

2021 年 4 月 20 日

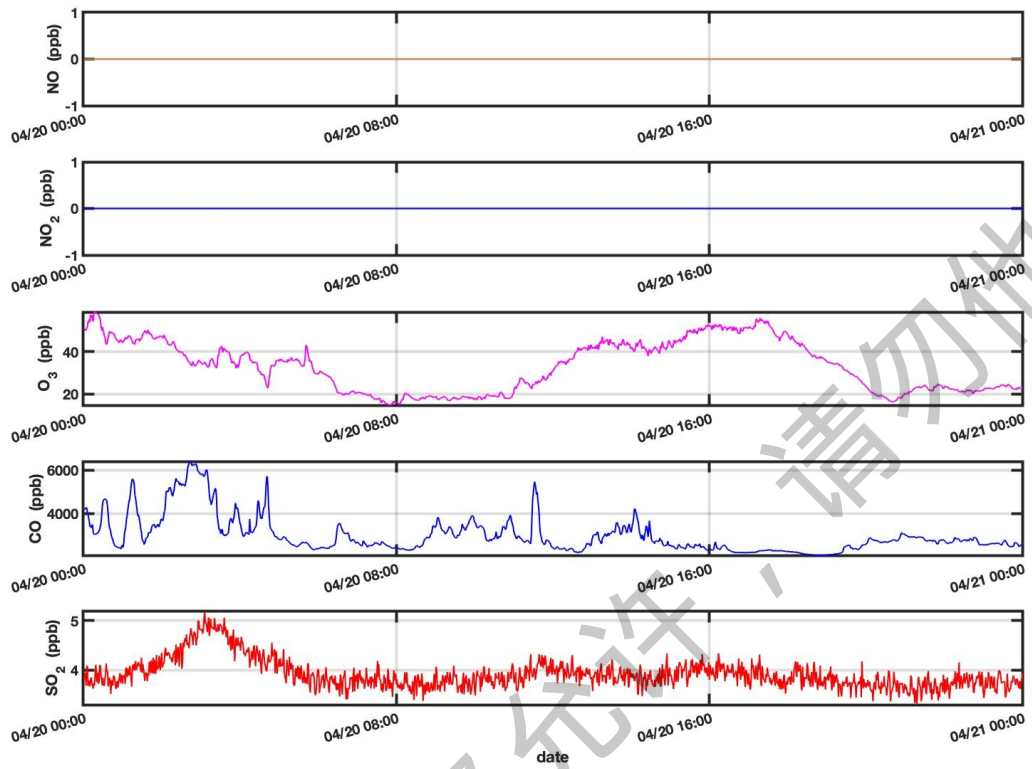
NUIST 站点

## 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

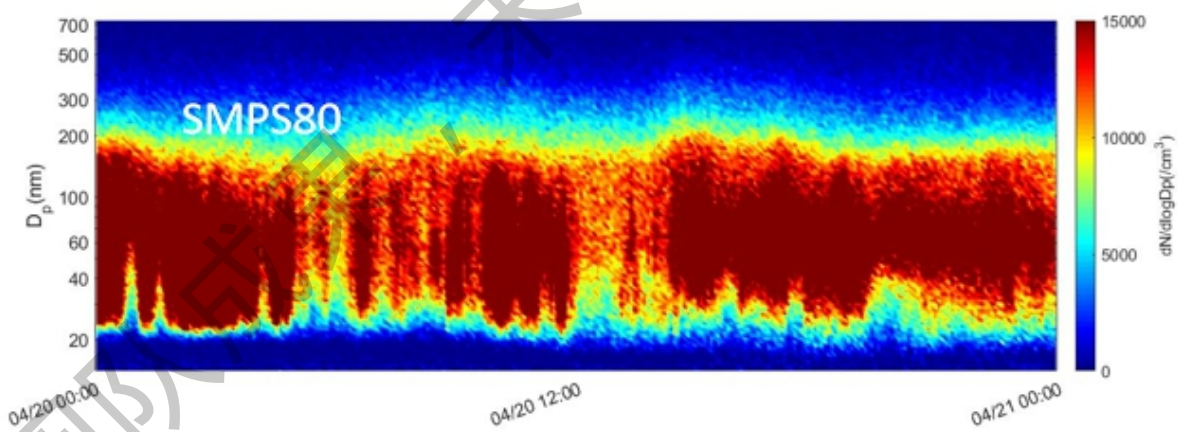
