Climate Outlook for Summer 2021

Jiyoung OH

on behalf of

Yeisook Lee, Hyeonjeong Kim, Junho Jang and Hyunsoo Lee

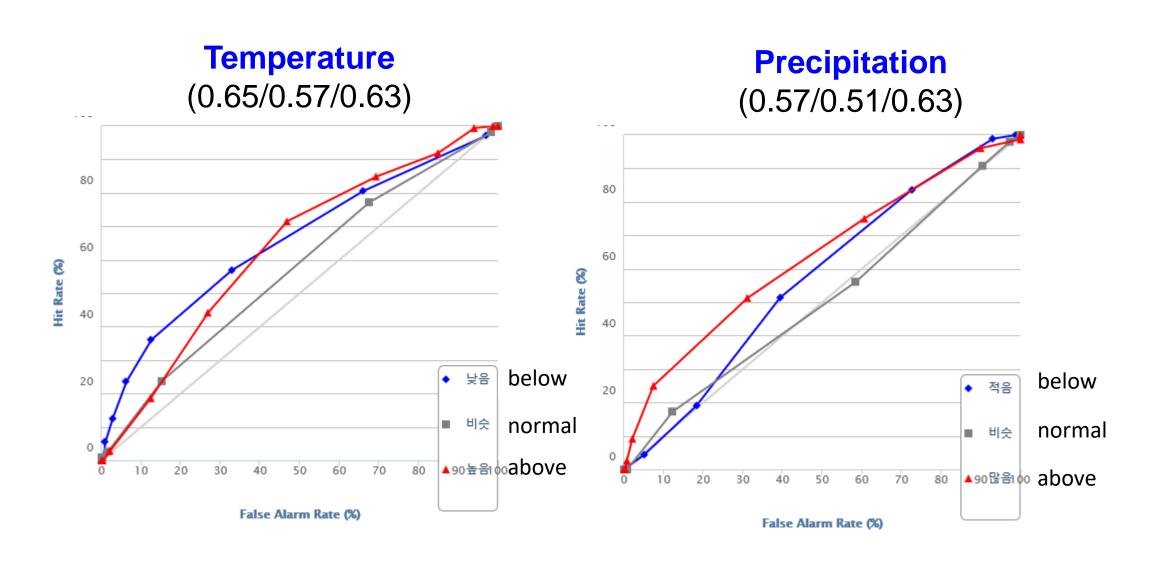
Climate Predicition Division



Korea Meteorological Administration

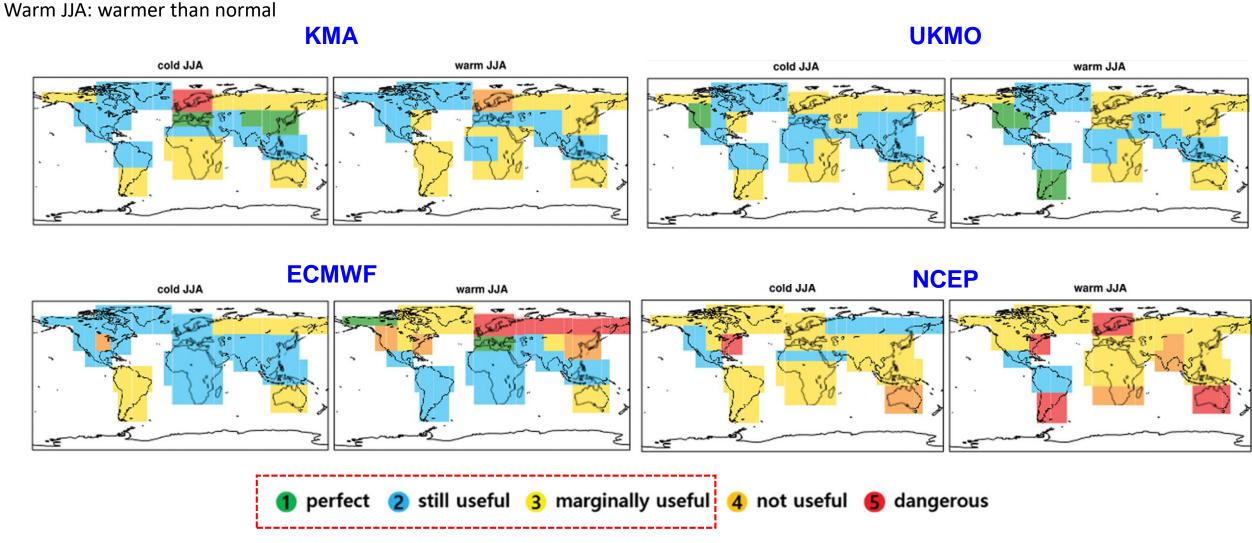
ROC Verification of GloSea5



