

Changing Climates: Discourses around climate change in the British and Brazilian news media

Carmen Dayrell, Tony McEnery, John Urry





Background



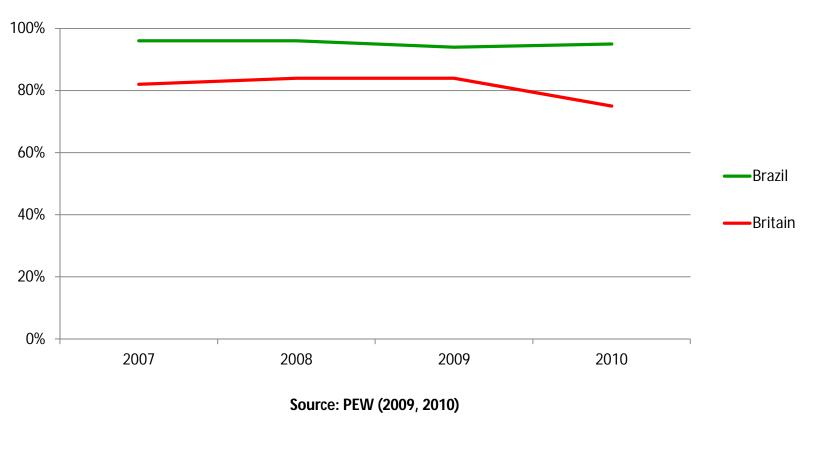


- among the largest economies in the world
- major emitters of greenhouse gases
- significant measures to curb emissions
- major players in international debates on global warming



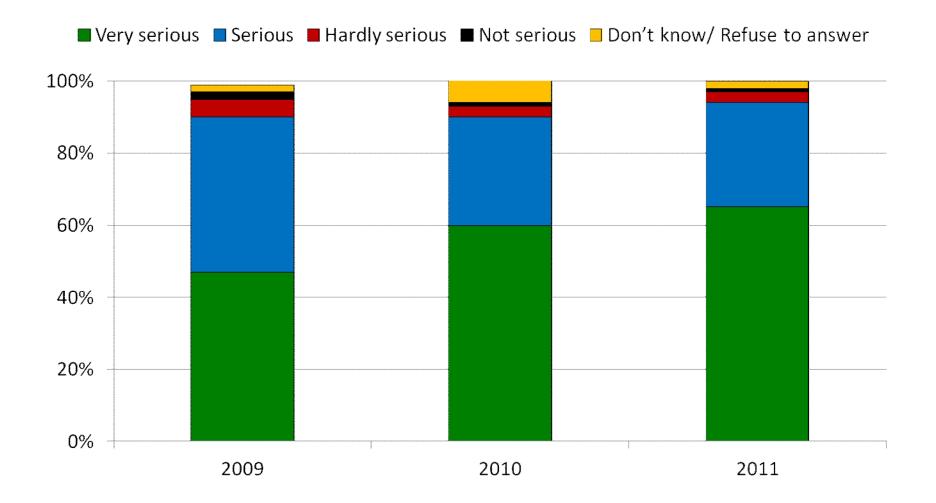
Public Opinion

Percentage of people who considered global warming a (very) serious problem



Brazilians' degree of concern about global warming (CNI-IBOPE 2012)

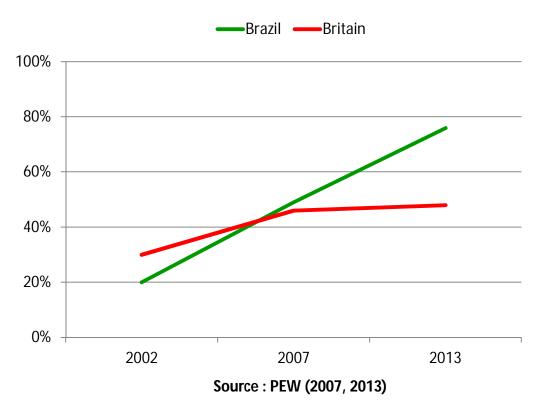






Public Opinion

Percentage of people who regard environmental problems as a major global threat



- Climate change
- International financial instability
- US power and influence
- North Korea's nuclear program
- Iran's nuclear program
- Islamic extremist groups

Climate Change: three broad positions or discourses (Urry, 2011)

