic Extreme Weather			
Domestic Temperature			

Explaining Media and Congressional Attention to Global Climate Change, 1969–2005: An Empirical Test of Agenda-Setting Theory

Xinsheng Liu,¹ Eric Lindquist,¹ and Arnold Vedlitz¹

Political Research Quarterly
XX(X) 1–15
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DOI: 10.1177/1065912909346744
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Media coverage is triggered mainly by socio-politics

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Internat. Extreme Weather			
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Domestic Temperature			
UNFCCC COPs			
UNCED Rio (+x) Summits			
EU / APP Summits			
G8 Summits			
Gleneagles Dialogue			
IPCC Assessment Reports			
Stern Review			
Cultural Events			



Media coverage is triggered mainly by socio-politics

Triggers of media attention for climate change

- time series regression models explaining amount of issue attention
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Domestic Business Activity			



Media coverage is triggered mainly by socio-politics

Triggers of media attention for climate change

- showing low importance of climate/weather events

	AUS	GER	IND
Internat. Extreme Weather	-	-	-
Domestic Extreme Weather	-	vvv	-
Domestic Temperature	-	v	-
UNFCCC COPs			
UNCED Rio (+x) Summits			
EU / APP Summits			
G8 Summits			
Gleneagles Dialogue			
IPCC Assessment Reports			
Stern Review			
Cultural Events			
Domestic Political Activity			
International ENGO Activity			
Domestic ENGO Activity			
Internat. Scientific Activity			
Domestic Scientific Activity			
Domestic Business Activity			



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- high importance of key events, esp. political events

	AUS	GER	IND
Internat. Extreme Weather	-	-	-
Domestic Extreme Weather	-	vvv	-
Domestic Temperature	-	v	-
UNFCCC COPs	vvv	vvv	vvv
UNCED Rio (+x) Summits	vv	-	-
EU / APP Summits	-	-	-
G8 Summits	-	-	v
Gleneagles Dialogue	-	-	-
IPCC Assessment Reports	-	v	-
Stern Review	-	-	-
Cultural Events	v	-	-
Domestic Political Activity			
International ENGO Activity			
Domestic ENGO Activity			
Internat. Scientific Activity			
Domestic Scientific Activity			
Domestic Business Activity			



Media coverage is triggered mainly by socio-politics

Triggers of media attention for climate change

- showing low importance of climate/weather events
- high importance of key events, esp. political events as well as of political and NGO activity

	AUS	GER	IND
Internat. Extreme Weather	-	-	-
Domestic Extreme Weather	-	vvv	-
Domestic Temperature	-	v	-
UNFCCC COPs	vvv	vvv	vvv
UNCED Rio (+x) Summits	vv	-	-
EU / APP Summits	-	-	-
G8 Summits	-	-	v
Gleneagles Dialogue	-	-	-
IPCC Assessment Reports	-	v	-
Stern Review	-	-	-
Cultural Events	v	-	-
Domestic Political Activity	vv	v	-
International ENGO Activity	vvv	vvv	vvv
Domestic ENGO Activity	-	-	-
Internat. Scientific Activity	-	-	-
Domestic Scientific Activity	-	-	-
Domestic Business Activity	-	-	-