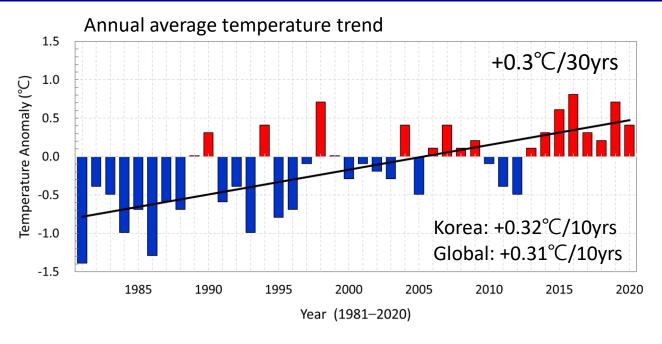


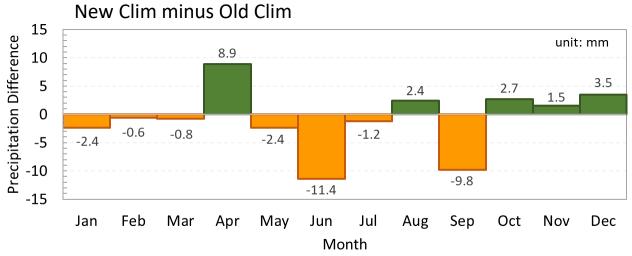
Reliability Map of Temperature

Cold JJA: colder than normal

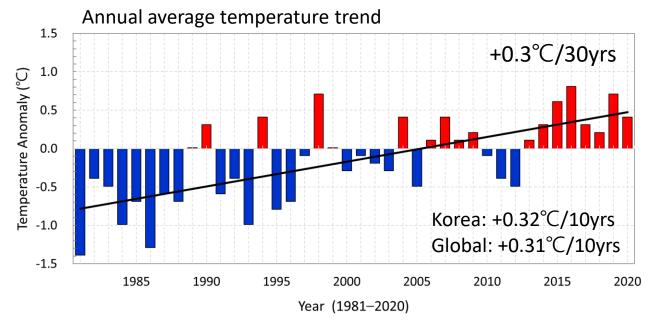


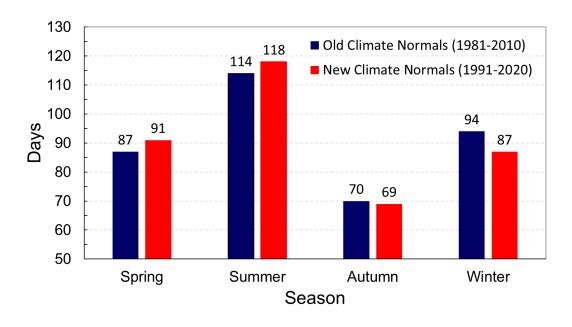
New Climate Normals (1991-2020) in Korea

