A Discussion on TS. Wipha (1907)

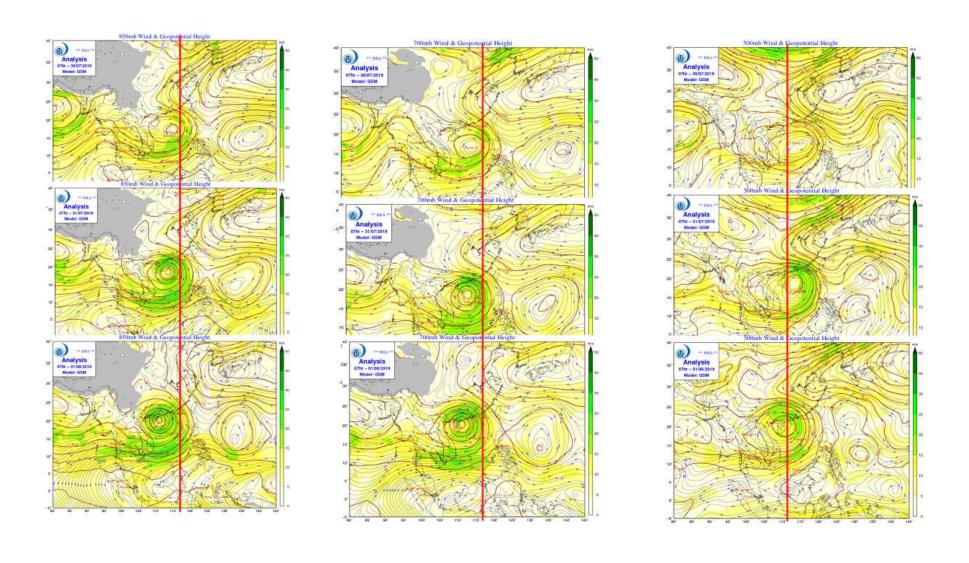
Vietnam NCHMF

TS. Wipha track

- Wipha formed about 400km from Hainan island
- Significant moved northward when approaching Hainan island
- Cause heavy rain in Vietnam
- Global model did not forecast this north-ward movement well but the regional ensemble system did.