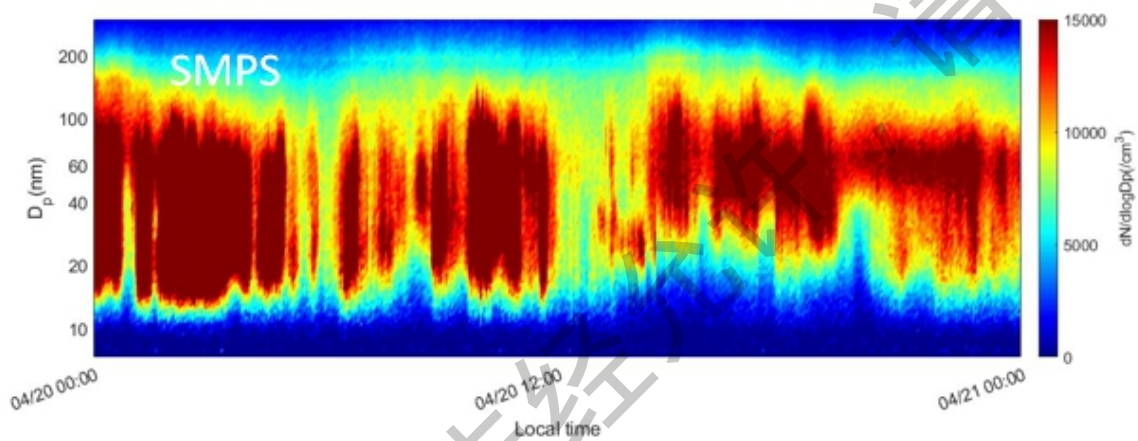
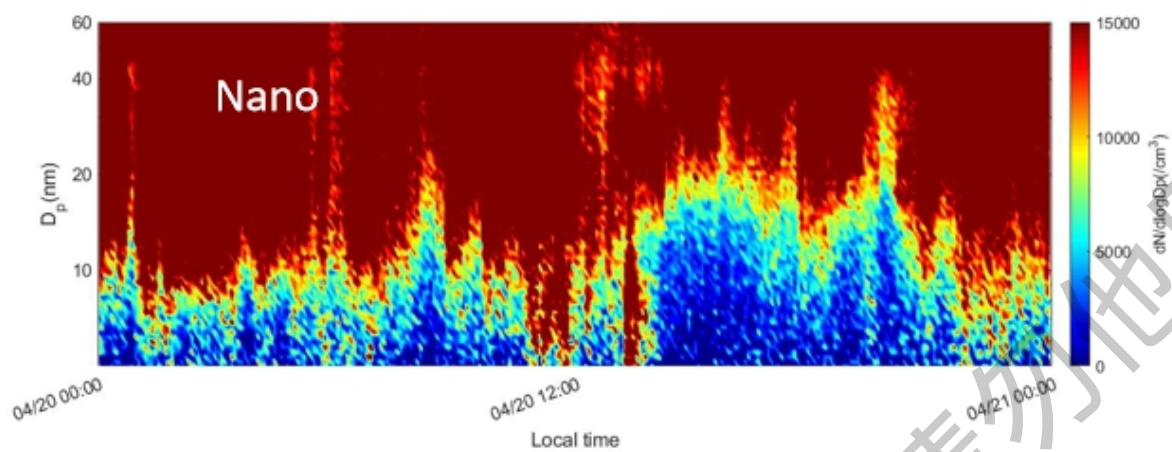
([yuyingwang@nuist.edu.cn](mailto:yuyingwang@nuist.edu.cn))