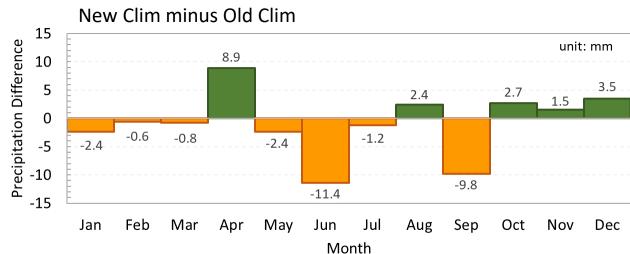


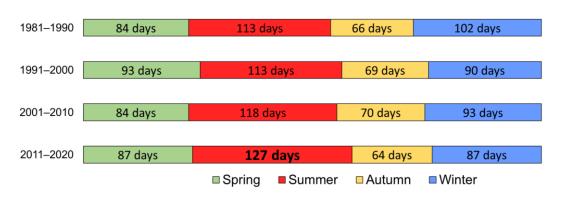


New Climate Normals (1991-2020) in Korea



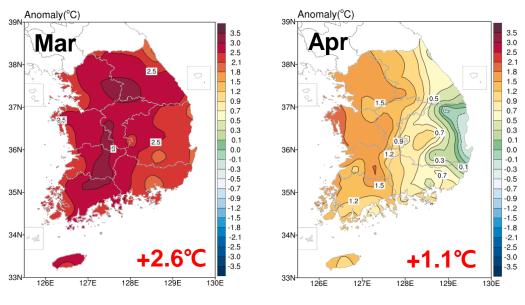


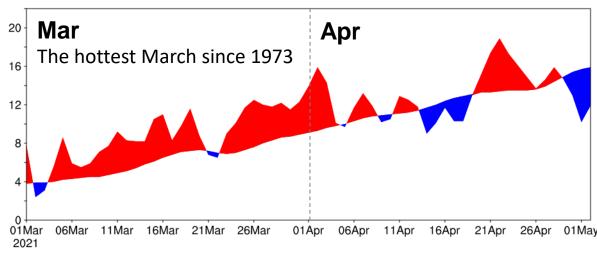


