Chiba Campaign Daily Report

2025 7/25

M2 溝渕 隼也

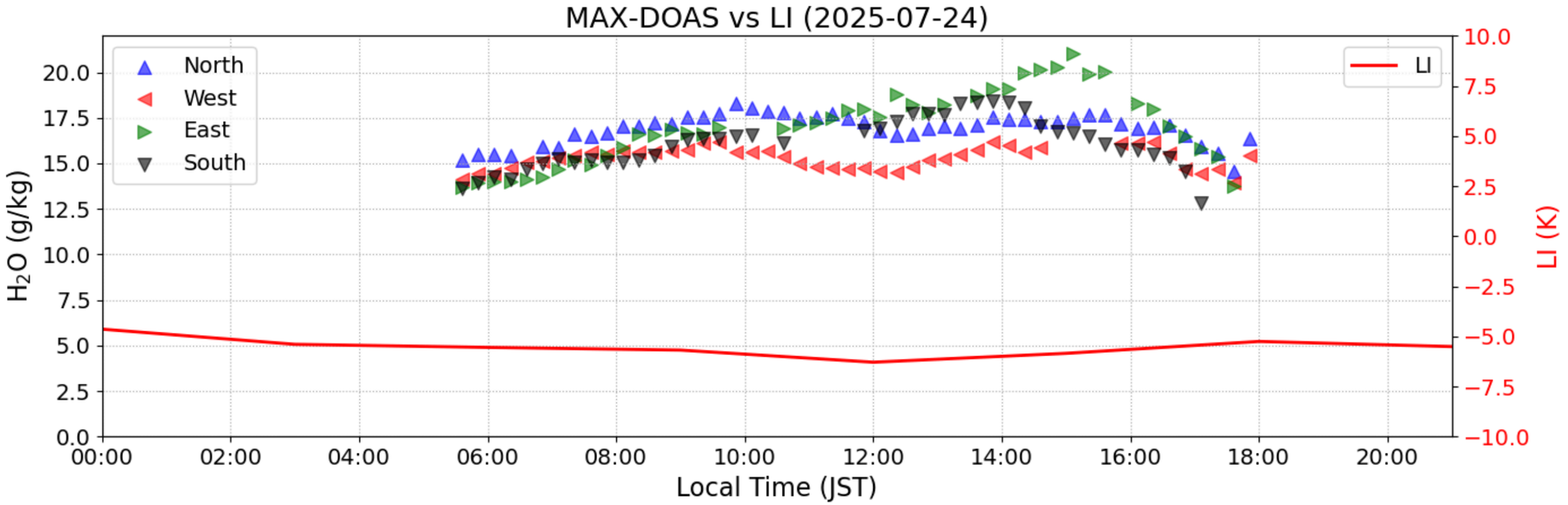
千葉キャンペーン2025で目指すこと

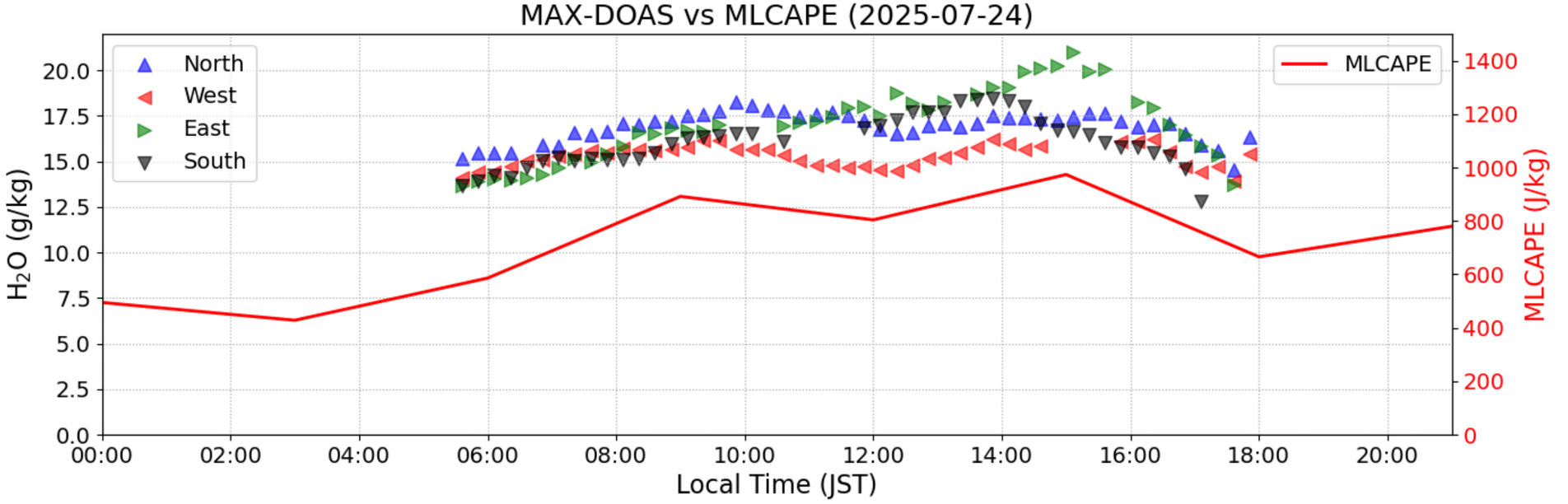
①（これまでの直感と反する）面白い現象を
捉えたい！その時に何が起こっている？

②MAX-DOASが捉える不均一性と大気の
不安定指数・降水現象との関連をみたい！

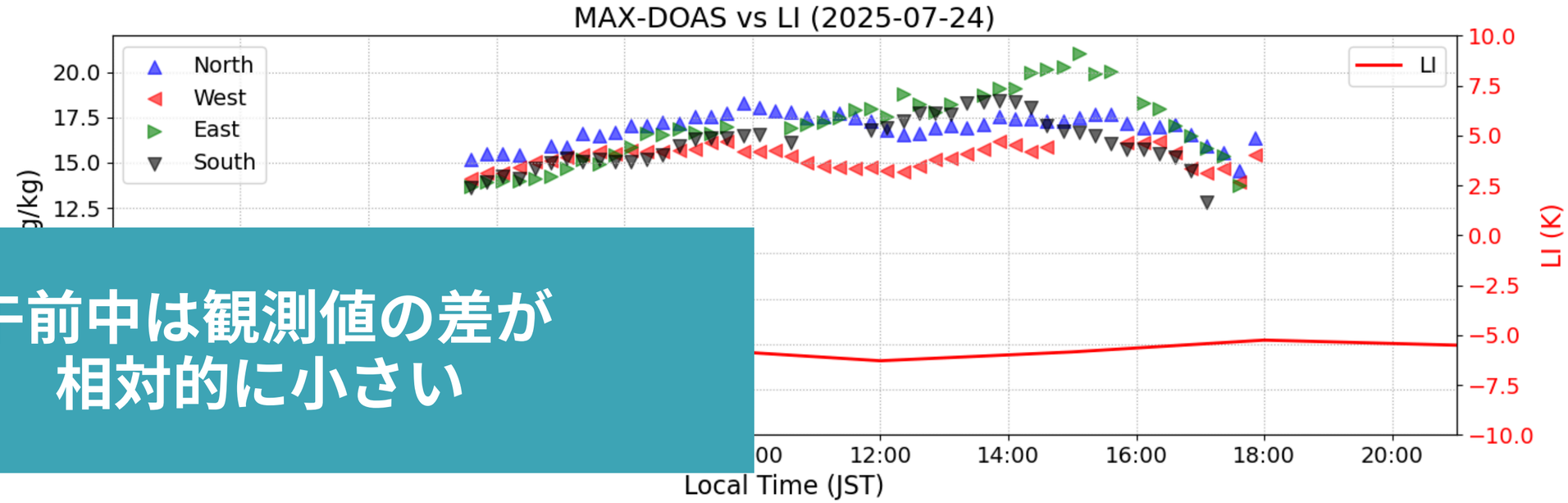
③そこで表現されている不均一性が
MSMでどの程度表現できている？

7/24の時系列はどうだった？

