

The Eighth Session of the East Asia winter Climate Outlook Forum



Review of 2020 Summer climate over Mongolia

Sh.Tergel and E.Munkhjargal

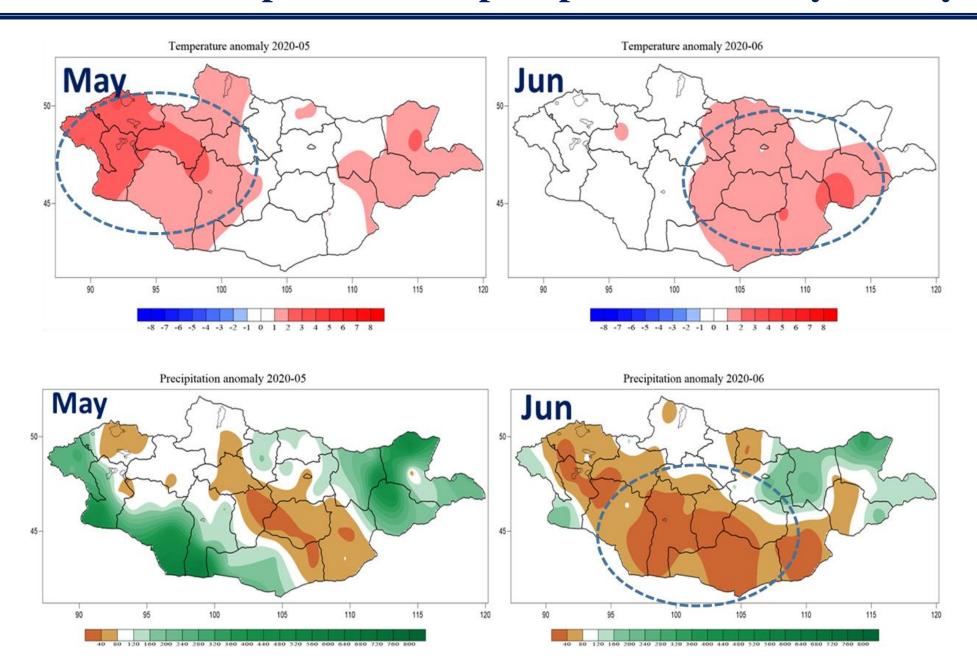
Research division of General circulation and Long range prediction

OUTLINE

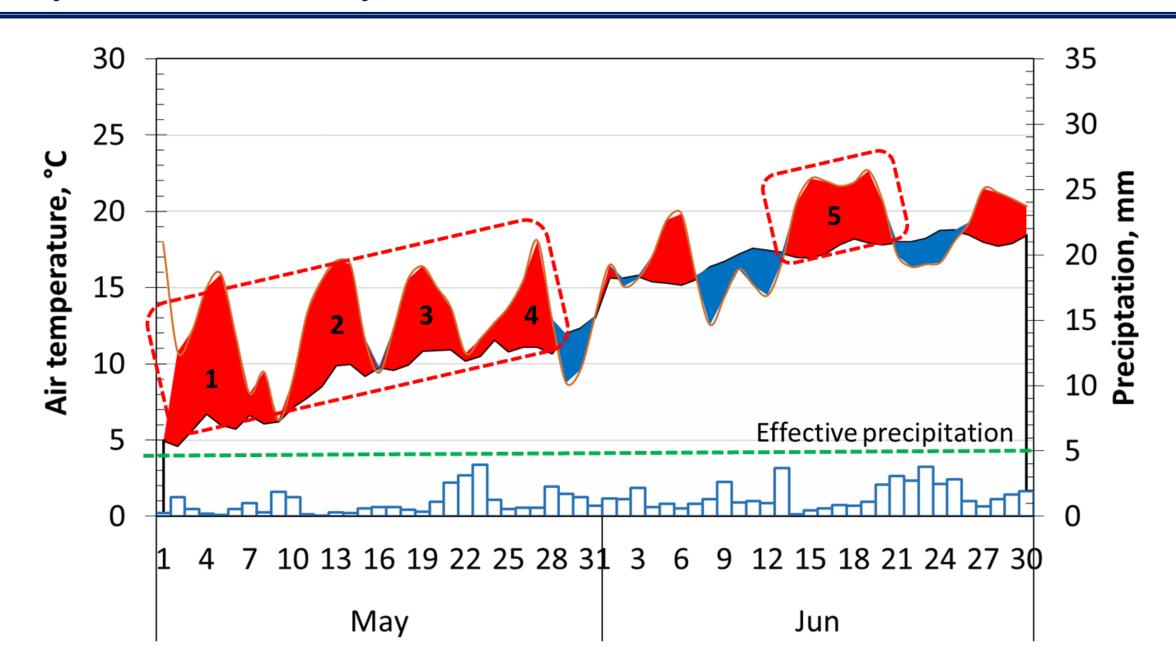
- Climate features
- Extreme events and its impact
- Characteristic of atmospheric circulation
- o **Summary**

