

2021 年 5 月 28 日

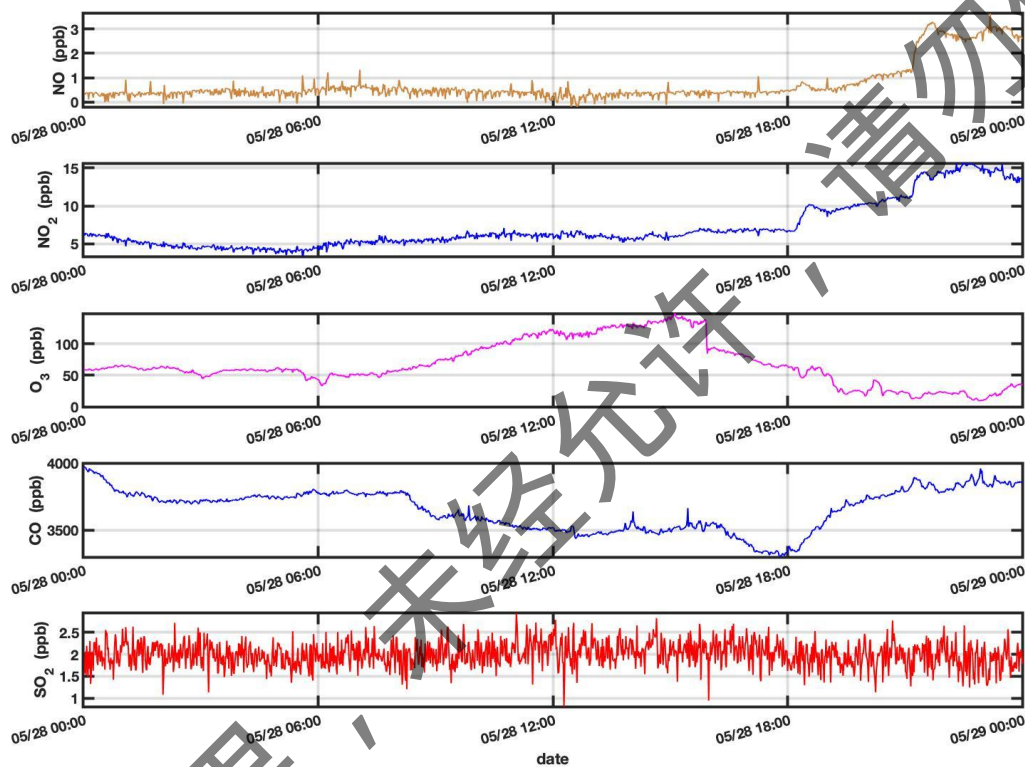
NUIST 站点

大气-气溶胶-边界层-云综合观测实验日报

注：以下观测结果均为观测数据初步处理结果，仅做参考，不能代表最终观测结果。对观测感兴趣者，可联系：王玉莹

([yuyingwang@nuist.edu.cn](mailto:yuyingwang@nuist.edu.cn))

