Brief Post-Analysis of the South Korea Summer in 2019



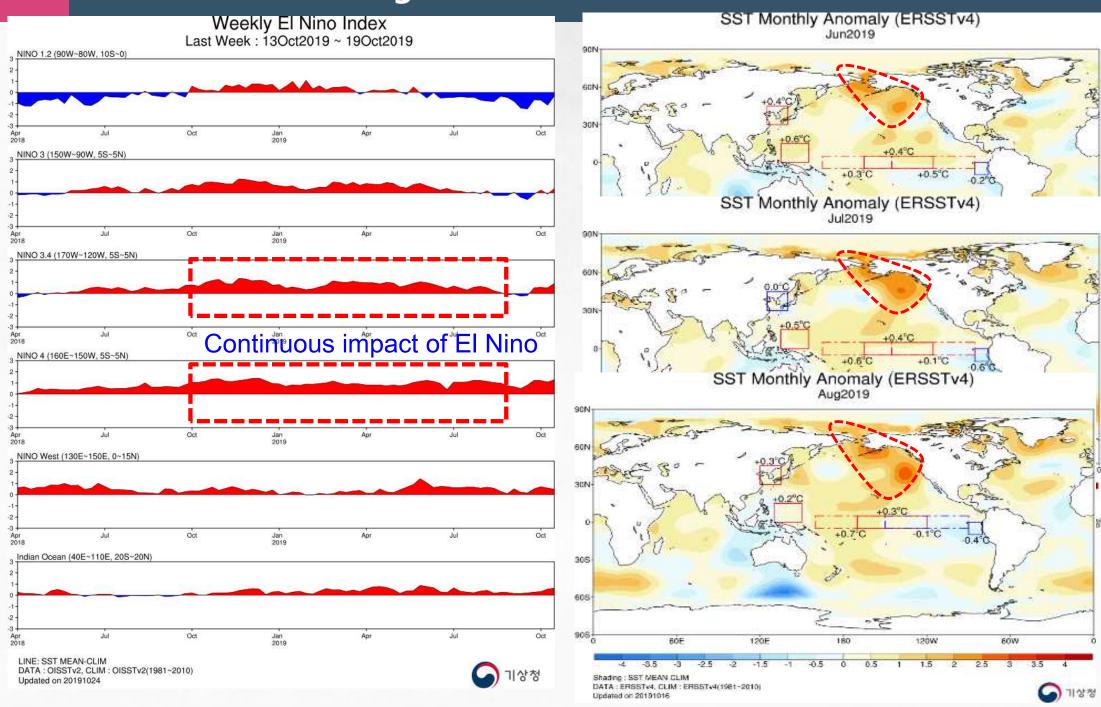
CHOI Chulwoon, CHOI Jeonghee, KIM Miju, KIM Dongjoon Climate Prediction Division, KMA



