



Retro and Retakaful

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Agenda



- Setting the Scene
- Retrocession Market Risk & Catastrophe Losses Update
- Reinsurance and Retakaful Market Capitalisation
- Peak Exposure Solutions
- Recent Natural Catastrophe losses and lessons learned





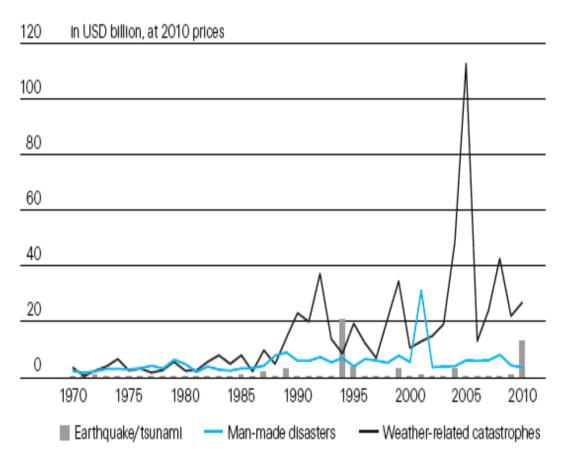
- Retrocession the provision of Retakaful to professional Retakaful providers
- Retakaful market is expanding, over 15 International Retakaful operators or 'windows' throughout Asia, the Middle East and North Africa
- Who provides the retrocession cover Retakaful operators can cover each other or utilse conventional capacity? Darura applies
- Potential spiral effect?
- Long-term aim; an integrated Takaful chain participant to Takaful operator to Retakaful operator to Retakaful retrocessionaire.
- All of required standard line Treaty capacity can be provided by the Retakaful market. The Retakaful Operator must rely on the conventional retrocession market as a matter of necessity



Retrocession Market Risk & Catastrophe Losses Update

Insured Catastrophe losses 1970 - 2010

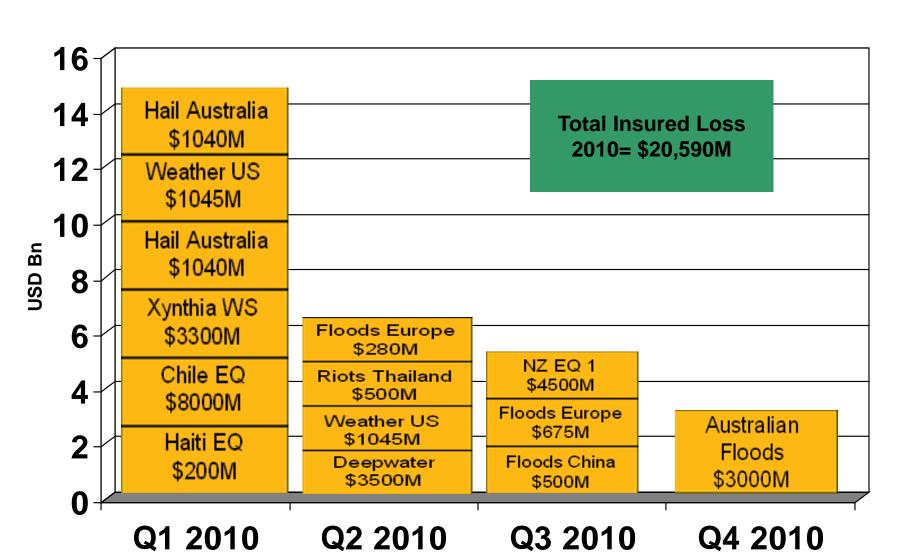




- Total economic loss estimated at approx USD 218bn
- Economic losses highest in Asia where floods caused damages of USD 75bn
- EQ's of Chile and Haiti caused losses of over USD 53bn for Latin America
- Economic losses from manmade disasters more than USD 24bn, most of which can be attributed to Deepwater Horizon.