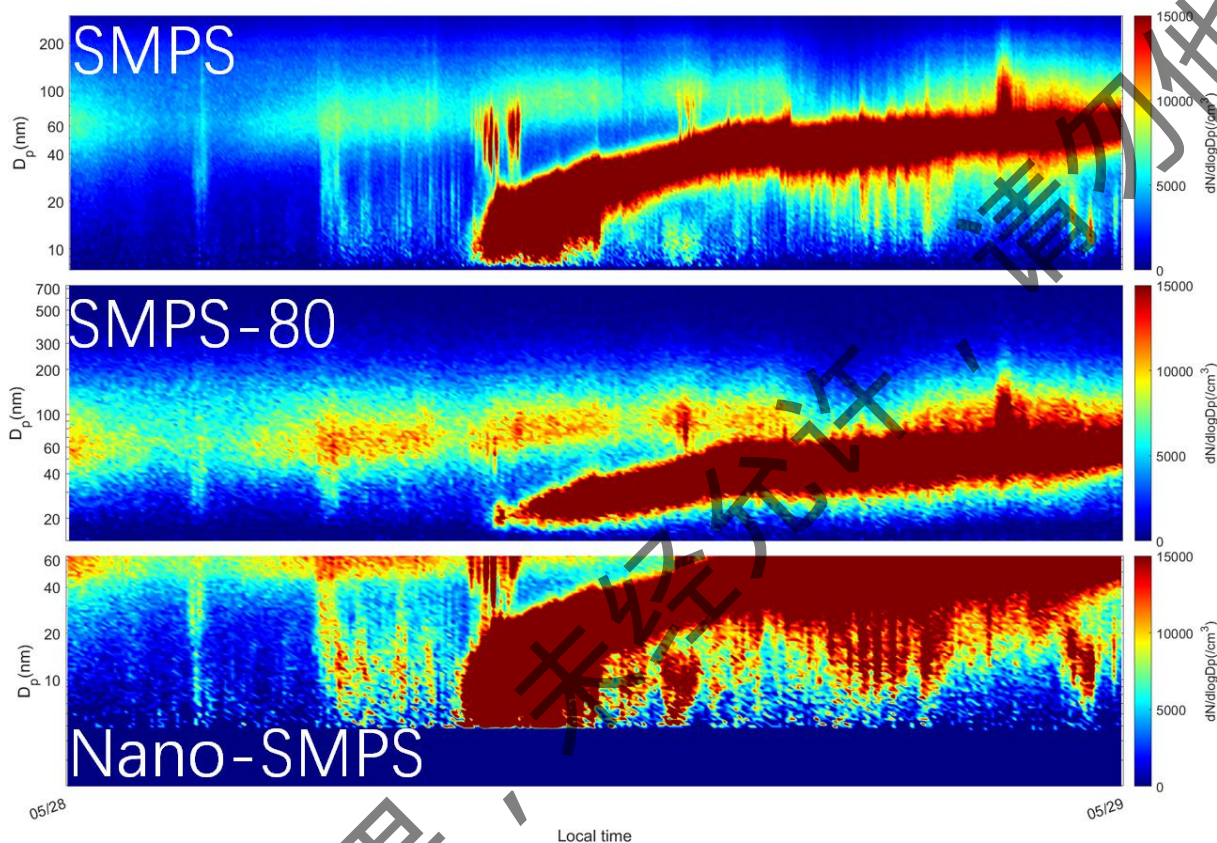
## 1. 污染气体测量结果



作图：杨子谦

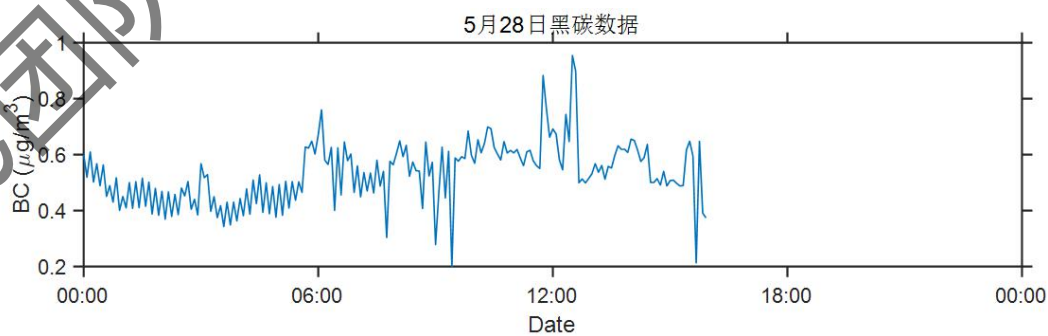
## 2. 气溶胶数浓度粒子谱分布测量结果

作图：陈曦



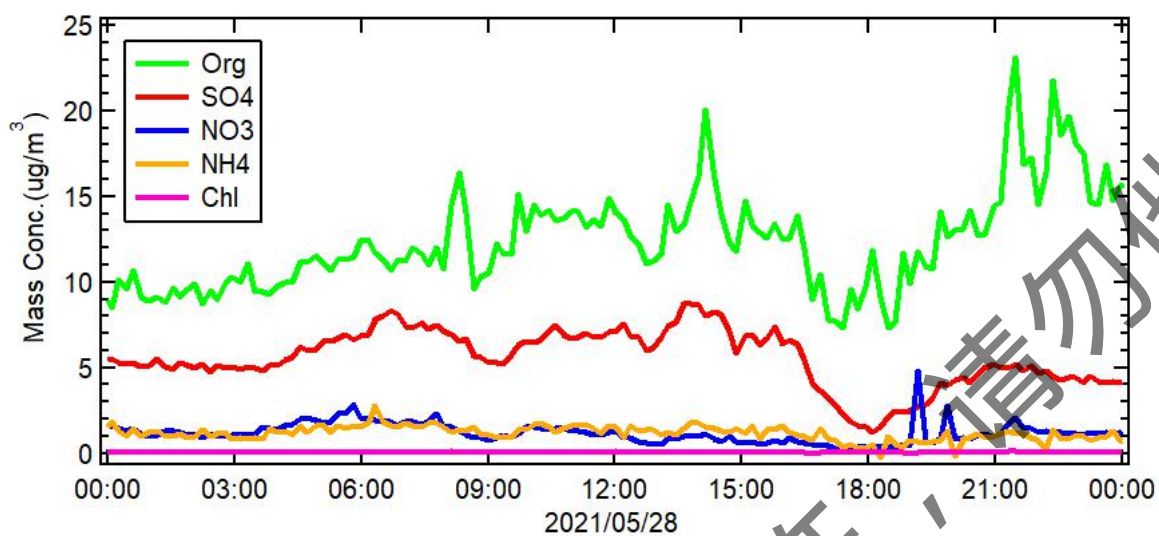
## 3. 气溶胶化学组分测量结果

AE-33:



