

Climate change – is it real?



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What does the science say?

IPPC 3rd Assessment
Report (2001)

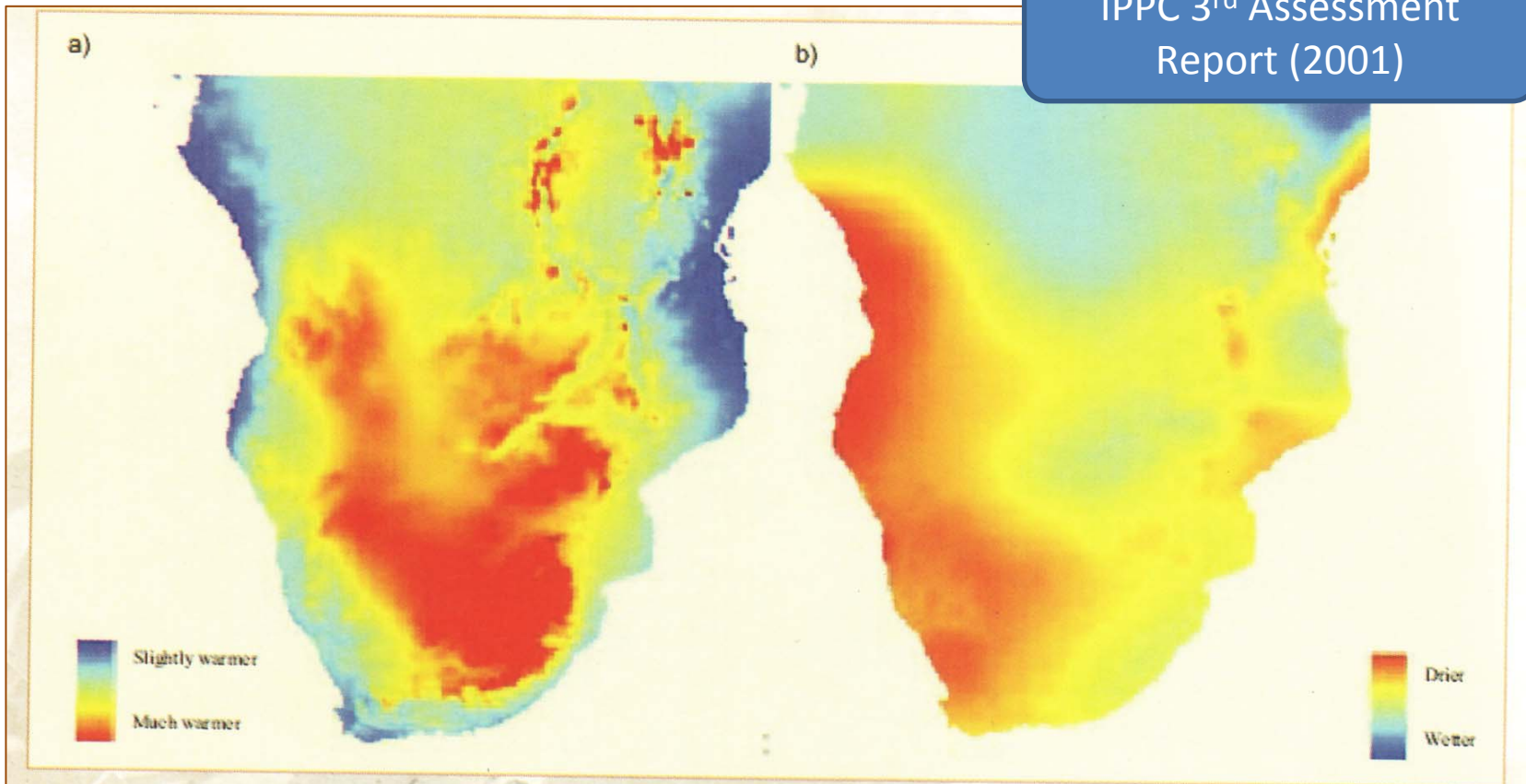
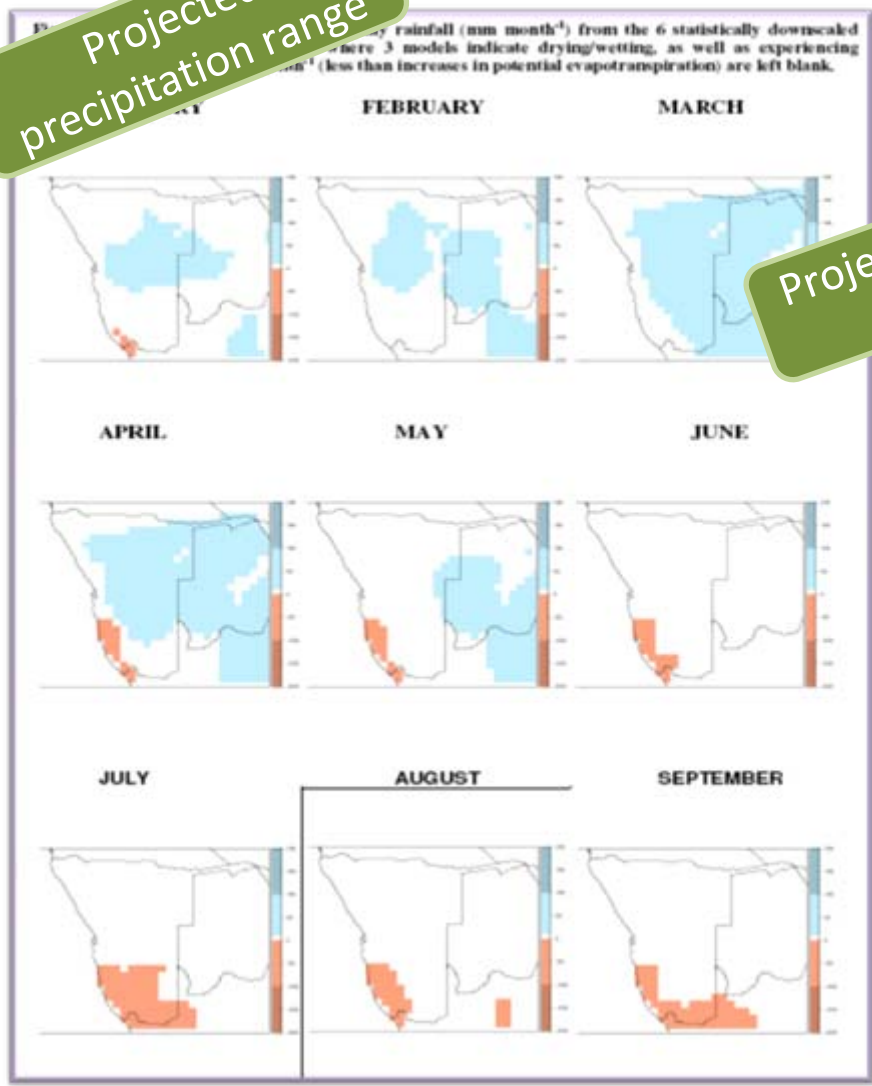