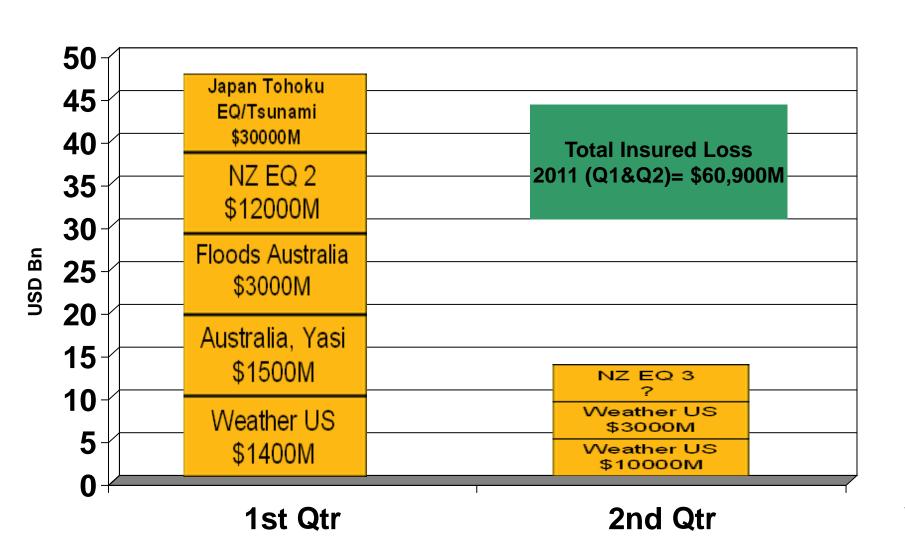
2010 Significant Insured Losses





2011 Significant Insured Losses



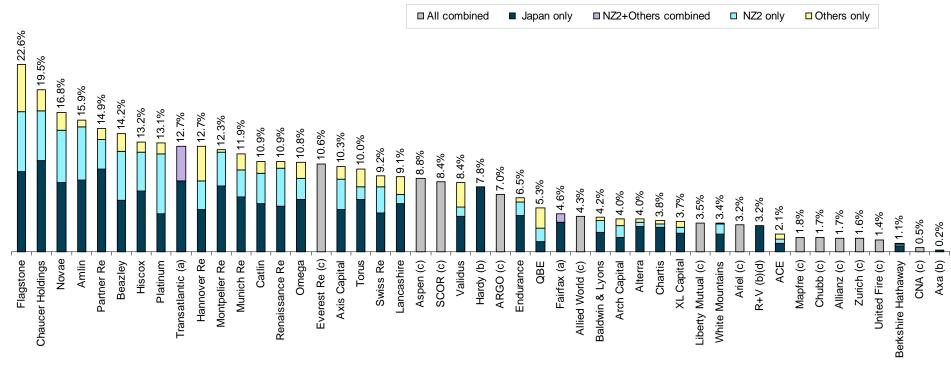


Q1 2011 International Cat losses as a % of Shareholders Funds



MANAGING EXTREMES





(a): NZ2 and others combined

(b): Japan only

(c): All combined

(d): R+V, Shareholders Funds are as at Dec 31, 2009.

Figures (as of May 13, 2011)

Conclusion

- Soft markets likely to be the norm going forward unless there is another financial crisis reducing investment flow from capital markets
- Current levels of overcapitalisation may be reduced by losses or poor investment returns but currently difficult to foresee capital starvation
- Market players have to adjust to the new reality that significant underwriting returns will only be available on localised basis for short durations
- Whilst underwriting excellence remains key more sustainable competitive advantages need to be developed through operational excellence and reduction cost to access risk and own costs



Significant purchase requirements - Peak territory exposures

Significant purchase for peak territories

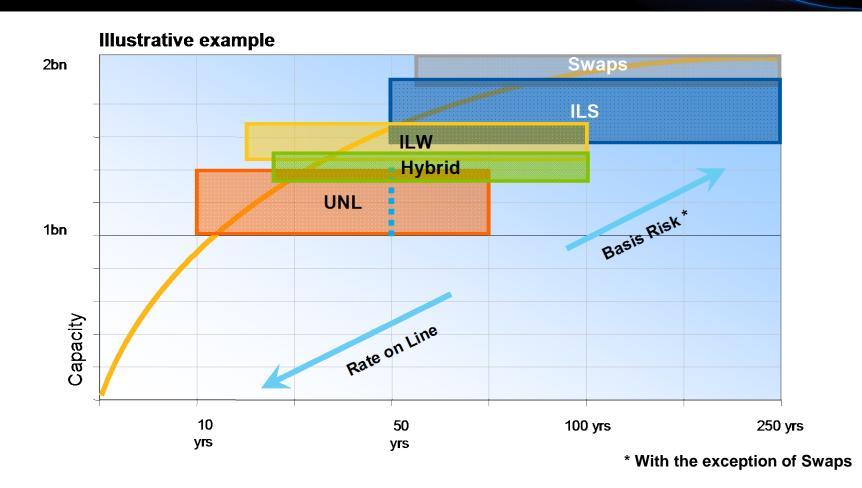


- Ultimate Net Loss Solutions
- Hybrid Solutions
- Industry Loss Warranty Solutions
- Insurance Linked Securities Solutions
- Catastrophe Swaps

How can these be blended to support a buyer with substantial capacity requirements?