**University of
Zurich^{UZH}**

IPMZ – Institute of Mass Communication and Media Research

A „societal turn“ in media coverage

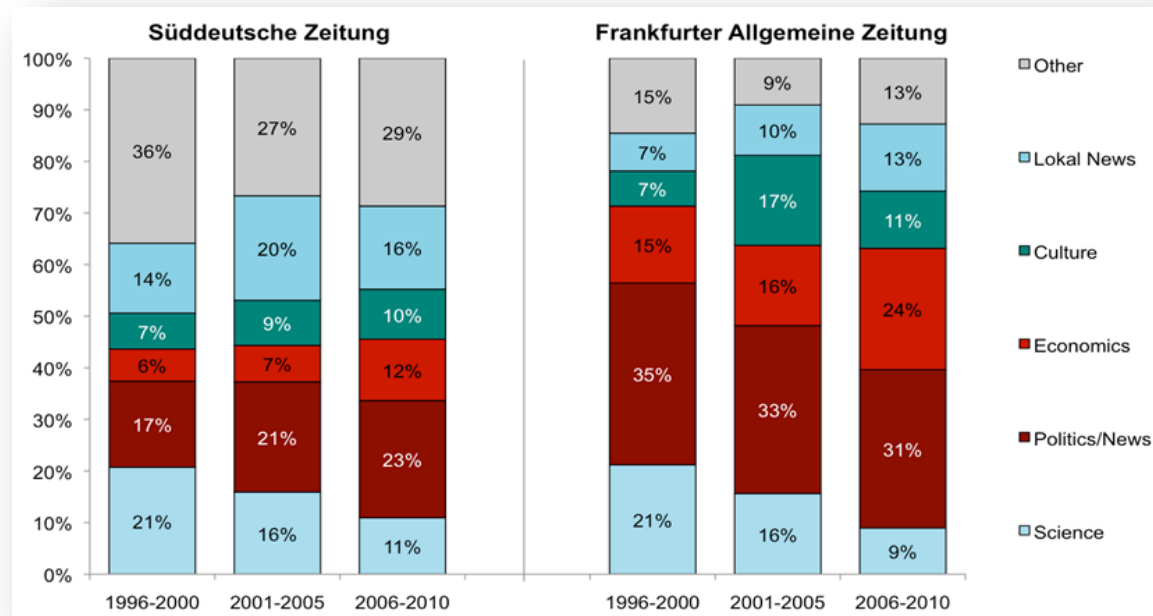
**Trend towards societal
issues in climate change
reporting over time**



A „societal turn“ in media coverage

Trend towards societal issues in climate change reporting over time

- not merely a science issue anymore: issue moves from science desk to politics & economy

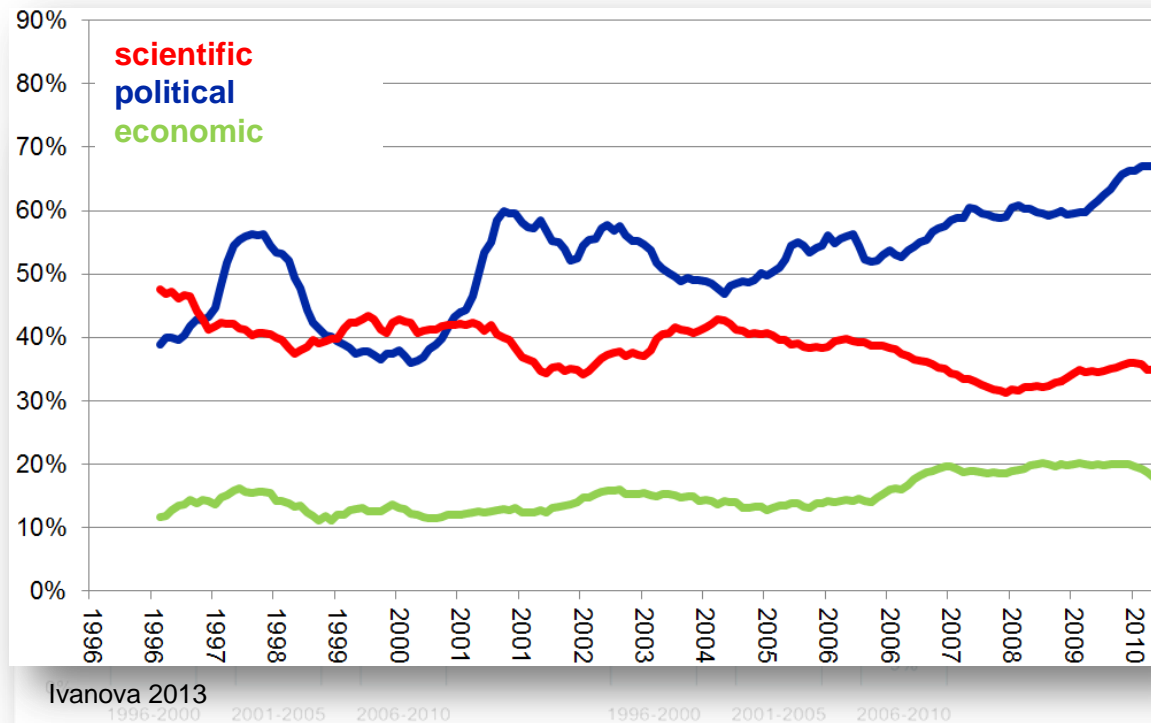




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Trend towards societal issues in climate change reporting over time