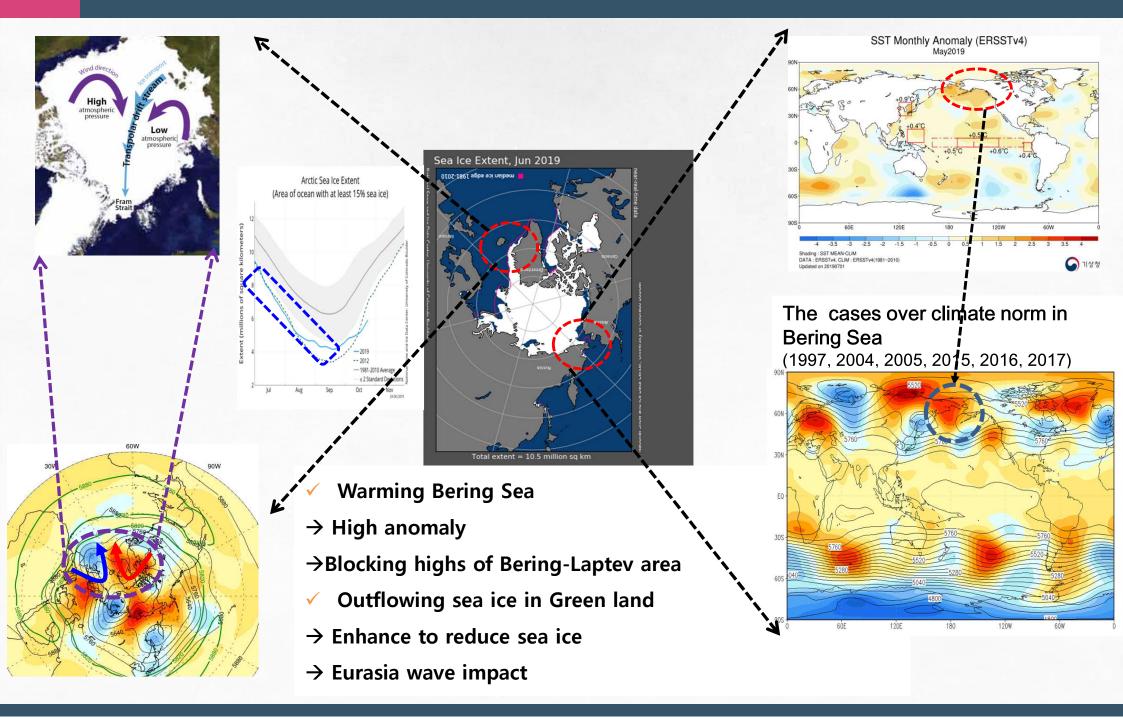


Impacts of Atmos. & Ocean on Korea

SST & ENSO during this summer



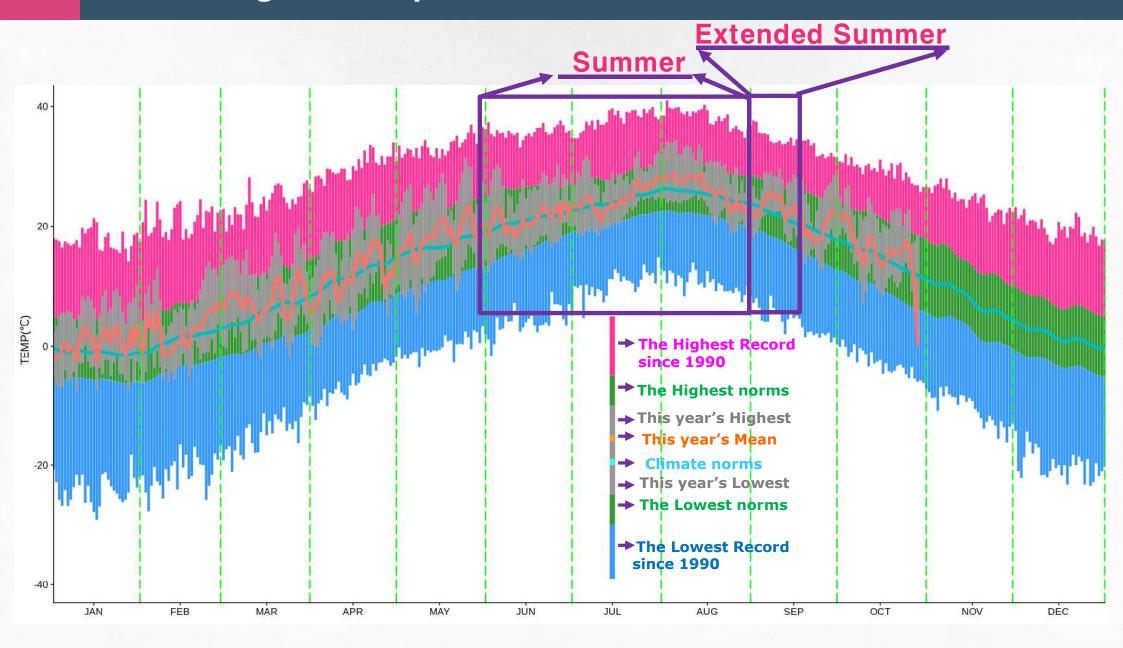