Blended Purchase to achieve \$1bn of Capacity Incorporating Peak Exposures Willis Re







Recent Natural Catastrophe Losses

Lessons to be learnt

Summary of key recent events Chile - 2010

Chile Earthquake

Description

- Earthquake of MW 8.8 resulted in insured loss of approximately USD8 billion
- Buildings contributed vast majority of claims with only a minority of policies covering contents
- •Insurers bought adequate reinsurance (estimated minimum 90% of loss) so there have been no insolvencies or coverage issues

- So called 'Cold Spot' territories can produce substantial claims
- Availability of qualified loss adjusters in a post loss environment crucial
- Reinsurers demanded payback risk adjusted rates up by 40% 70%

Summary of recent events - New Zealand 2010 and 2011



Earthquake 2010

Description

- Strong (Mw 7.0) earthquake from an unknown fault followed by more than 90 after shocks of Mw 5 or more
- Significant losses from unmodelled elements e.g. roofs
- Some reinsurers temporarily ceased writing NZ quake
- Loss to EQC is estimated to be less than NZ\$3.5 billion, within reinsurance limit

- Very large losses from unmodelled elements including landslide and liquifaction. The mainly timber-framed residential buildings stood up well to the ground shaking
- Post loss price shock

Summary of recent events -New Zealand 2011



Earthquake 2011

Description

- Weaker (Mw6.1) but shallower and closer to Christchurch centre
- •Reinsurers demanded significant rate rises at renewal. However, impact is staggered due to rolling 3 year tranches of cover
- •Some of EQC's fund is invested in government bonds, so if assets are liquidated the NZ government will have to find the money
- Talk of imposing a temporary levy to re-fill the RQC

- Clarity of Event definition being challanged
- Historic masonry buildings performed badly whereas modern residential buildings less damaged
- Extent of unmodelled losses such as liquifaction unanticipated
- Modelling unable to capture unmodelled fault location data accurately

Summary of recent events - Japan Earthquake 2011



Tohoku Earthquake and Tsunami

Description

- Largest recorded earthquake (Mw 9.0) struck northern Japan epicentre 130 km offshore east of Sendai
- Generated a Tsunami which propagated across most of Pacific basin
- Damage from earthquake and tsunami extensive and severe.
 4,500 buildings destroyed and 46,000 buildings damaged (FDMA)

- Extent of losses from unmodelled tsunami
- Licensed vendor models unable to provide modelled assessment for magnitude 9.0 loss
- Impact on infrastructure unexpected and has prevented speedy claims settlement

Summary of recent events

- Australian Floods and Cyclone 2010 and 2011



Queensland, New South Wales and Victoria

Description

- Reinsurers seeking payback as Australia has been hit by a number of events including bushfire, hailstorm and floods in recent years
- Losses forecast to take a long time to finalise
- Levy introduced by Australian government on those earning more than AUD 50 k per annum and not affected by the flood. Anticipated to raise AUD 1.8 billion

- Raised queries regarding event definition
 - was Yasi a part of same event as flooding?
 - difficulty in defining flood events. Distribution of claims across different events with different high water levels Flood insurance not standard across domestic policies
- QLD public infrastructure uninsured

Capital Raised to date Post Tohoku Earthquake – Mar 2011



<u>Sidecars</u>	Capital raised	Company Contribution
Alterra	200	100
Lancashire	250	50
Validus	180	50
New Capital		
Montpelier	150	
Endurance	230	
DaVinci	100	
Partner Re	325	
<u>Total</u>	<u>1,435</u>	<u>200</u>
Total Net	<u>1,235</u>	

Summary of recent events Conclusion



- Market capitalisation is adequate to cope with the frequency of large claims recently encountered
- The reinsurance market is likely to remain comparatively soft as a consequence
- There is adequate capacity for foreseeable requirements – UNL, Hybrid, Industry Loss Warranty, Insurance Linked Securities, Cat
- Anticipate the unexpected!