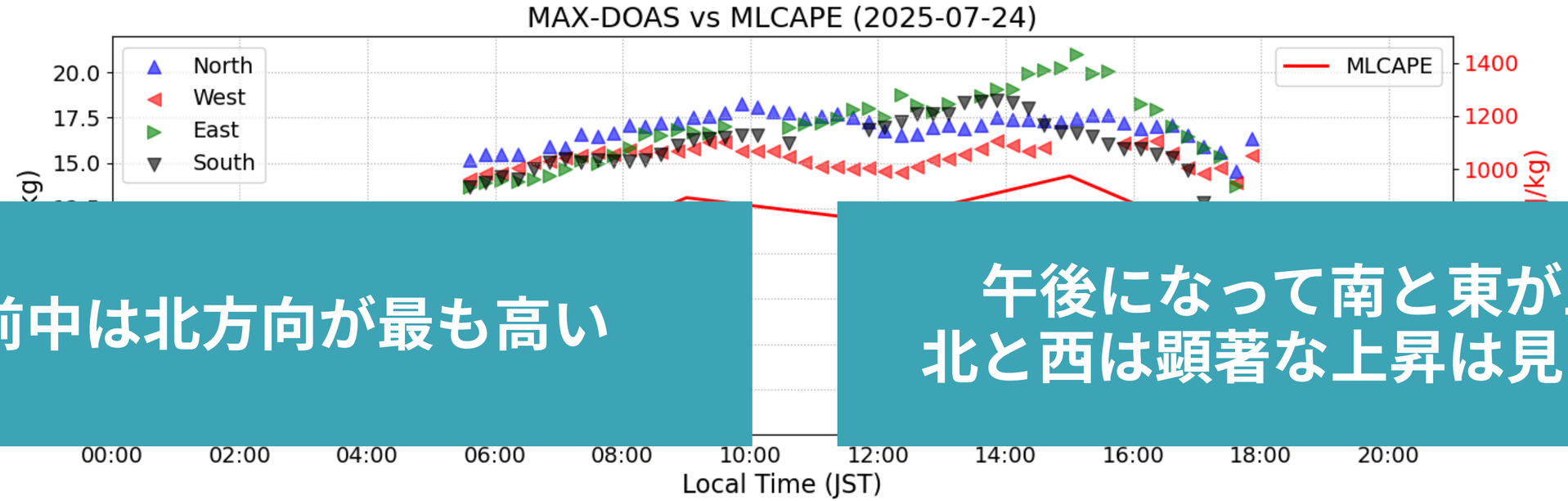




7/24の時系列はどうだった？



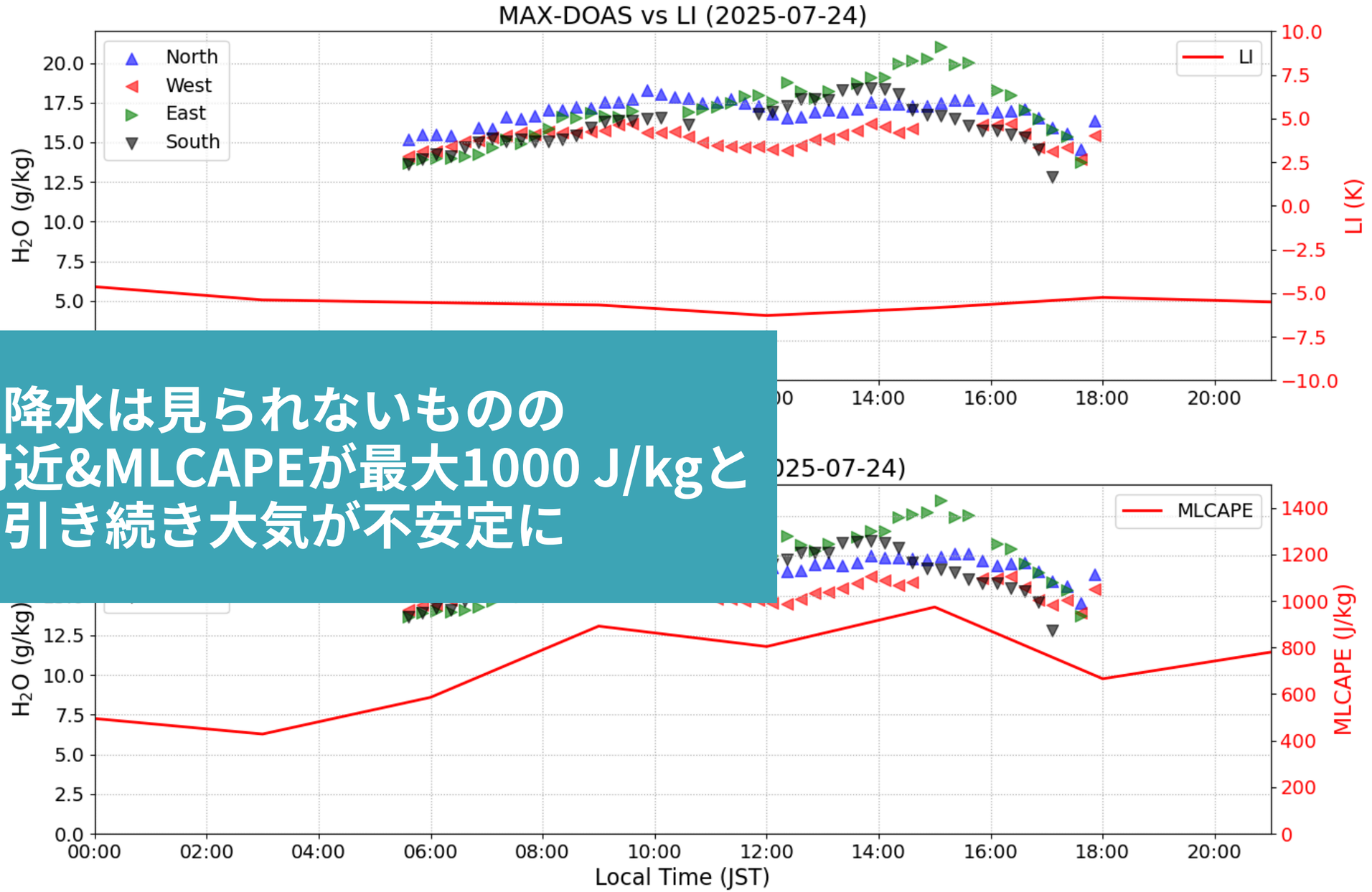
午前中は観測値の差が
相対的に小さい



午前中は北方向が最も高い

午後になって南と東が上昇
北と西は顕著な上昇は見られず

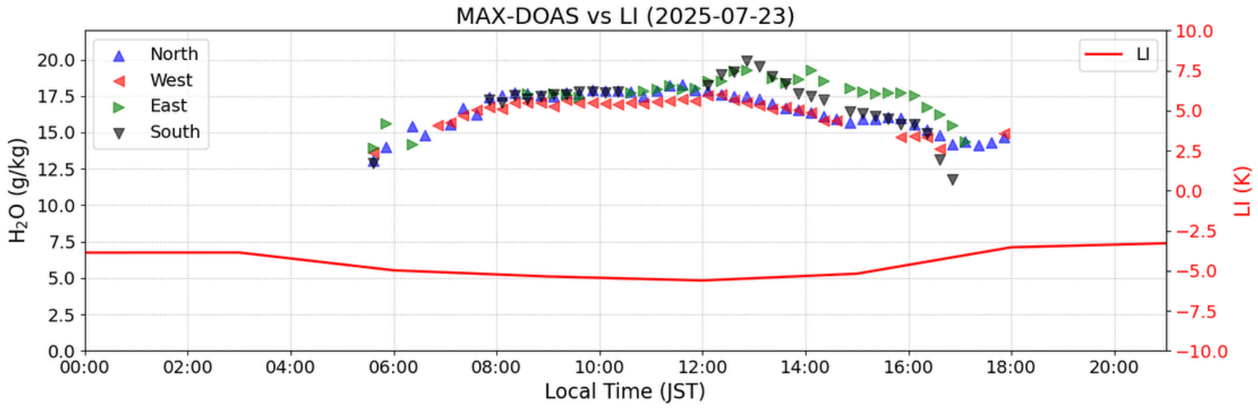
7/24の時系列はどうだった？

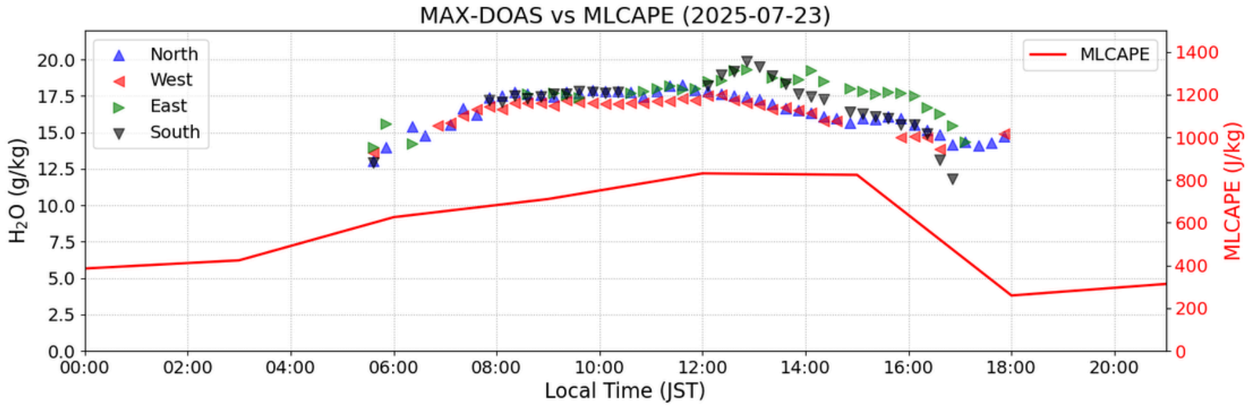


降水は見られないものの
LIが-5付近&MLCAPEが最大1000 J/kgと
引き続き大気が不安定に

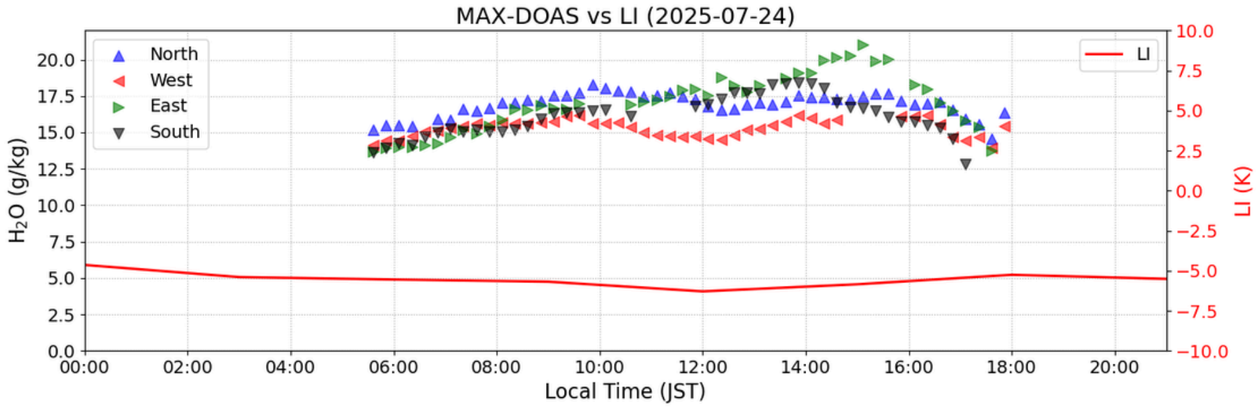