作图：许嘉璐

## ACSM:



作图：曾思琪

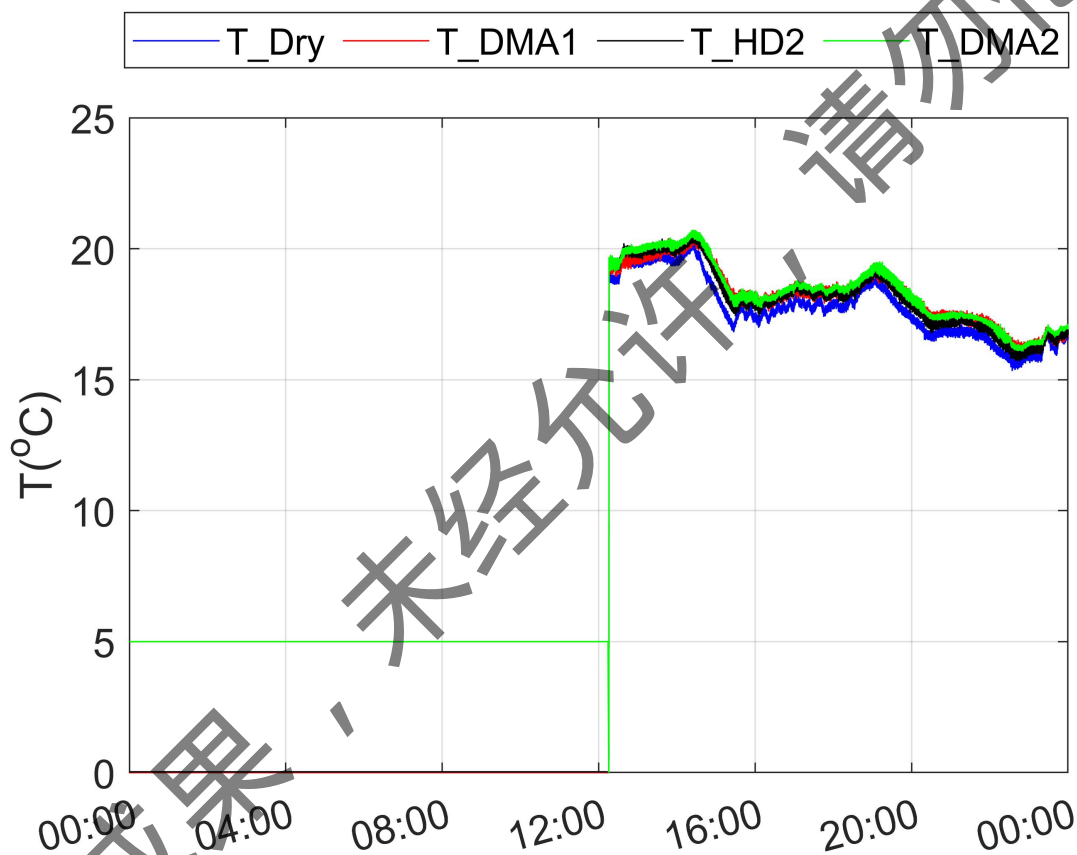
## 4. 双浊度仪

温湿传感器返厂中

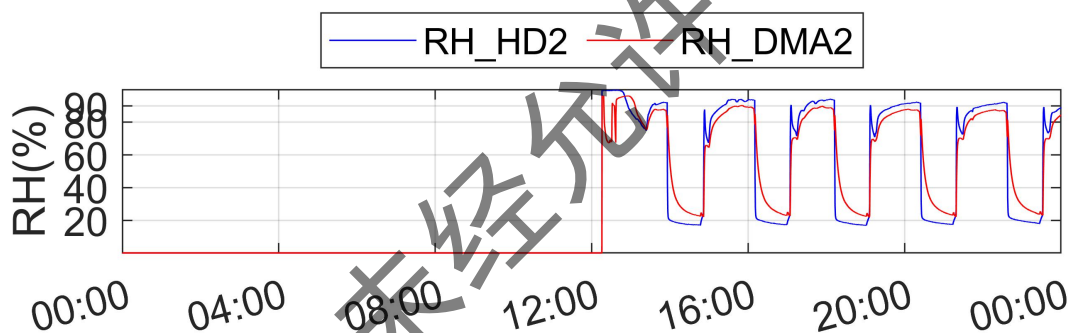
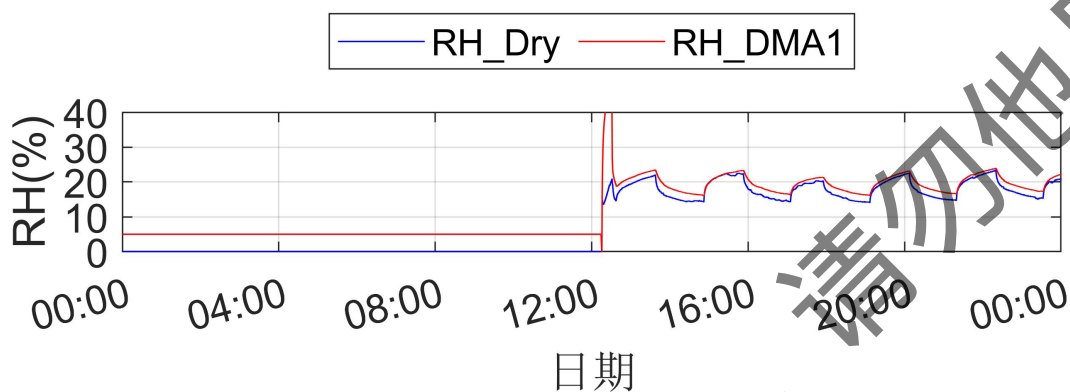
## 5. 气溶胶加湿迁移差分分析仪