• Catastrophism

CASS

- Gradualism
- Scepticism

Climate Change: three broad positions or discourses (Urry, 2011)



CASS

• Gradualism

IPCC reports

- Climates are changing around the world
- Human activities are responsible for these changes
- Changes are relatively slow
- Economies should be adjusted in order to reduce future temperature increases

Purpose



To examine how climate change has been framed in printed **newspapers** across Brazil and Britain in the past decade (2003-2013)



Lancaster Corpus on Climate Change (CCliC)

Query words/phrases (Gabrielatos 2007)



CCliC-Britain

- climate change,
- global warming
- greenhouse gas(es)
- carbon emissions
- carbon reduction
- carbon cuts
- greenhouse initiative
- carbon trading
- renewable(s)

CCliC-Brazil

- mudança(s) climática(s), mudança(s) do clima
- aquecimento global
- gases-estufa, gases de/do efeito estufa
- emissões de carbono, emissões de CO₂, emissões/emissão de dióxido de carbono
- redução das emissões, reduzir (as) emissões
- emissões globais
- IPCC
- UNFCCC
- Conferência/Convenção do Clima
- Protocolo de Kyoto/Kioto/Quioto
- temperatura global

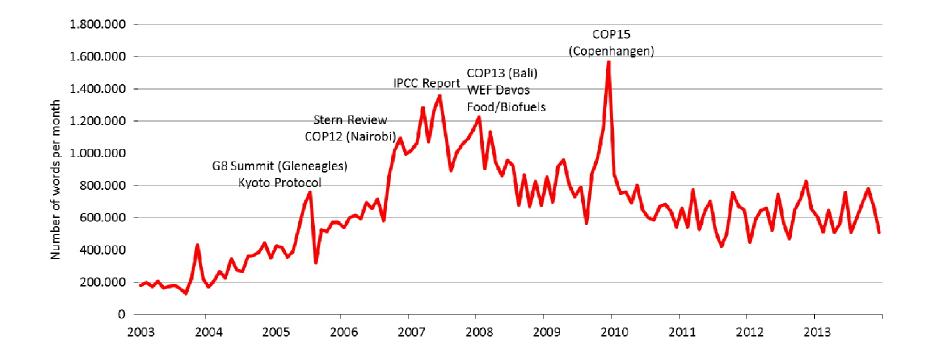
CCliC-Britain: 107,515 texts (69.8 Million words)



Broadsheet	The Times	The Sunday Times
	The Guardian	The Observer
	The Daily Telegraph	The Sunday Telegraph
	The Independent	Independent on Sunday
	The Herald	Sunday Herald
	The Scotsman	Scotland on Sunday
Tabloid	The Express	The Sunday Express
	The Daily Mail	Mail on Sunday
	The Sun	Sunday Sun
	The Daily Mirror	Sunday Mirror
	The Daily Star	Daily Star Sunday
	The Daily Record	Sunday Mail



CCliC-Britain



CCliC-Brazil: 19,268 texts (10.9 Million words)