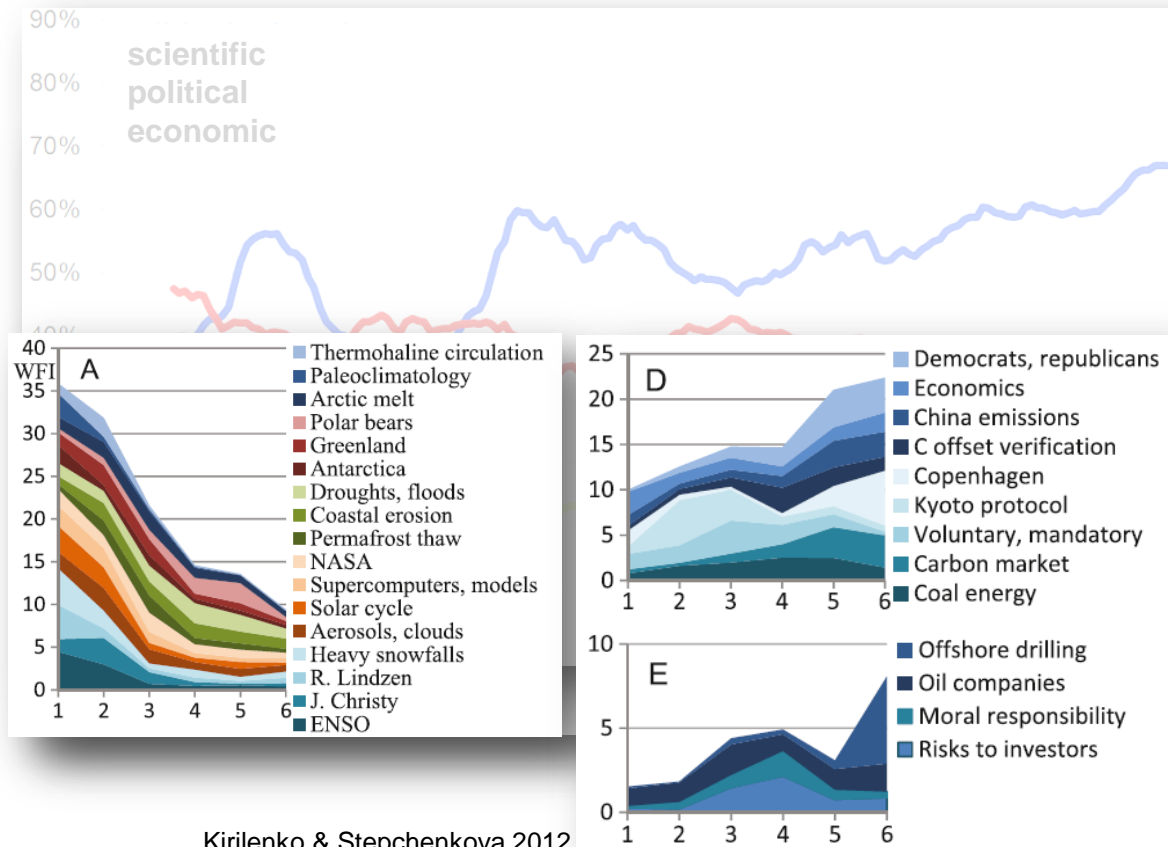
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**Apart from temporal
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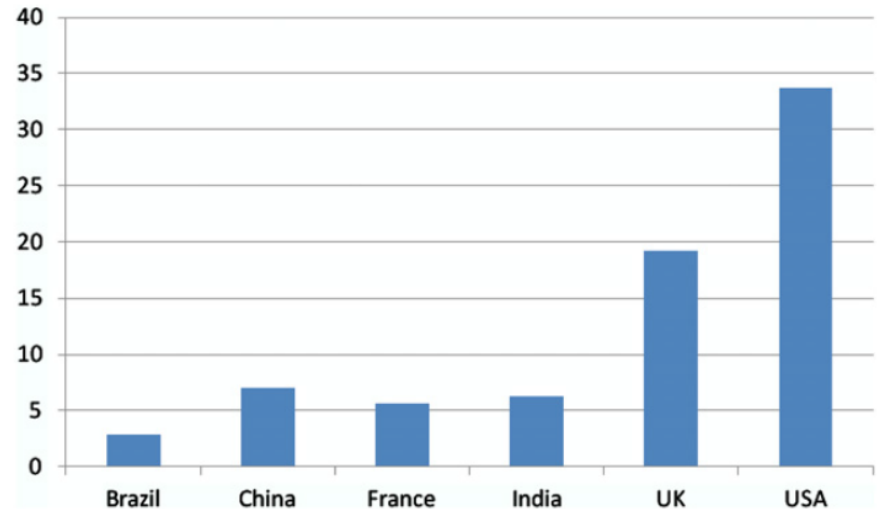


