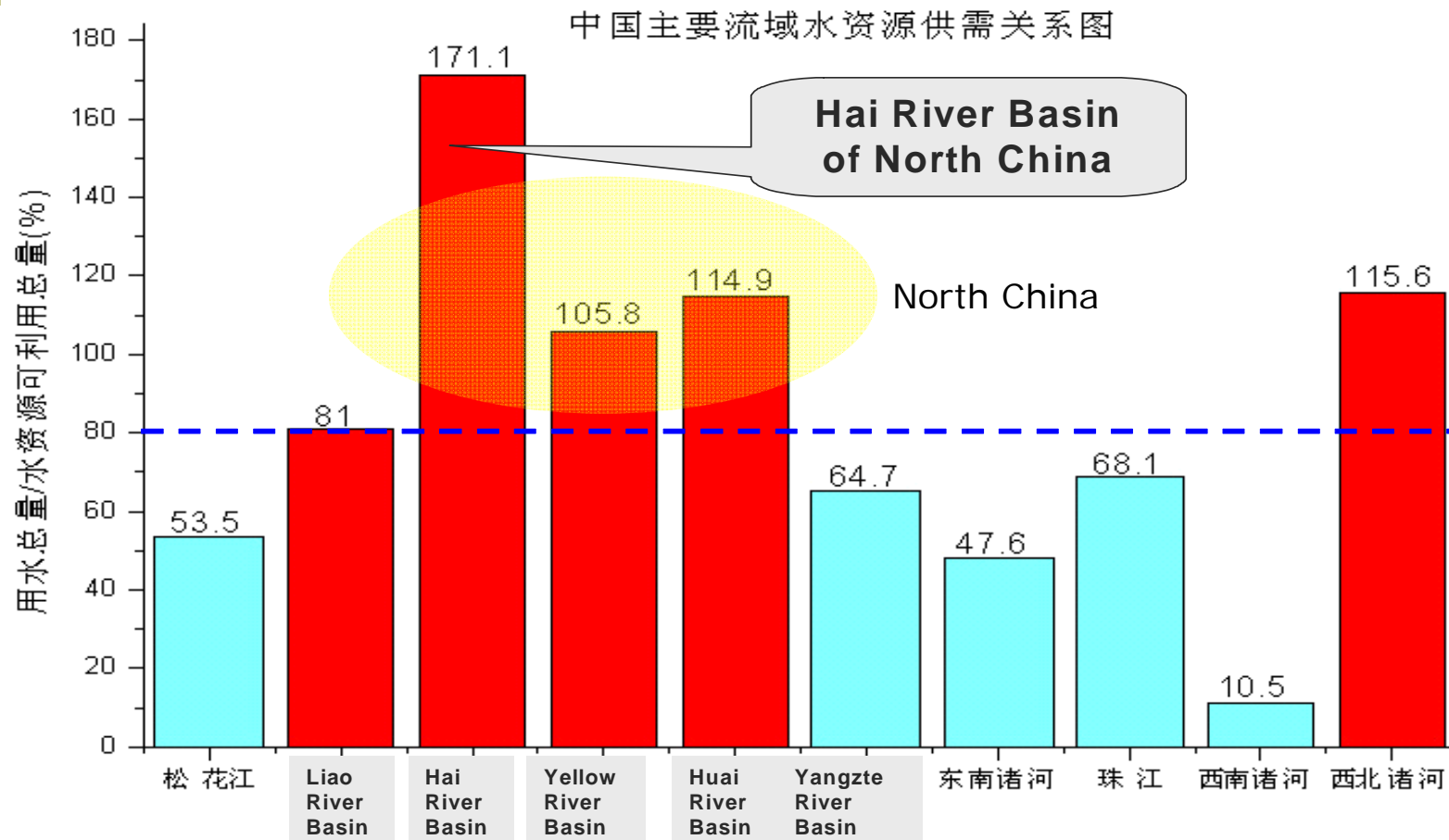
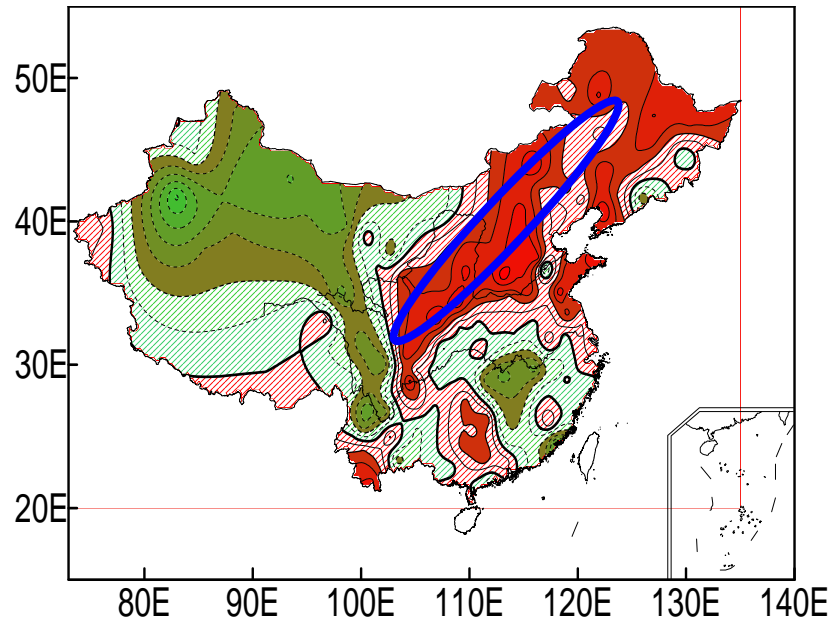


