



Peak Re partners with the Shanghai Typhoon Institute (STI) to present the second tropical cyclone activity over the western North Pacific (WNP) basin and South China Sea (SCS) in 2017

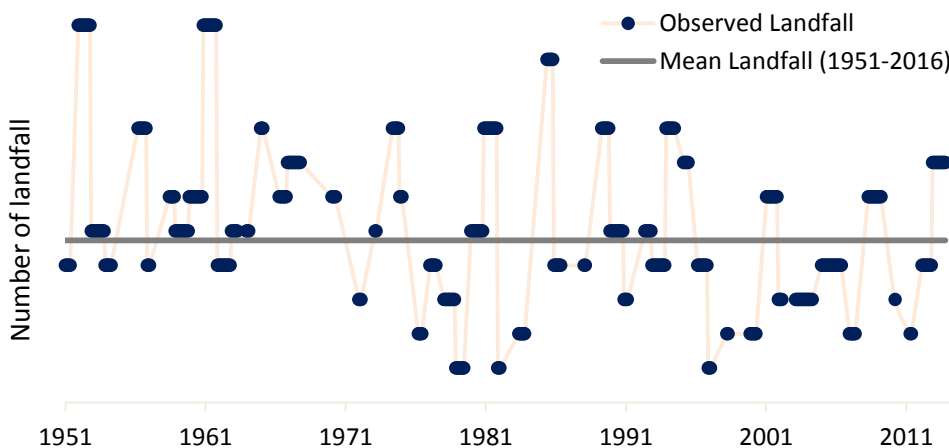
### Forecast summary

- 23 – 25 Tropical storms (TS) are forecast to form over the western North Pacific Ocean and South China Sea
- 12 – 13 Tropical cyclones (TC) are expected to significantly impact China
  - 7 – 9 to significantly affect **south China**
  - 6 – 7 to significantly affect **east China**
  - 7 – 9 to landfall **over China**

This report forecasts a normal activity season for 2017. Genesis, total landfalls over China, and TC impacting south China are expected to be within normal range. A below normal activity for TC impacting eastern China is expected.

Sea surface temperature (SST) of eastern tropical Pacific Ocean started to turn from cold to warm since last winter. The warm anomaly reaches the inflection point at early March. The entire tropical Pacific kept at ENSO neutral status afterward and the SST gradient between eastern and western Pacific became smaller. Hence the 2017 TC activity forecast remains normal – within long term average.

### Number of TC landfall time series during ENSO neutral years only



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### Tropical cyclone scales

CMA tropical cyclone scale	Beaufort scale	Saffir-Simpson scale	Wind speed
Super TY	scale 16 or above	CAT 4 – CAT 5	≥ 51.0 m/s
Strong TY (STY)	scale 14-15	CAT 2 – CAT 3	41.5 – 50.9 m/s
Typhoon (TY)	scale 12-13	CAT 1	32.7 – 41.4 m/s
Strong tropical storm (STS)	scale 10-11	Tropical storm	24.5 – 32.6 m/s
Tropical storm (TS)	scale 8-9	Tropical storm	17.2 – 24.4 m/s,
Tropical depression (TD)	scale 6-7	Tropical depression	10.8 – 17.1 m/s

### Definition of terms

- **TC landfall** – Tropical cyclones with minimal tropical storm strength when making landfall in China
- **Significantly affect** – Within one of the three conditions
  - Aggregate precipitation in the given area of over 50mm
  - Average wind of scale 7 (or gust\* over scale 8) in given area
  - Aggregate precipitation of over 30mm and an average wind over scale 6 (or gust\* over scale 7) in given area
- **South China** – Guangdong, Guangxi, Hainan
- **East China** – Fujian, Jiangxi, Zhejiang, Anhui, Shanghai, Jiangsu, Shandong
- **Tropical cyclone scale** – Details in GB/T 19201–2006
- **Wind speed** – Average maximum wind speed within 2 minutes near the eye wall of the tropical cyclone

*\*Gust wind speed is approximately 1.2-1.5 times of MAWS depends on the TC location and meteorological conditions (WMO)*

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#### About Peak Re

Peak Re is headquartered in Hong Kong with shareholder funds of US\$909.0 million as of 30th June 2017. It is authorised by the Office of the Commissioner of Insurance (took over by Insurance Authority from 26th June 2017) and is rated “A-” by A.M. Best, a leading international insurance industry credit rating agency. The Company is backed by Fosun International Limited (HK.656) and International Finance Corporation, a member of the World Bank Group, which have respectively invested 86.93% and 13.07% in the Company. Peak Re offers reinsurance services covering a range of lines across Asia Pacific, EMEA and the Americas, tailor-making risk transfer and capital management solutions to best fit clients’ needs.

#### About Shanghai Typhoon Institute (STI)

STI is a state-level institution founded with the approval of the Ministry of Science and Technology, the Ministry of Finance and the State Commission Office for Public Sector Reform of People’s Republic of China. Its mission is to undertake basic and applied research related to tropical cyclones.

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