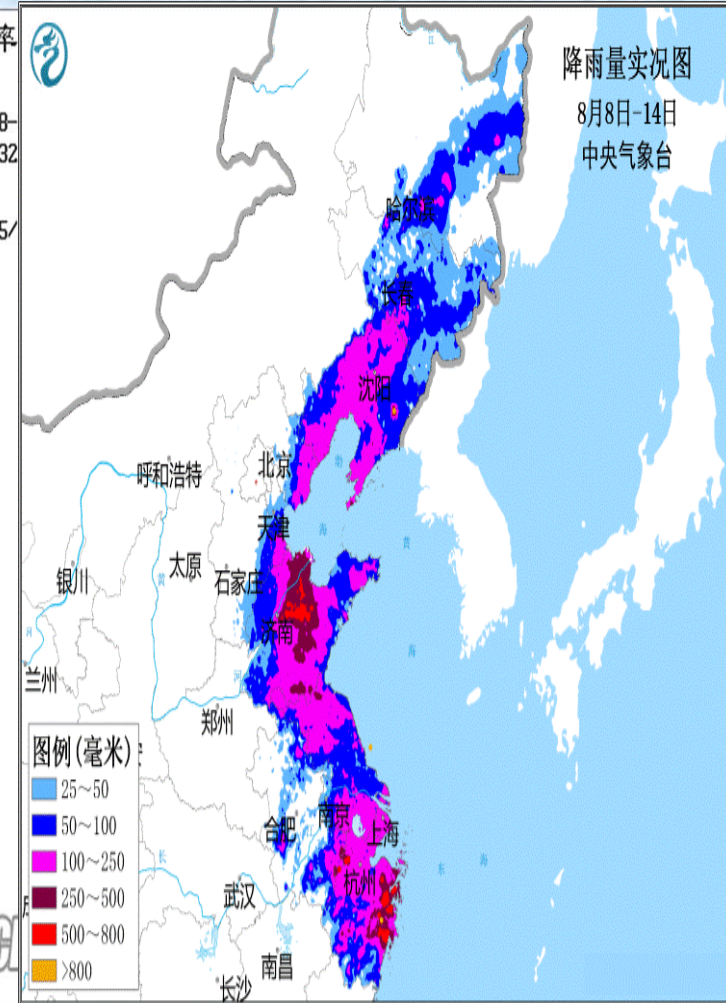
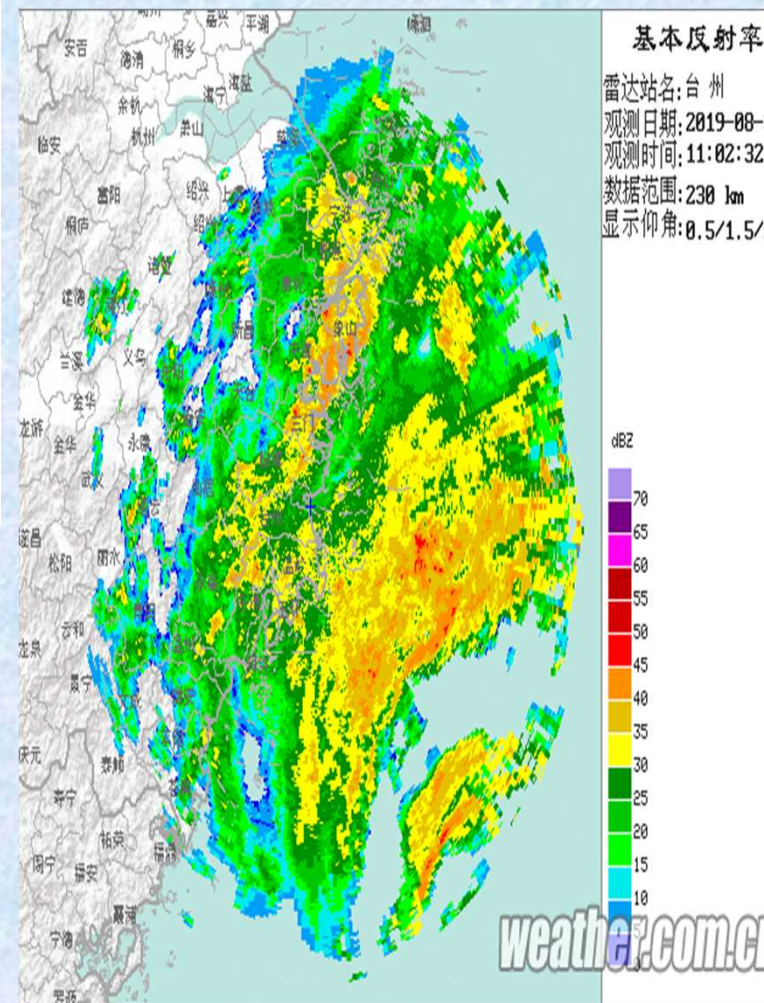
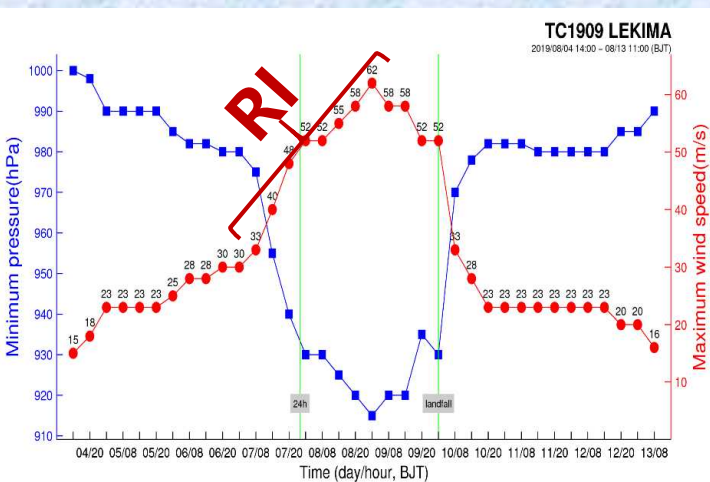
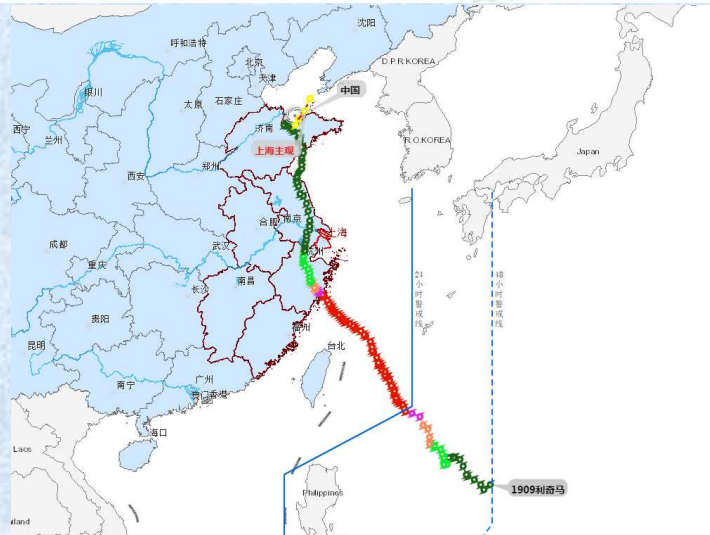