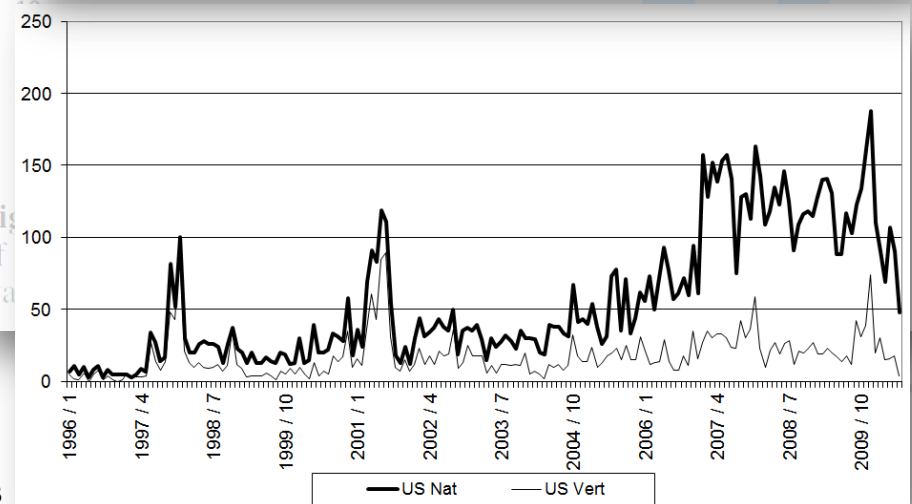
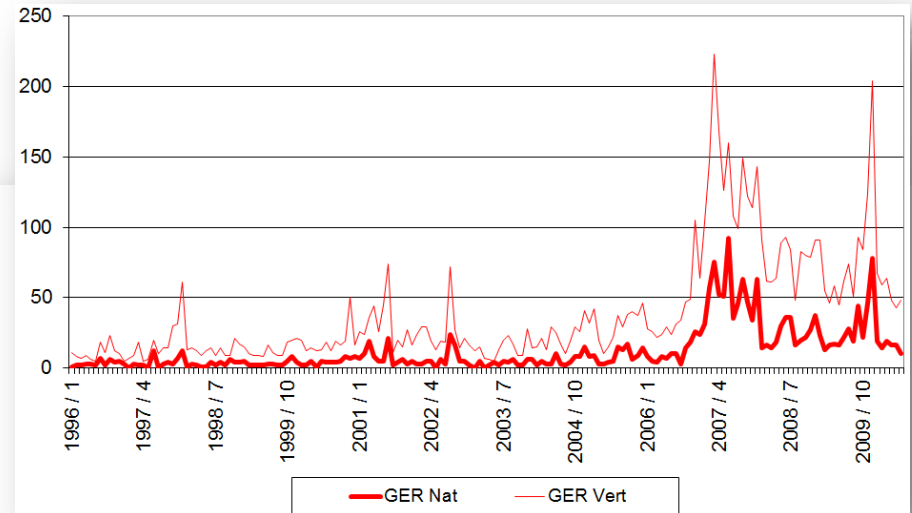
Figure 1. The number of articles containing sceptical voices as a % of the total number of articles covering climate change or global warming, 2009–10.