CASS

Social Scienc



Folha de São Paulo

O Globo

Estado de São Paulo

Jornal da Tarde

Gazeta do Povo

Zero Hora

Diário Catarinense

Pioneiro

Estado de Minas

Correio Braziliense

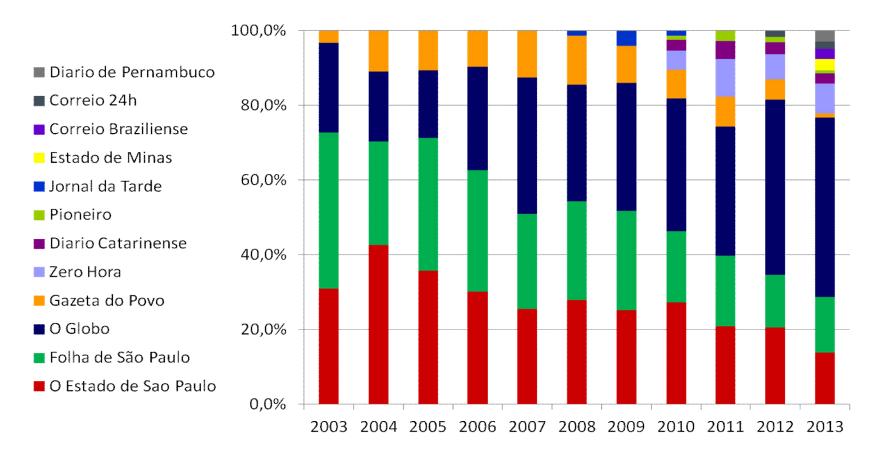
Diário de Pernambuco

Correio

CCliC-Brazil

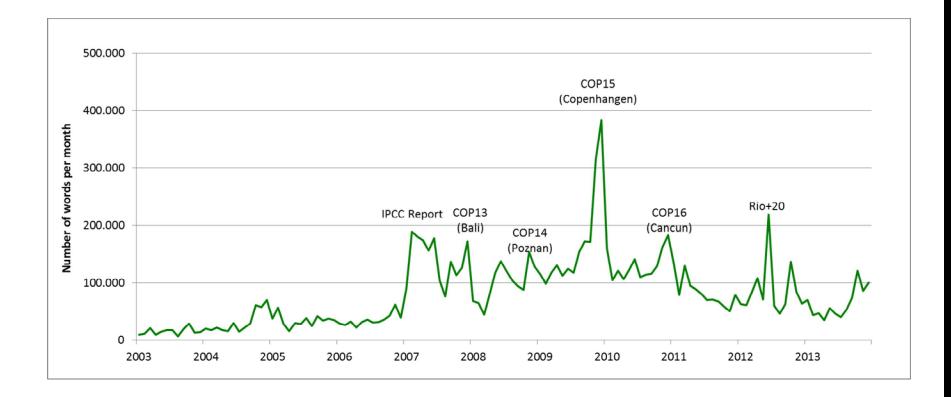


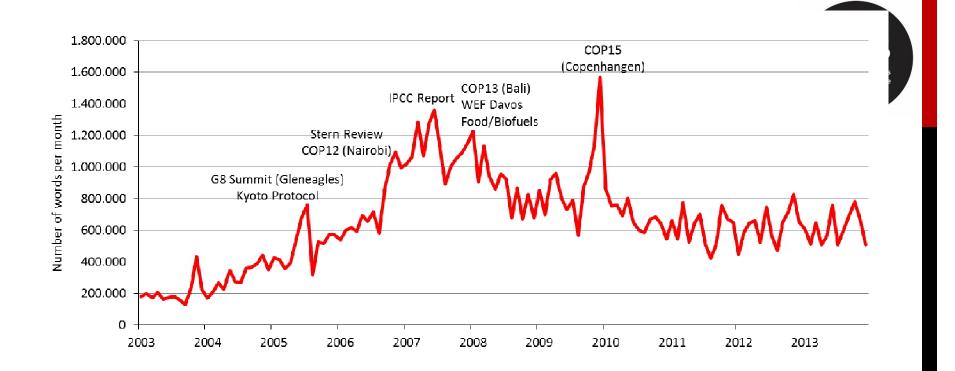
% of words from each newspaper per year

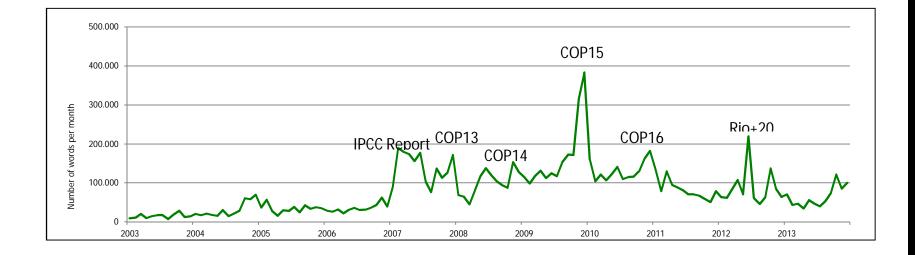




CCIiC-Brazil

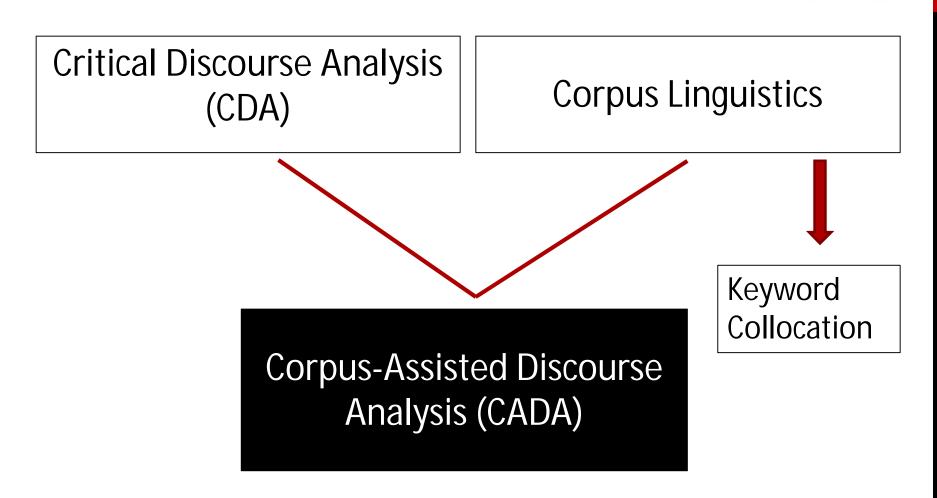






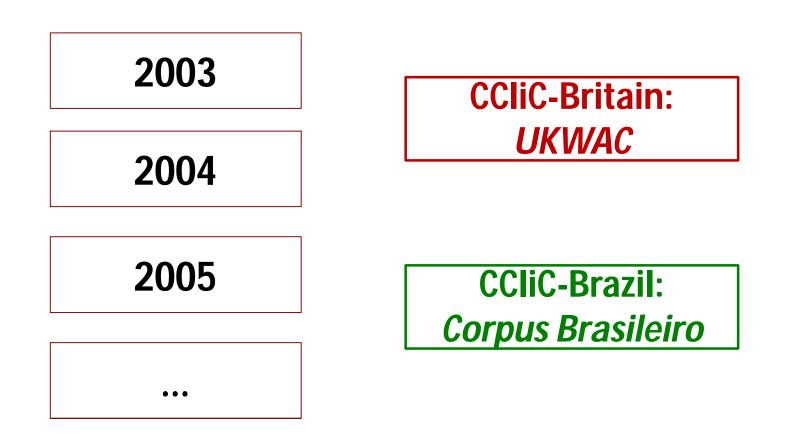
Theoretical Framework