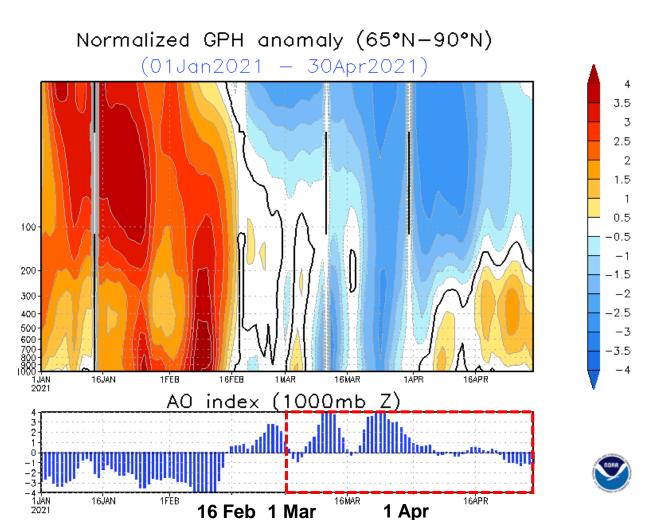


Recent Conditions

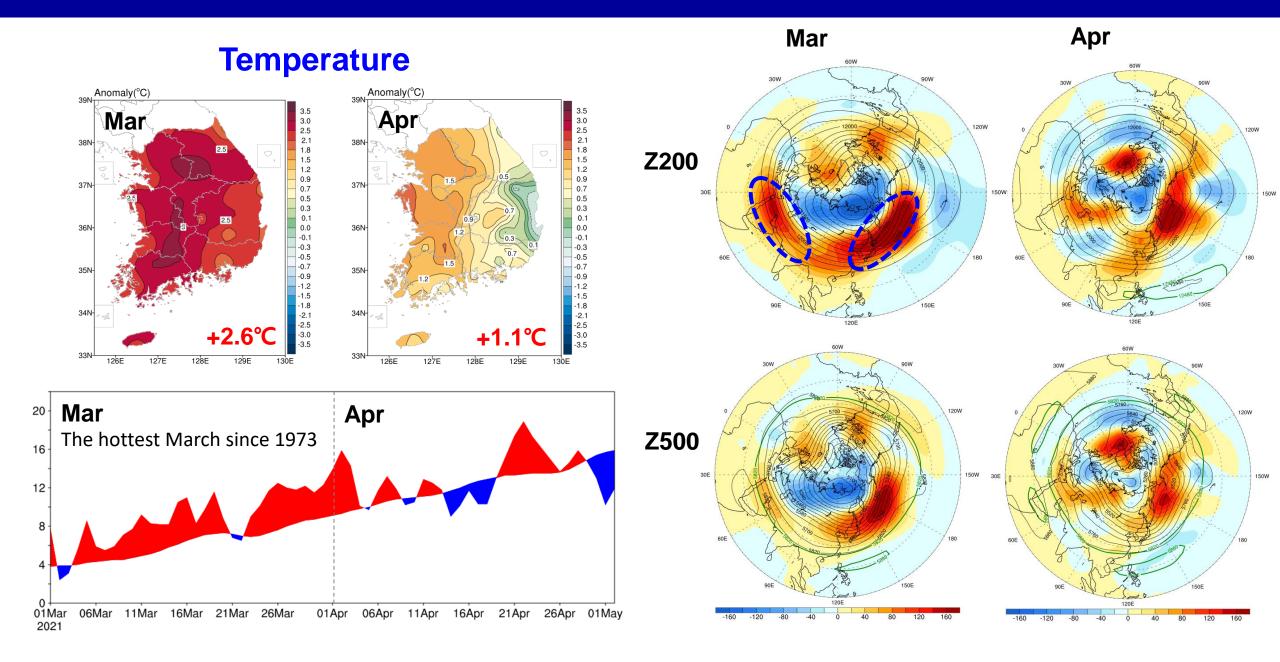
Temperature



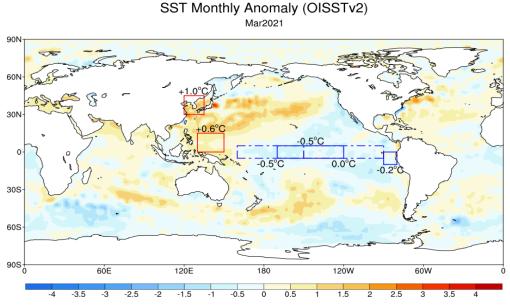




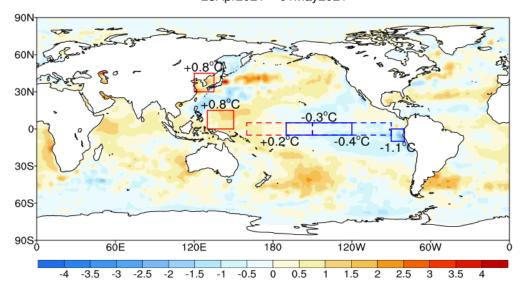
Recent Conditions

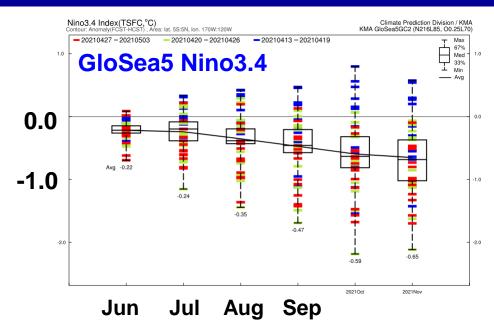