But considerable differences remain

Apart from temporal changes and general trends, differences in content between countries/regions remain

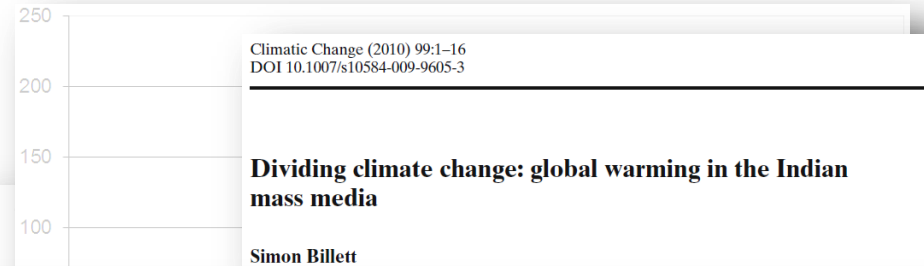
- in the focus on science and the degree of climate change “skepticism”
- in the degree of ethnocentrism



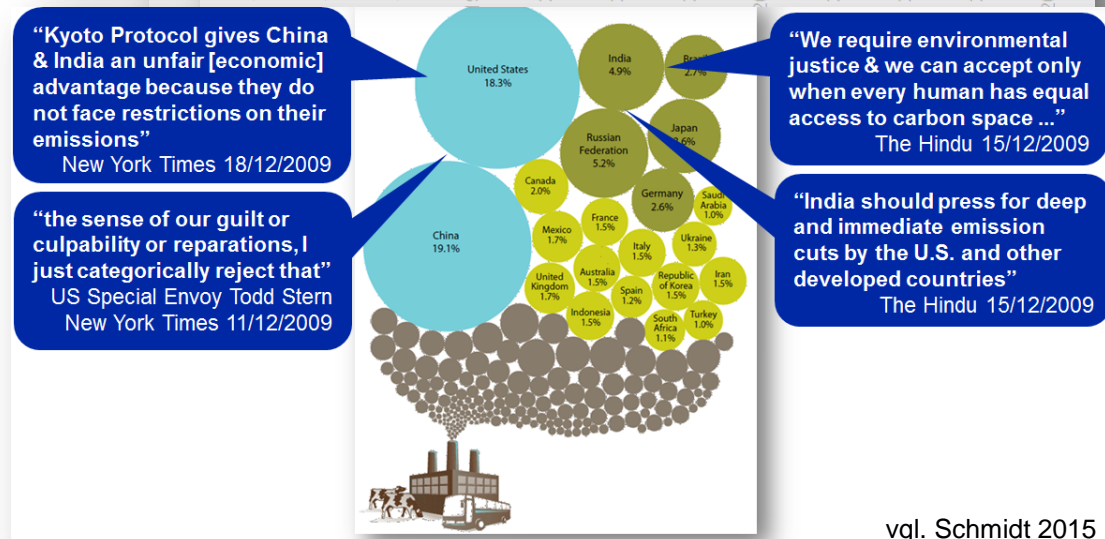
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Apart from temporal changes and general trends, differences in content between countries/regions remain

- in the focus on science and the degree of climate change “skepticism”
- in the degree of ethnocentrism
- in the framing of climate change between the ‘Global North’ and ‘South’



by framing climate change along a ‘risk-responsibility divide’, the Indian national press set up a strongly nationalistic position on climate change that divides the issue along both developmental and postcolonial lines.





Where should we be headed?



Where should we be headed?

Follow the „societal turn“! Focus on communication about socio-political implications more.

