



Third Pole Climate Forum



Climate Outlook for TP region JJAS-2026

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China Multi-model Ensemble Prediction System



中国多模式集合预测（CMME）系统2.0版本 China Multi-model Ensemble Prediction System v2.0

CMME-CPPS
气候现象
Climate Phenomena
Prediction

厄尔尼诺、热带大气季节内振荡、北极涛动、太平洋副热带高压等
ENSO, MJO, AO, WPSH, et al.

CMME-S2D
季节-年代际
Seasonal to Decadal

年际年代际(建设中)、滚动季、逐月
Interannual & Decadal (under construction), Seasonal, Monthly

CMME-S2S
次季节-季节
Subseasonal to Seasonal

次月、逐旬、逐候、日(过程)
Next month, Ten days, Pentad, Daily

CMME-VECOM
预测检验
Verification and Evaluation

历史回报、实时预测、确定性、概率预测
Hindcast, Forecast, Deterministic Prediction, Probabilistic Prediction

建立多模式预测业务标准
Multi-model prediction
operational standards

投入业务应用, 开展实时预测与评分检验
Operational application, realtime prediction
and verification

完成历史回算, 评估CMME系统性能
Retrospective prediction and assessment

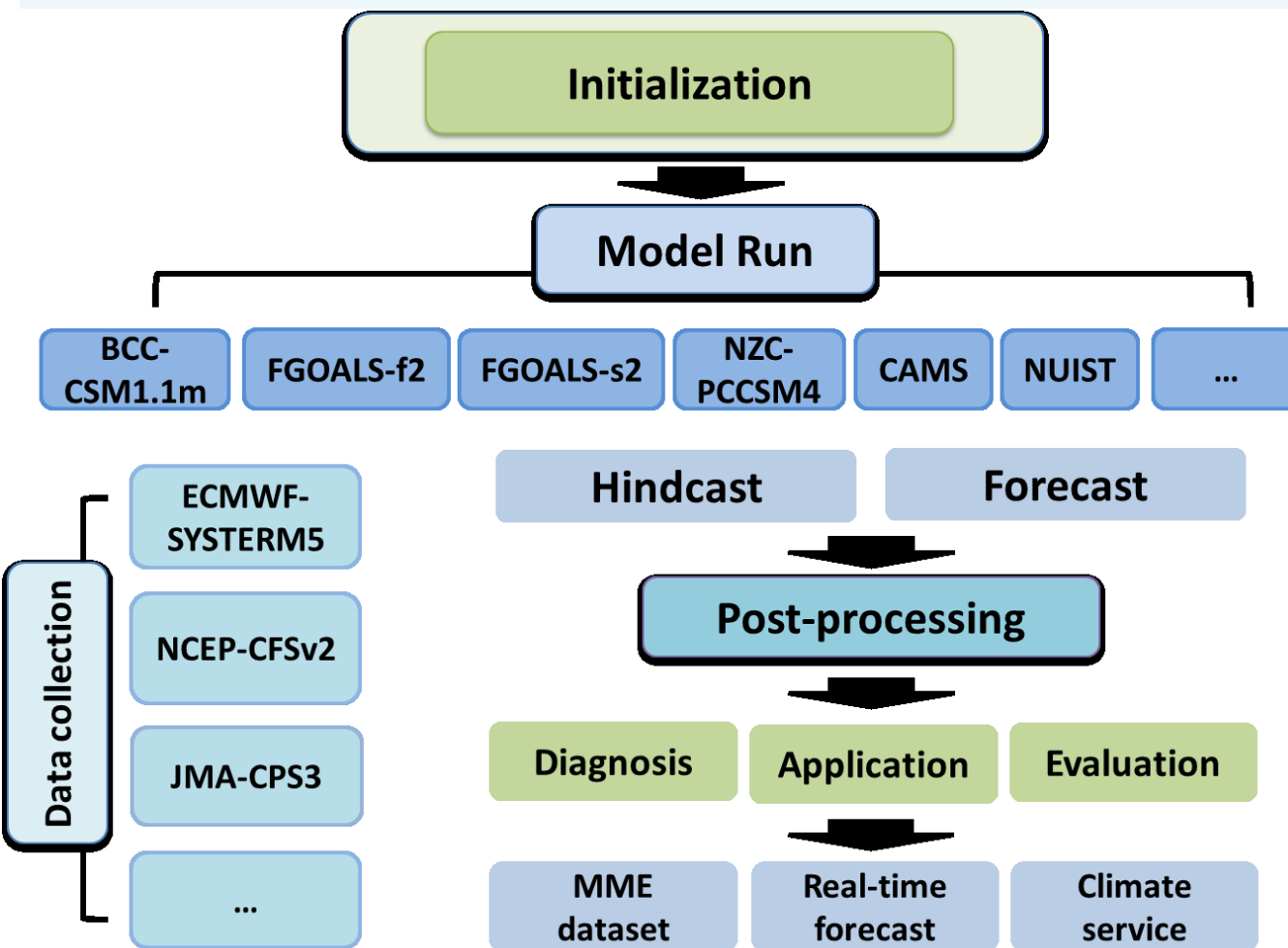
搭建理论框架, 初步建立CMME系统
Build the theory framework, develop
the CMME system