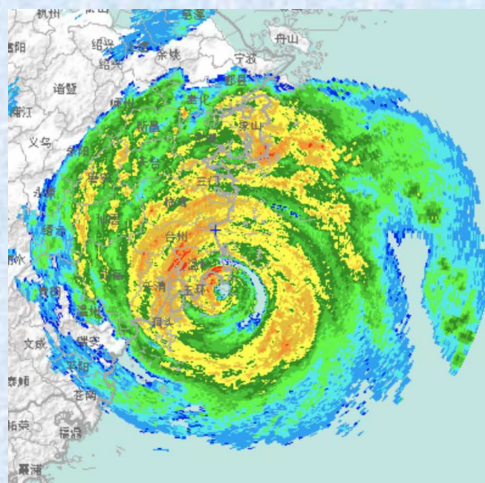
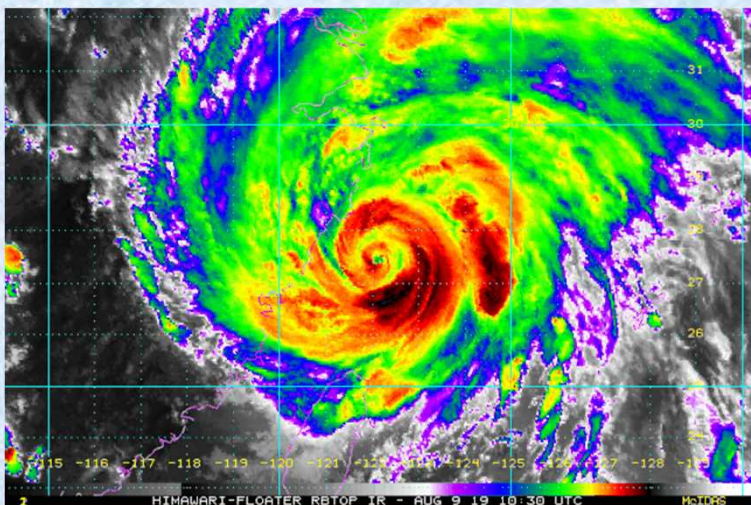
Typhoon Lekima (1909)

