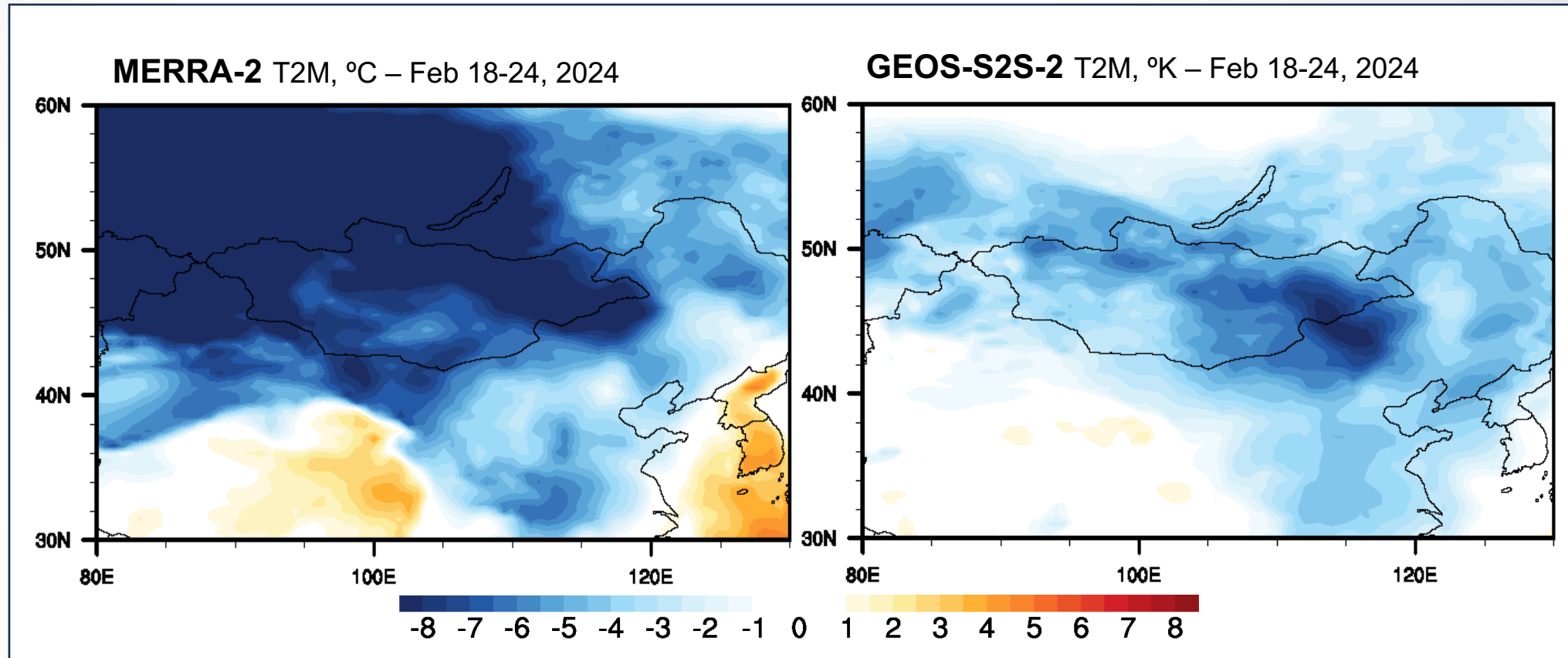


# GEOS-S2S-2 - February 2024 Mongolia Dzud



The GEOS-S2S-2 model, initialized on Feb. 10, (left panel) accurately predicted temperatures well-below average for Mongolia starting the week of Feb. 18. Temperatures reached as low as  $-30\text{ }^{\circ}\text{C}$ , verified by MERRA-2 (right panel).



On February 14<sup>th</sup>, 2024, the government of Mongolia declared an elevated state of readiness until May 15<sup>th</sup> due to a severe dzud. These intense, prolonged periods of cold are characterized by heavy snowfall preceded by summer drought. This past February, 90% of the country was covered in snow and ice, disrupting access to social services, depriving animals of suitable grazing grounds, leading to a loss of 9% of livestock across the country.