Based on several domestic operationally-run climate models and internationally imported data, Beijing Climate Centre has established the China Multi-model Ensemble Prediction System(CMME). It provides the prediction and verification products of basic climate elements such as temperature and precipitation, as well as the primary climate variability modes.



CMME-S2D Products

CMME-S2D Structure



CMME Models

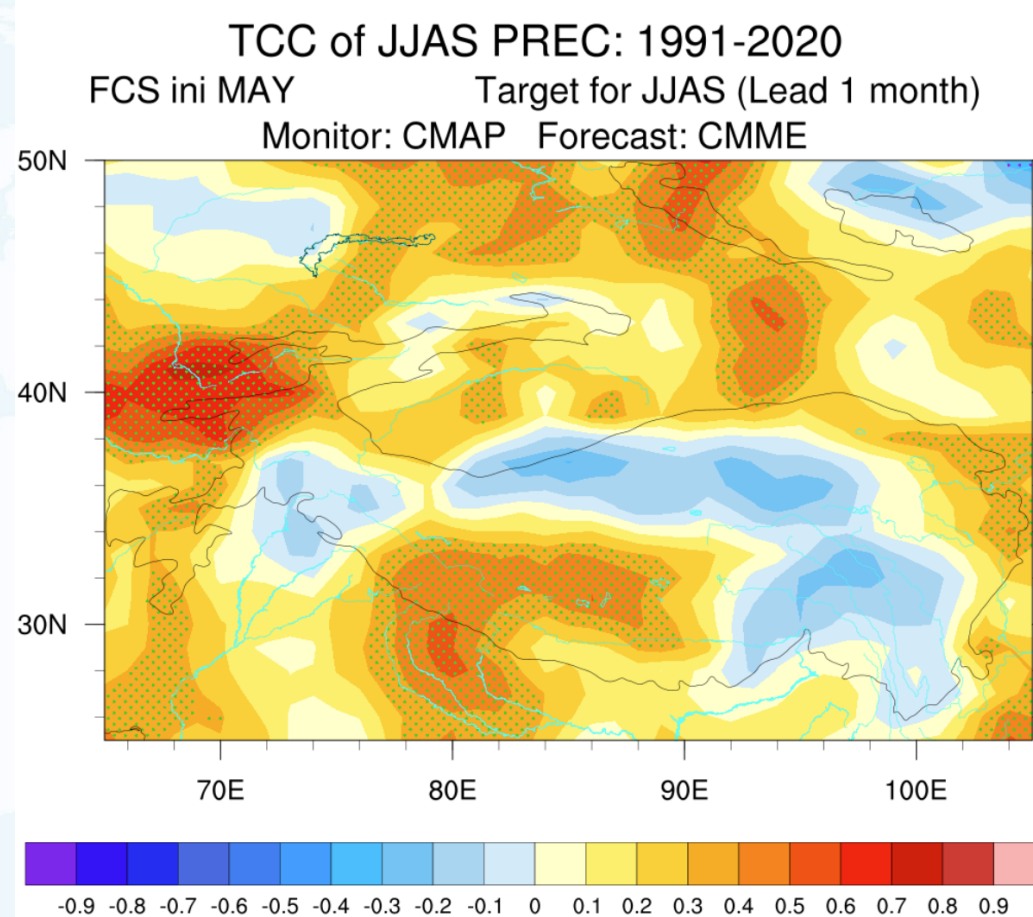
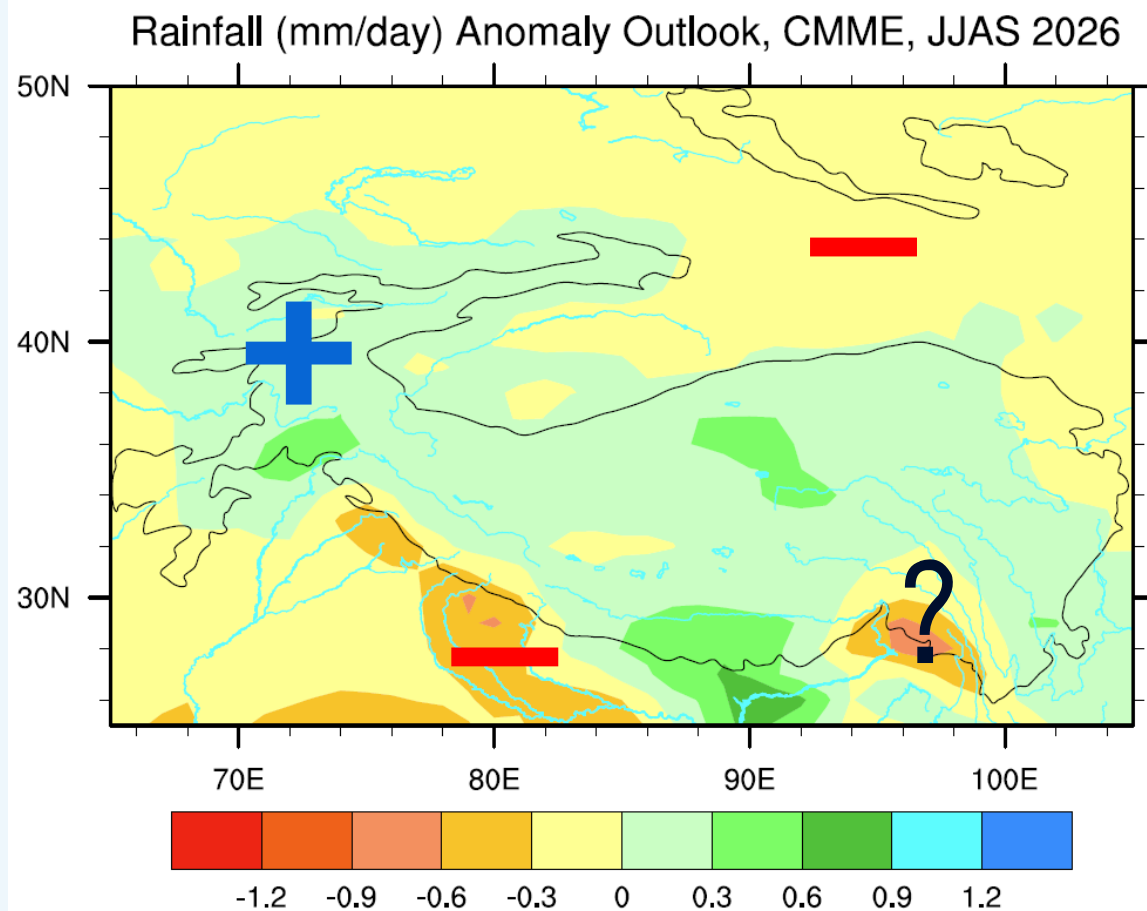
Model	Nation	Institut ion	Relea se	Atms Res	Ocean Res	Ens	Fcs Len (mon)
BCCCS M1.1m	China	BCC	2015	T106, L26	1/3°~30 km, L40	24	13
FGOAL S-f2	China	IAP	2017	1×1, L32	1×1, L50	35	6
FIO- CPSv2	China	FIO	2019	0.9×1.25, L30	1.1×(0.2 7- 0.54),L6 1	10	12
ECMWF- S5	Euro	ECMWF	2017	T319, L91	ORCA 0.25, L75	15	6
NCEP- CFSv2	USA	NCEP	2011	T126, L64	1×1, L40	4	10
JMA- CPS3	Japan	JMA	2022	TL319, L100	0.25 x 0.25, L60	100	6
CAMS	China	CAMS	2020	T106, L31	1×1, L50	8	6
NUIST	China	NUIST	2019	T106, L19	2×2(赤道0.5), L40	9	24
CMACP Sv3	China	CMA	2021	T266, L56	1/4°	20	6-7

