







Melbourne, 6 <sup>th</sup> March 2010	Perth, 22 <sup>nd</sup> March 2010
<ul> <li>Grapefruit size hail</li> </ul>	Tennis ball size hail
<ul> <li>Wind gusts of more than 100km/h</li> </ul>	<ul> <li>Wind gusts of more than 120km/h</li> </ul>
<ul> <li>45mm of rain in 30min</li> </ul>	<ul> <li>63mm of rain in 2h</li> </ul>
<ul> <li>Over 6000 requests for assistance</li> </ul>	<ul> <li>Over 3000 requests for assistance</li> </ul>
<ul> <li>AUD 1,044m; 130,000 claims</li> </ul>	<ul> <li>AUD 1,053m; 150,000 claims</li> </ul>
<ul> <li>Com/Motor/Home 10%/45%/45% (MR estimates)</li> </ul>	<ul> <li>Com/Motor/Home 5%/55%/40% (MR estimates)</li> </ul>
What do we know about Hail?	
<ul> <li>Very few studies globally as to how hail risk will change</li> </ul>	
<ul> <li>Sydney study: increase in frequency &amp; intensity of hailstorms</li> </ul>	
<ul> <li>Australian wide study: similar increase in hail frequency along the eastern seaboard</li> </ul>	
<ul> <li>Little work has been done to quantify the relation of hailstorms and ENSO</li> </ul>	
· Comprehensive and detailed analysis of past and future hailstorms is crucial in order to improve risk	
management strategies	

With 9 out of the largest 24 losses in Australia, Hail presents the most underestimated peril!

34.5m Climate Change projections:

175m

1998 m (incl.mining)

77% of initial cl

65% of initial d

517.5m (TC Larry 540m)

67m

Dec/Jan Qld floods

Jan Vic floods

Feb Qld TC Yasi

Vic severe st. Melbourne and suburbs Feb Bushfires Perth and surroundings

Rural Toowo Brisba

Feb

more fires and droughts are expected in some regions
extreme daily rainfall may become more intense & frequent, higher risk of resultant flooding

43,755

5,590

30,600

24.802

410

Geographical spread of claims

State government

(damage to road infrastructure

about half of that)

estimate AUD 5.8bn







## iocc United Nation's on, and Vulnerability ipcc 10 Intergovernmental Panel on Climate Change www.ipcc.ch The IPCC is an intergovernmental body. It is open to all member countries of the My involvement: Lead Author , WG2, Chapter 25 'Australasia' United Nations (UN) and WMO. The IPCC WGII AR5 "New" connotes an expert not engaged in the AR4 or the IPCC Special Report currently being prepared by Working Group II (i.e., SREX). · Currently 194 countries are members of the IPCC. Governments participate in the Summary Statistics review process and the plenary Sessions, where main decisions about the IPCC Total Number of Confirmed Writing Team Members: 310 work programme are taken and reports are accepted, adopted and approved. "Young" connotes an individual who obtained highest degree in 2001 or later Total Number of Nationalities Represented on Writing Teams: 73 · For AR5 a unique team of 831 climate change experts across all working groups Developing Country and Economy-in-Transition Writing Team Members: 127 (41%) will volunteer their time over the next four years. Female Writing Team Members: 83 (27%) · The aim of the report is to genuinely synthesise and assess the current state of Writing Team Members New to the IPCC Process: 187 (60%) knowledge in a product of unparalleled influence. Young Scientists Engaged in the Process: 71 (23%) Oct 2014 Sep 201 Mar 2014 Apr 20 · End 2011: special report "Managing the risks of extreme events and disaster to advance climate change adaptation". ng Group II Icts, Adaptation, and Vulnerability Munich RE 🗐 Conclusions idcc (1) ( Natural catastrophes and insured losses rising - but definitely an insurable risk! a she v.ipcc.ch Outline of the Working Group II Contribution to the IPCC Fifth · Natural catastrophes, especially weather related events, are increasing dramatically in Assessment Report number and magnitude, both globally and in Australia. Summary for Policymakers Technical Summary · There is more and more scientific evidence for causal links between global warming and increasing frequencies and intensities of natural catastrophes. PART A: GLOBAL AND SECTORAL ASPECTS at for the ARS · For Australia/Oceania the Southern Oscillation Index shows a correlation with loss Ch. 1 — Point of departure Ch. 2 — Foundations for dec Ch. 11 Ch. 12 Ch. 13 frequency and severity. Natural and Managed Resources and Syste Their Uses · We have to mitigate global warming and adapt to the changing risks in respect to the heir Uses Ch. 3 — Freshwater resources Ch. 4 — Terrestrial and inland water systems Ch. 5 — Coastal systems and low /vine areas Ch. 6 — Ocean systems Ch. 7 — Food production systems and food secu regionally specific risk patterns. · Mitigation and adaptation measures open up great economic chances for companies and an Settlements, Industry, and Infrastructure countries being on the forefront in these processes. Ch. 8 — Urban Areas Ch. 9 — Rural Areas Ch. 10 — Key economic sectors and services Natural catastrophes are still insurable. However we have to adapt our risk assessment, our PART B: REGIONAL ASPECTS Ch. 21 — Regional conte Regional Chapters modeling, our rates, our risk selection and accumulation control continuously. · With our long experience we have created a unique expertise on natural catastrophe risks in Ch. 22 — Africa Ch. 23 — Europe Ch. 24 — Asia Ch. 25 — Austral the changing world and are happy to share this within our industry, with government authorities and the UNFCCC- community. Munich RE 🗐 Thank you for your attention! sschuster@munichre.com Dr. Sandra Schuster