进行 wick 清洗, 12:00 恢复运行

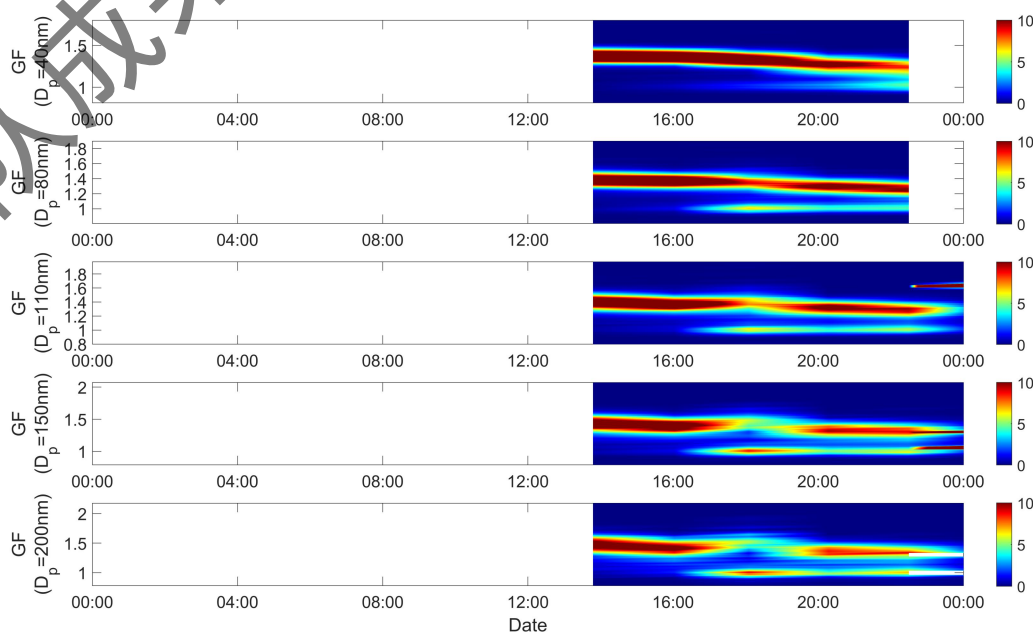
### (1) 仪器温度控制



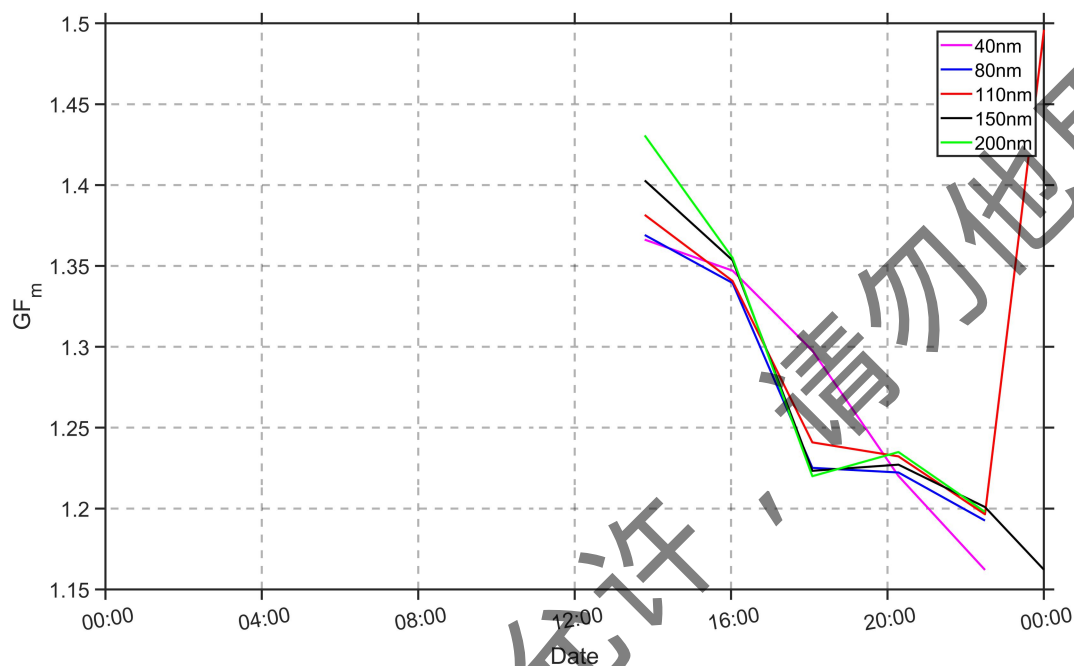
## (2) 仪器湿度控制



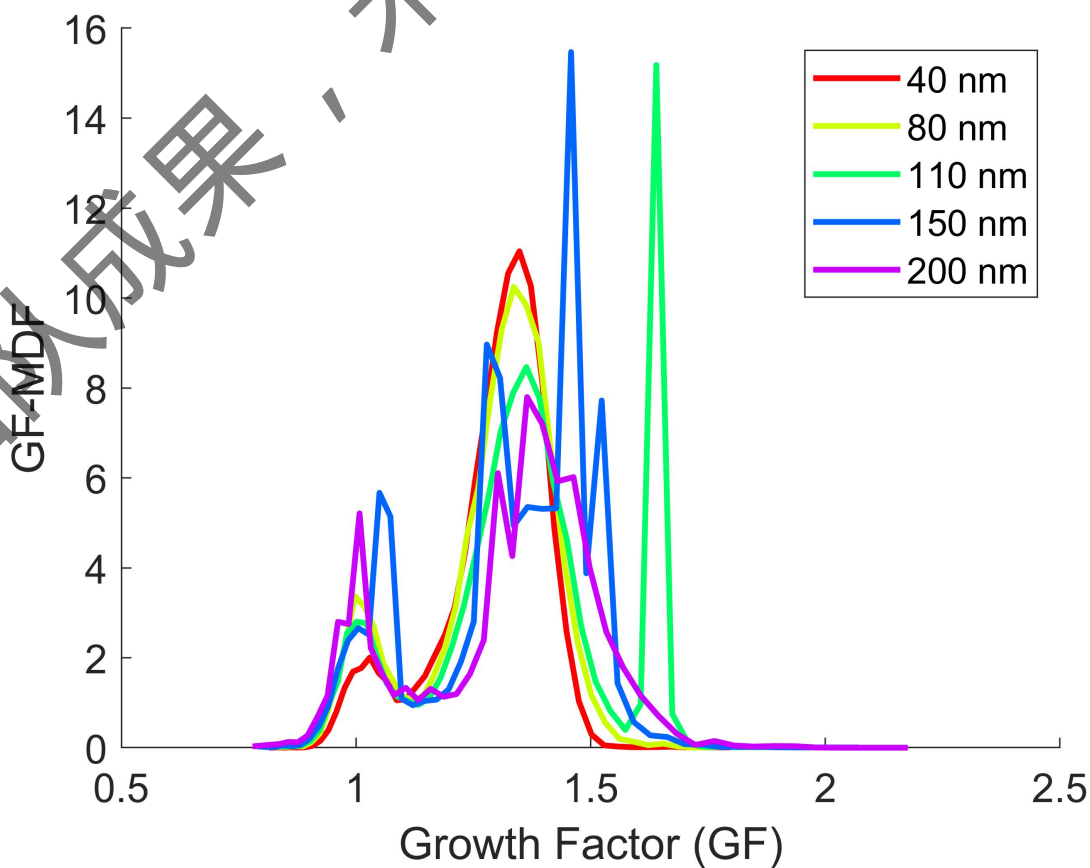
## (3) 吸湿性生长因子测量谱分布



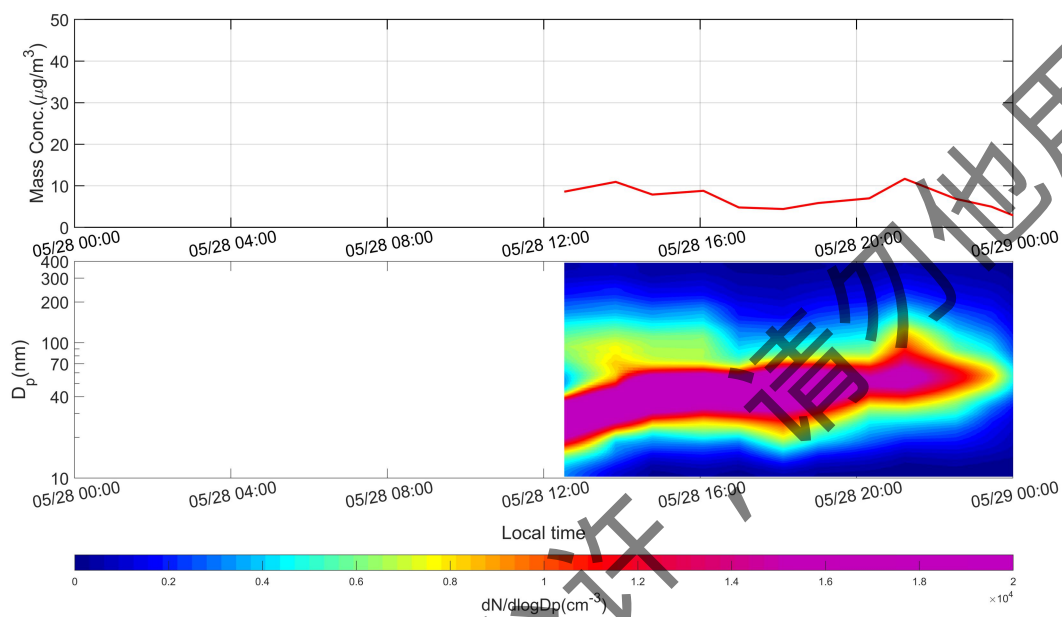