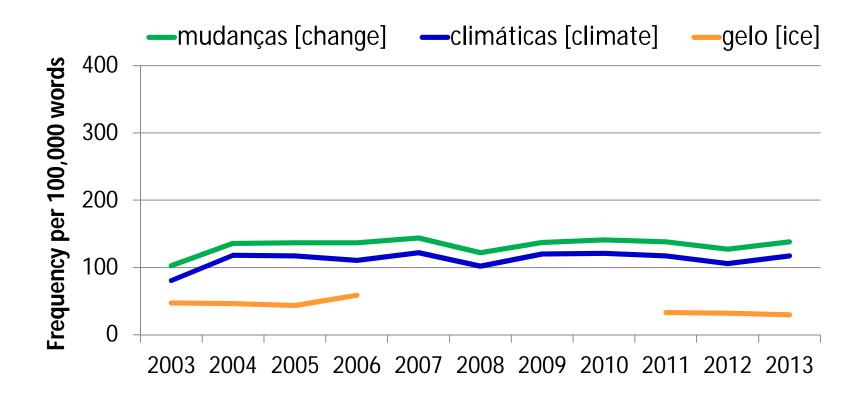


Keywords by year

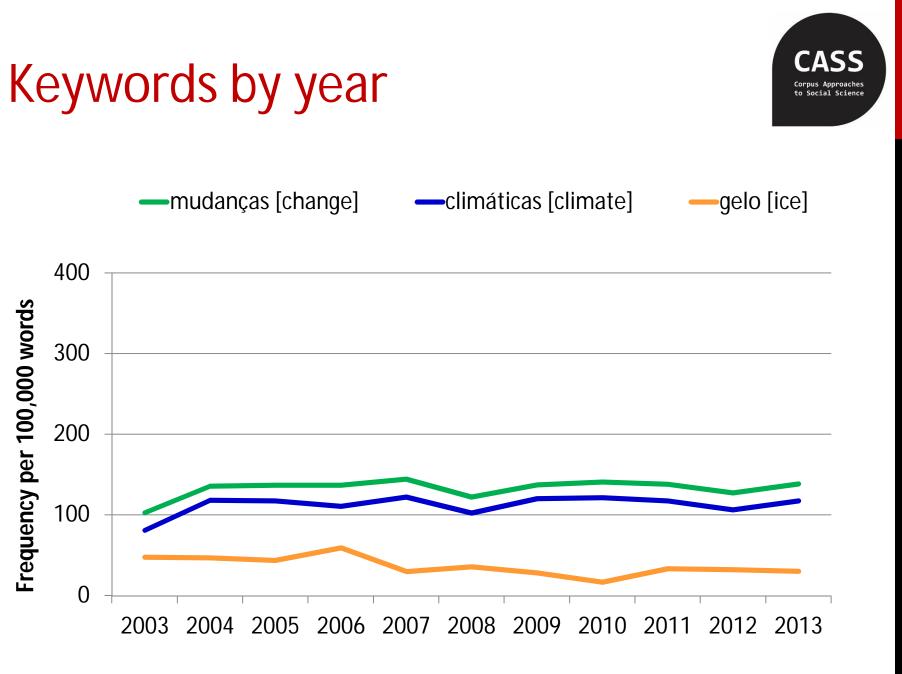


Starting point:

- Top 100 keywords
- Minimum Freq: 10 occurrences per 100,000 words









Preliminary Findings



Climate Change

Britain

- climate, change
- global, warming
- carbon, dioxide, CO2
- greenhouse, gas(es)
- emissions
- temperatures, rise, rising
- environment(al)
- Earth, planet, world

Brazil

- climática(s), mudança(s), clima
- aquecimento, global
- carbono, carbônico, CO2, dióxido
- gás, efeito, estufa, gasesestufa
- emissão(ões)
- temperatura(s)
- ambiental(ais)