7/23と7/24の比較

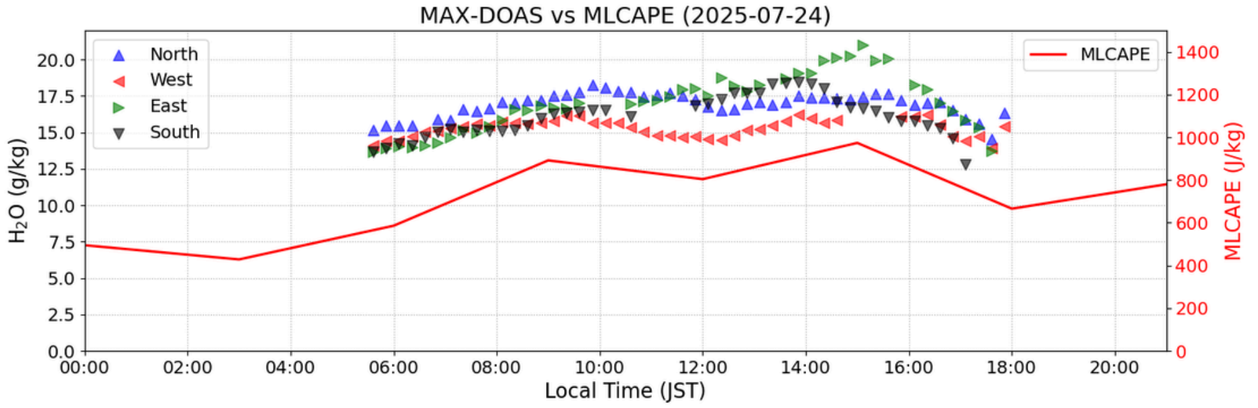
7/23





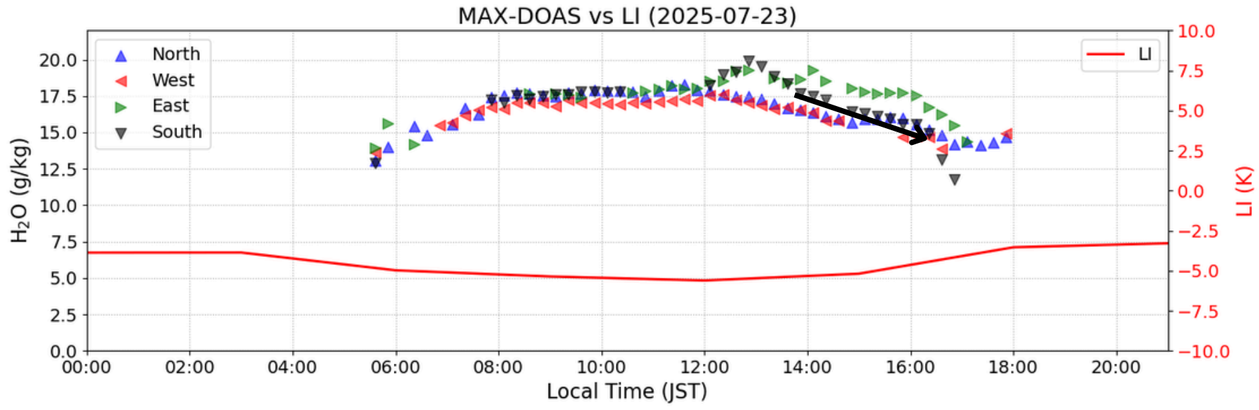
7/24

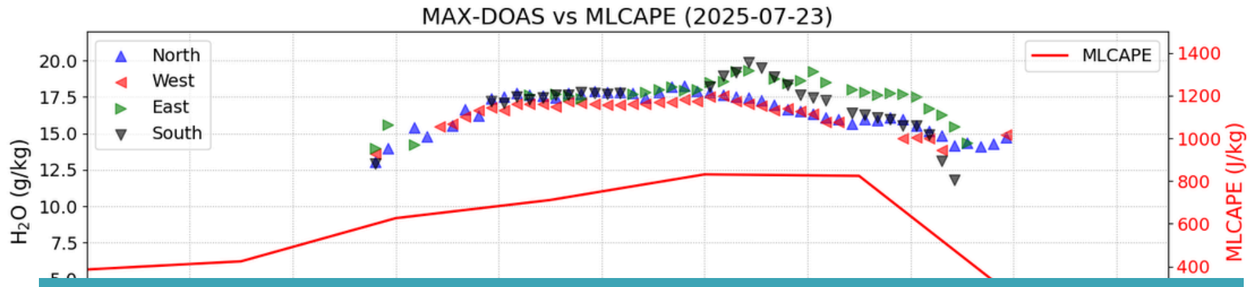




7/23と7/24の比較

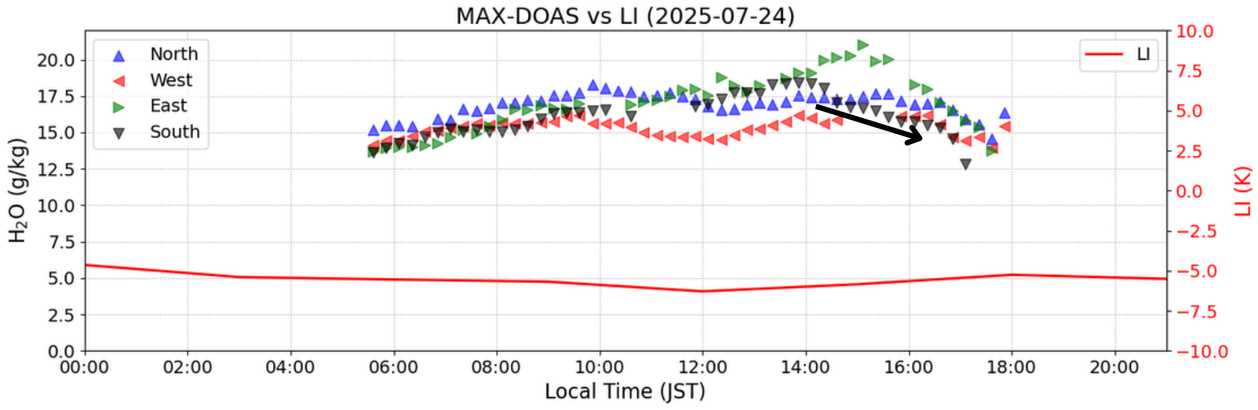
7/23

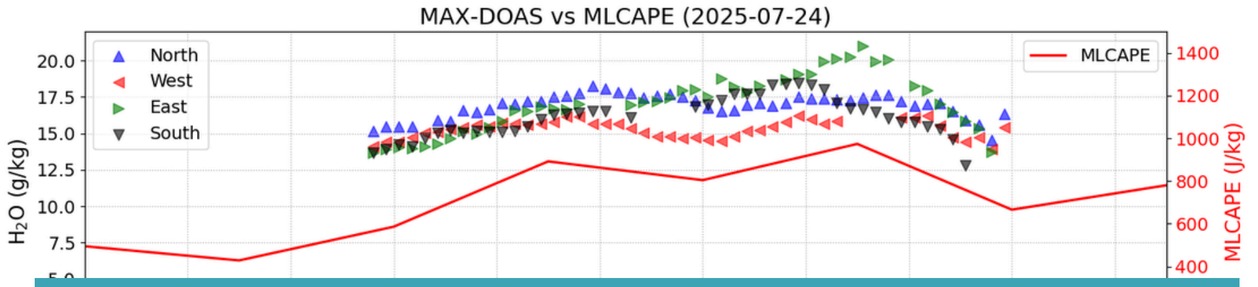




両日ともトレンドが似ている

7/24



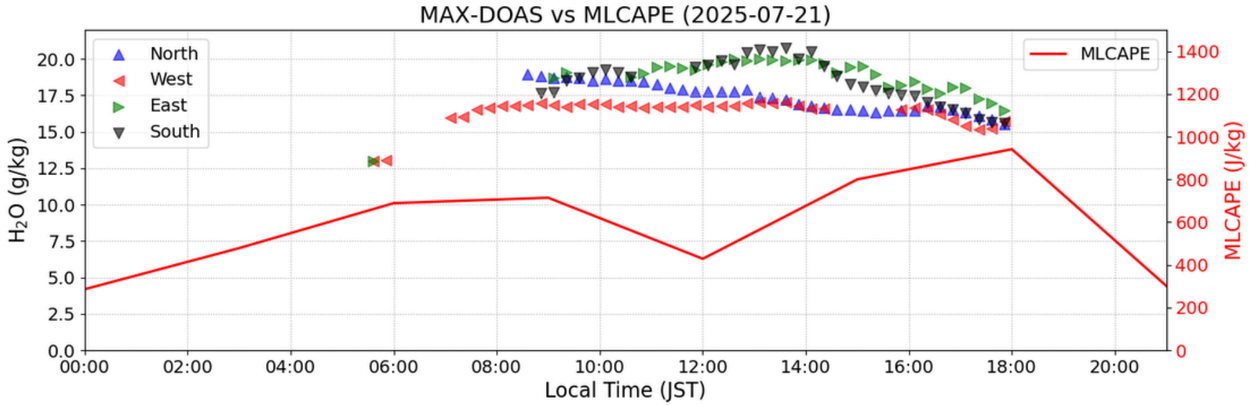