Some partial impact of arctic area





Main Feature of Mean Temp. this summer

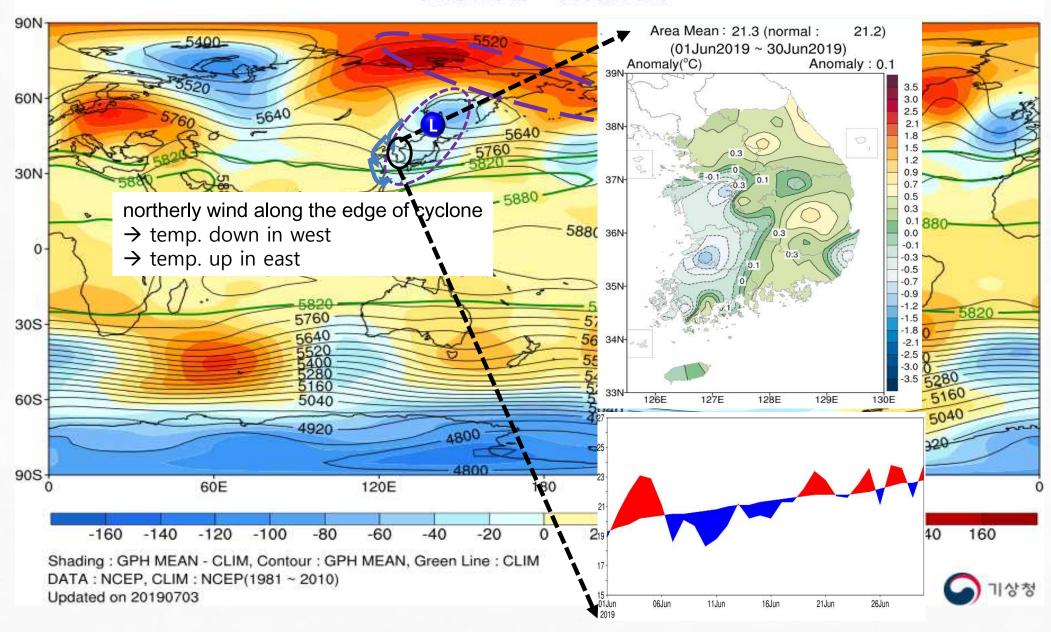
Climatological Temp. Feature in the South Korea