Shanghai Typhoon Institute, CMA

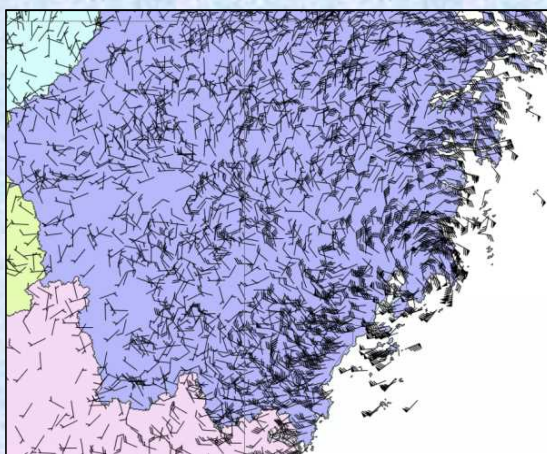
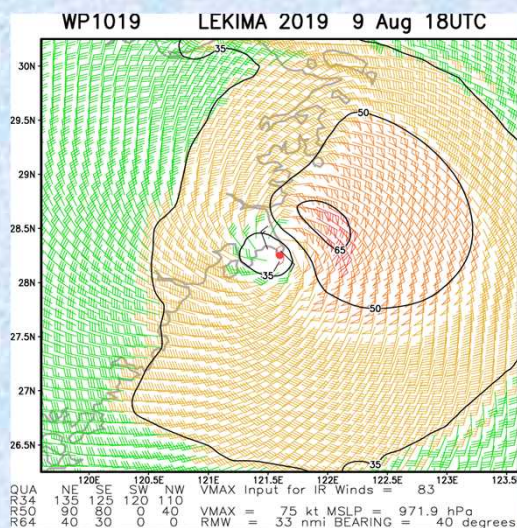
Life period of Typhoon Lekima



Lekima: 5th strongest typhoon that hit China



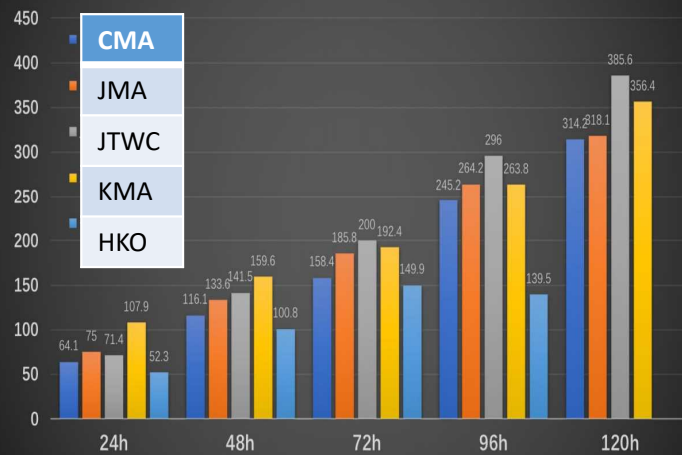
- **Landing Point:** Zhejiang Wenling
- **Landing intensity:** 52m/s
- **Landing Time:** 09091745 UTC
- **Extreme wind:** Taizhou Sansuan (090919UTC minmum psfc 920.3hPa, maximum wind 61.4m/s 091918UTC)