午後東と南が高くなって
南が先に観測値が低くなる傾向

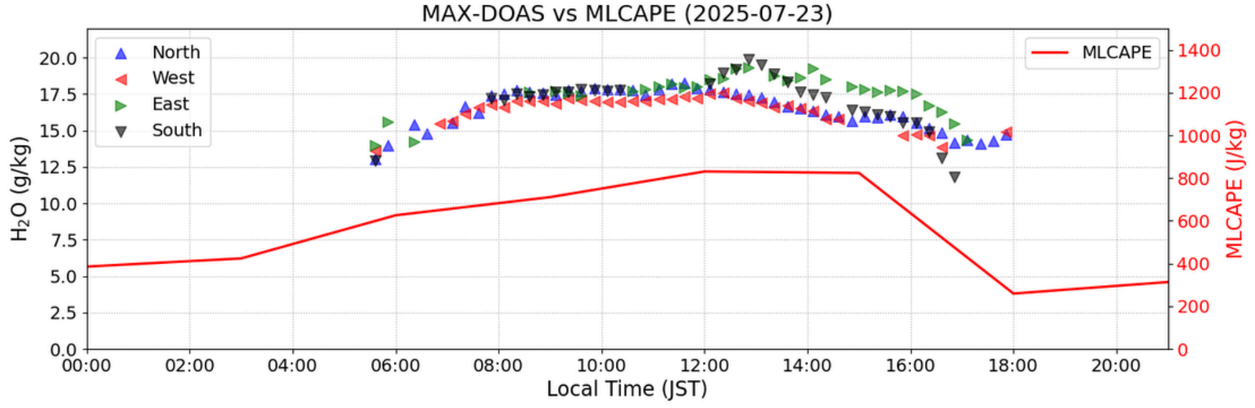
キャンペーン期間で3度目のトレンド

午後東と南が高くなって
南が先に観測値が低くなる傾向
🤔風向？気温？

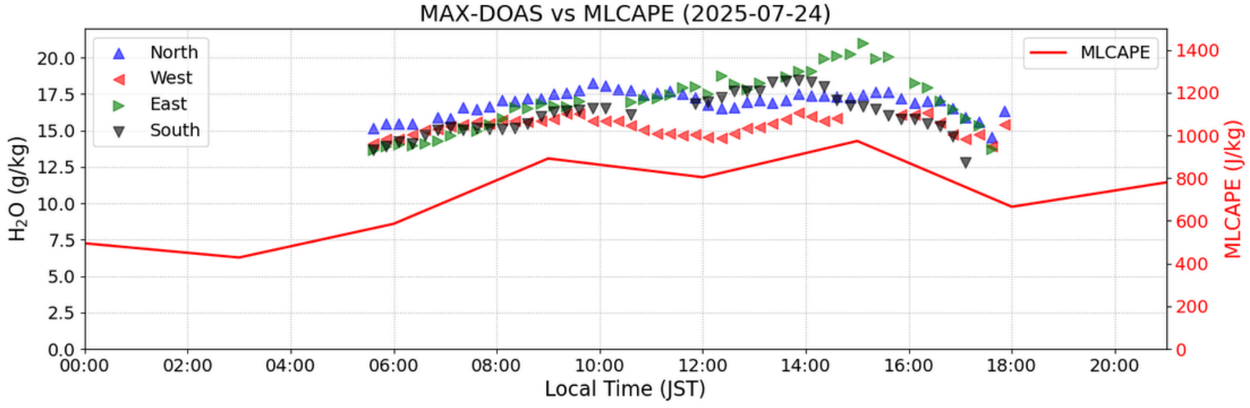
7/21



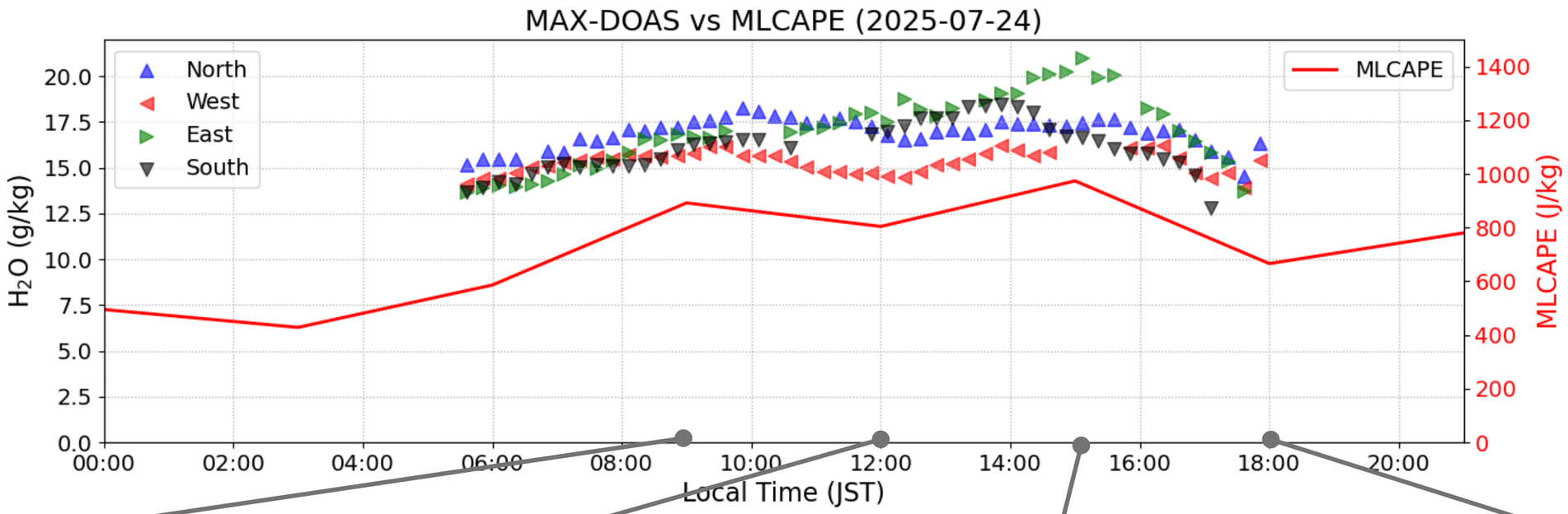
7/23

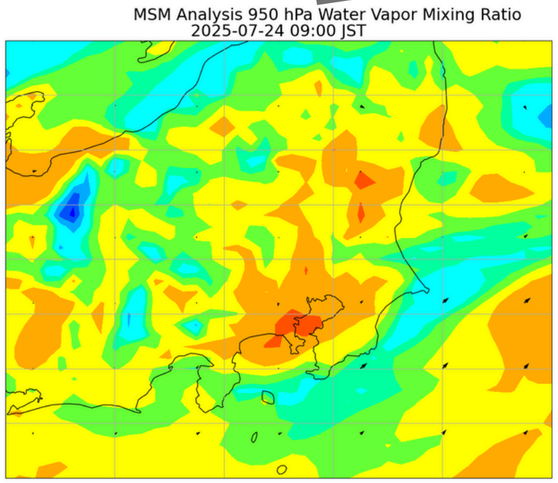


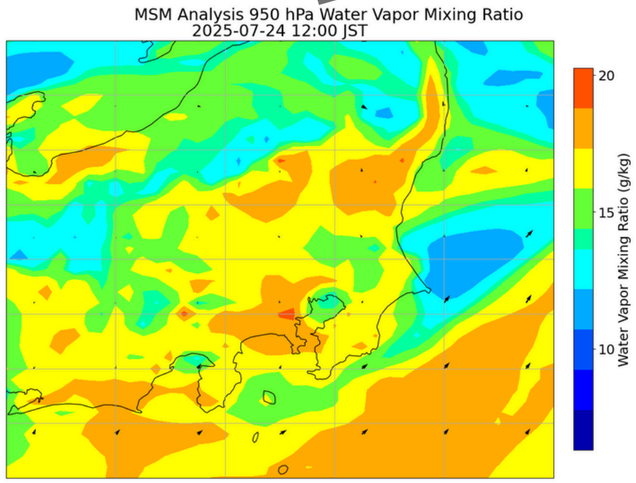
7/24

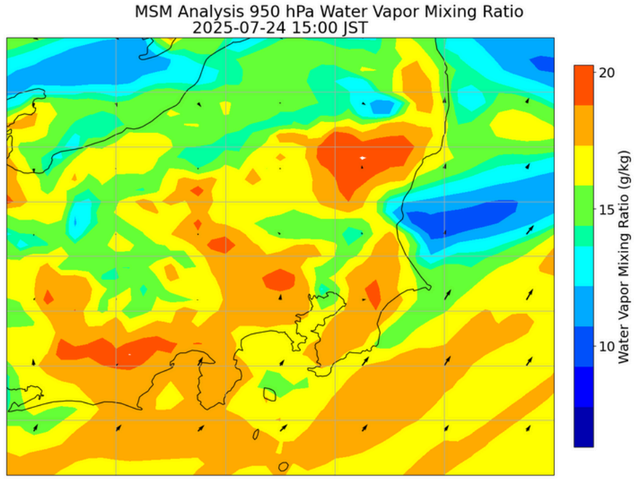