# 1. 污染气体测量结果



作图：杨子谦

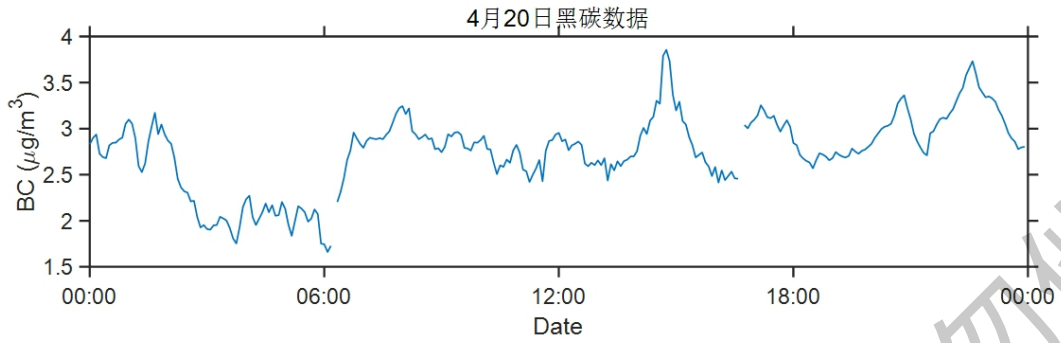
## 2. 气溶胶数浓度粒子谱分布测量结果



作图：王玉祥

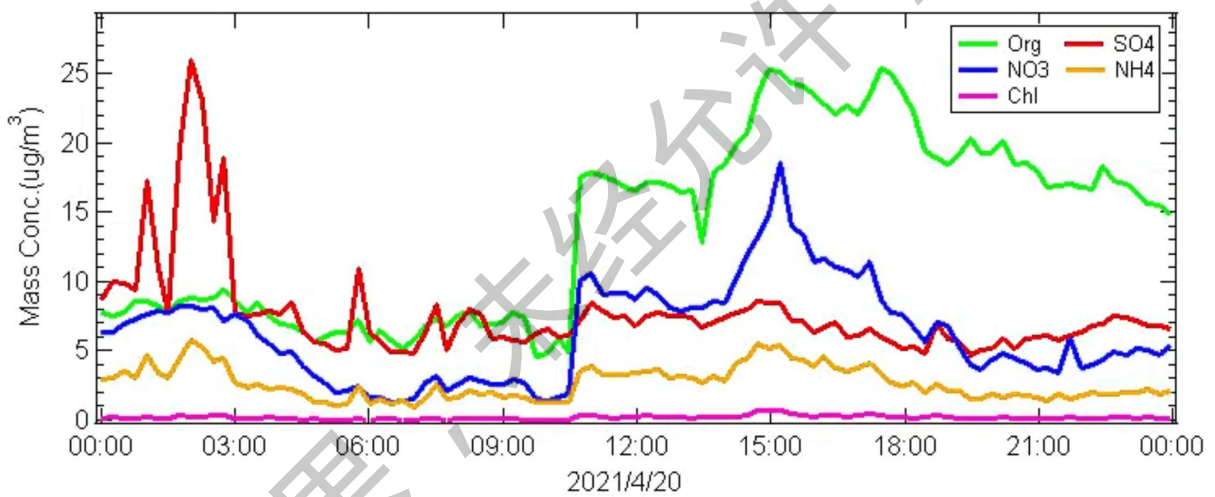
### 3. 气溶胶化学组分测量结果

AE-33:



作图: 许嘉璐

ACSM:

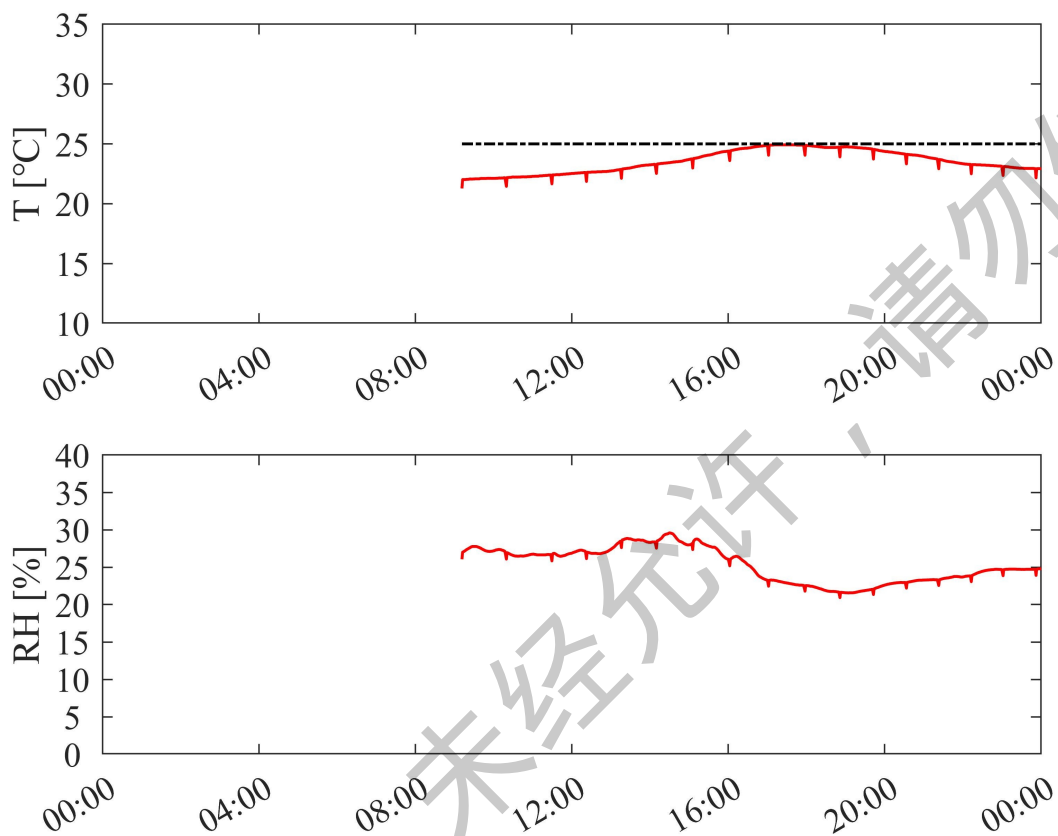


作图: 蒙佳琛

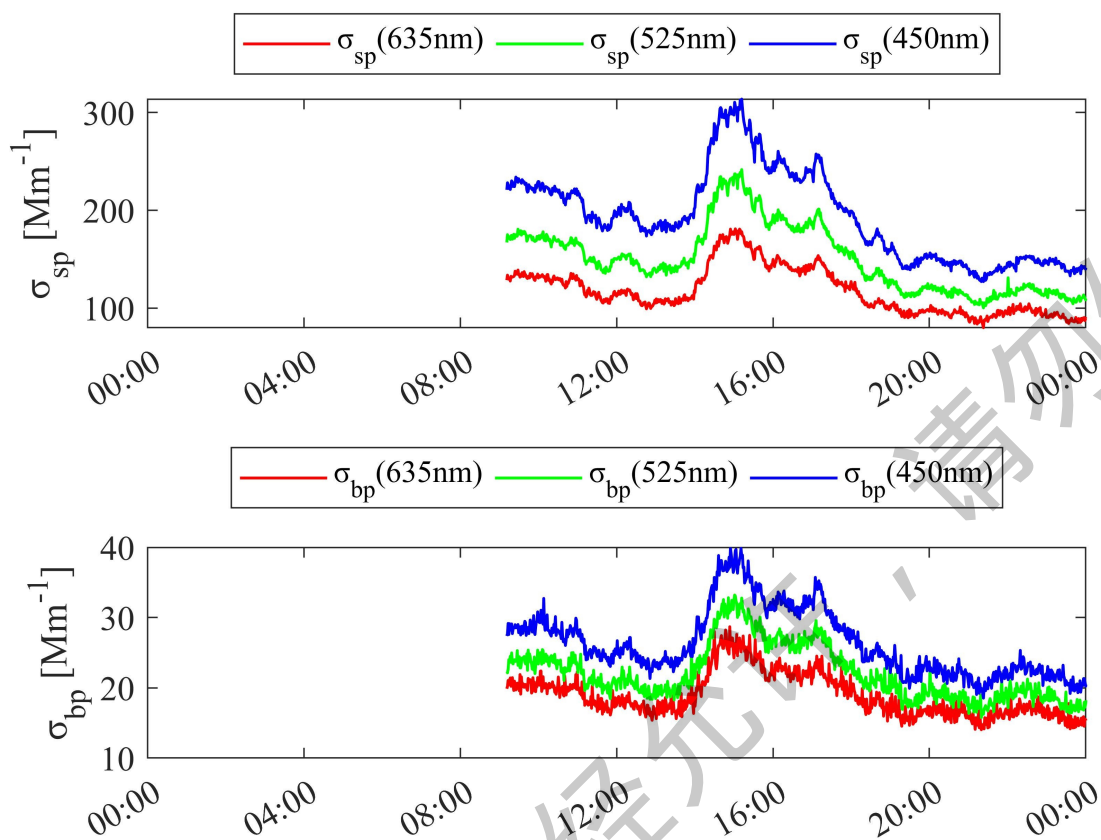
## 4. 