

6.12 Development of a LSTM-based Seasonal Prediction Model of Rainy Precipitation over Indochina Peninsula



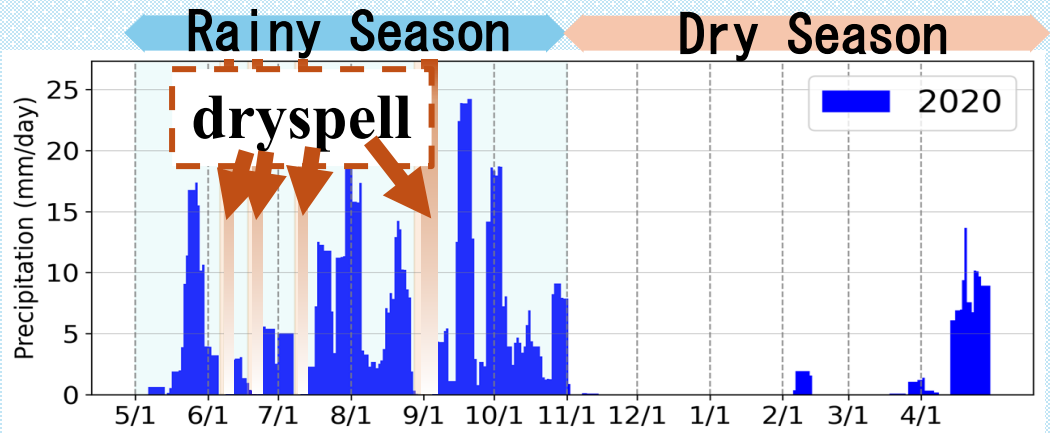
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Background

• Rainfed agriculture is widely distributed in Thailand, and rainfall forecasting is essential.

→ In Northeast Thailand, the irrigation rate is 18.6%!!!!

• **Dry spells** occur during the rainy season when rainfall ceases.



7-day moving average of surface rainfall in Roi Et province

- Development of a model for predicting weekly accumulated precipitation one month ahead using **deep learning**.
- To identify the **factors involved in the decrease of rainfall** in Thailand.

Target area

Indochina Peninsula, 3 monitoring Area

Data

JRA-55 (Rainfall), GCOM-W (SST)

Results