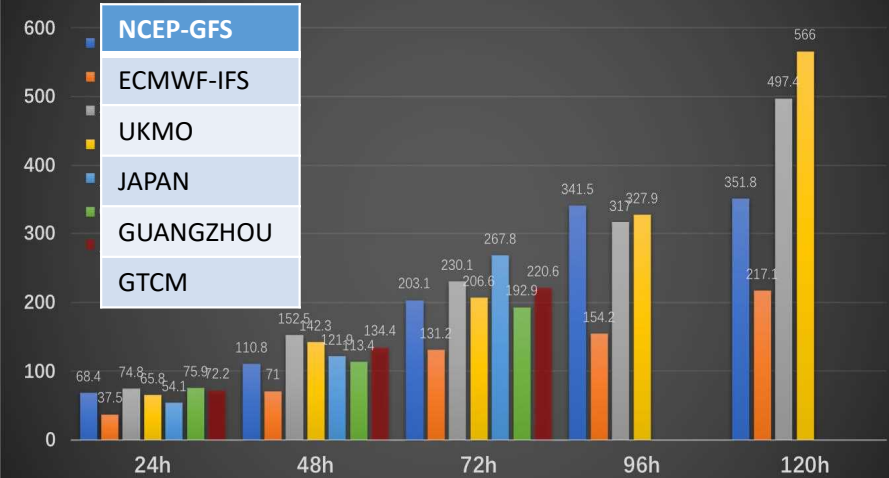
排名	编号及名称	登陆地点	登陆时间	登陆强度	影响时间	影响省份
1	1409 威马逊	海南文昌	2014.7.18	72米/秒 (超强台风)	7.17-21	琼粤桂滇等4省区
2	5612 温黛	浙江象山	1956.8.1	65米/秒 (超强台风)	7.31-8.5	浙闽沪赣苏皖豫鄂京津冀晋陕等13省市
3	7314 玛琪	海南琼海	1973.9.14	60米/秒 (超强台风)	9.13-15	琼粤桂等3省区
4	0608 桑美	浙江苍南	2006.8.10	60米/秒 (超强台风)	8.10-12	浙闽赣皖湘鄂等6省
5	1909 利奇马	浙江温岭	2019.8.10	52米/秒 (超强台风)	8.8-12	闽浙沪苏皖鲁豫冀津辽吉黑等12省市
6	1522 彩虹	广东湛江	2015.10.4	52米/秒 (超强台风)	10.3-6	琼粤桂湘黔等5省区
7	1614 莫兰蒂	福建厦门	2016.9.15	52米/秒 (超强台风)	9.14-17	闽浙沪苏皖赣等6省市