CMME-S2D Deterministic Prediction



- Variables: Precipitation Anomaly

Relative to: 1991-2020 IC: May

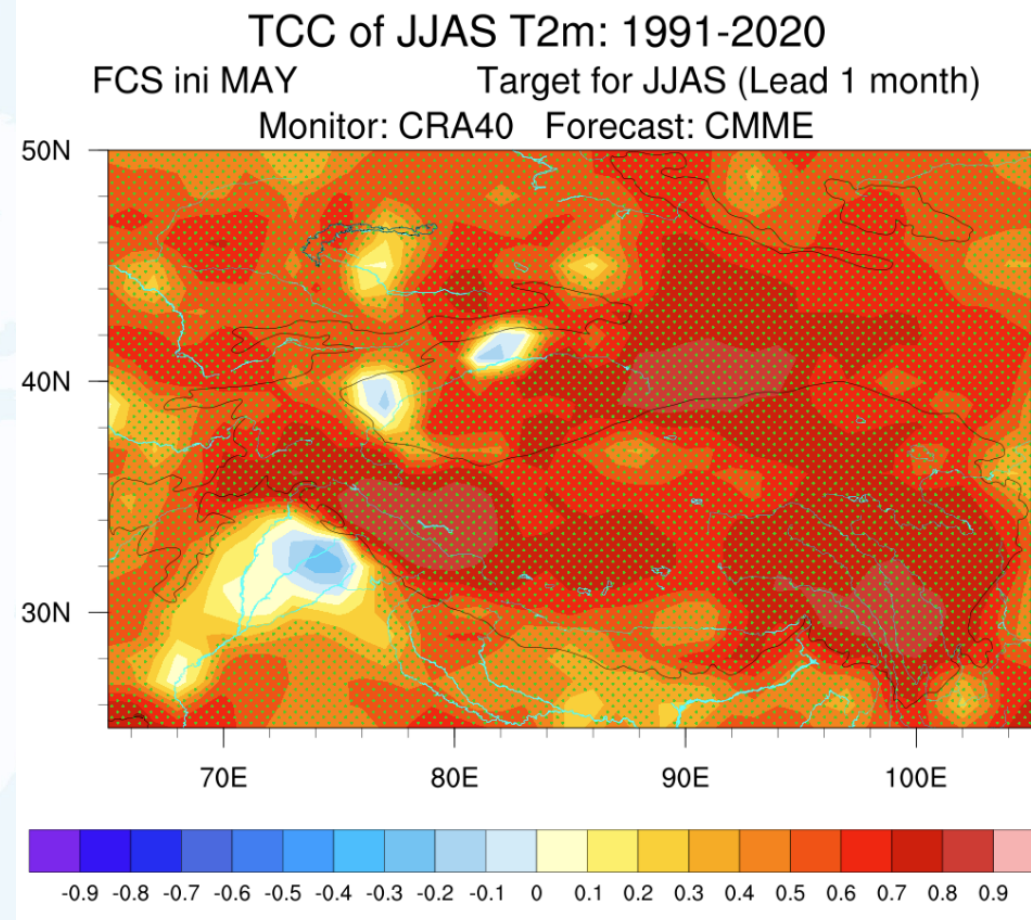
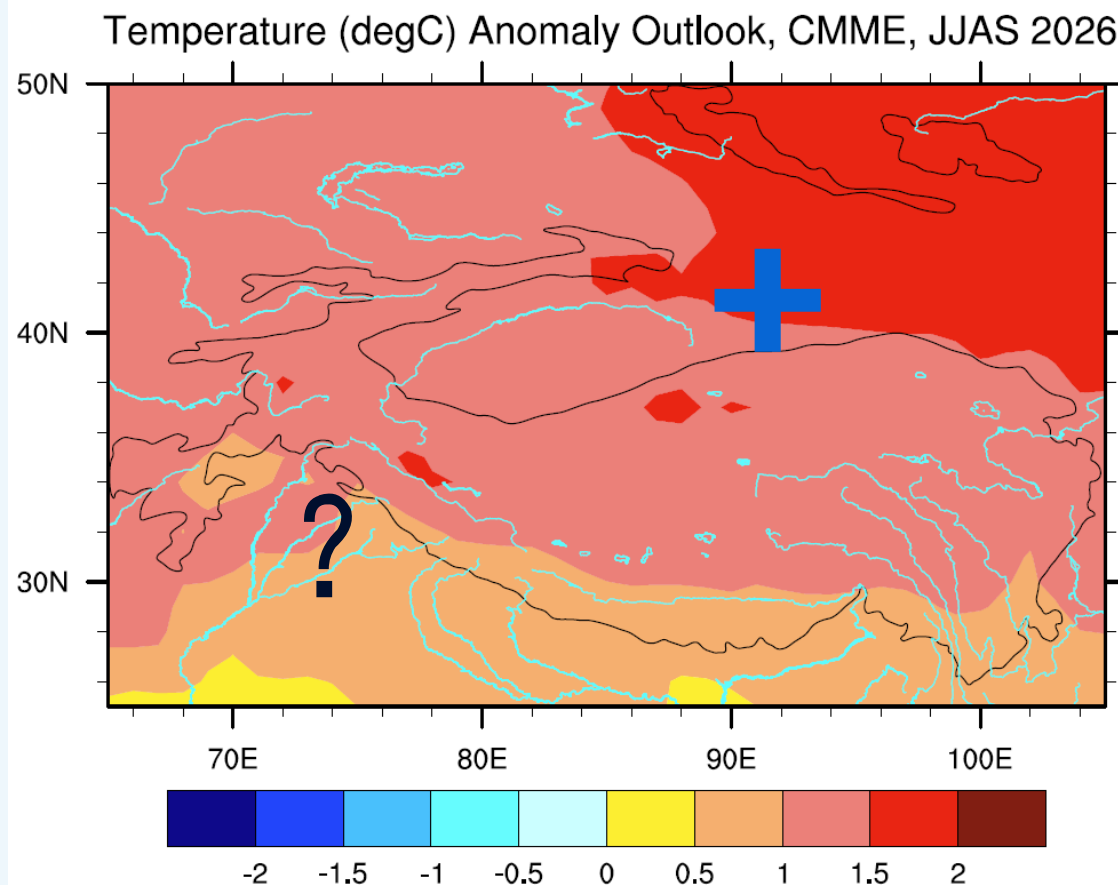