双浊度仪

于早上 9 点左右水浴修复完毕，重新开始运行

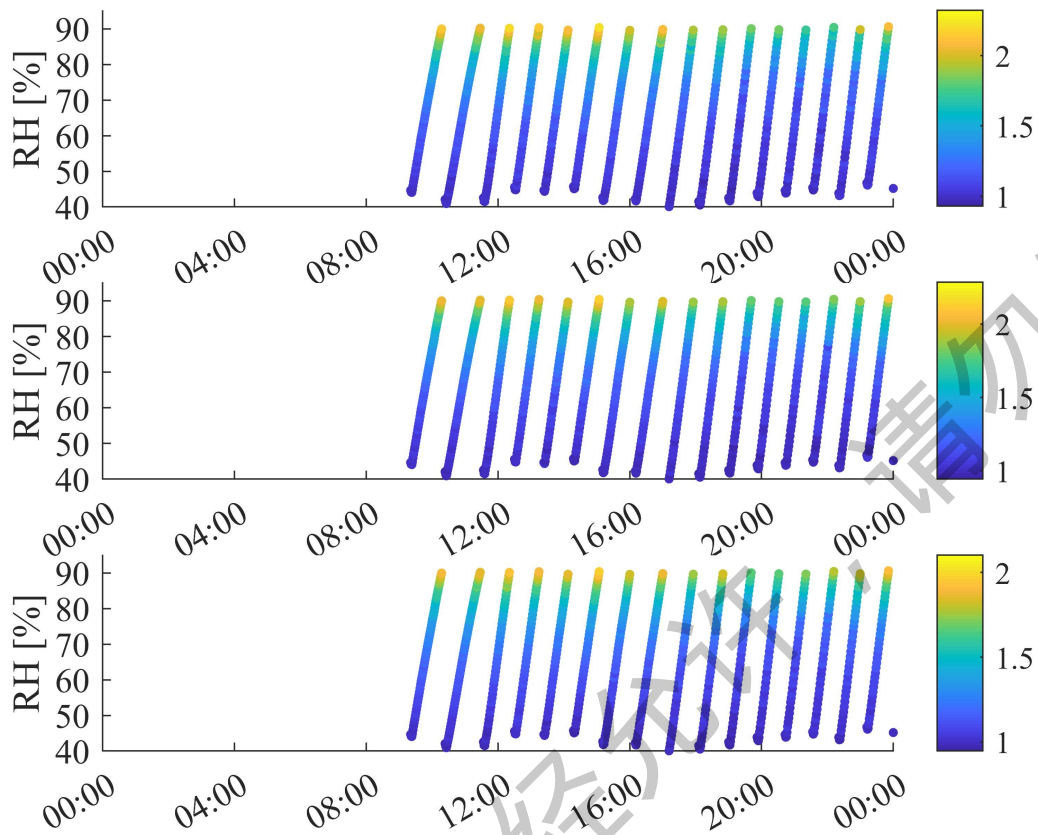
### 4.1 样气温湿控制



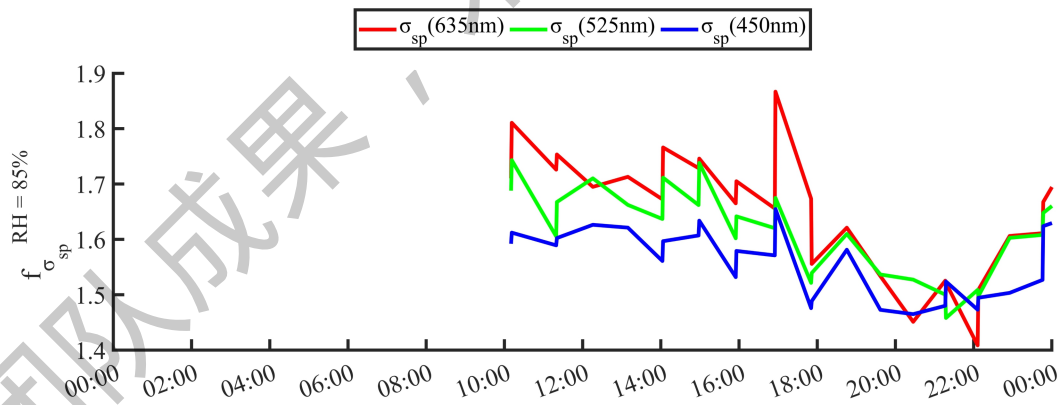