Forecast Verification:Lekima

官方机构路径预报误差



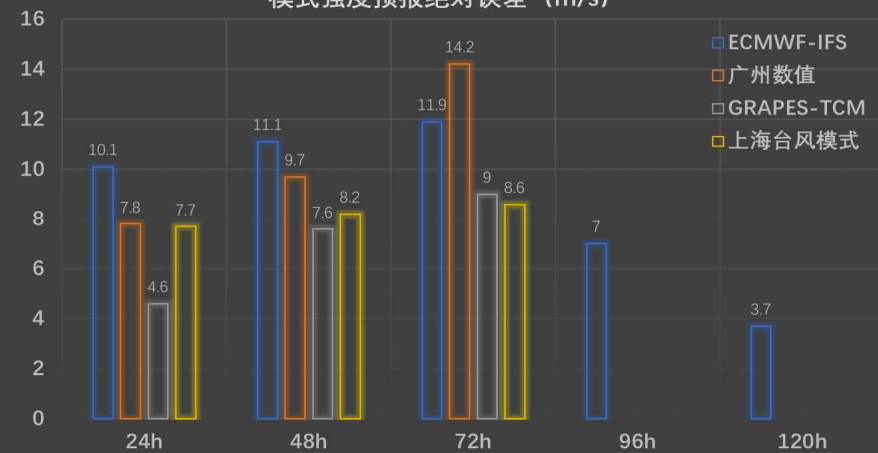
模式路径预报误差



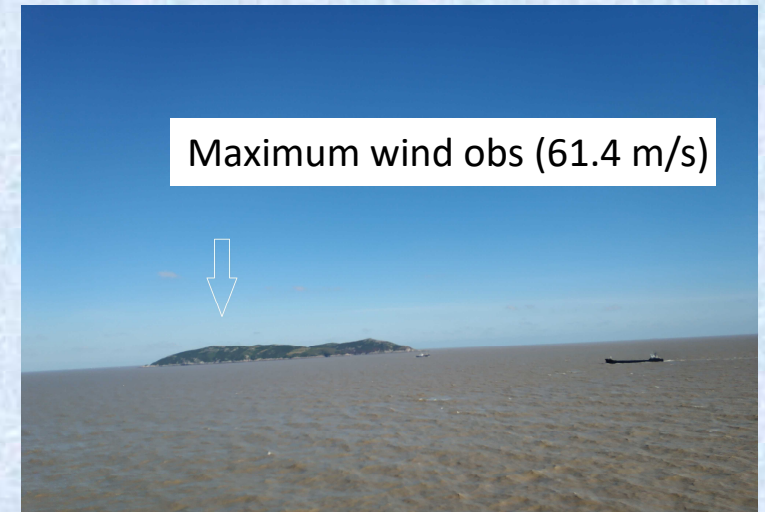
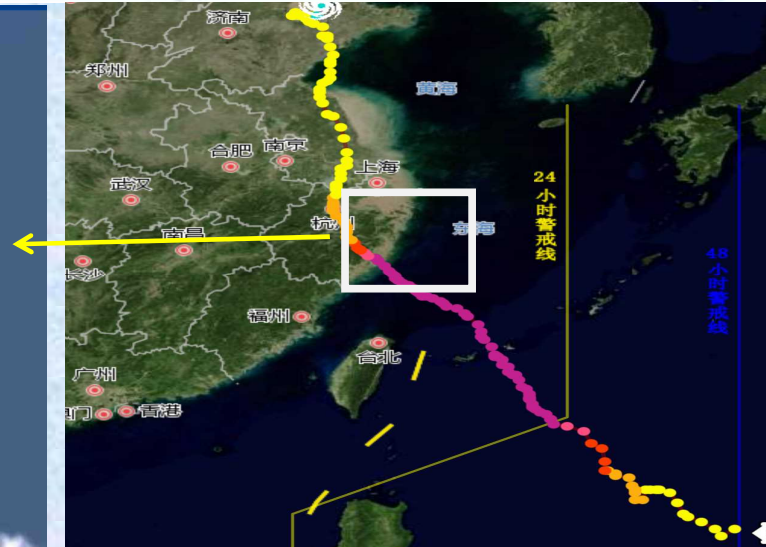
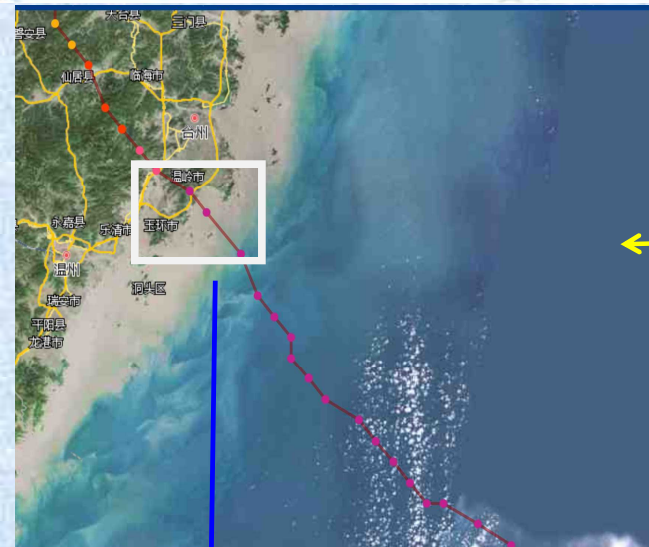
官方机构强度预报绝对误差 (m/s)