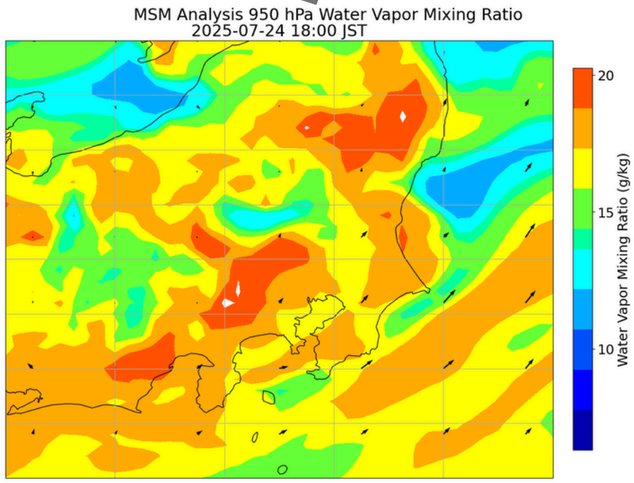
7/24の時系列とMSMの比較











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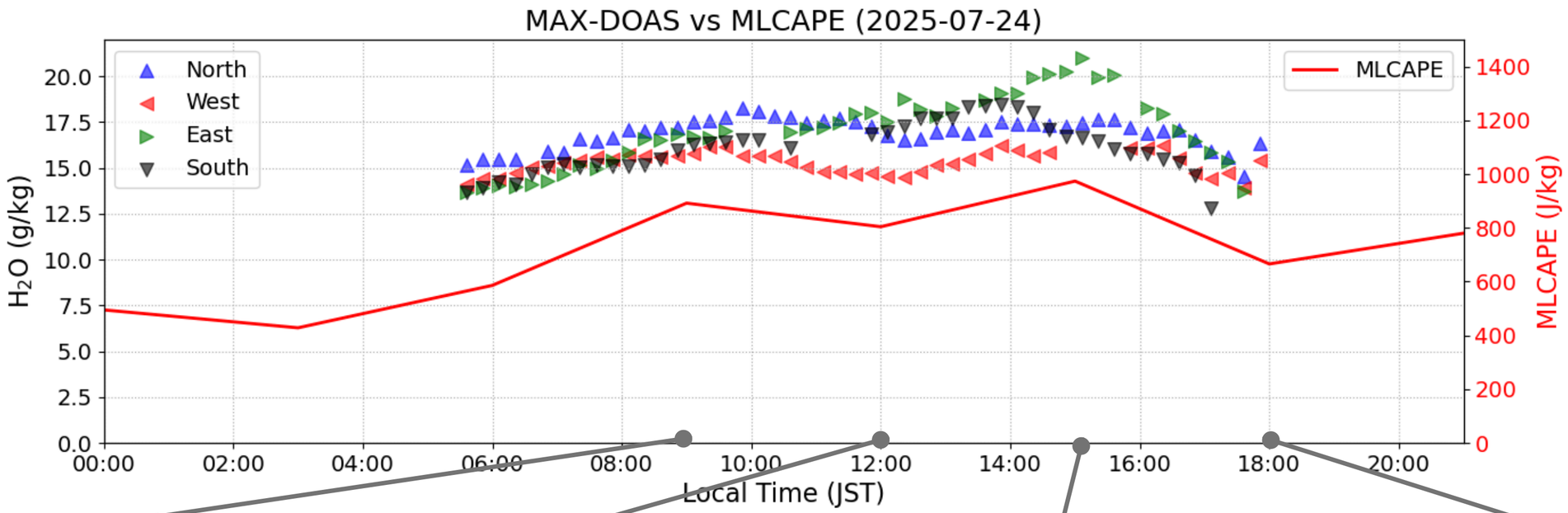
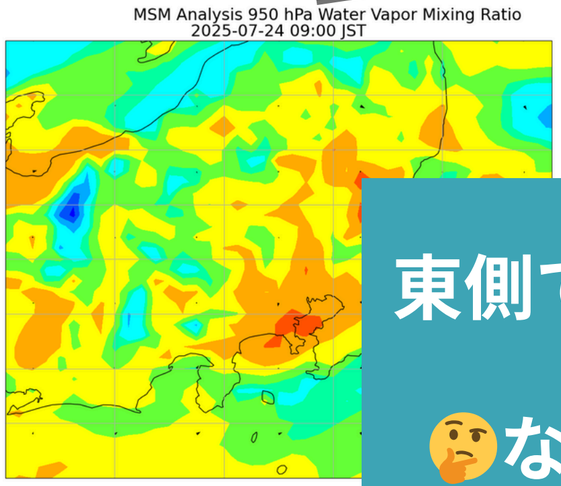
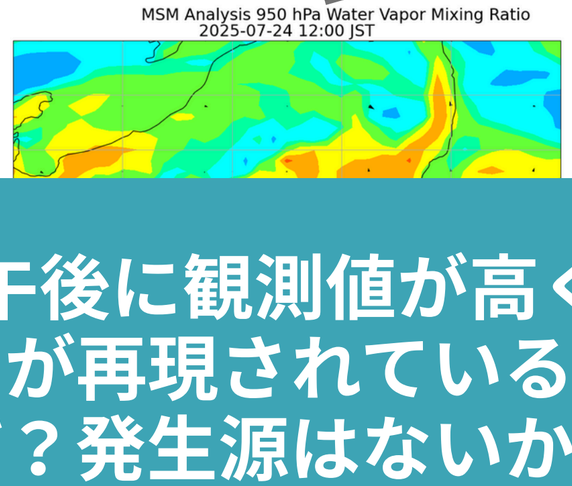
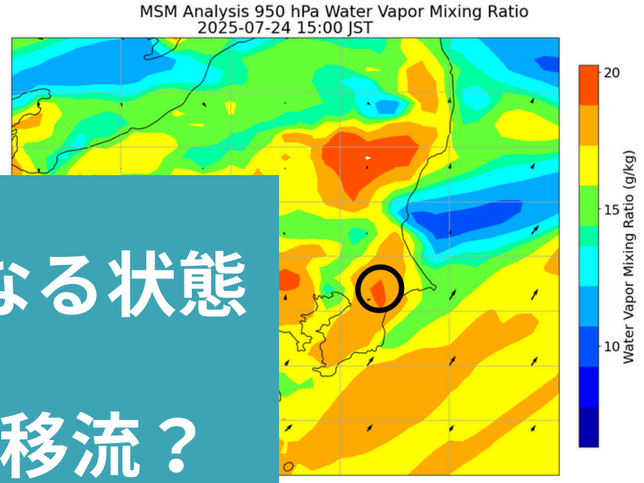
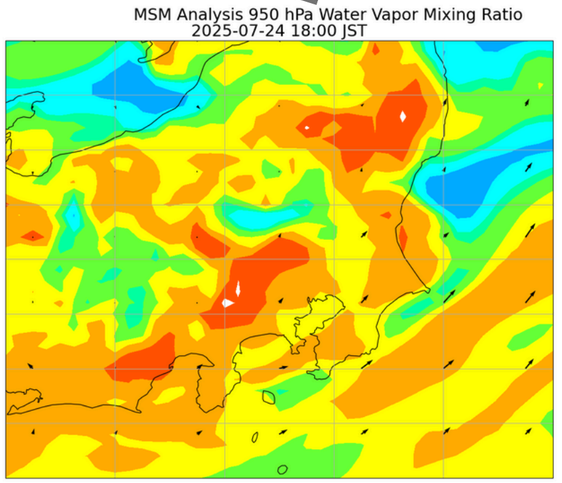