Area (2007) 39.2, 000–000

Flogging a dead norm? Newspaper coverage of anthropogenic climate change in the United States and United Kingdom from 2003 to 2006

Maxwell T Boykoff

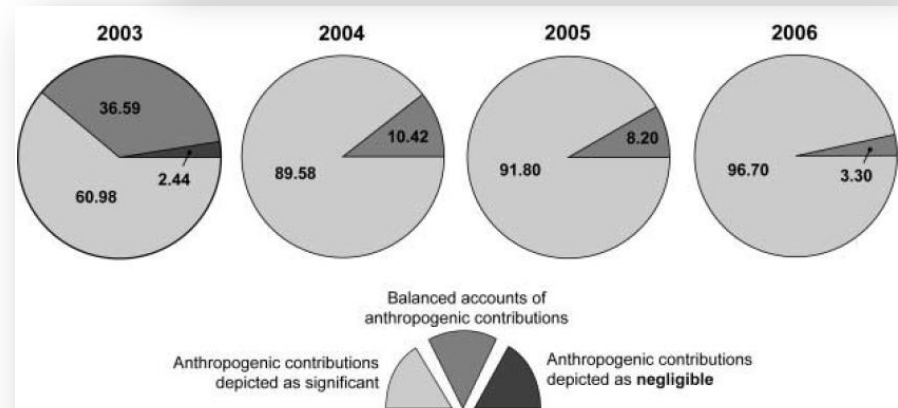


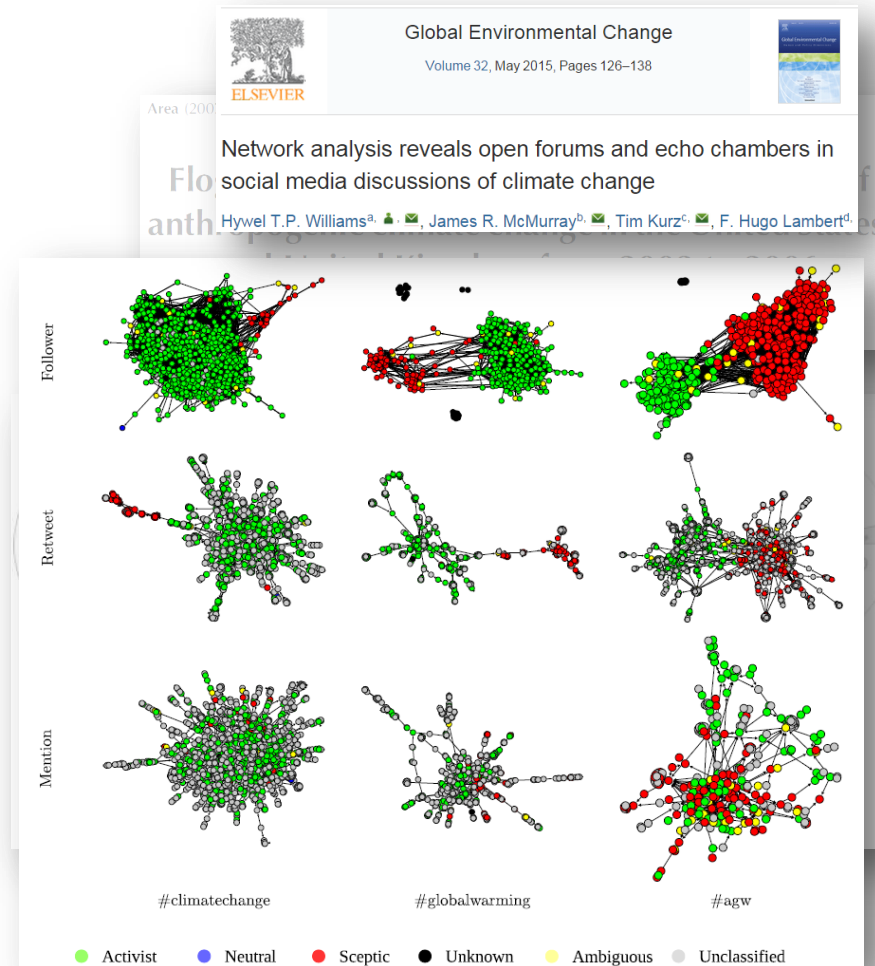
Figure 2 US newspaper coverage of anthropogenic climate change by year, 2003–2006, n=421