CMME-S2D Deterministic Prediction



- Variables: T2m anomaly

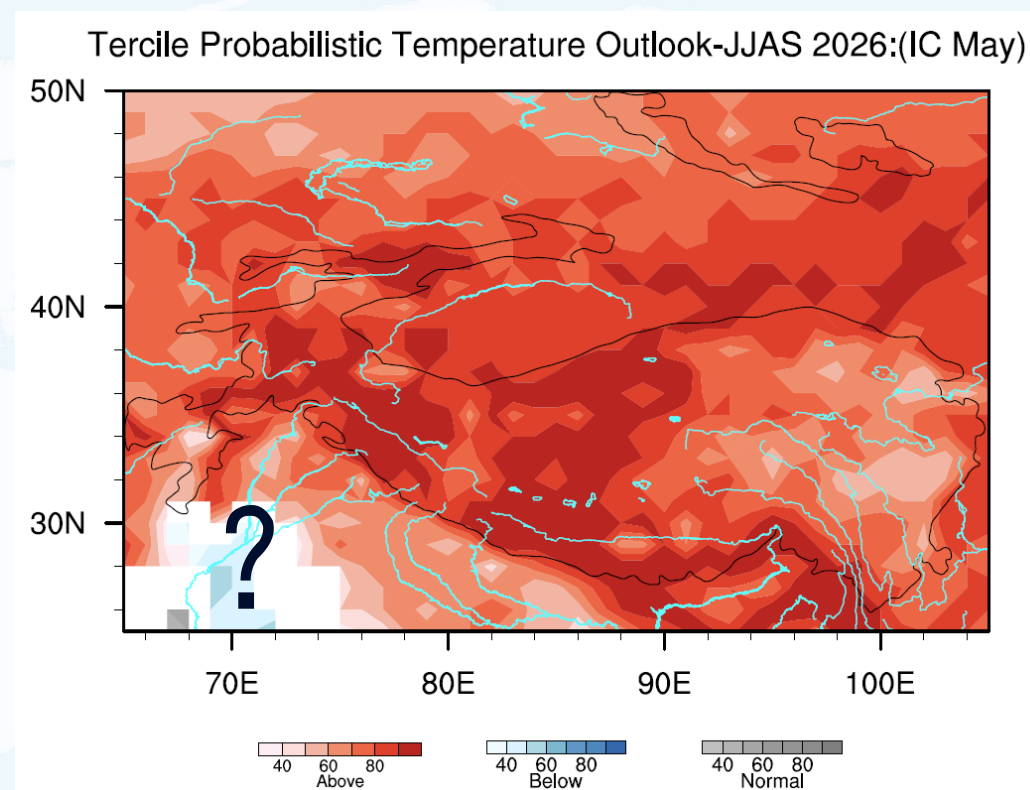
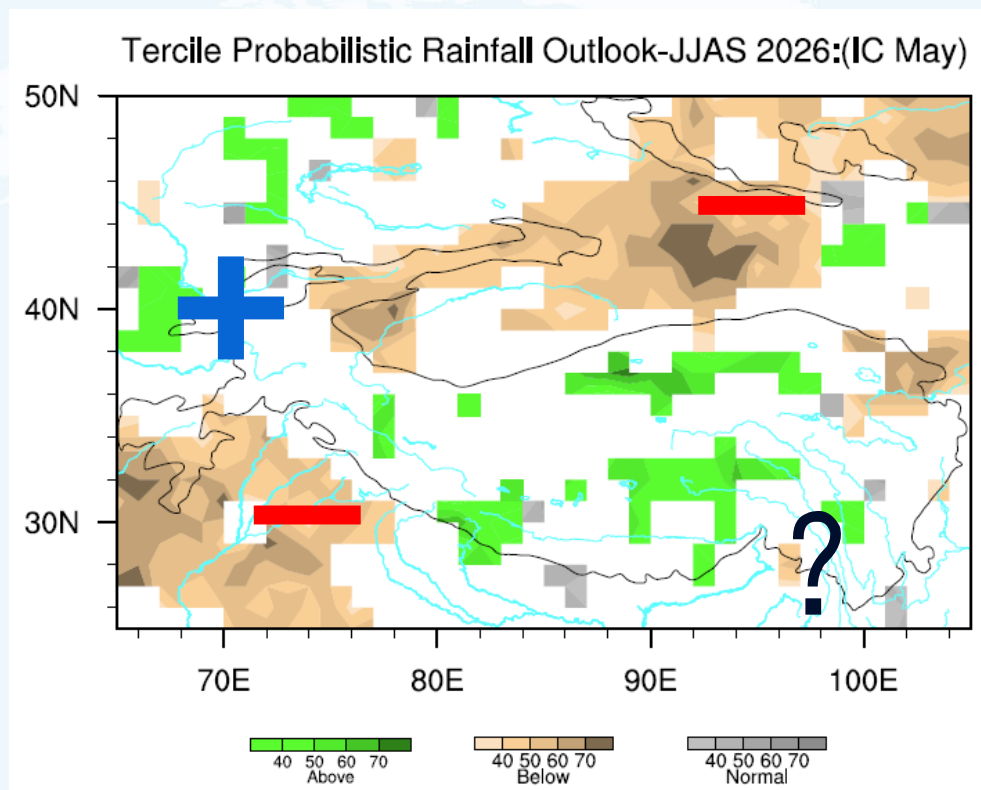
Relative to: 1991-2020 IC: May



CMME-S2D Probabilistic Prediction



- **Variables:** Precipitation, T2m **Relative to:** 1991-2020 **IC:** May





Take-home Messages



Outlook

- Above-normal precipitation is expected over most of the TPCR. Normal to below-normal precipitation is predicted in the southwestern and northeastern TP region.
- SAT during JJAS 2026 is expected to above normal across most parts of the TP region, with the highest anomalies anticipated over the northeastern TP region.





Thanks