#### (4) 谱平均吸湿性生长因子



#### (5) 时间平均吸湿性生长因子



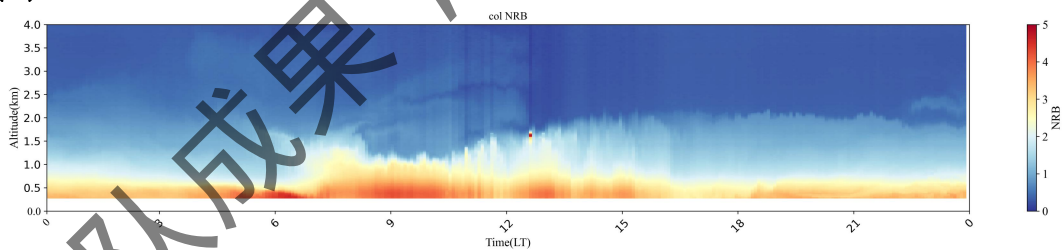
## (6) 气溶胶数浓度粒子谱分布



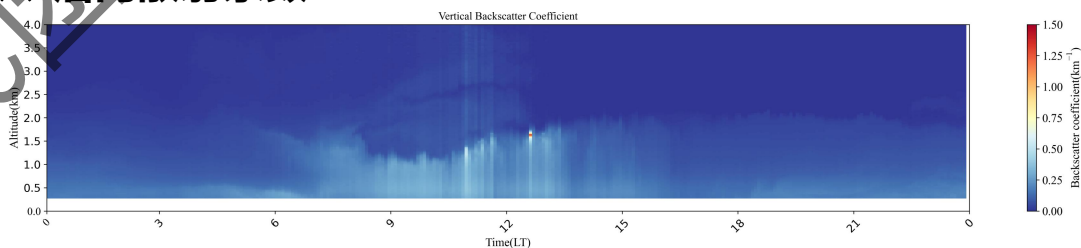
作图：胡嵘

## 6. 微脉冲激光雷达 (MPL)

### (1) NRB