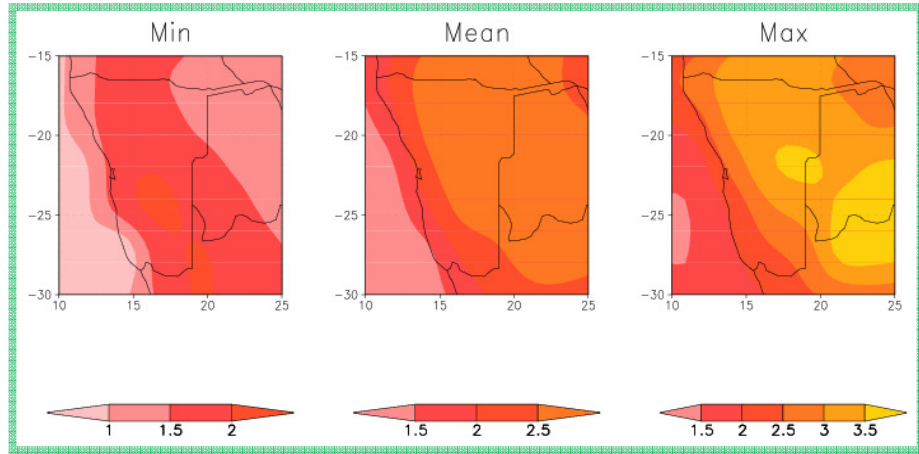
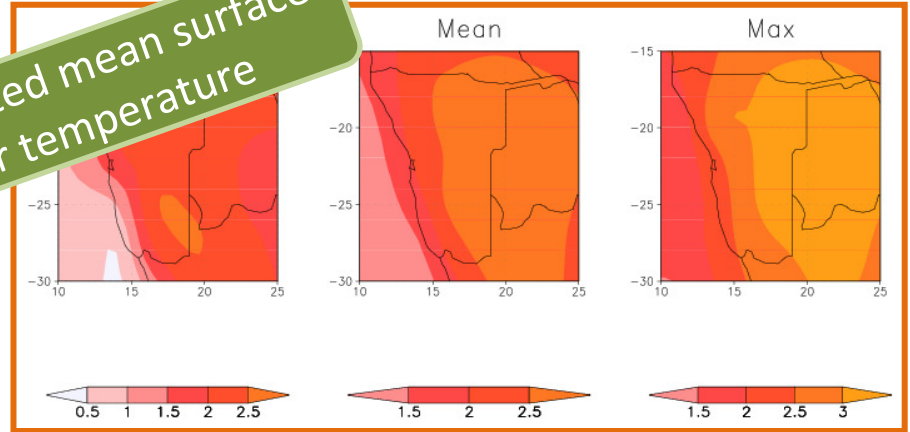
Figure B. HADCM3 climate model projections of changes in temperature (a) and precipitation (b) for 2050 relative to mean conditions over the 1961 to 1990 period, under the IPCC SRES A2 (high emissions) scenario. Source: Scholes & Biggs (2004), data interpolated by G. Hughes, National Botanical Institute, South Africa.