Water scarcity in China

Total water use / usable water resources in China

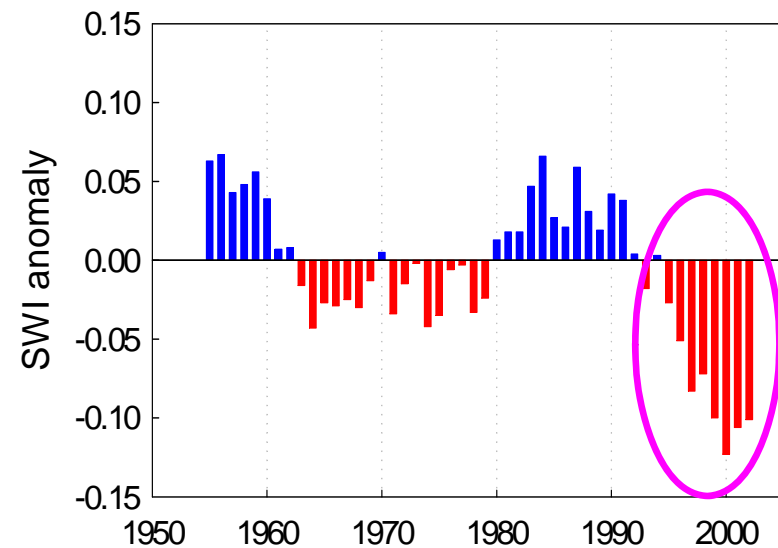


The Trend of Extreme Drought Frequency in China from 1951 to 2006



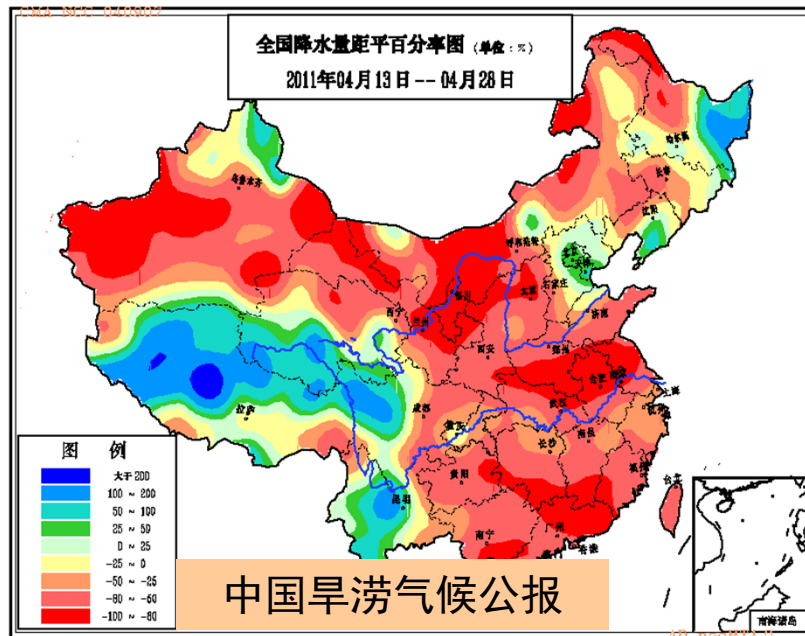
The red diagonal area is the increasing trend of extreme drought, the green diagonal area means a decreasing trend of extreme drought. (Left Figure)

Trend of surface Wet index Variation in Northeast China (Right Figure)



An increasing trend is detected in northeast China.

2011's Extremely Droughts during spring in southern China, late flood disaster



