



# Refining Climate Analogies for Rainfall Extremes: A Multi-scale Approach Using High-resolution Satellite Data

Sung-Che Lin<sup>1</sup> , Li-Pen Wang<sup>1</sup>

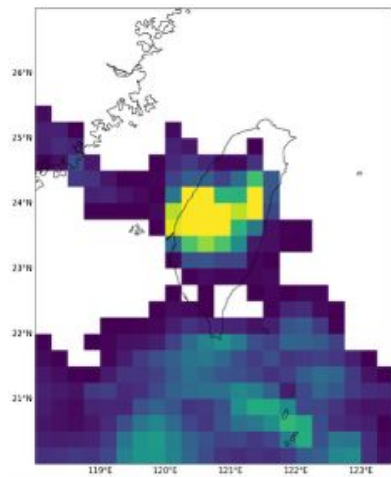
<sup>1</sup>National Taiwan University



NTU  
CompHydroMet Lab

# Problems: The Resolution Scale Gap

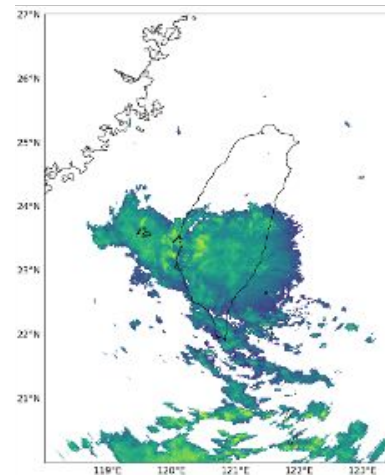
Coarse ( ERA5, 25 km)



*Analogy search ?*

*How to get localized info*

Fine (Radar, 1 km)



***Local Detail Is Key for Accurate Disaster Risk Estimation !***

# Methods

*Solution: Add km-scale Satellite Data to provide local detail information !*

**Our Multi-Scale Approach Steps:**