Namibia's Vulnerability & Adaptation Assessment (2008)

Projected precipitation range



Projected mean surface air temperature



Climate Change Vulnerability in Africa

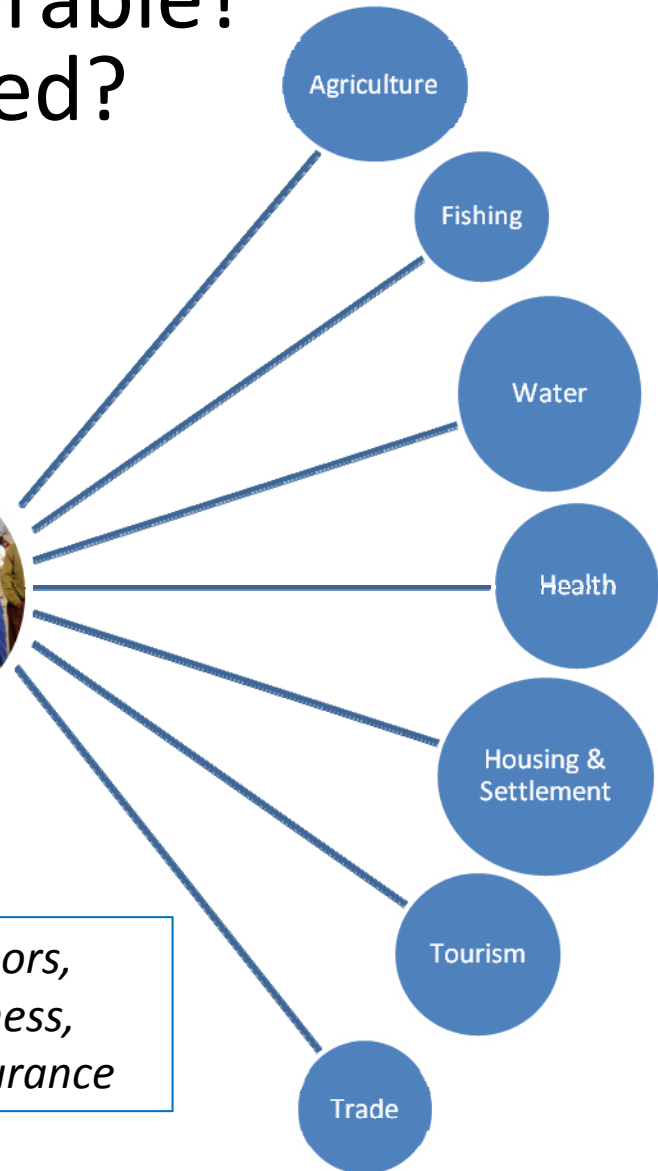


Which parts of Namibia's economy are potentially vulnerable? Who is affected?

Individuals, households, communities



NGOs, Donors, GRN, Business, Banks, Insurance



Key economic points I

Table 4. Possible Climate change effects on GDP per sector

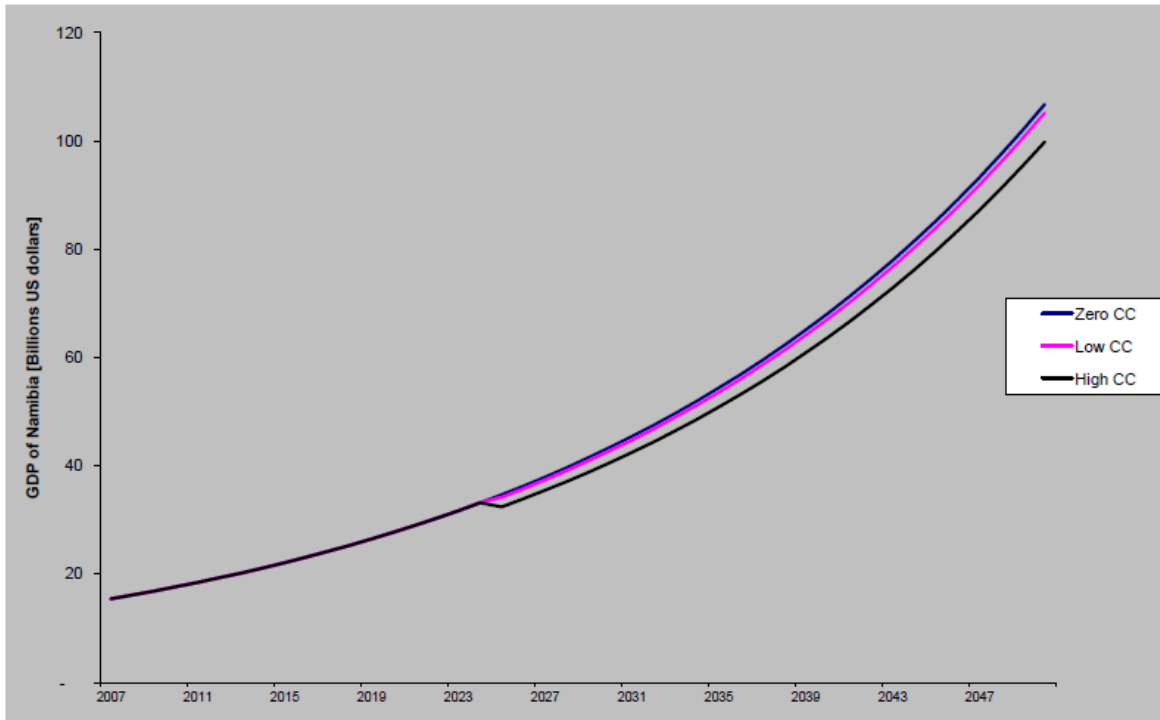
Values	Current contribution to GDP	Changes expected due to climate change	Affect on GDP, millions N\$ per year	Confidence in range of change
Use values				
- Cereal production	0,5%	<i>Decrease (10 - 20%)</i>	- 16 to - 32	<i>Low to Medium</i>
- Crop production	1,0%	<i>Decrease (10 - 20%)</i>	- 32 to - 65	<i>Low to Medium</i>
- Livestock production	4,0%	<i>Decrease (20 - 50%)</i>	- 264 to - 660	<i>Medium</i>
- Traditional agriculture	1,5%	<i>Decrease (40 - 80%)</i>	- 197 to - 395	<i>Medium to high</i>
- Fishing	6,0%	<i>Increase (30%)/decrease (50 %)</i>	0 to - 990	<i>Low</i>
- Tourism	2-3%	<i>Increase/Decrease</i>	-	<i>Low</i>
- Forests	+ *	<i>Unchanged</i>	0	<i>Low</i>
Non-use value	+ *	<i>Decrease</i>	-	<i>Low</i>
Total value			- 509 to - 2 142	