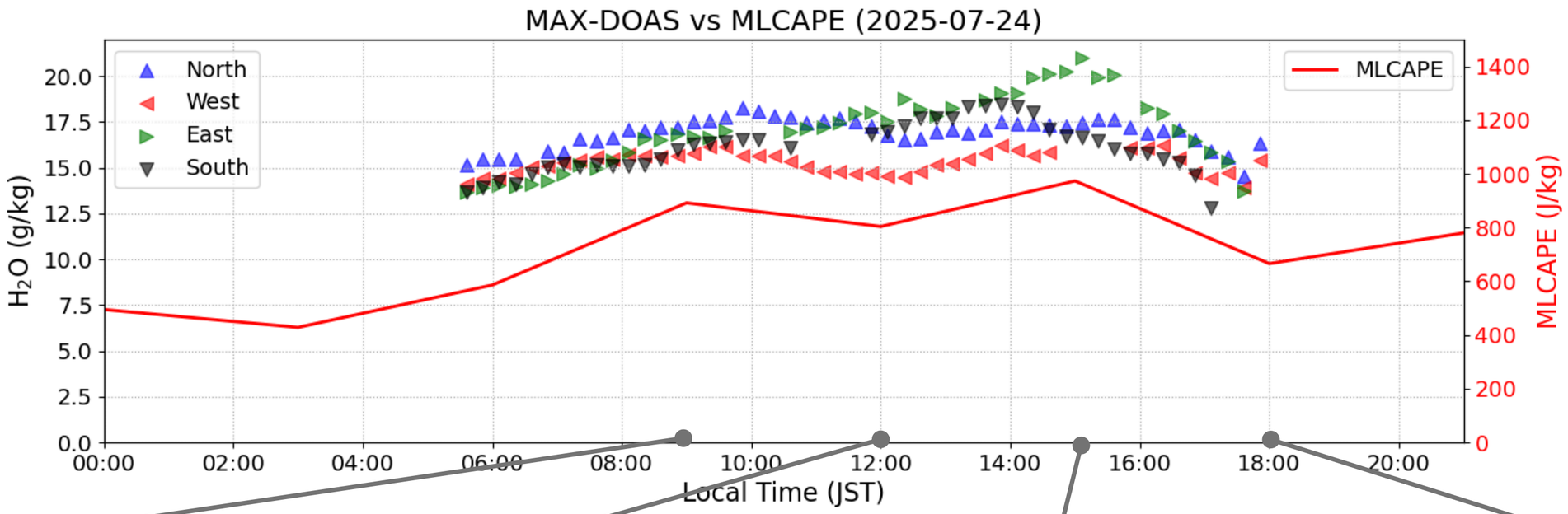


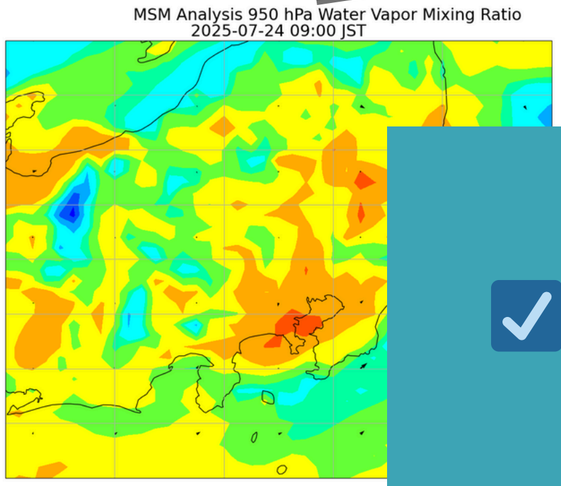


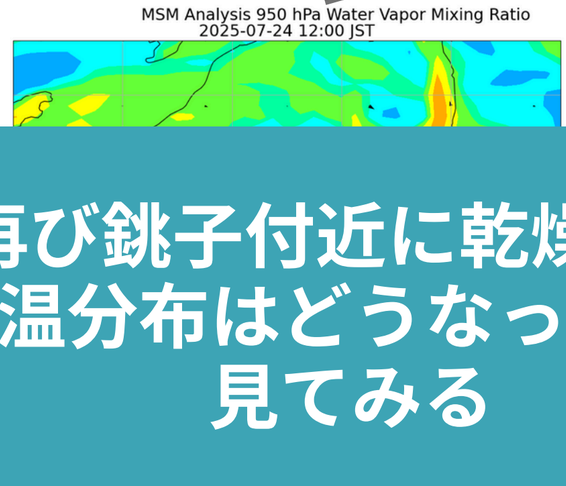


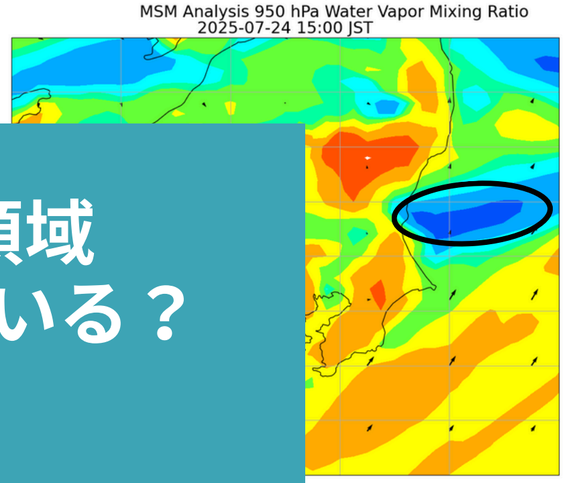
東側で午後に観測値が高くなる状態が再現されている！
🤔なぜ？発生源はないから移流？