Monthly Mean Temperature in June

500hPa GPH Mean

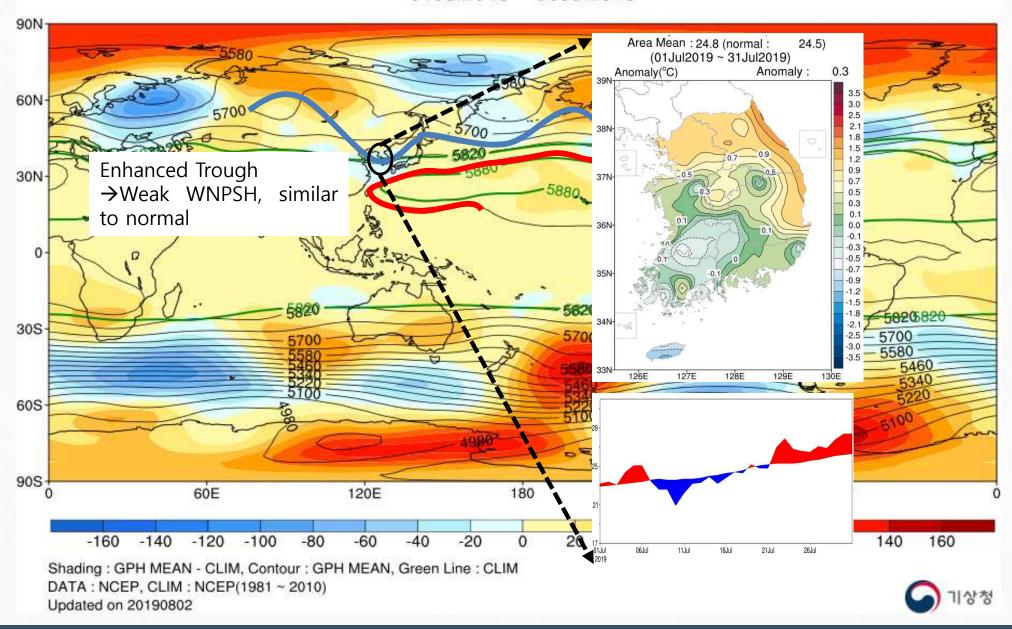
01Jun2019 ~ 30Jun2019



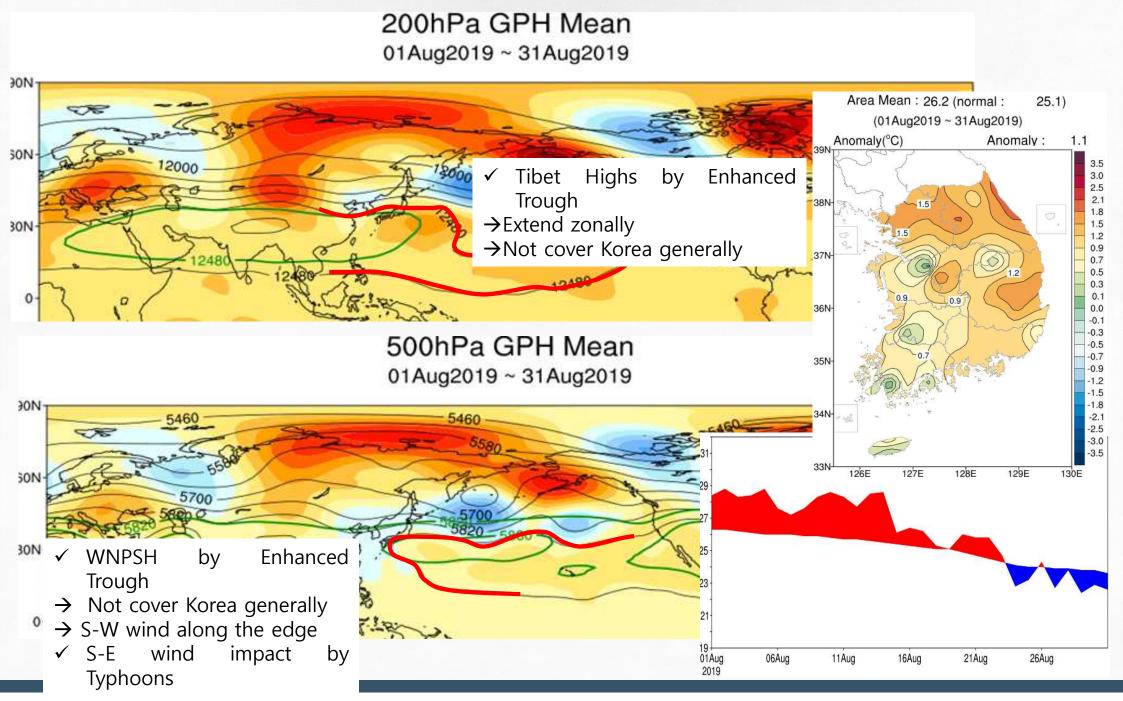
Monthly Mean Temperature in July

500hPa GPH Mean

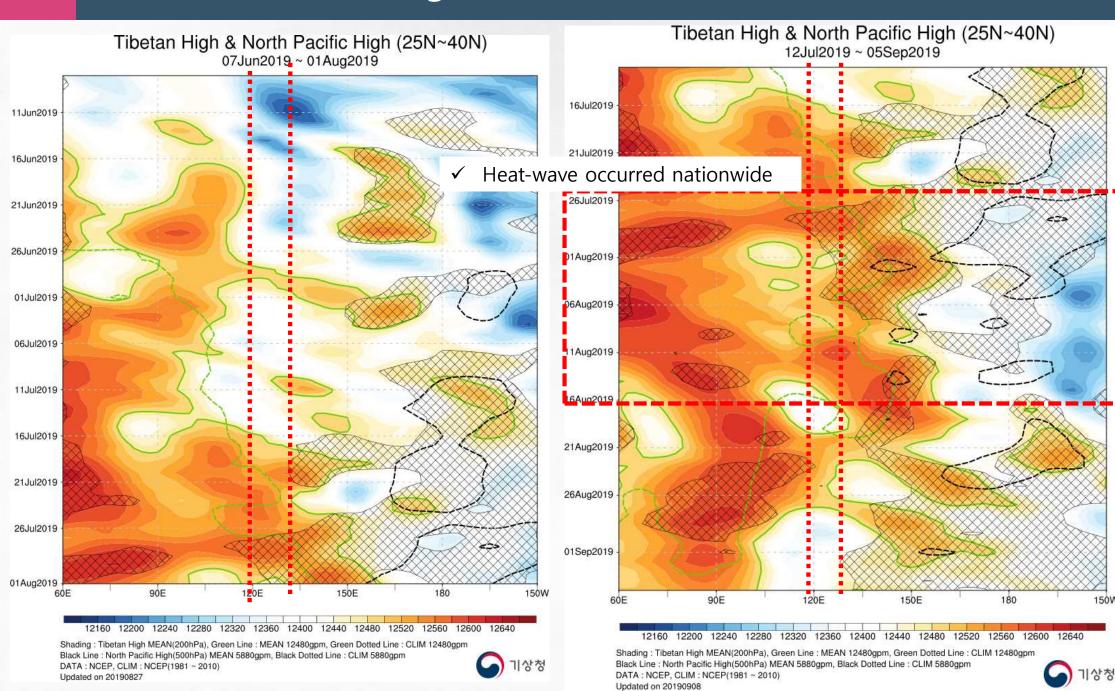
01Jul2019 ~ 30Jul2019



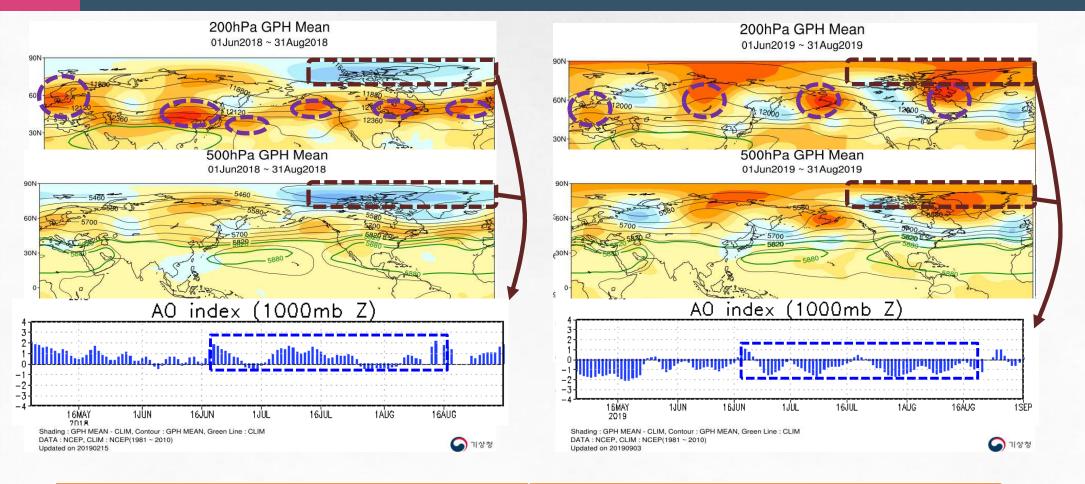
Monthly Mean Temperature in August