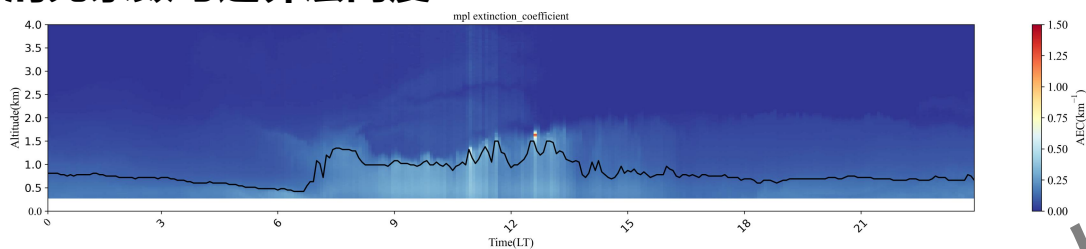


### (2) 后向散射系数

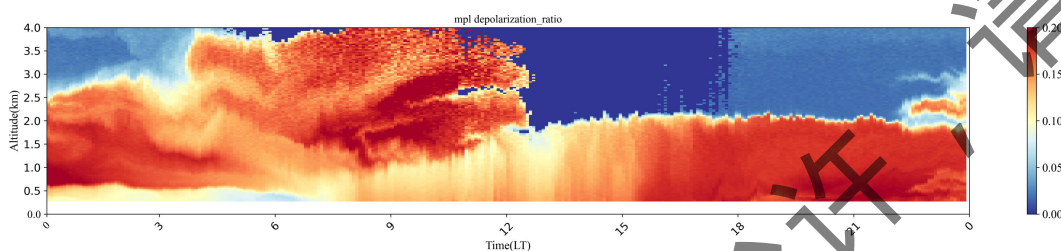




### (3) 消光系数与边界层高度



### (4) 退偏振比



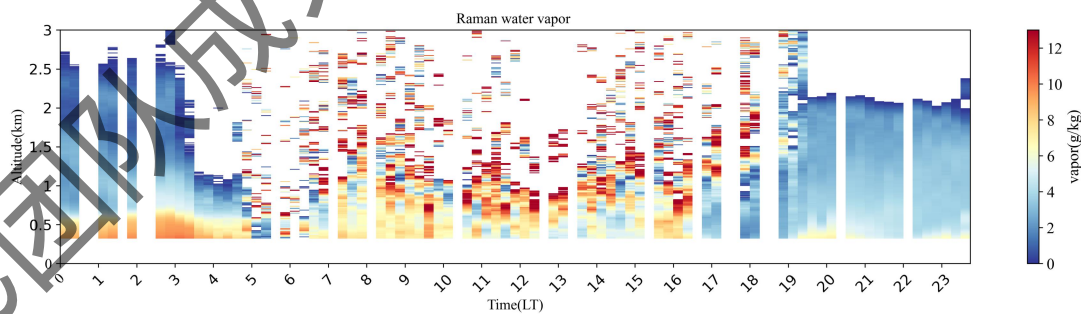
作图：张寒

## 7. 3D 雷达

维护中

作图：张寒