模式强度预报绝对误差 (m/s)



Disaster Investigation of Typhoon Lekima (2 weeks after)

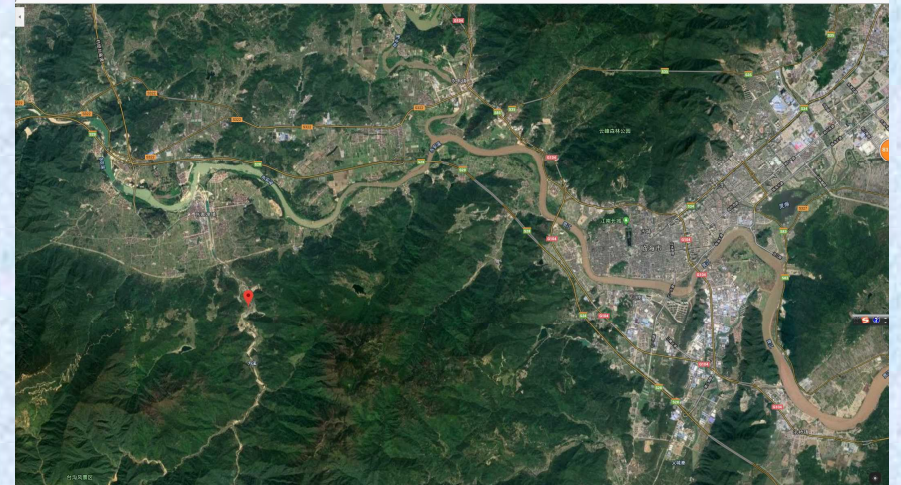
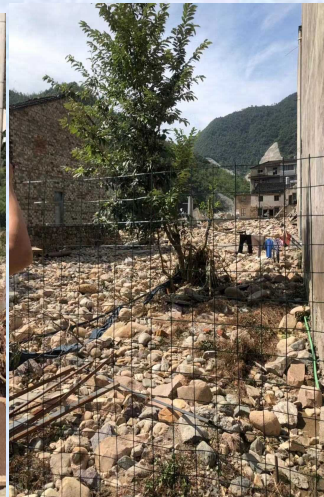


Disaster Investigation of Typhoon Lekima (2 weeks after)