- Terra, planet, mundo



Climate Change

Britain	Brazil
 climate, change global, warming carbon, dioxide, CO2 greenhouse, gas(es) emissions temperatures, rise, rising environment(al) Earth, planet, world 	 climática(s), mudança(s), clima aquecimento, global carbono, carbônico, CO2, dióxido, metano, poluentes [polluting] gás, efeito, estufa, gases- estufa emissão(ões) temperatura(s) ambiental(ais) Terra, planet, mundo



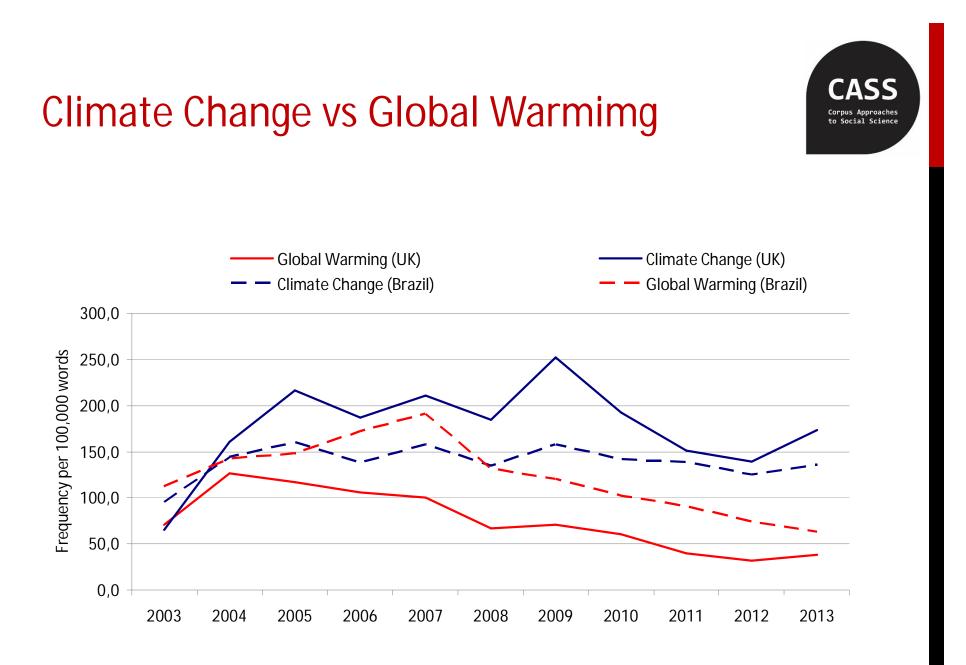
Climate Change

Britain

- Reduce, reduction
- Cut(s)
- Countries, nations
- government
- Leaders
- Kyoto, Protocol