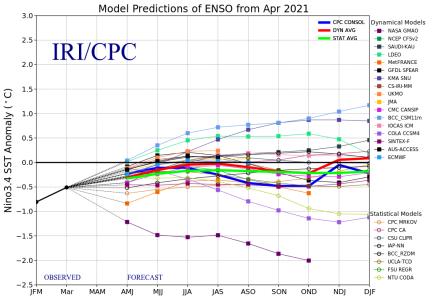
Climate Mornitoring Factors: SST

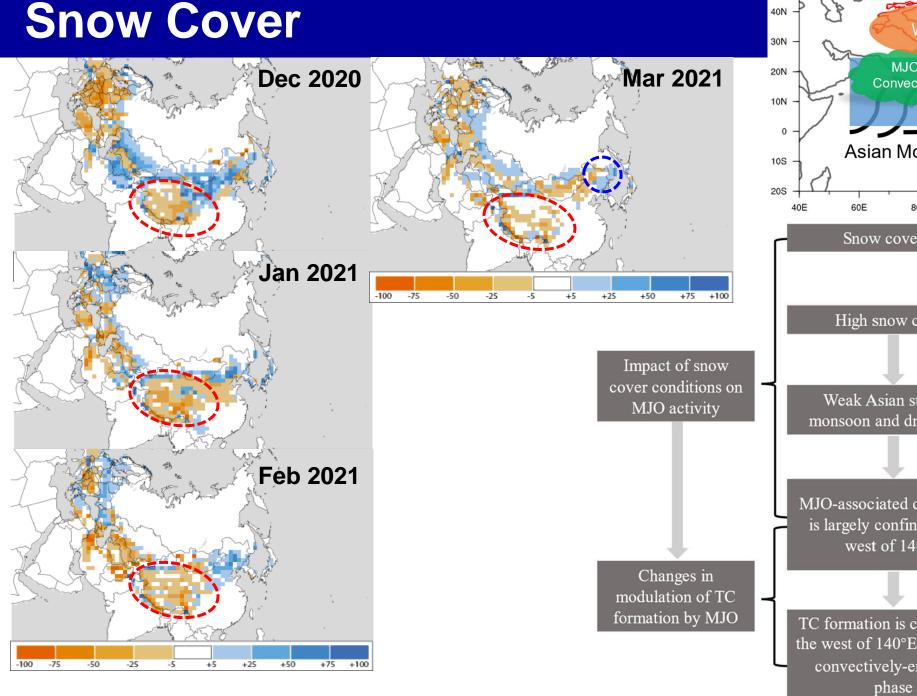


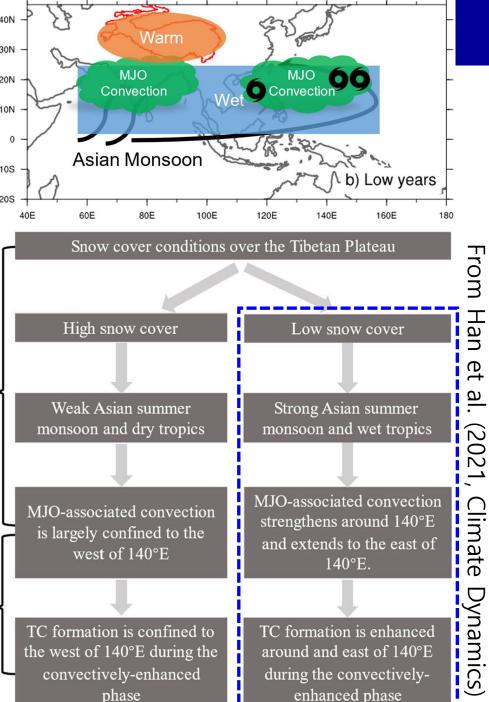
SST Weekly Anomaly (OISSTv2) 25Apr2021 ~ 01May2021