方溪水库



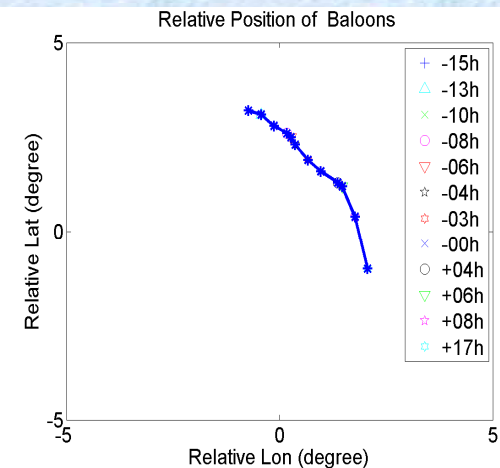
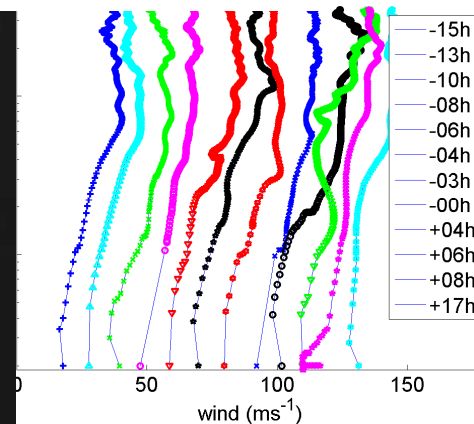
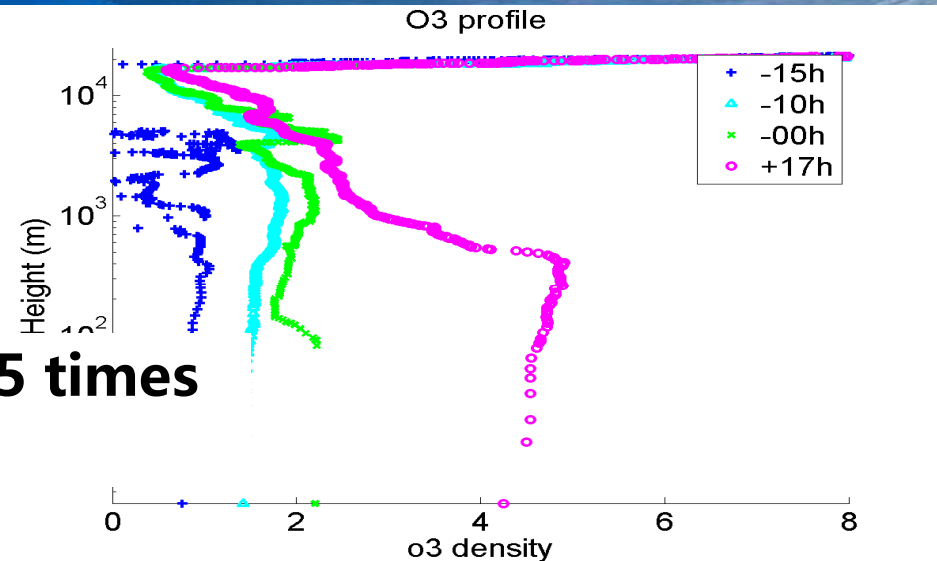
方溪村



Field Experiment (EXOTICCA) O₃ OBS (4/12)