Status of Tibetan Highs & WNPH this summer

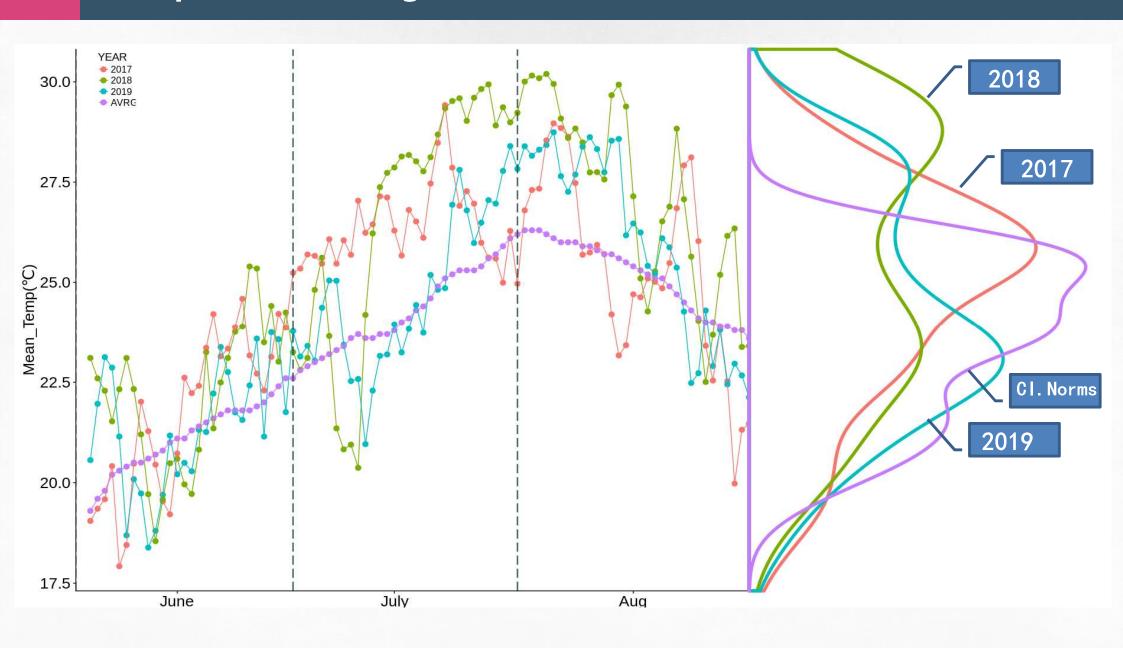


Comparison between 2018 and 2019



Summer in 2018	Summer in 2019
CGT-like High anormaly attributes	Wave shaped Highs and Lows pattern
Dual impact of Tibetan(12480 gph) & WNSPH(5880 gph)	Not strong WNSPH
Mostly (+)AO	Continuous (-)AO