Climate features

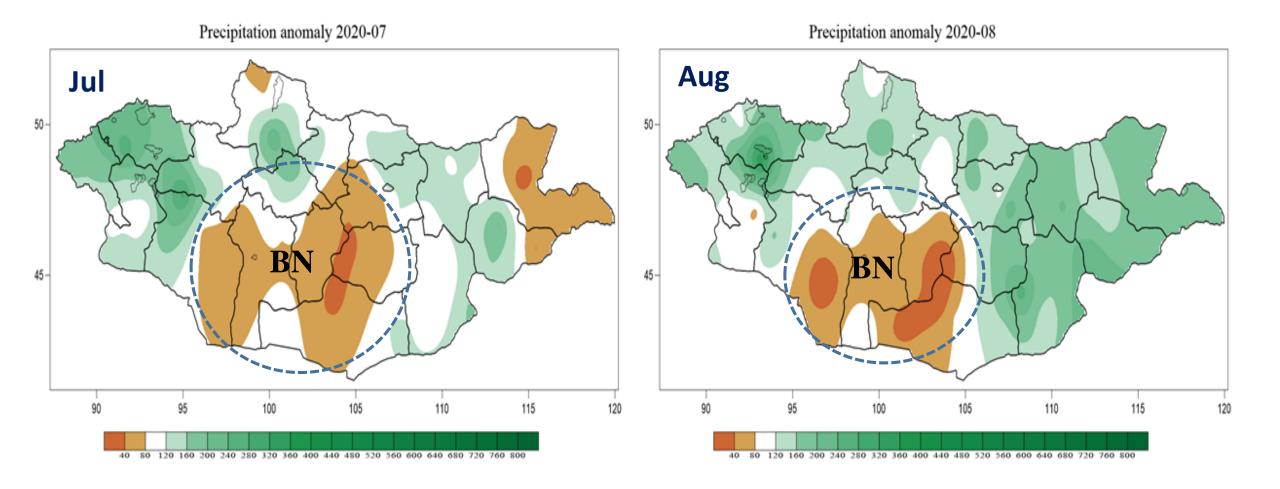
Distribution of air temperature and precipitation anomaly in early summer