O₃ in post-landfall stage increase 4-5 times than pre-landfall stage

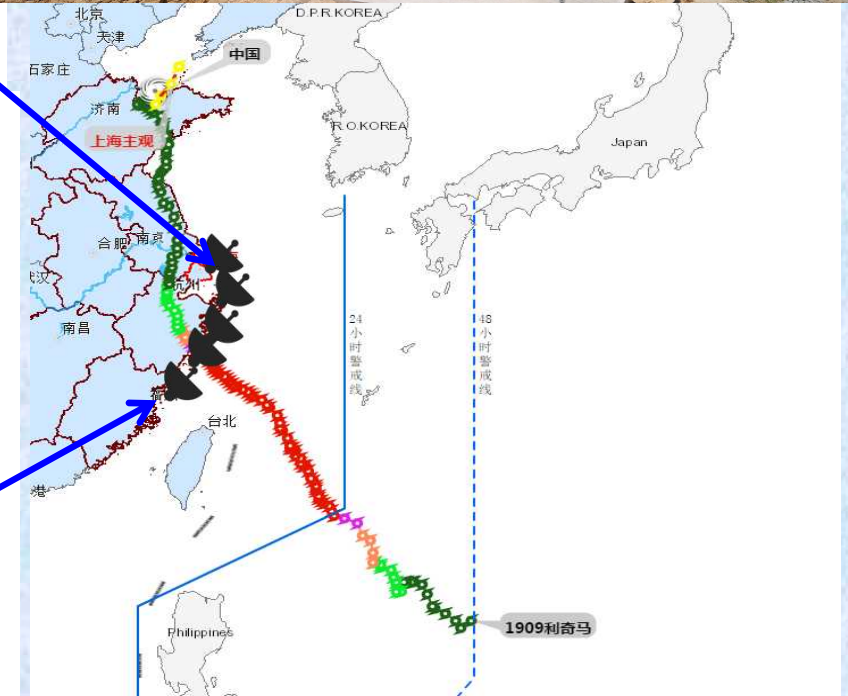
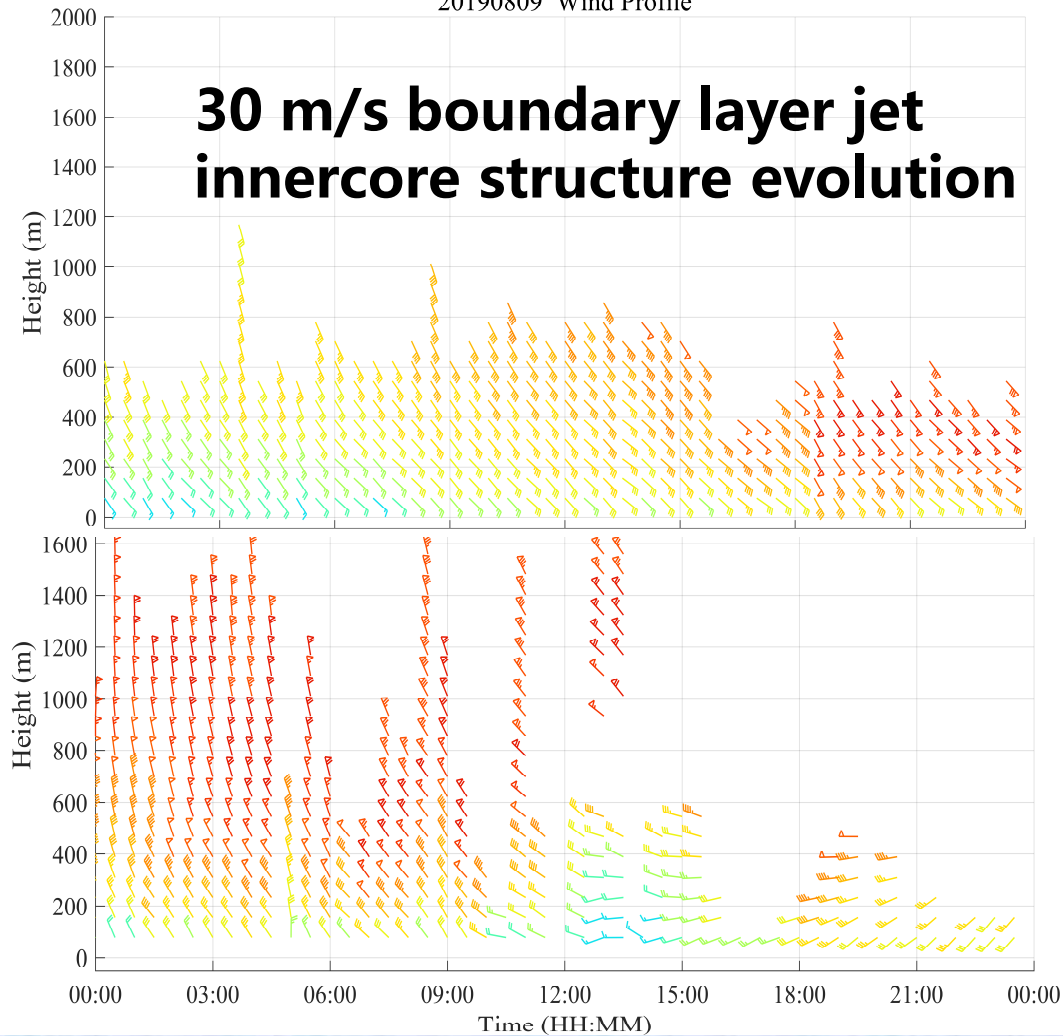
Typhoon may induce air pollution !



Field Experiment (EXOTICCA) --LIDAR (5)

20190809 Wind Profile

**30 m/s boundary layer jet
innercore structure evolution**





Summary

- **Lekima is a high impact typhoon and induce severe diasters**
- **a whole typhoon opertion process should include forecast,verfication,disaster survay ,field experiment and research**
- **New techniques will bring some new knowledge to typhoon community**