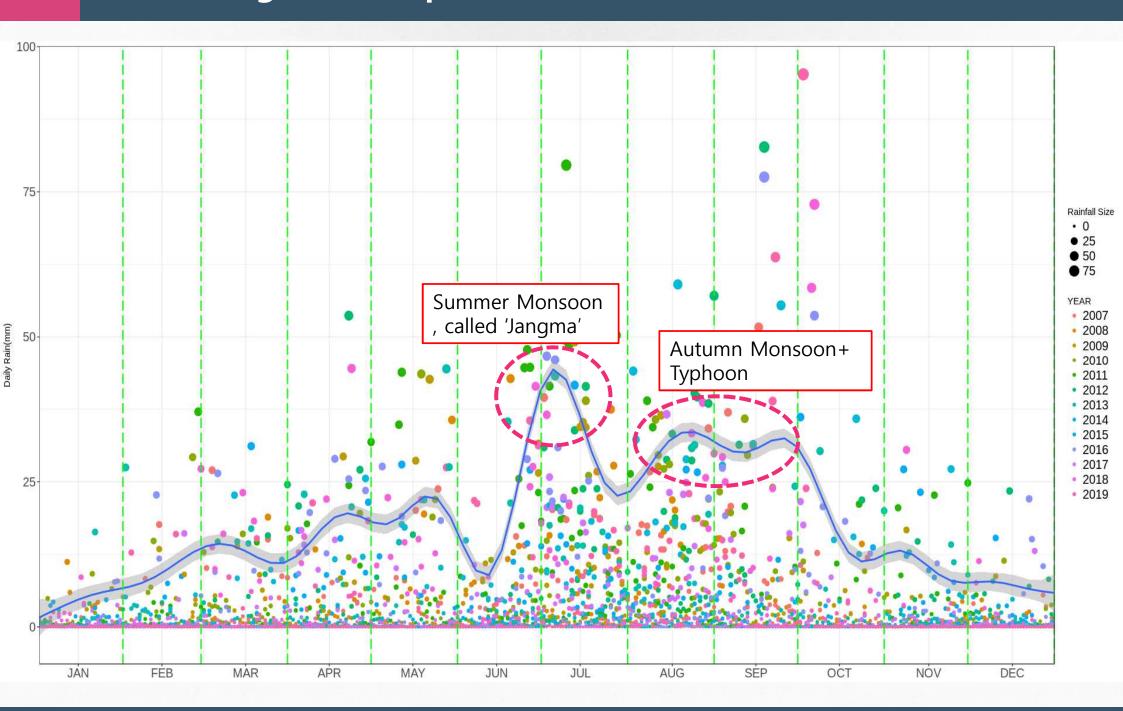
Comparison among 2017, 2018 and 2019



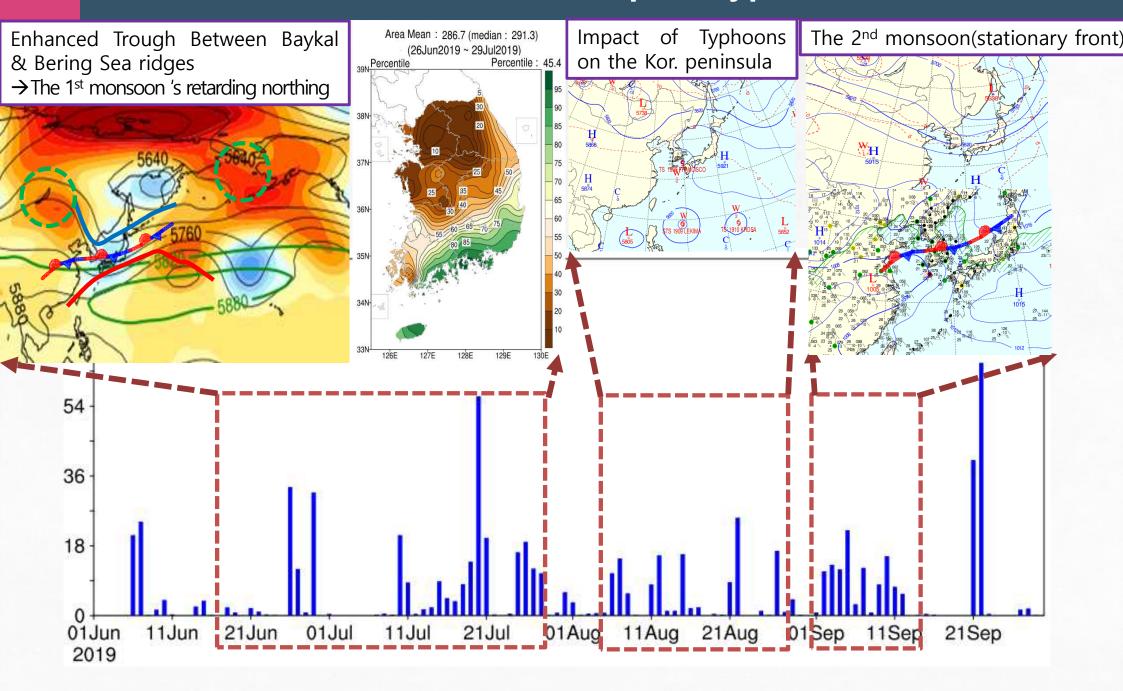