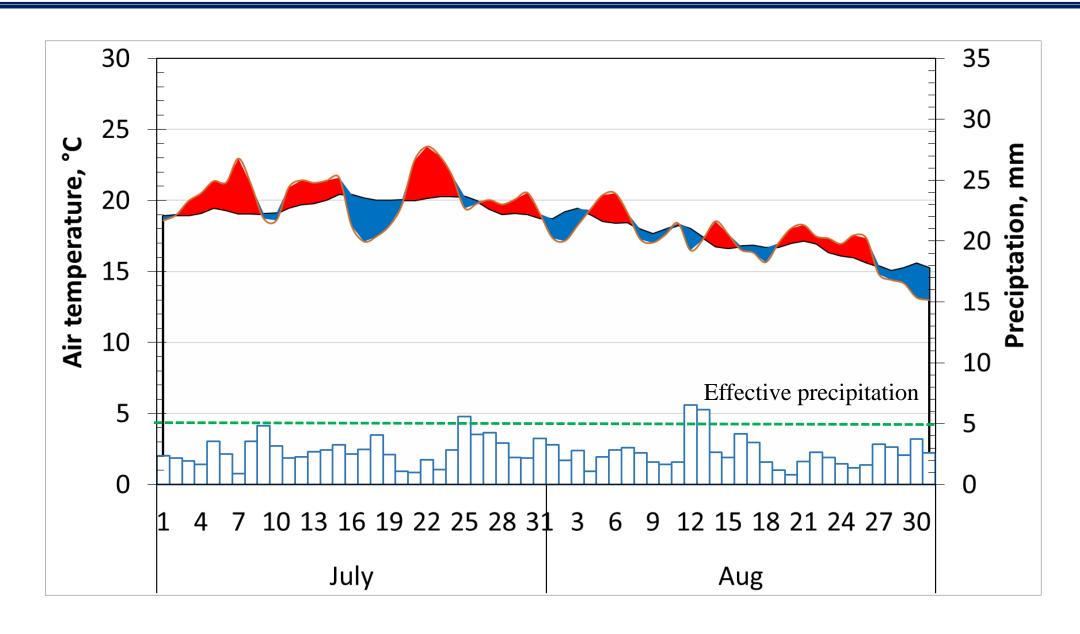
Daily time series of early summer



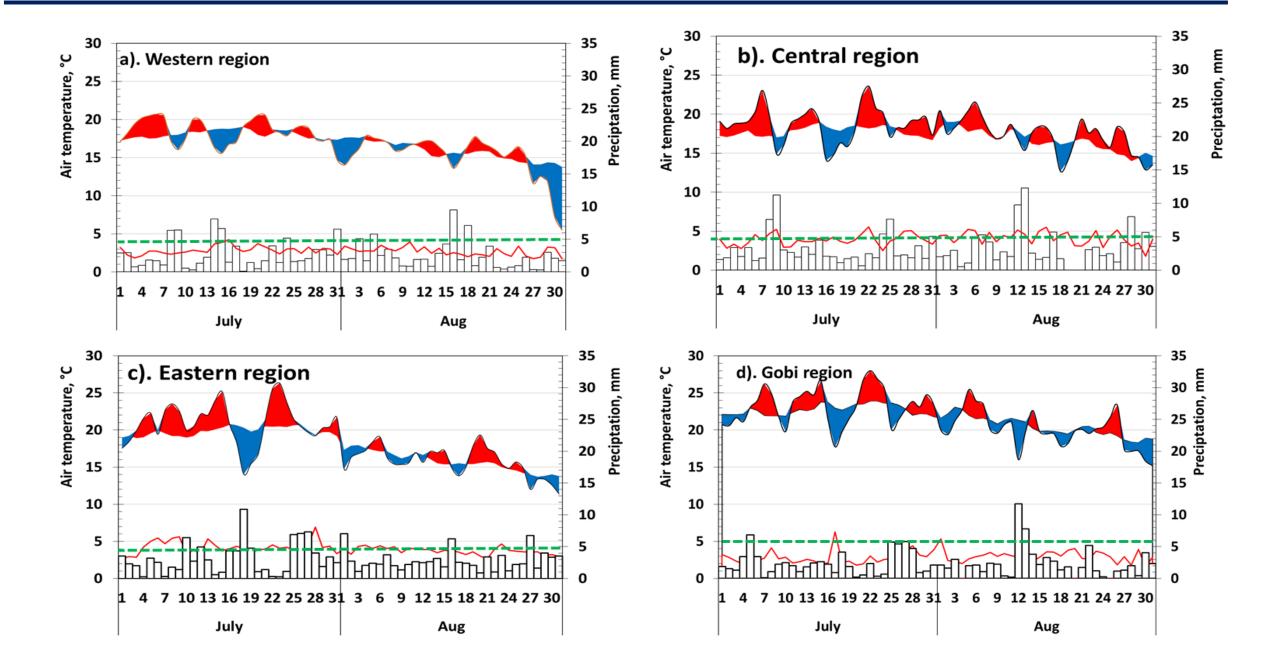
Distribution of precipitation anomaly in late summer