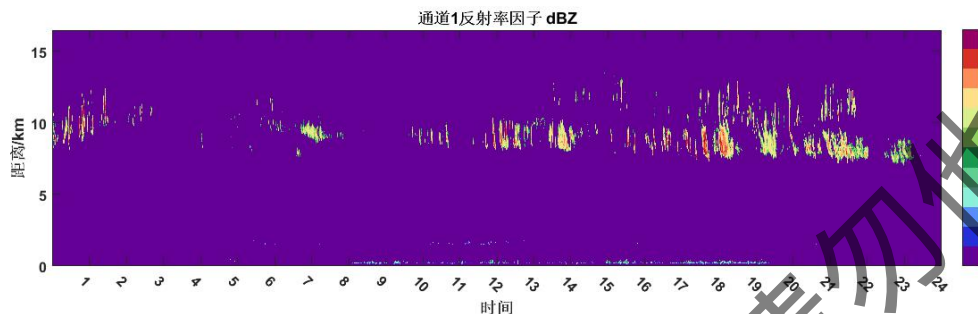
## 8. 拉曼激光雷达水汽图



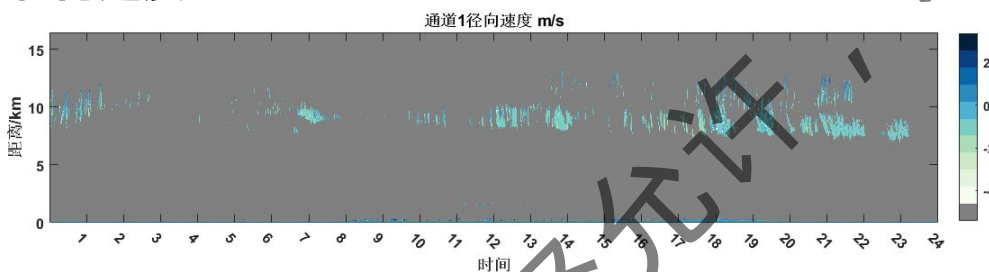
作图：张寒

## 9. 云雷达:

### (1) 反射率因子



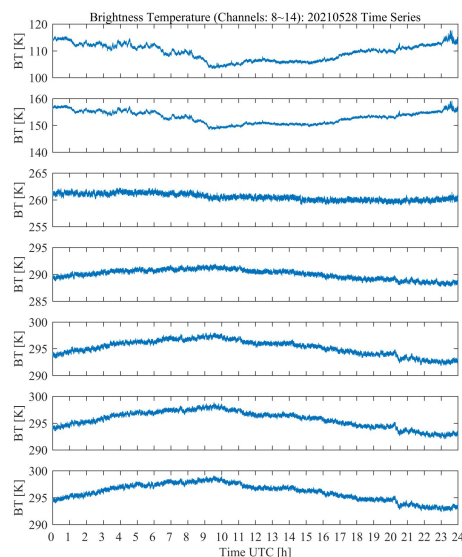
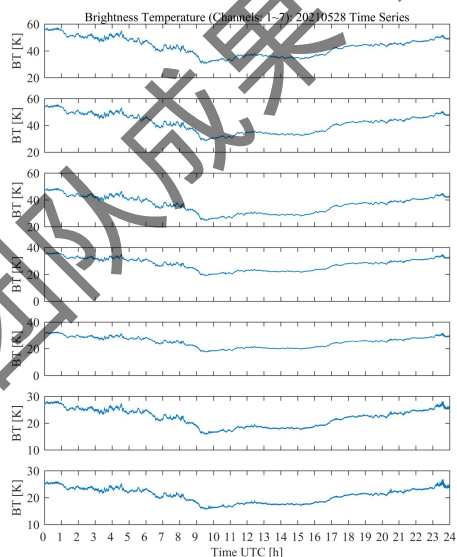
### (2) 径向速度