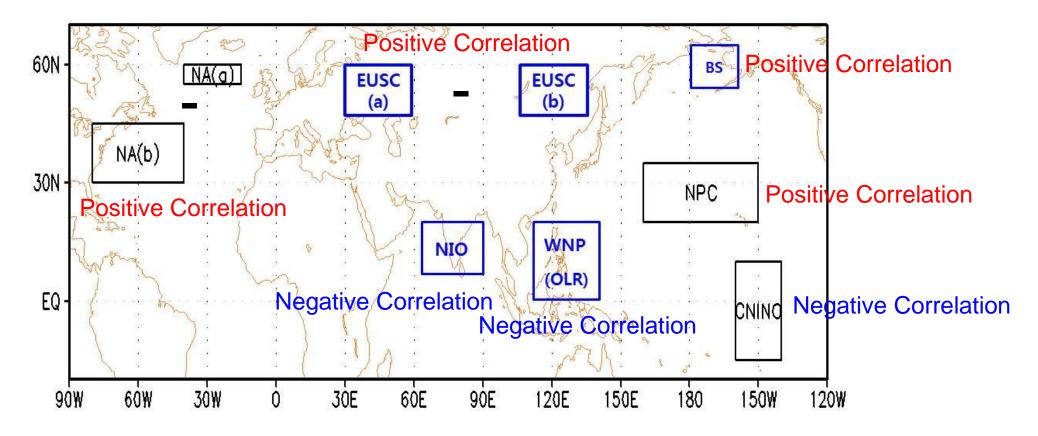






Predictors for Changma Precipitation

Box: areas for selected predictors



NA: North Atlantic

EUSC: Eurasian Snow Cover

BS: Bering Sea

NIO: Northern Indian Ocean

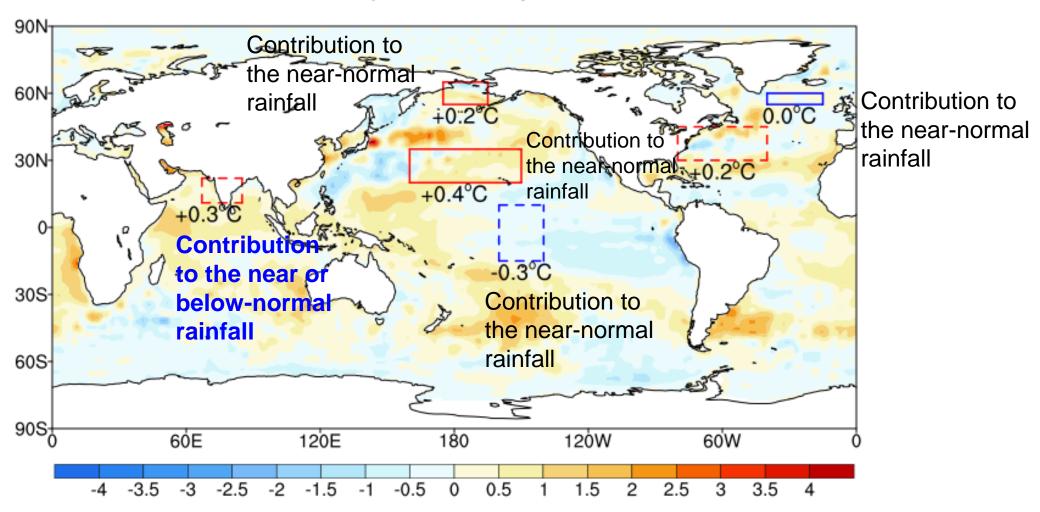
WNP: Western North Pacific CNINO: Central Pacific NINO NPC: Northern Pacific Change