Daily time series of late summer

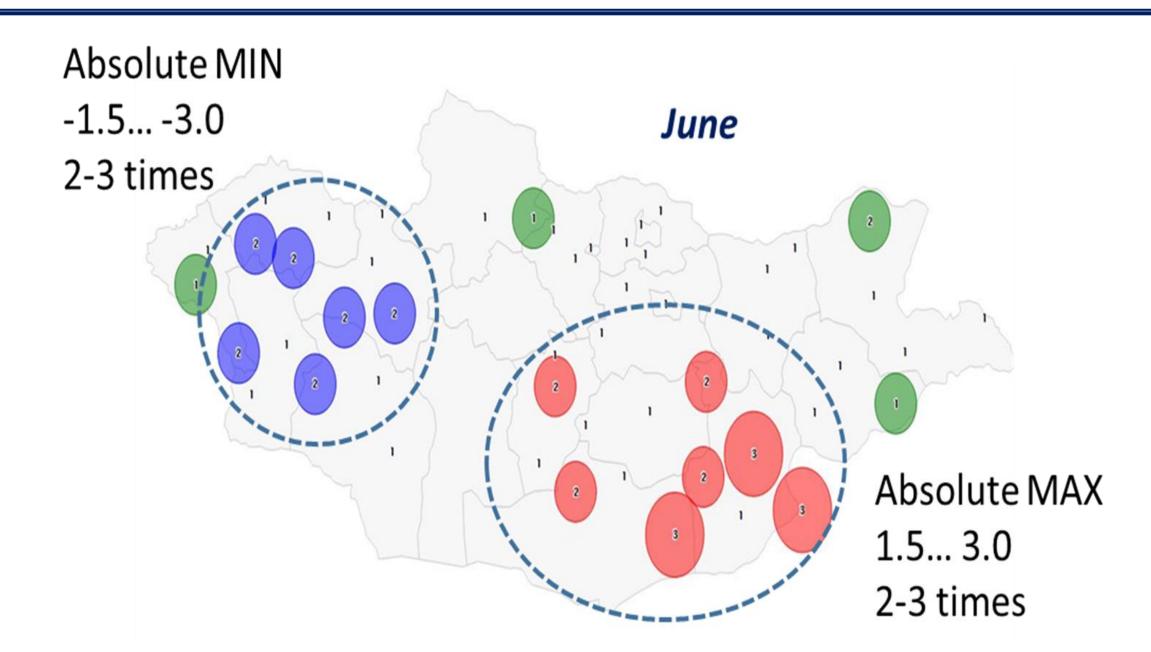


Time series of late of summer

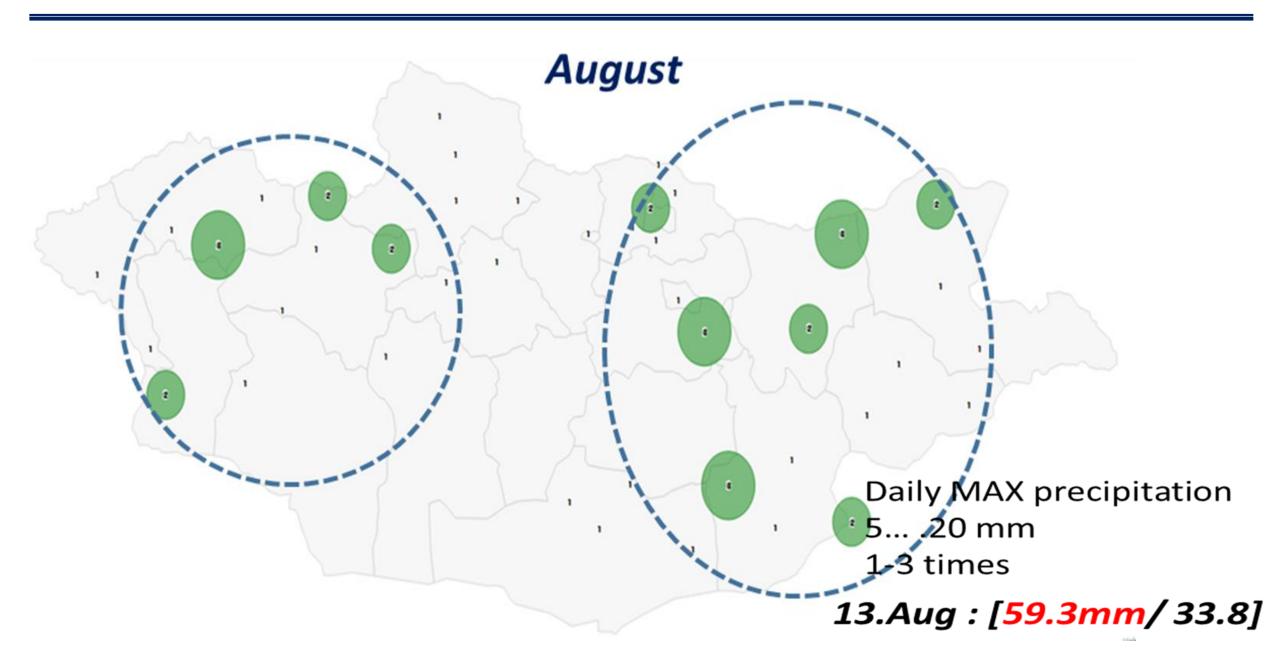


Extreme events and its impact

Remarkable climate characteristic



Remarkable climate characteristic



Extreme events impact



Location: Zuunmod

Date: 21.June

Duration: 40 min

Rain: 69 mm a day

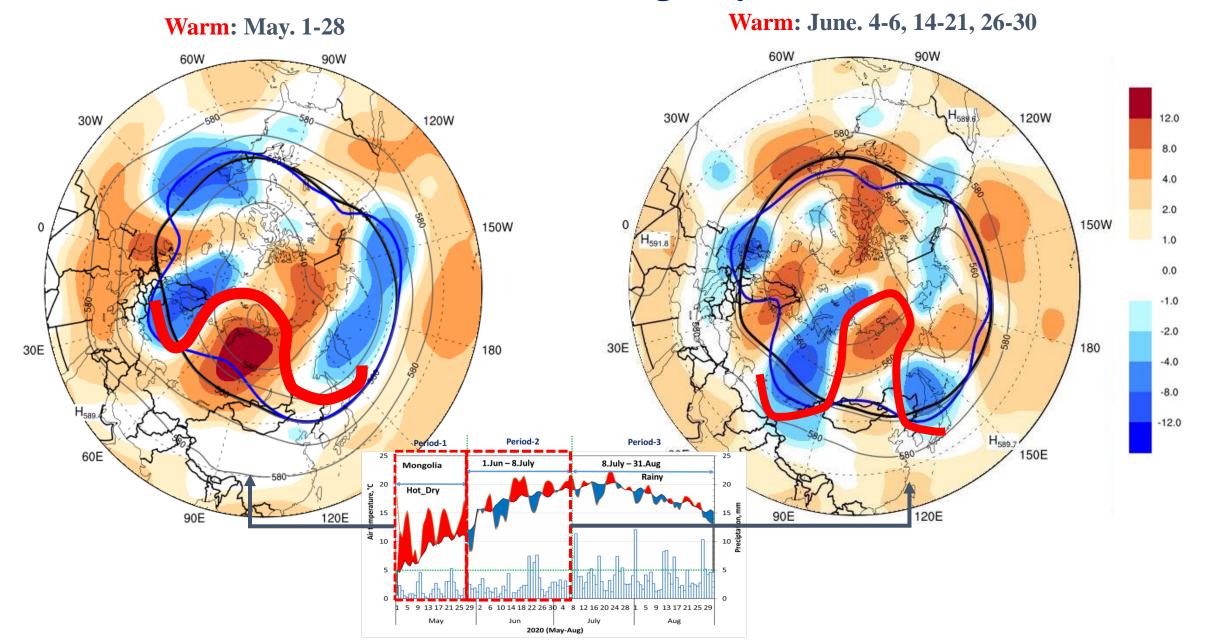
Damage: 2 people died

69 house destroyed

53 gers flooded