Main Feature of Precip. this summer

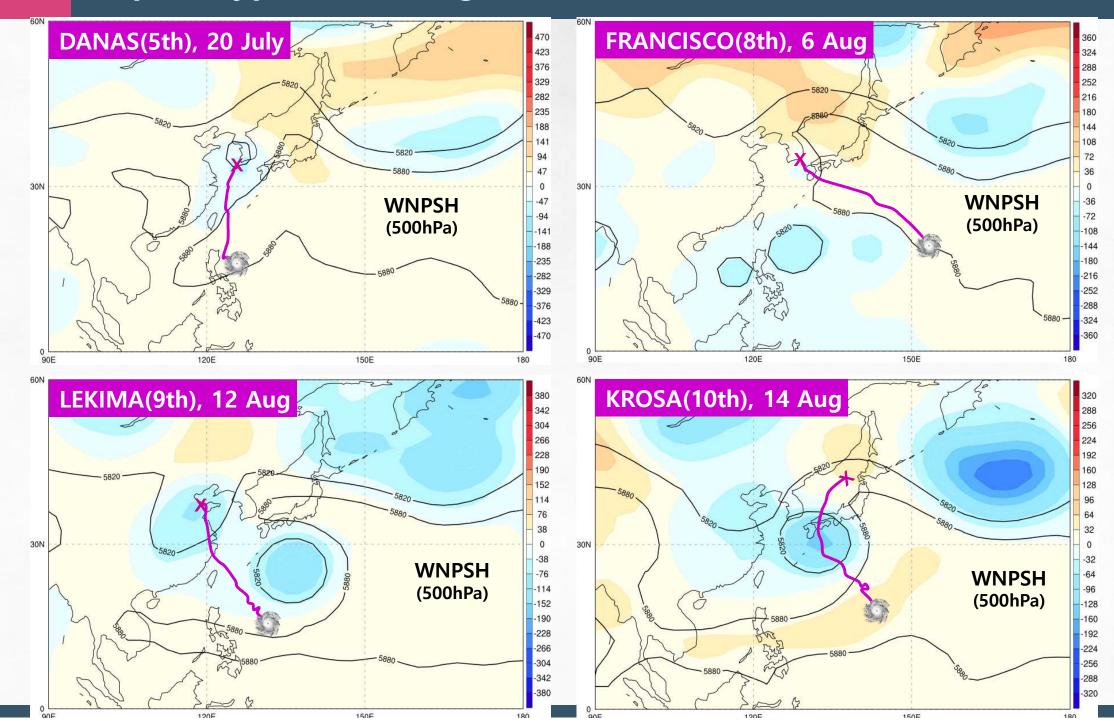
Climatological Precip. Feature in the Korea Peninsula