## 4.2 散射系数及后向散射系数



### 4.3 气溶胶散射系数吸湿性增强因子

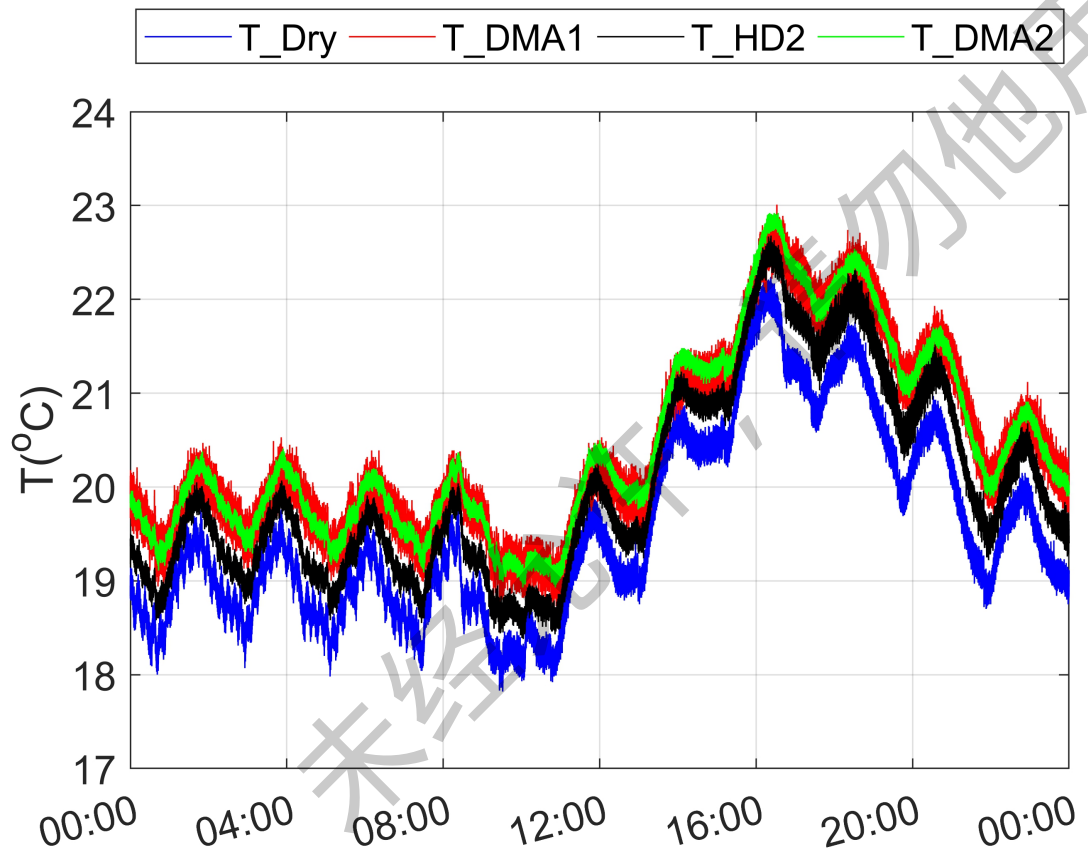


### 4.4 气溶胶散射系数吸湿性增强因子 (RH=85%)



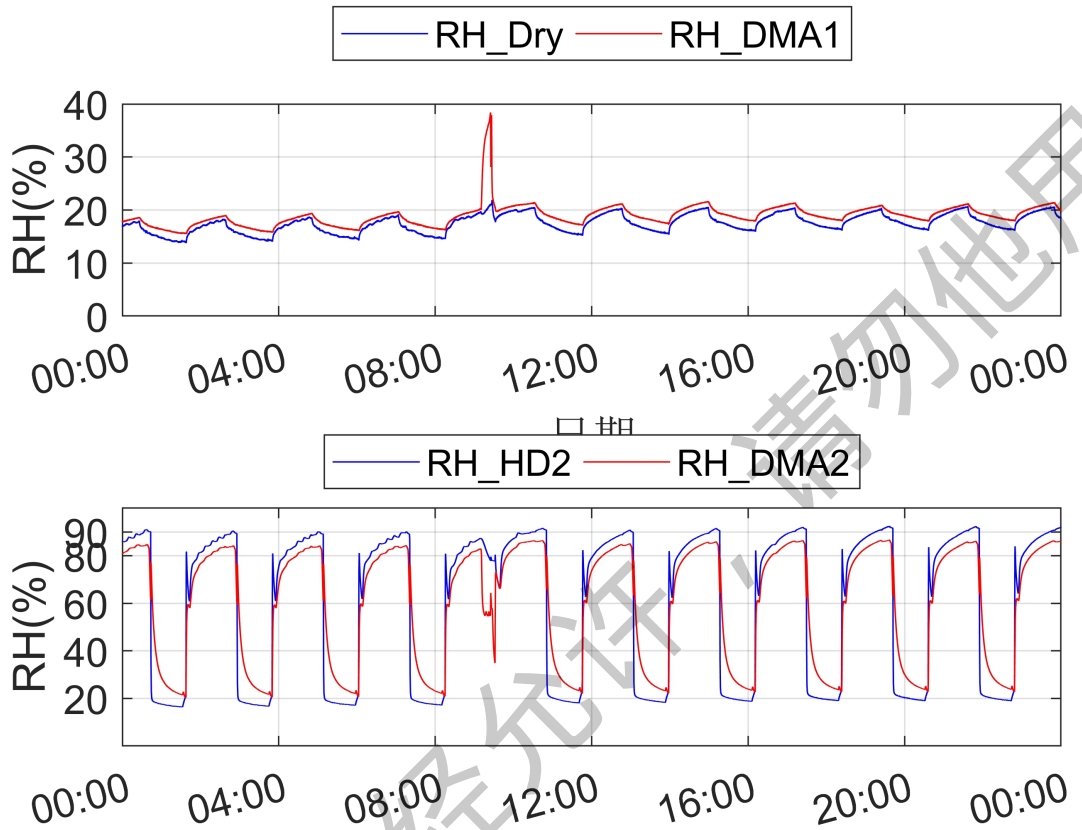
作图：胡嵘

5. 气溶胶加湿迁移差分分析仪  
早 8:00 清洗 WCPC 的 wick  