* not included in the traditional national accounts

Source Reid et al, 2007

Key economic points II

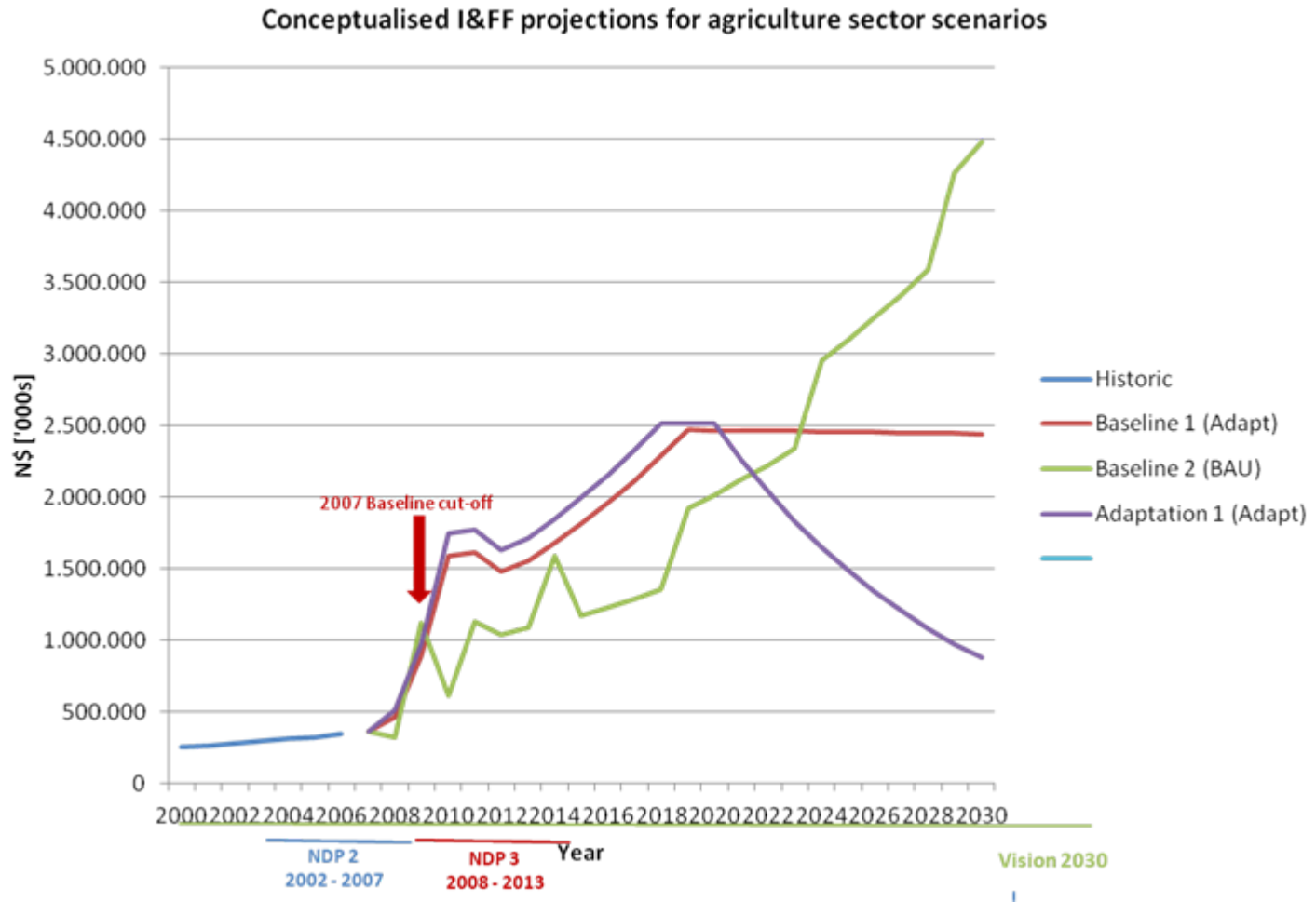
Projected Namibian GDP under three climate change impact scenarios, 2007-2050:



Reid et al, 2007



- Overall it is suggested that over 20 years, annual losses to the Namibian economy could be up to 6% of the GDP, from CC impacts on natural resources (NRs) alone.

Cost of action vs non-action



But is it real?

The cost of action vs inaction

	Adaptation action	No action
CC is false/ not real	<ul style="list-style-type: none">•Investments•Improved governance•Knowledge•Resilience•Economic costs	<ul style="list-style-type: none">•Business as usual•“normal” environmental and economic pathways 
CC is real	<ul style="list-style-type: none">•Economic costs•Benefits from investment•Potential for overall improved governance systems 	<ul style="list-style-type: none">•Disasters•High economic cost•Many people highly vulnerable•Larger disparity

The Bottom-line

Real or not – taking adaptive action is the only sustainable option!

Some possible macro-level adaptation options

Some of the required measures for strengthening adaptation include:

- **Ensuring access to high-quality information about the impacts of climate change and carrying out vulnerability assessments.** Early warning systems and information distribution systems help to anticipate and prevent disasters.
- **Increasing the resilience of livelihoods and infrastructure** using existing knowledge and coping strategies.
- **Improving governance**, including a transparent and accountable policy and decision-making process and an active civil society.
- **Empowering communities** so that they participate in assessments and feed their knowledge into the process at crucial points.
- **Integrating climate change impacts** in issues in all national, sub-national and sectoral planning processes and macro-economic projections. The national budget process is key here.
- **Encouraging a core ministry** with a broad mandate, such as finance, economics or planning, to be fully involved in mainstreaming adaptation.

Source: Adapted from Sperling (2003) in Stern Review: The Economics of Climate Change (2006)

What is already ongoing in Namibia?

- Ministry of Environment & Tourism (MET): Namibian designated lead institution
- Multi-stakeholder National Climate Change Committee (NCCC)
- Africa Adaptation Programme (AAP): set foundation for national adaptation approach
- Special investments into piloting community-based adaptation (CBA)

The image displays two overlapping web browser screenshots. The top screenshot shows the MET Namibia website, which features the Namibian coat of arms and navigation menus for 'Home', 'Circulares', 'News and Media', 'Protected Areas', 'Tenders', 'Policies and Legislation', 'Environmental Management', 'FAQs', and 'Quick Links'. A 'MET SERVICES' section is visible, along with a search bar. The bottom screenshot shows the Africa Adaptation Programme website, which includes a header with logos for UN, UNICEF, UNDP, UNFPA, and WFP. The main content area features a 'AAP Website Relaunch' announcement, a 'Resource Directory' with icons for News articles, Publications, and Videos, and a 'Work Areas' section with icons for Analysis & Information, Capacity Building, and Finance. A 'News' section is also present with a headline about 'Sharing the skills of climate reporting'.

Let us discuss what YOU can do!



Thank you!

IECN - Namibia




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- Please visit our sponsored project



English



Headline News

22.11.2011
What impact did Nacoma's communication strategy have?
A team of IECN staff are currently travelling the four coastal regions to hear from people in the street and office holders what impact the Nacoma project had on their knowledge and understanding of coastal zone management.
▶ More

15.11.2011

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