Precipitation change on April in China

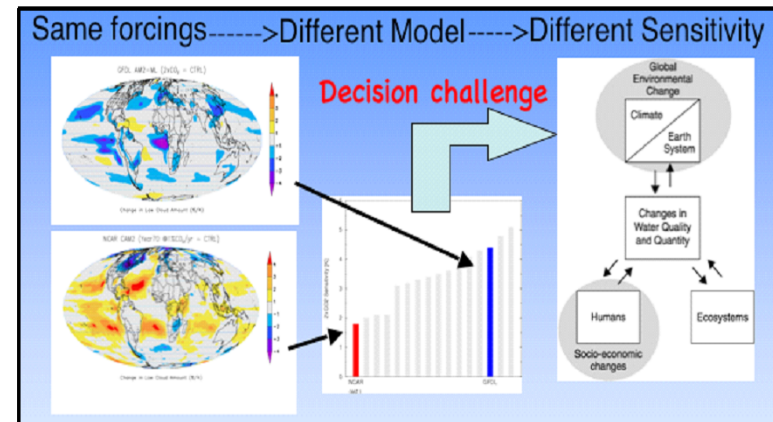
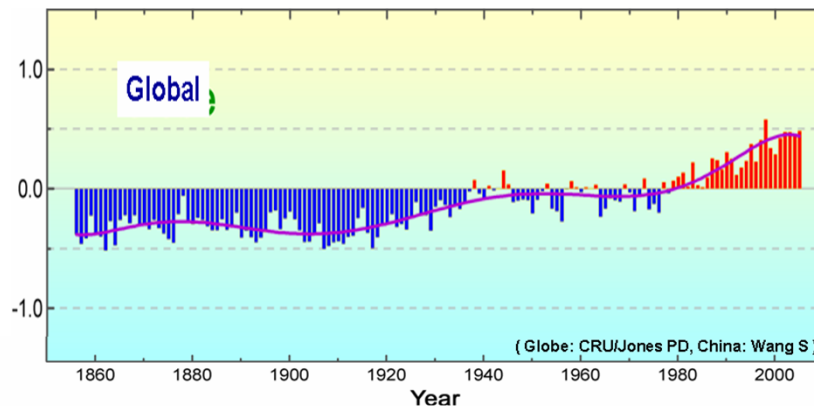


Only for *flood disaster* until July, directly economic loss reaches **43.2 Billion RMB**, Impacted **27 provinces** and regions and **36.7 Million population**, **239 victim ...**



There are multiple impact & challenges

(1).Climate change impact



It is quite possible to

IPCC AR4 (2009)

- **change water's time-space distribution**

- **increase risks on floods & droughts in water stress regions**