

[초청강연]

Increasing trend of extreme heat in China and its challenge

Riyu LU

Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China

The death toll caused by heat waves during the decade ending in 2010 is estimated to have increased by 2,300% compared to the previous decade. The destructive impact of heat waves, especially against the background of global warming, provokes numerous relevant investigations. Possibly due to the fact that China has traditionally been an agricultural country, far less attention has been paid to heat waves than precipitation extremes in China. However, the aging of population and expanding of urbanization will push China into greater challenges in the coming decades. Therefore, more research on the extreme heat is necessary in China, and the results can help meteorological professionals, environmental officers and policy makers understand potentially increasing crises of heat waves and thus the necessity of well-informed heat warning systems in China and other countries and regions alike. This talk will review the research progress on heat waves in China and suggest the potential research topics in the future.

References

Lu, R., Chen, R., 2016, A review of recent studies on extreme heat in China, *Atmospheric and Oceanic Science Letters*, 9(2), 114-121.