Brazil

- Reduzir, redução
- Preservação, conservação
- Países
- Governos
- Chefes
- Kyoto, Protocolo
- Reunião [meeting]
- Acordo [agreement]



CCliC-Britain: Climate Change



- combating, mitigating, mitigate, manmade, combat, adapting, induced, mitigation, irreversible, tackling, posed, adapt, impacts, poses, addressing, avert, adaptation, and tackled.
- The world's best efforts at **combating climate change** are likely to offer no more than a 50-50 chance of keeping temperature rises below the threshold of disaster, (The Independent, 09 Mar 2009)
- The low priority given to **mitigating climate change** was criticised by environmentalists, who questioned the economic assumptions presented to the panel. (The Times, 31 May 2008)
- ... Brown admits that adapting to climate change will not be painless but insists it is both necessary and potentially beneficial, by creating jobs in green industries. (The Observer, 12 Jul 2009)

CCliC-Britain: Climate Change



- questions, denier(s), sceptic(s), denial, hoax, true and scepticism.
- A preliminary study of 6,000 logbooks has produced results that raise **questions** about **climate change** theories (The Sunday Times, 03/Aug/2008).
- Cuccinelli is a **climate change denier** whose campaigns are substantially funded by fossil fuel companies. (The Guardian, 6 Nov 2013)
- Panton is a **climate-change sceptic** and objects to my miserablist views about not taking Ryanair. (The Observer, 01 Jul 2007)
- Take issue after issue. The party's mainstream position is that climate change is a hoax and more carbon energy is harmless and indeed vital. (The Sunday Times, 26 Aug 2012)

Politicians



Britain

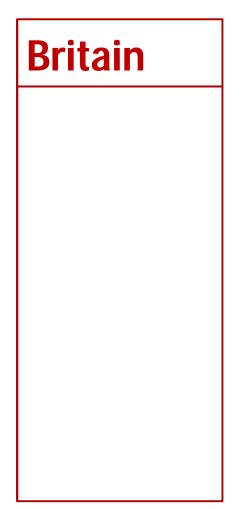
- Party, Labour, Tory, Tories
- Tony Blair, Cameron, Gordon Brown, Miliband, Salmond, Clegg, Osborne,
- Minister(s)
- coalition
- Said, say, says, spokesman

Brazil

- Lula/Dilma Rousseff
- Ministra
- Marina (Silva)
- (Carlos) Minc

UN Intergovernmental Panel on Climate Change (IPCC)





Brazil

- Nações, unidas, ONU
- Ipcc, intergovernamental, painel
- Relatório, convenção, conferência
- Buenos Aires, Montreal, Bali, Nairóbi, Durban, Dinamarca/Copenhague, Cancún, Doha, Varsóvia, Poznan
- COP-10, COP-15 (2009), COP-16 (2010)



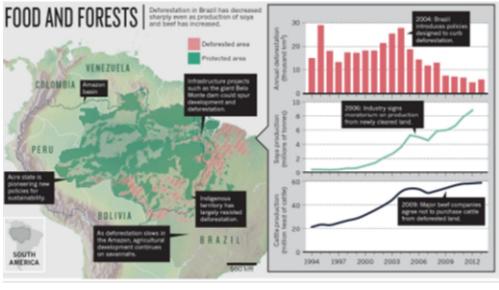
Deforestation and Agriculture

Britain	Brazil	
	 Amazônia [Amazon] Árvores [Trees] Desmatamento [Deforestation] Floresta(s) [Forest(s)] Áreas, km2 	
	 Agricultura [Agriculture] Alimentos [Food] produção [production] alimentos, agropecuária, grãos, milho, açúcar, cana, soja, carne 	

Brazil's GHGs emissions (IEA 2013)



• agriculture, land-use and deforestation



Source: Tollefson (2015)

- fossil fuel-based emissions are low by global standards
- heavy investment in hydropower and biofuels