Atmospheric circulation

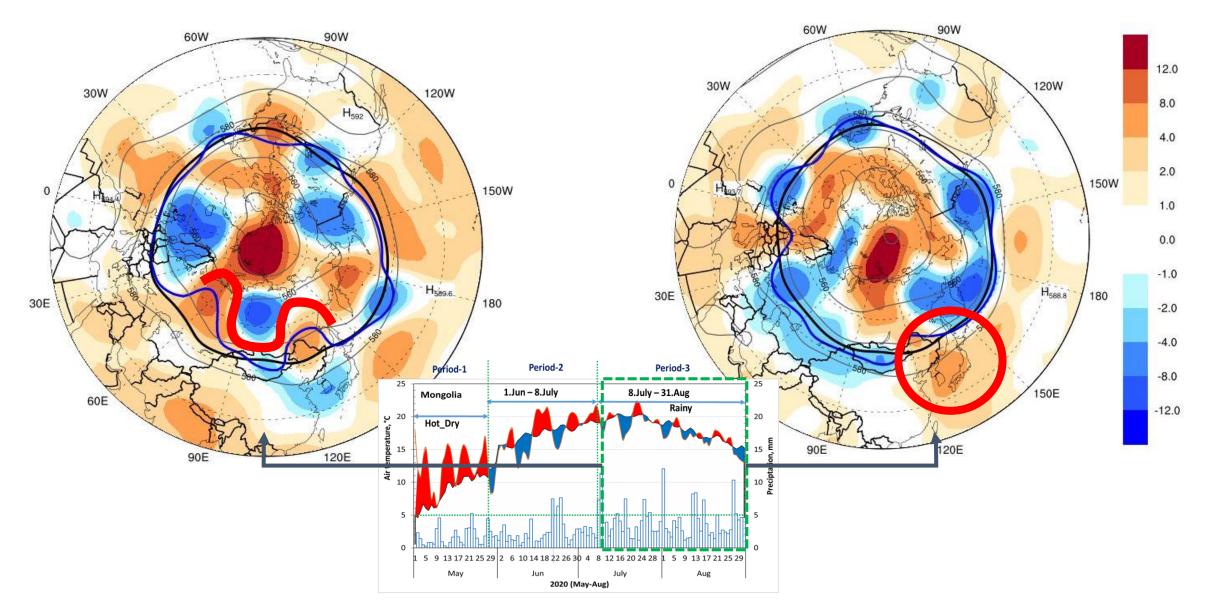
Hot waves in earlier summer (during May-June, 2020)



Above normal precipitation period (during July-August, 2020)

Above normal precipitation: July. 8-31

Above normal precipitation: August. 1-31



Summary

Generally, precipitation (avg: 54.6 mm, anomaly: ~100%) and air temperature (avg: 17.8°C, anomaly: 0.5°C) for this summer were near normal.

Characteristics:

- Early of summer was generally hot and dry across the western and eastern region.
- Above normal precipitation was experienced during late of summer, except over west-south part of Mongolia.
- Several heat waves occurred in the early summer were related with "Omega" shaped pattern.
- Above normal precipitation was related with reversed "Omega" shaped pattern and positive anomaly of geopotential height at 500 hPa over the Korea and Japan.

Thank you