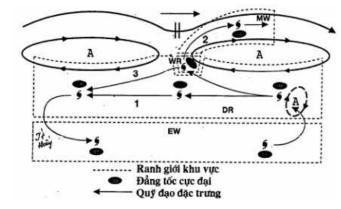
Large scale circulation and situation



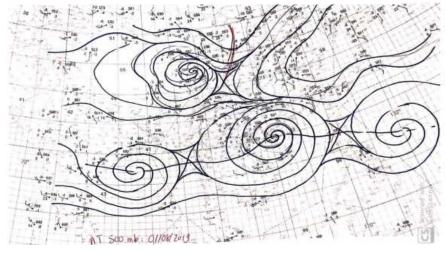
Large scale circulation and situation



Subtropical ridge moving eastward when subtropical High weakened

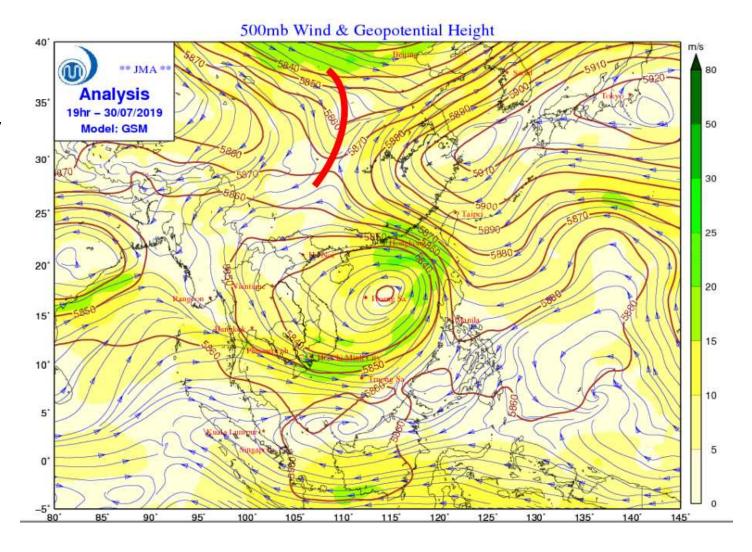


Emperical model for TC track

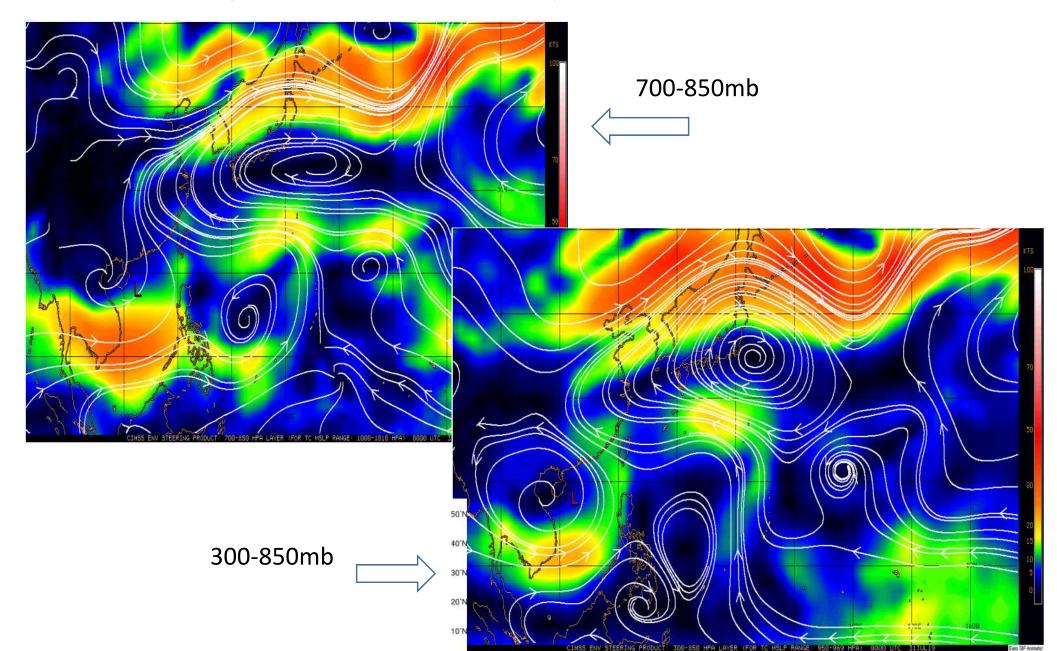


Large scale circulation and situation

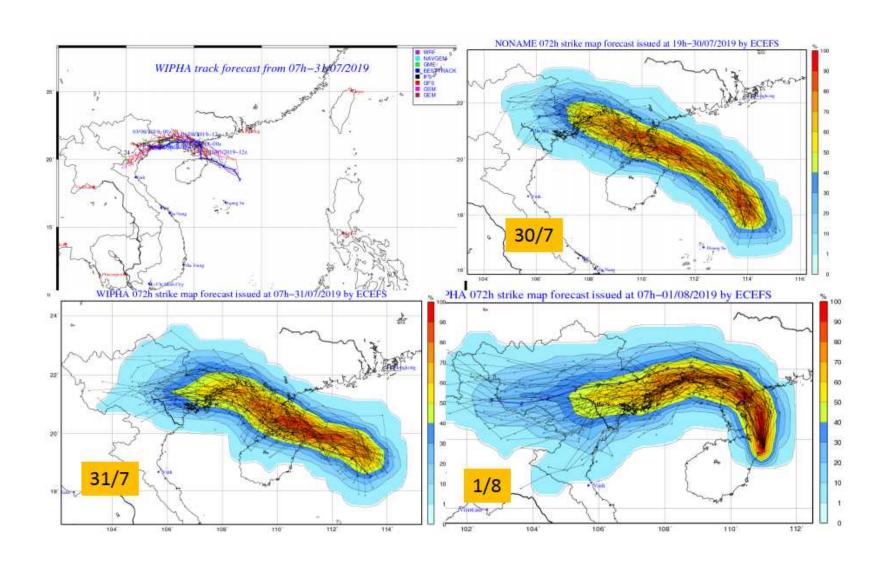
- Subtropical High
 retreat to the east on
 31th July and intensify
 to the west again on
 01 August.
- Sub-tropical trough close to the cyclone, about 1000km