CASS Corpus Approaches to Social Science

Energy

Britain

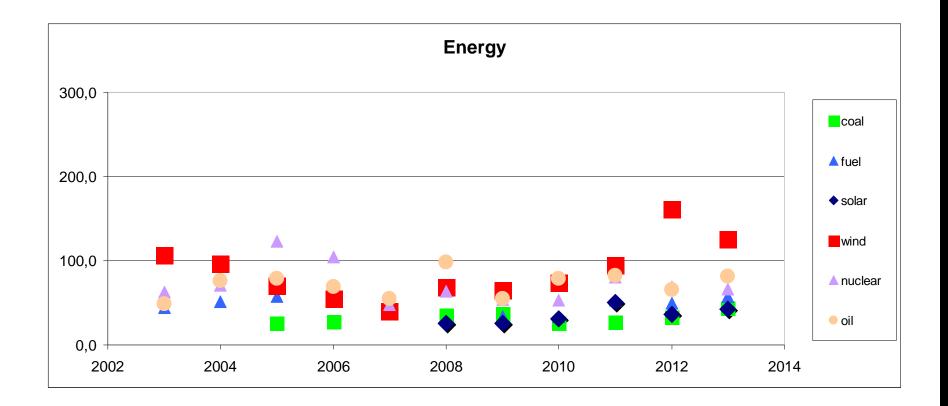
- Energy, power, electricity
- Green, renewable(s)
- Oil, fossil, fuel, coal, nuclear
- solar, wind
- Plants, farms, turbines

Brazil

- energia(s), eletricidade, geração, mw
- Verde, renovável(is), limpa
- Petróleo, fósseis, combustível(ies), carvão, nuclear(es)
- Solar, eólica, hidrelétricas, biomassa, biocombustível(is), etanol/álcool, cana, cana-deaçúcar, biodiesel
- usina(s), reatores



CCliC-Britain



Wind



- is why are these **wind turbine companies** being treated differently?
- senting Scottish wind farm companies and the SNP a
- eyond 2020 meant wind industry companies did not h
- overnment to the **wind** generating **companies** for hav
- have is **onshore wind**, which has problems of its o
- threat from huge **wind turbines** and electricity py
- largest offshore wind farms will be built in the T
- a major move into **offshore** wind manufacturing that
- ... have criticised wind power to speak at our Onshor
- anomaly arising from the ... system for wind energy.
- expensive and intermittent **offshore wind** sources represents a big gamble
- we need energy and **wind farms** but I cannot see the logic of this

Wind



- is why are these **wind turbine companies** being treated differently?
- senting Scottish wind farm companies and the SNP a
- eyond 2020 meant wind industry companies did not h
- overnment to the **wind** generating **companies** for hav
- have is **onshore wind**, which has **problems** of its o
- threat from huge wind turbines and electricity py
- largest offshore wind farms will be built in the T
- a major move into **offshore wind** manufacturing that
- ... have criticised wind power to speak at our Onshor
- **anomaly** arising from the ... system for wind energy.
- **expensive and intermittent offshore wind** sources represents a big **gamble**
- we need energy and wind farms but I cannot see the logic of this

CASS Corpus Approaches to Social Science

Energy

Britain

- Energy, power, electricity
- Green, renewable(s)
- Oil, fossil, fuel, coal, nuclear
- solar, wind
- Plants, farms, turbines

Brazil

- energia(s), eletricidade, geração, mw
- Verde, renovável(is), limpa
- Petróleo, fósseis, combustível(ies), carvão, nuclear(es)
- Solar, eólica, hidrelétricas, biomassa, biocombustível(is), etanol/álcool, cana, cana-deaçúcar, biodiesel
- usina(s), reatores

Transport Sector (IEA, 2013)



- Overall fuel combustion is low

 - ➢ 80% of cars are 'flex-fuel'
 - ➤ Gasoline with 20-25% ethanol

 carbon emissions per unit of fuel consumed:
 20% lower in Brazil in relation to the world average (2.3 versus 2.8 tCO₂ per toe) **Concluding Remarks**