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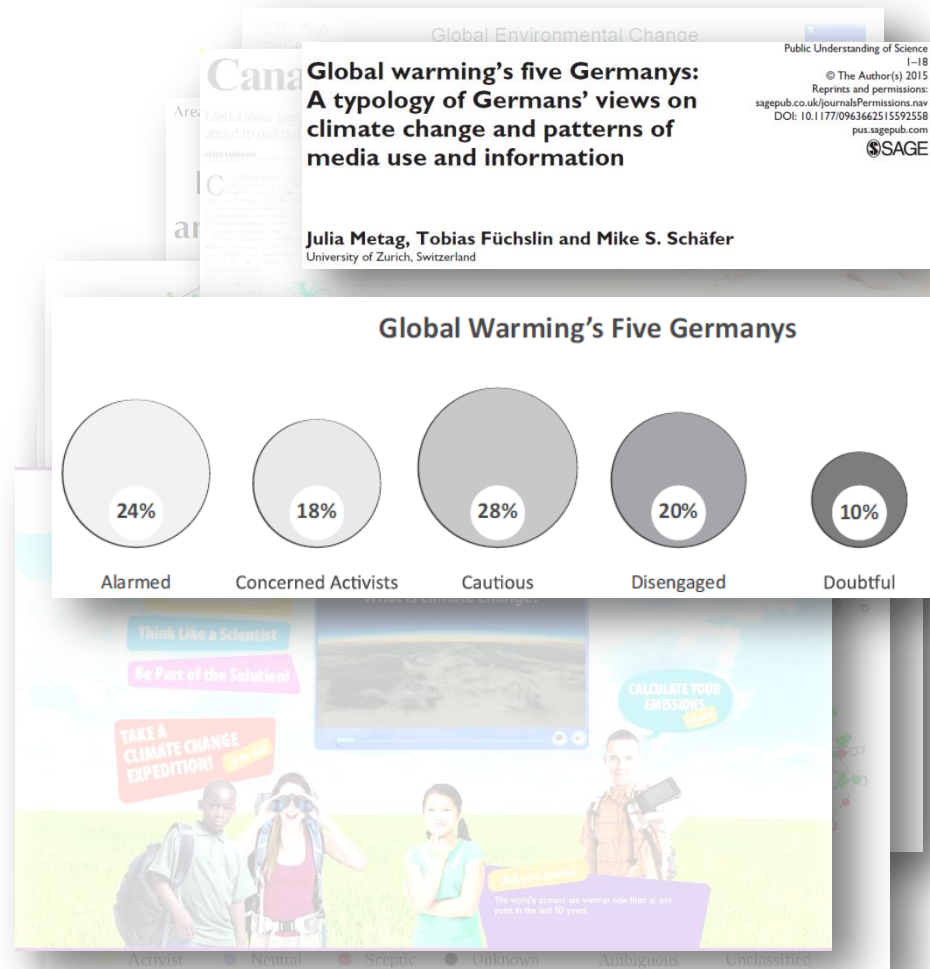
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De-Westernize Research! And analyse the (potential) transnationalization of communication.





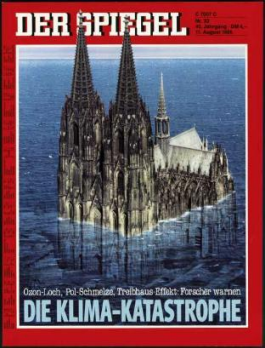
Conclusion

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Several of those challenges can be addressed with a new kind of interdisciplinarity

- “big” data is available: newspaper databases, social media, even some TV archives, ...
- we need to adapt our theories and methods for that, combining disciplinary approaches





Thank you for your attention!

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www.ipmz.uzh.ch/Abteilungen/Wissenschaftskommunikation.html