Steering flow when Wipha moved North

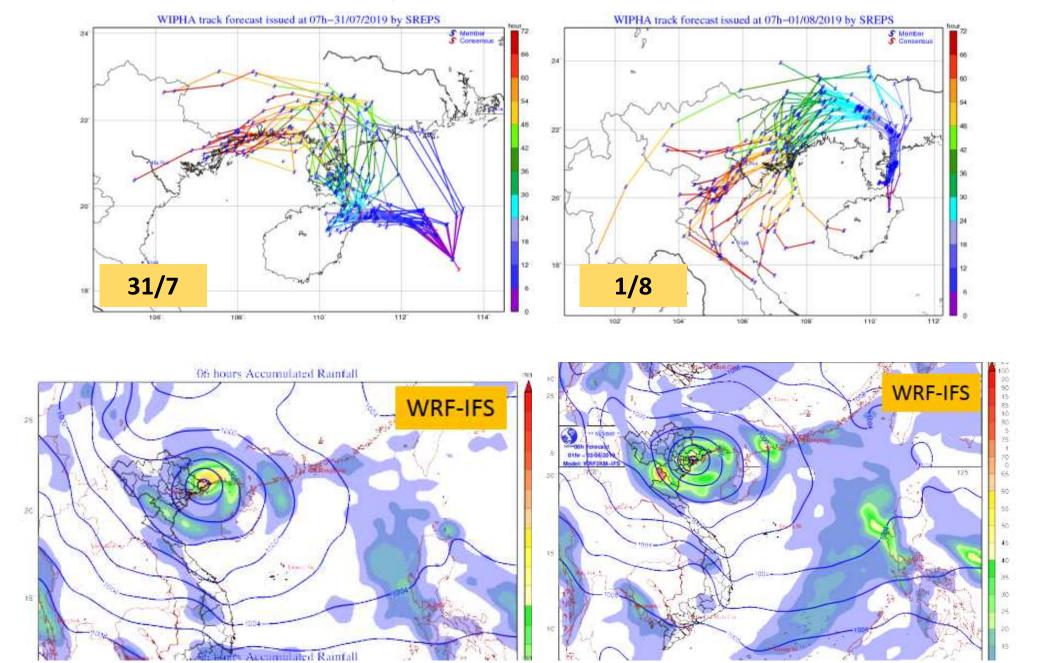


Ensemble track forecast by ECMWF

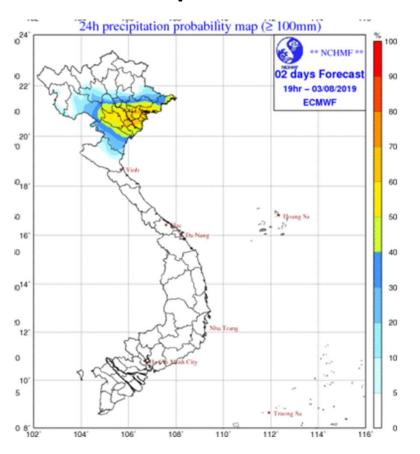


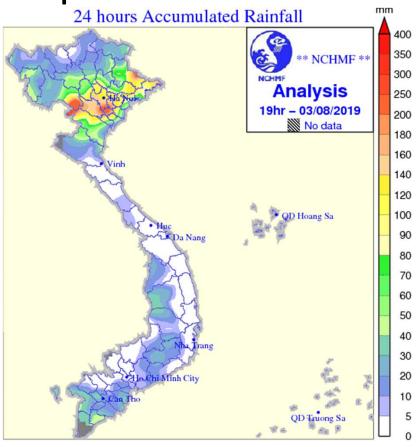
Ensemble track forecast by Vietnam

(SREP – Short-Range Ensemble Prediction)



TS. Wipha rainfall impacts





The ensemble track forecasts are scattered, how ever the rainfall probability forecast is quite good at 2 days lead-time

Lesson learned: Focus more on the impact, even the rainfall when the ensemble forecast give high probability.