- Catastrophism
 - Gradualism
 - Scepticism

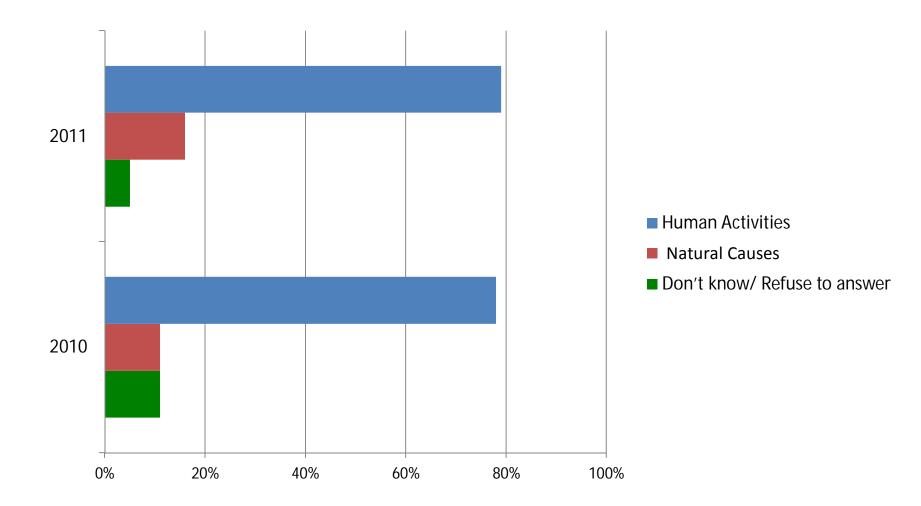
Brazilian mainstream media



- 'gradualist' discourse
- climate scepticism was almost non-existent
 - DAYRELL, C. and J. Urry (2015, *in press*) 'Mediating climate politics: The surprising case of Brazil'. *European Journal of Social Theory*, Special Issue on Climate Change, 3 (18): 1-17.

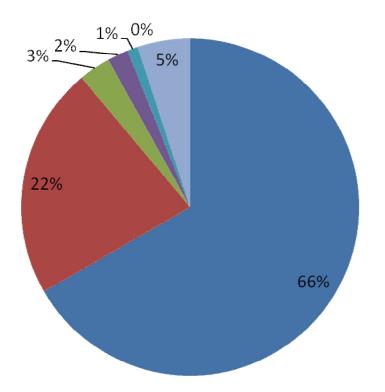
Human vs Natural Causes (CNI-IBOPE 2012)





Brazilians' opinion on how urgent the problem is (CNI-IBOPE 2012)

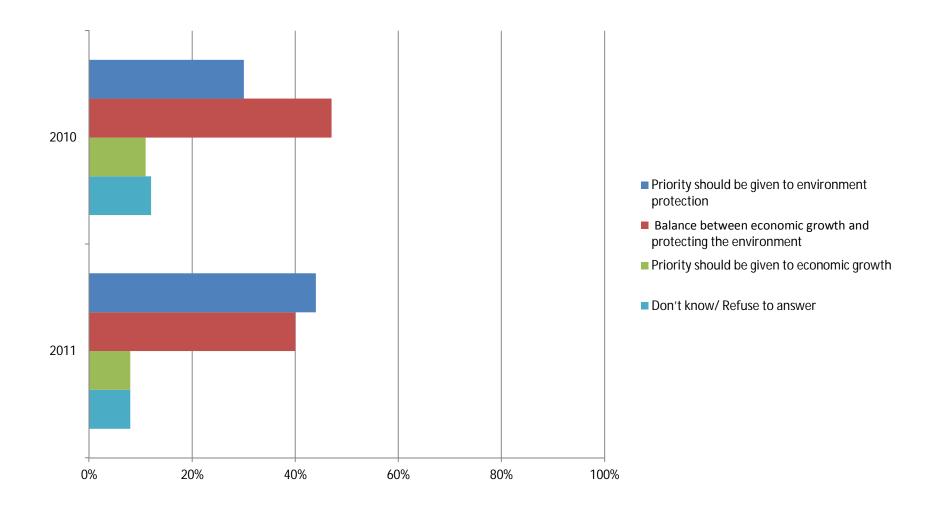




- Current problem that requires immediate actions
- Problem to occur in a near future but actions should be taken now
- Problem to occur in a near future but actions can wait
- Problem to occur in a distant future but actions should be taken now
- Problem to occur in a distant future but actions actions can wait
- Not a problem
- Don't know/ Refuse to answer

Environment vs Economic Growth (CNI-IBOPE 2012)









- Data analysis by newspapers
- Climate Change on German and Italian
 newspapers
 - CCIiC-Germany: ~40 million words
 - CCliC-Italy: ~10 million words