

News Release

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Guy Carpenter Asia-Pacific Climate Impact Centre Publishes Second Annual Report on Region's Climate

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Guy Carpenter Asia-Pacific Climate Impact Centre (GCACIC), a joint initiative of Guy Carpenter & Company, LLC and City University of Hong Kong, today released its second annual report, which presents findings from 19 research projects that were conducted by GCACIC members on climate issues in the Asia-Pacific region in 2010.

Available at www.gccapitalideas.com, *Guy Carpenter Asia-Pacific Climate Impact Centre Annual Report 2010* covers a wide range of climate-related events and phenomena affecting Asia Pacific, including:

- **Tropical Cyclones** – tropical cyclone variability and predictions for the coasts of South China, Japan and Korea, as well as the North Indian Ocean and Southern Hemisphere.
- **Monsoons** – various factors correlating to summer and winter monsoons, the different impact of El Niño and El Niño Modoki on China's rainfall and El Niño and El Niño Modoki's impact on the Western North Pacific summer monsoon.
- **Monsoon-Typhoon Interaction** – the asymmetric modulation of the Western North Pacific Cyclogenesis by the Madden-Julian Oscillation under ENSO (El Niño/Southern Oscillation) conditions, the seasonality of super typhoon activities in the Western North Pacific and high-resolution model simulations of ENSO Modoki's impact on Western North Pacific monsoon and tropical cyclone activity.
- **Diurnal Variations** – semi-diurnal variations in rainfall over Southeast China and seasonal variation of diurnal and semi-diurnal variations in rainfall over the same region.
- **General Climate** – a planetary-scale land-sea breeze over the East Asian continent, discrepancy among different reanalyses, drought regions, heat waves, the climatic impact of modern volcanic eruptions and the correlation between global warming and local climate changes in China.
- **Air Quality and Climate** – the source and patterns of nitrogen oxide pollutants for air quality predictions; the probability of dust events in Hong Kong caused by transported desert dust

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and their impact on local air quality and the correlation between global warming and air pollution levels.

- **Air-Sea Interaction** –the teleconnected influence of North Atlantic Sea surface temperature on the onset of El Niño as well as the interannual variability of upper ocean heat content in the South China Sea and its response to ENSO events.
- **Paleoclimate** – analyzing aspects of environmental change in the Pearl River mouth region as part of a long-term project on the reconstruction of environmental change over the past half million years.

QUOTES

Professor Johnny Chan, Director, Guy Carpenter Asia-Pacific Climate Impact Centre

“Through the ongoing research initiatives of GCACIC, we can focus on the critical study of climate-related phenomena in the Asia-Pacific region. This, in turn, will lead to the further development of prediction tools that can provide a better assessment of the possible climate impacts of these phenomena.”

David Lightfoot, Head of GC AnalyticsSM – International, Guy Carpenter & Company

“The Asia-Pacific region is vulnerable to a variety of climate-related perils, from tropical cyclones to summer and winter monsoons. GCACIC's dedicated work in this area helps the insurance industry gain a better understanding of how to best prepare for and manage these catastrophic risks.”

TAGS/KEYWORDS

Guy Carpenter, GCACIC, City University of Hong Kong, climate, tropical cyclone, monsoon, typhoon, diurnal variation, air quality, paleoclimate, El Niño, ENSO, Western North Pacific, Chan, Lightfoot

About Guy Carpenter Asia-Pacific Climate Impact Centre

The Guy Carpenter Asia-Pacific Climate Impact Centre (www.cityu.edu.hk/gcacic) was established in June 2008 with City University of Hong Kong. The Centre integrates academic and industry research to advance the understanding of climate-related perils and catastrophic risks across the Asia-Pacific region.

About Guy Carpenter

Guy Carpenter & Company, LLC is the world's leading risk and reinsurance specialist and a member of Marsh & McLennan Companies. With over 50 offices worldwide, Guy Carpenter creates and executes reinsurance solutions and delivers capital market solutions* for clients across the globe. The firm's full breadth of services includes line of business expertise in Agriculture; Aviation; Casualty Clash; Construction and Engineering; Excess and Umbrella; Life, Accident and Health; Marine and Energy; Medical Professional Liability; Political Risk and Trade Credit; Professional Liability; Property; Retrocessional Reinsurance; Surety; Terrorism and Workers Compensation. GCFac® is Guy Carpenter's dedicated global facultative reinsurance unit that provides placement strategies, timely market access and centralized management of facultative reinsurance solutions. In addition, GC AnalyticsSM utilizes industry-leading quantitative skills and modeling tools that optimize the reinsurance decision-making process and help make the firm's clients more successful. Guy Carpenter's website address is www.guycarp.com.

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