Diagnosis for Changma Precipitation

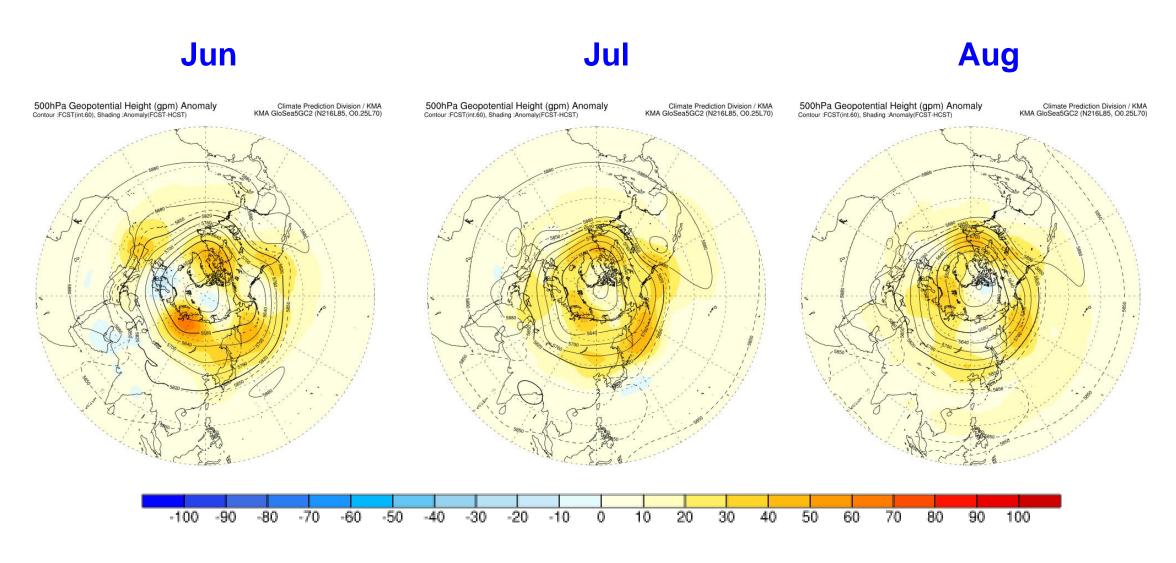
Box: areas for selected predictors

SST Weekly Anomaly (OISSTv2)

25Apr2021 ~ 01May2021



GloSea5 Z500



The Western North Pacific Subtropical High shows slightly expansion toward Korea.

WMOLC-LRFMME Temperature and Precipitation

Probabilistic Multi-Model Ensemble Forecast

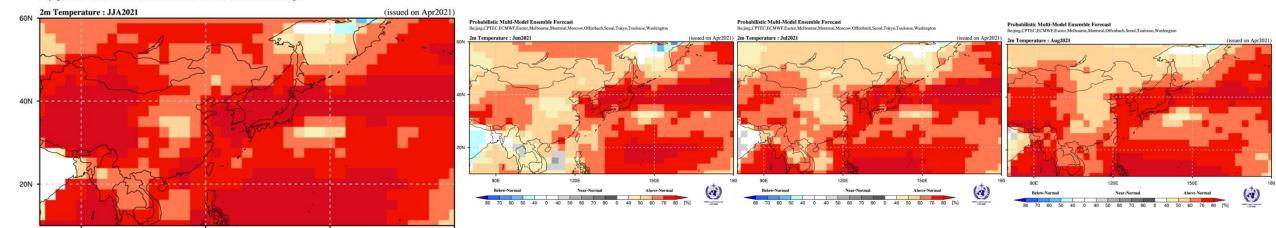
Beijing, CPTEC, ECMWF, Exeter, Melbourne, Montreal, Offenbach, Seoul, Toulouse, Washington

120E

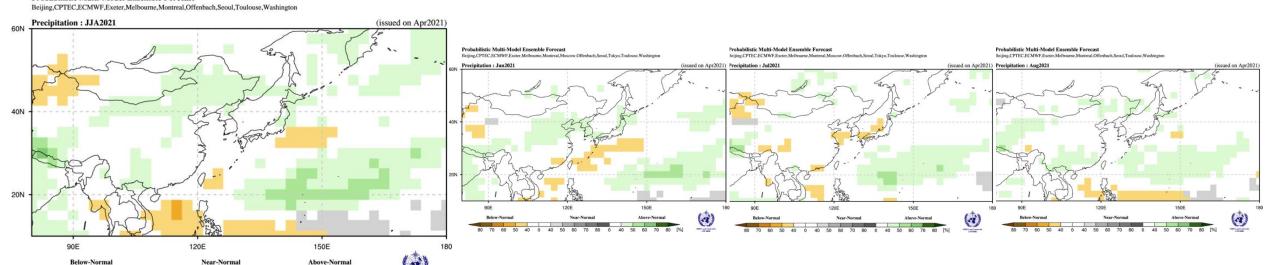
70 60 50 40 0 40 50 60 70 80

150E

40 50 60 70 80 [%]



Probabilistic Multi-Model Ensemble Forecast



Summary

■ ENSO is expected to be neutral during the coming summer.

- For Korea, temperature will be a higher than normal, and precipitation is likely to be near normal in this summer.
 - Changma period: near normal but it is likely to start a little bit earlier than normal.
 - Rainfall for Changma period : near-normal
 - The WNPSH is likely to be a little shifted northward in JJA 2021.

| | Temperature | | | Precipitation | | |
|--------|--------------|-------------|--------------|---------------|-------------|--------------|
| | Below Normal | Near normal | Above normal | Below Normal | Near normal | Above normal |
| Summer | 20 | 30 | 50 | 30 | 50 | 20 |

Additional Slides

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Snow Cover and Sea Ice