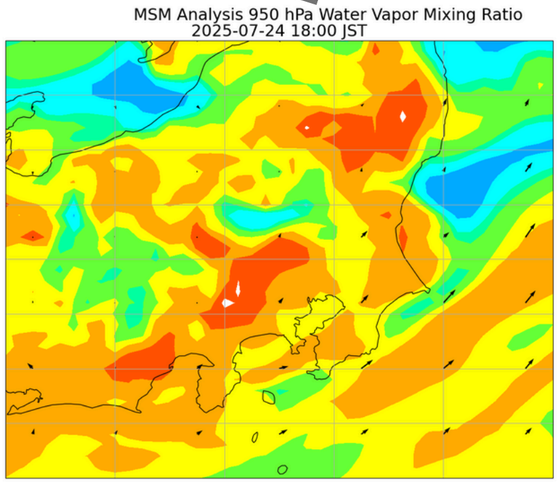
7/24の時系列とMSMの比較





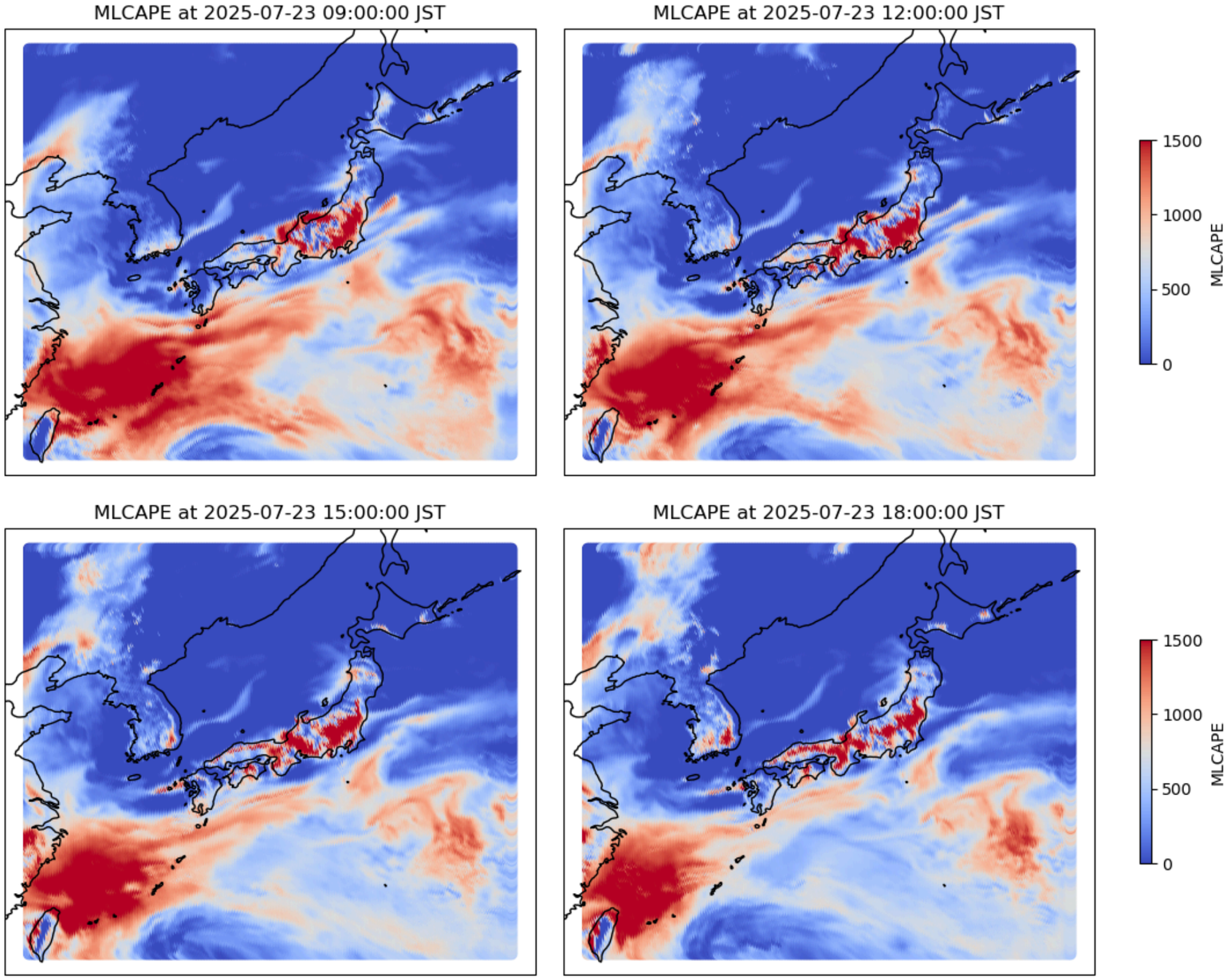






再び銚子付近に乾燥領域
☑気温分布はどうなっている？
見てみる

7/23：MLCAPEの面的分布計算



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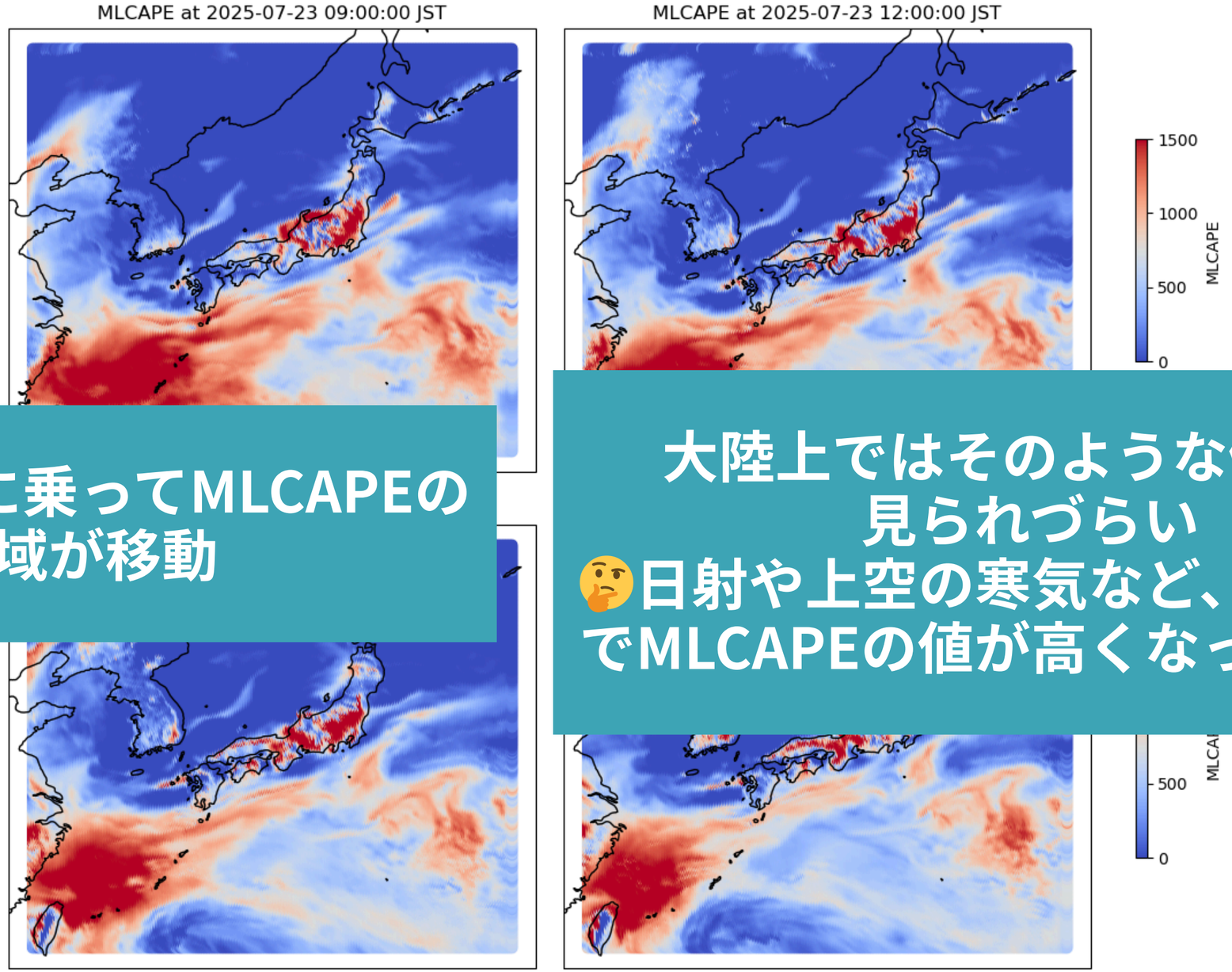
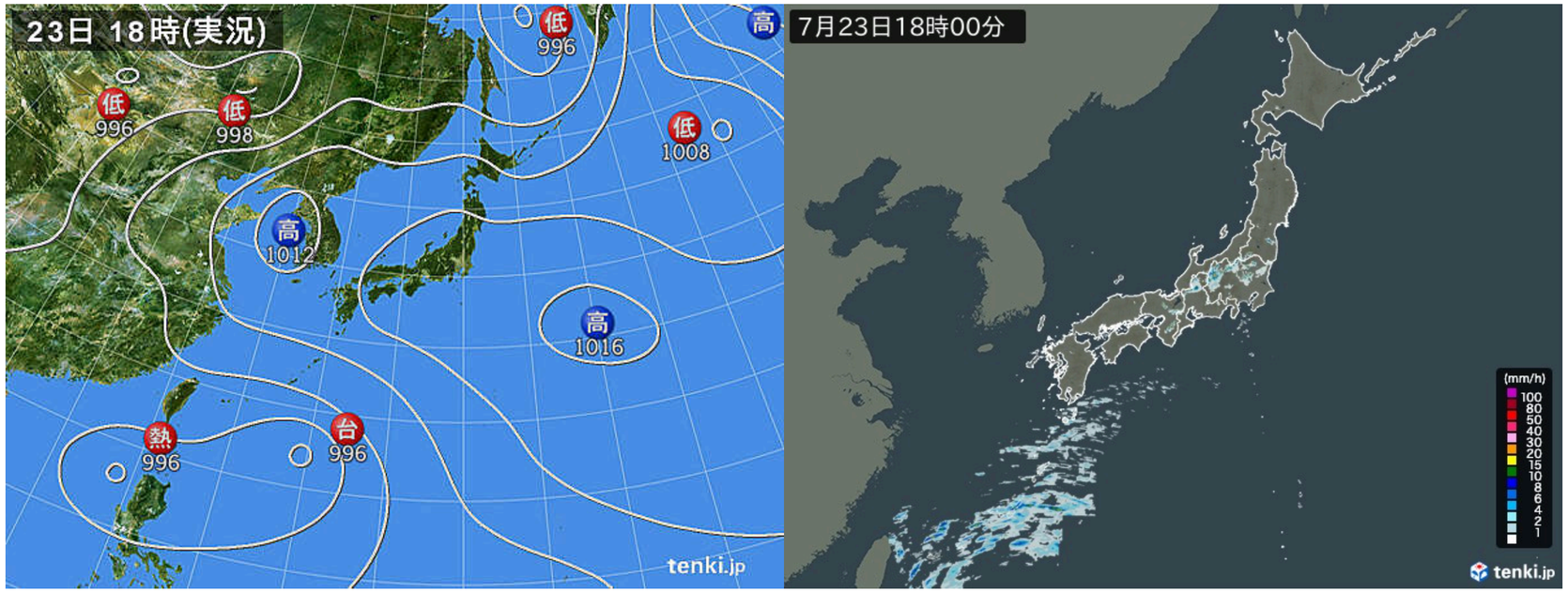