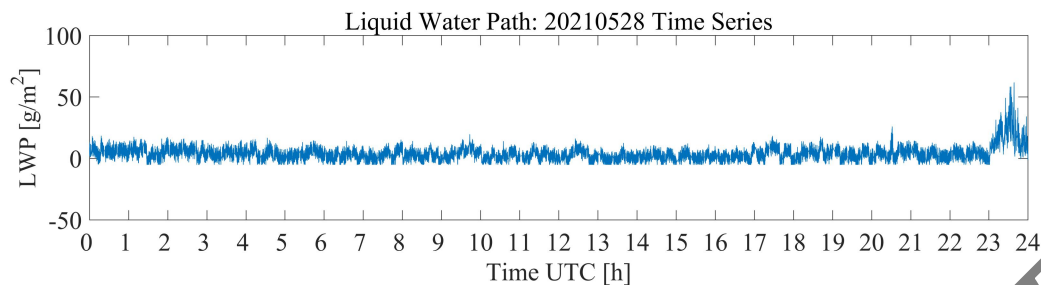
作图: 吴懿璇

## 10. 微波辐射计

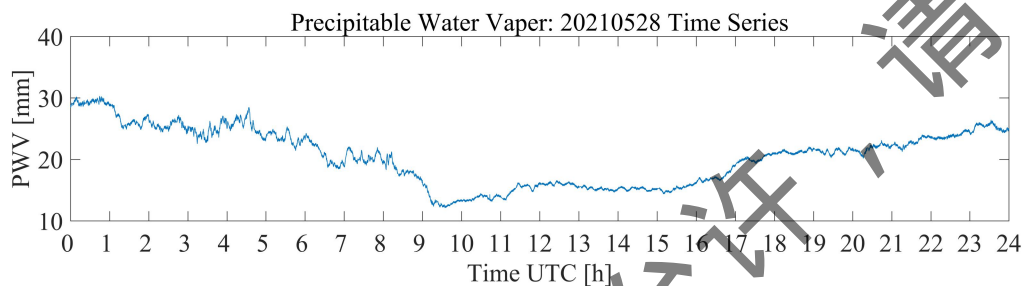
### (1) 亮温 (14 通道) 时序:



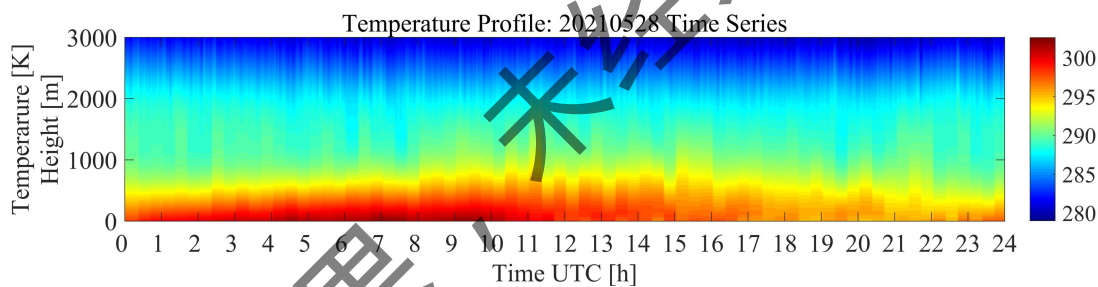
## (2) 液水路径时序:



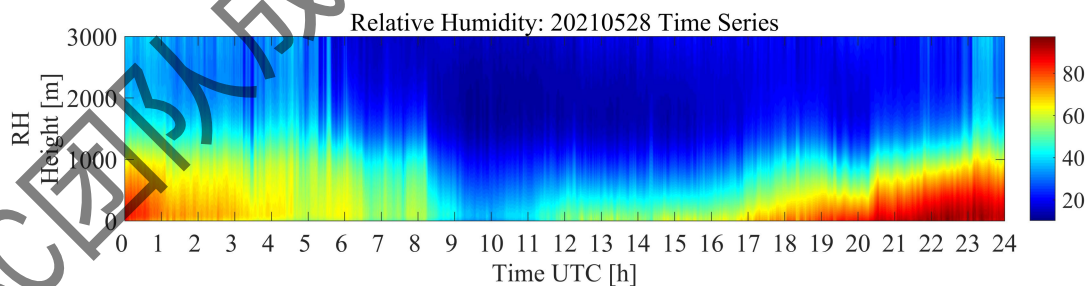
## (3) 可降水量时序:



## (4) 边界层温度廓线时序:



## (5) 边界层相对湿度廓线时序:



作图: 赏益