Two kinds of monsoon, Four Impact Typhoons

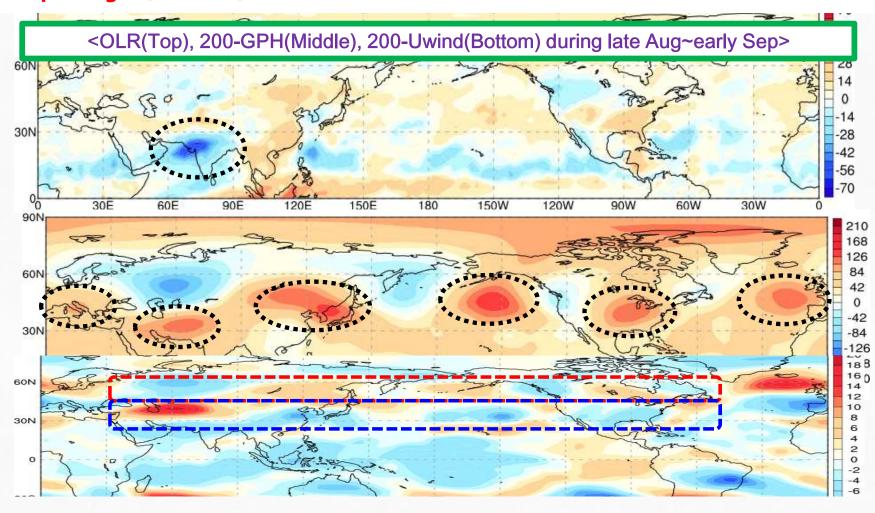


Impact Typhoon during this summer



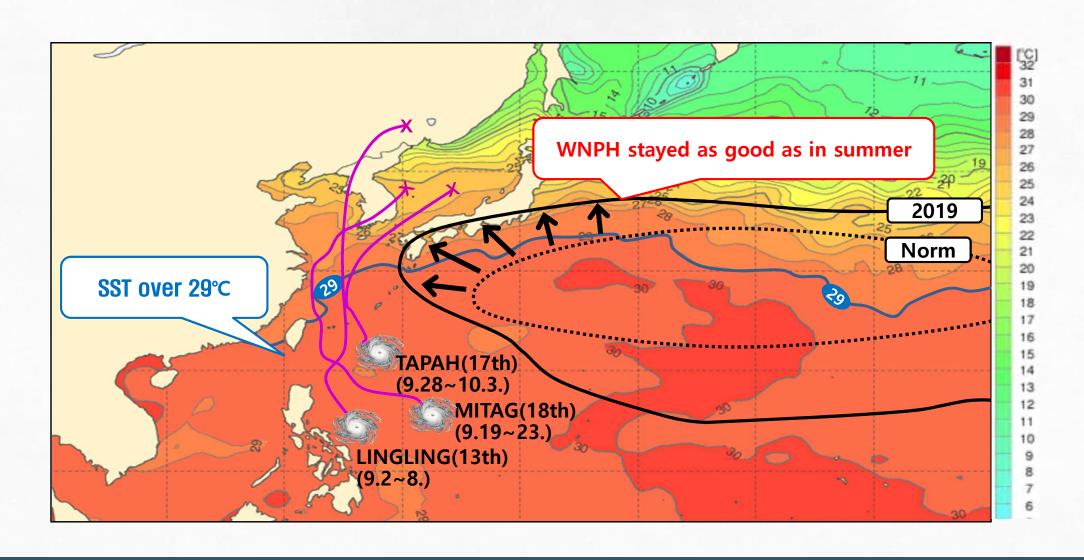
September: Extended Summer

- CGT-like pattern occurred by forcing divergence in India
- → geographically phase-locked patterns appears zonally, associated with weak westerly Jet(12km above)
- → Barotropic Highs(WNPSH) remains in the near South-East Sea of Korea

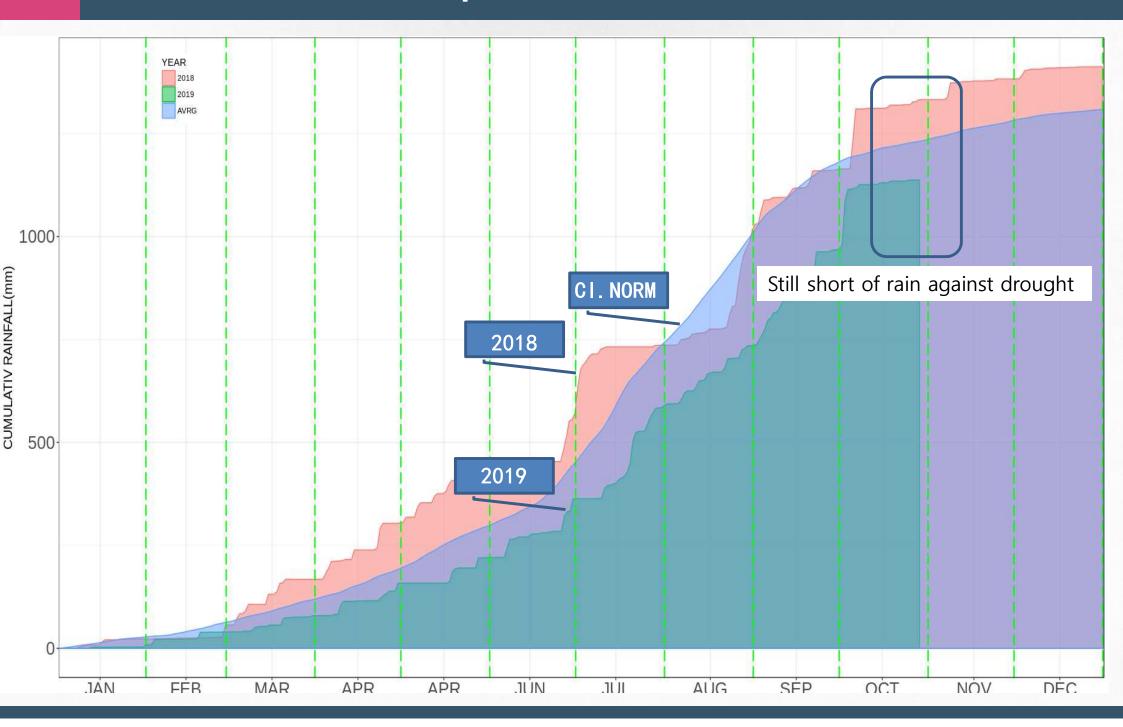


Impact Typhoons Increase Unprecedentedly

- High SST, over 29°C, remains in the south.
- Not Declining WNPSH paved the way on which Typhoon affected Korea.



Cumulative Rainfall, up to now



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