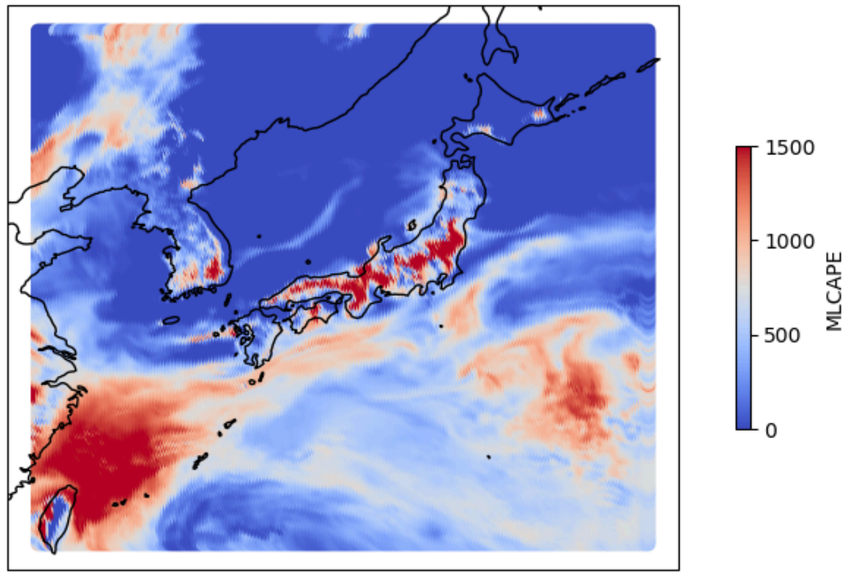
海上は風の流れに乗ってMLCAPEの高い領域が移動

大陸上ではそのような傾向が見られづらい
🤔日射や上空の寒気など、別の要因でMLCAPEの値が高くなっている？

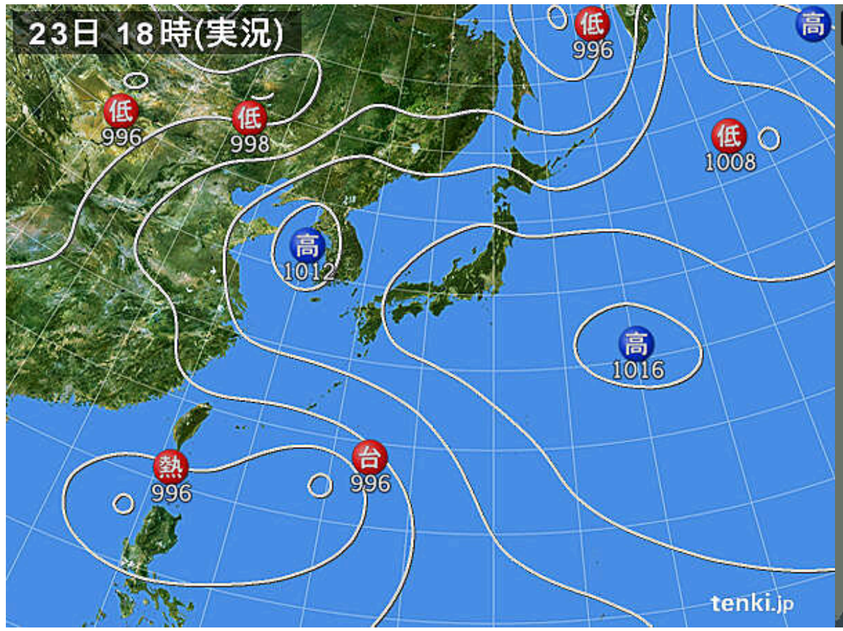
7/23 18時のMLCAPEの面的分布と天気図比較

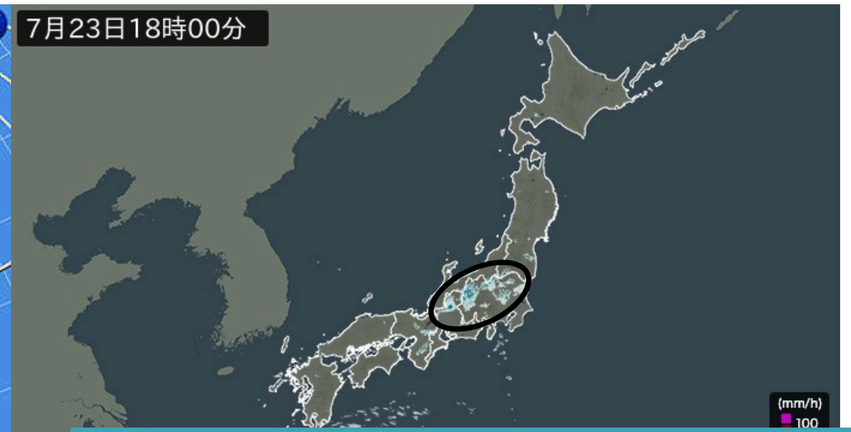


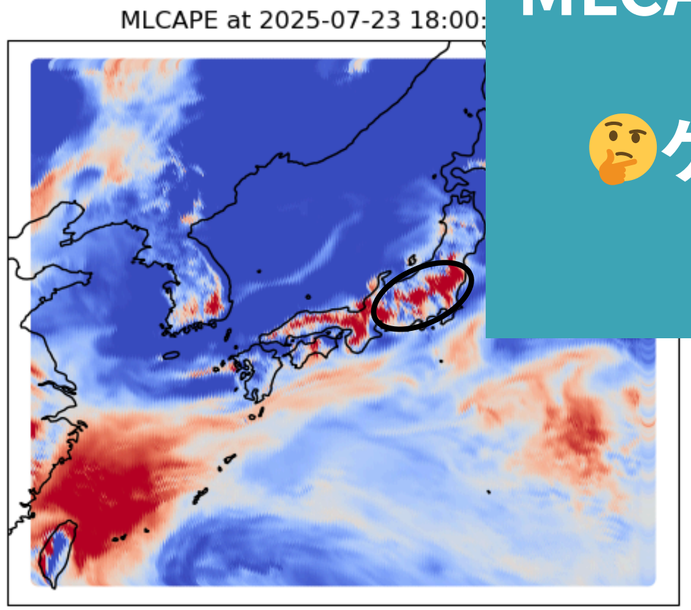
MLCAPE at 2025-07-23 18:00:00 JST



7/23 18時のMLCAPEの面的分布と天気図比較

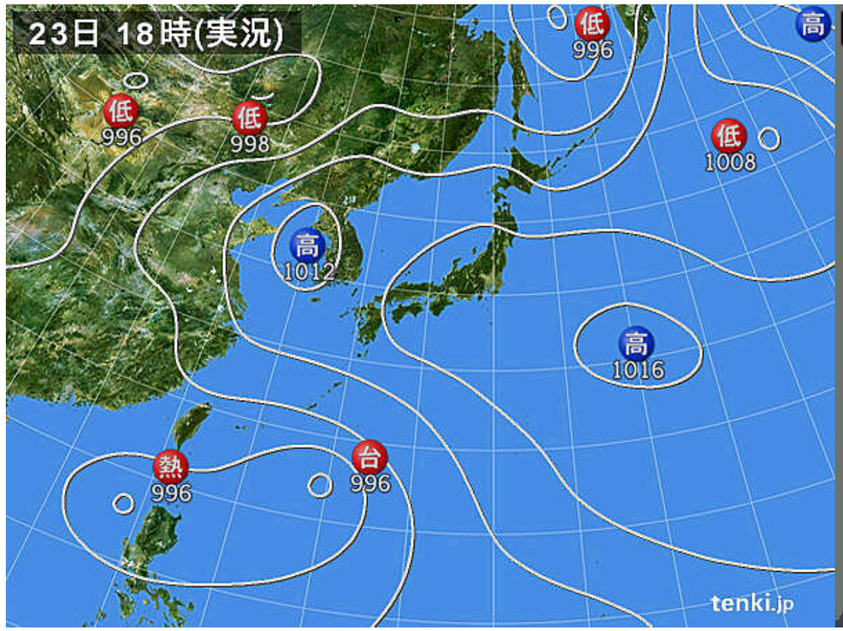




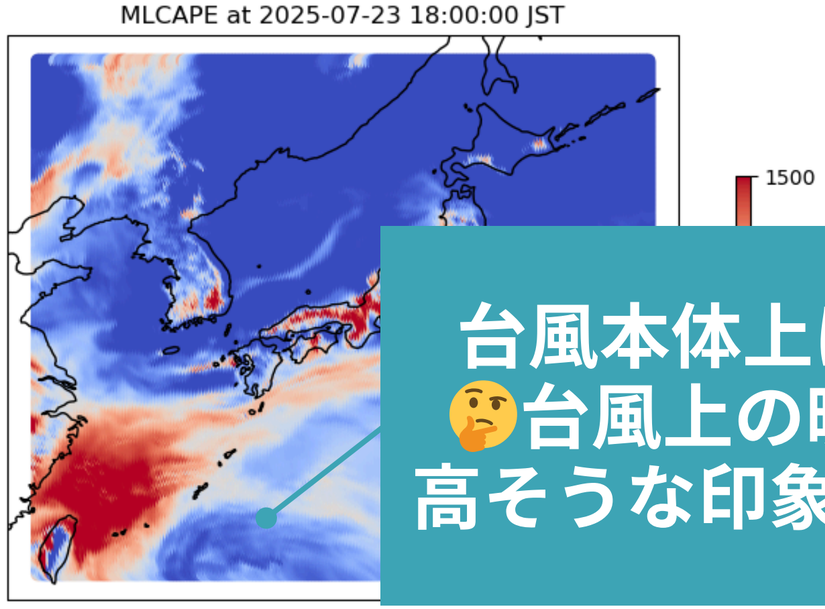


降水がある領域はMLCAPEが高い
MLCAPEが高い領域に降水があるとは限らない
🤔ゲリラ豪雨・雷予報の情報と似た計算をしている？

7/23 18時のMLCAPEの面的分布と天気図比較



MLCAPEの分布と等圧線は
一致していない



台風本体上はMLCAPEは500未満
🤔台風上の暖気核ではMLCAPEが
高そうな印象だった、直感と異なる