(1) 仪器温度控制

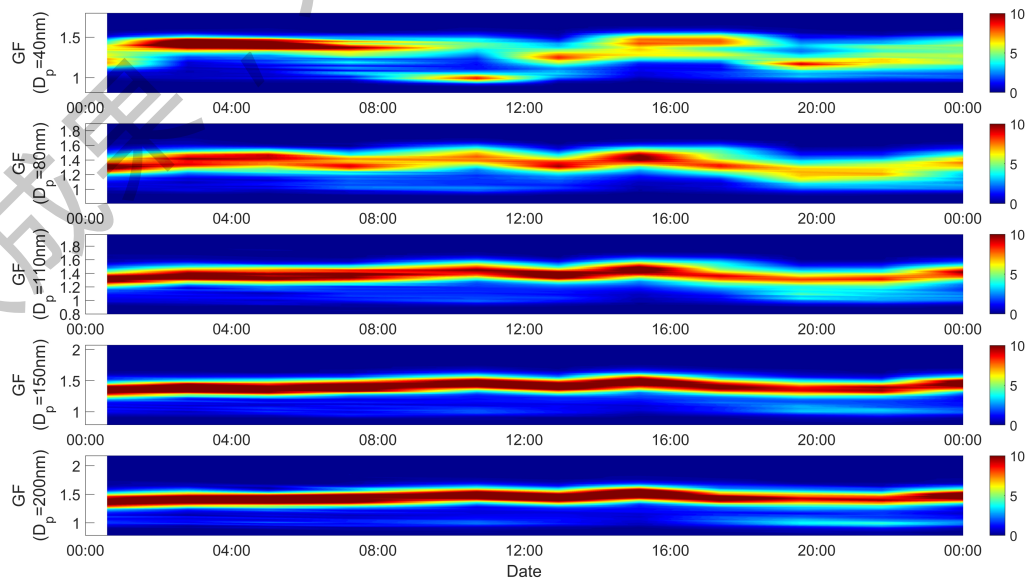




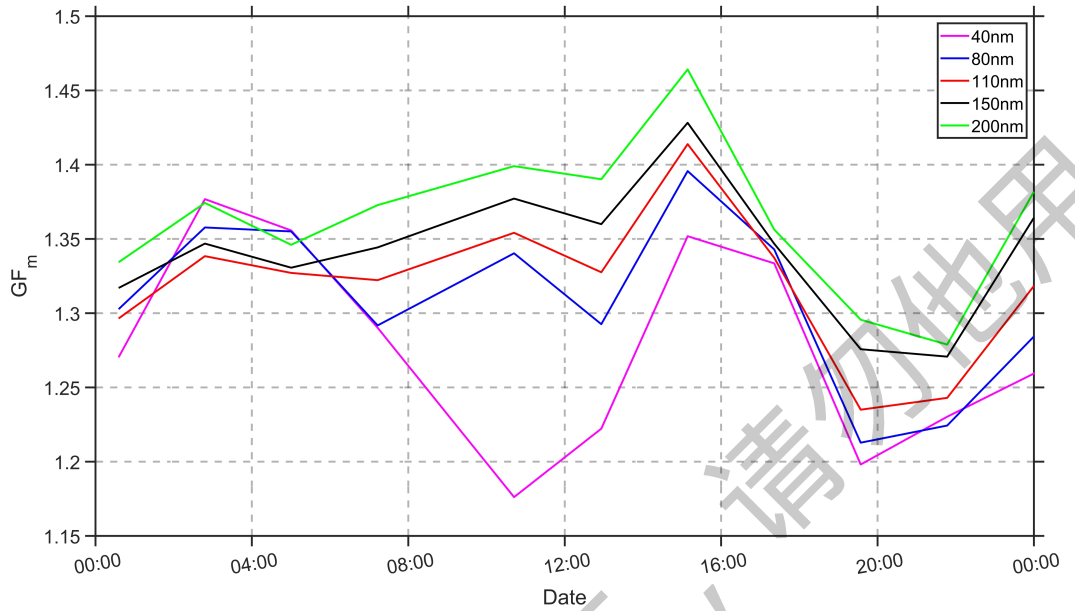
## (2) 仪器湿度控制



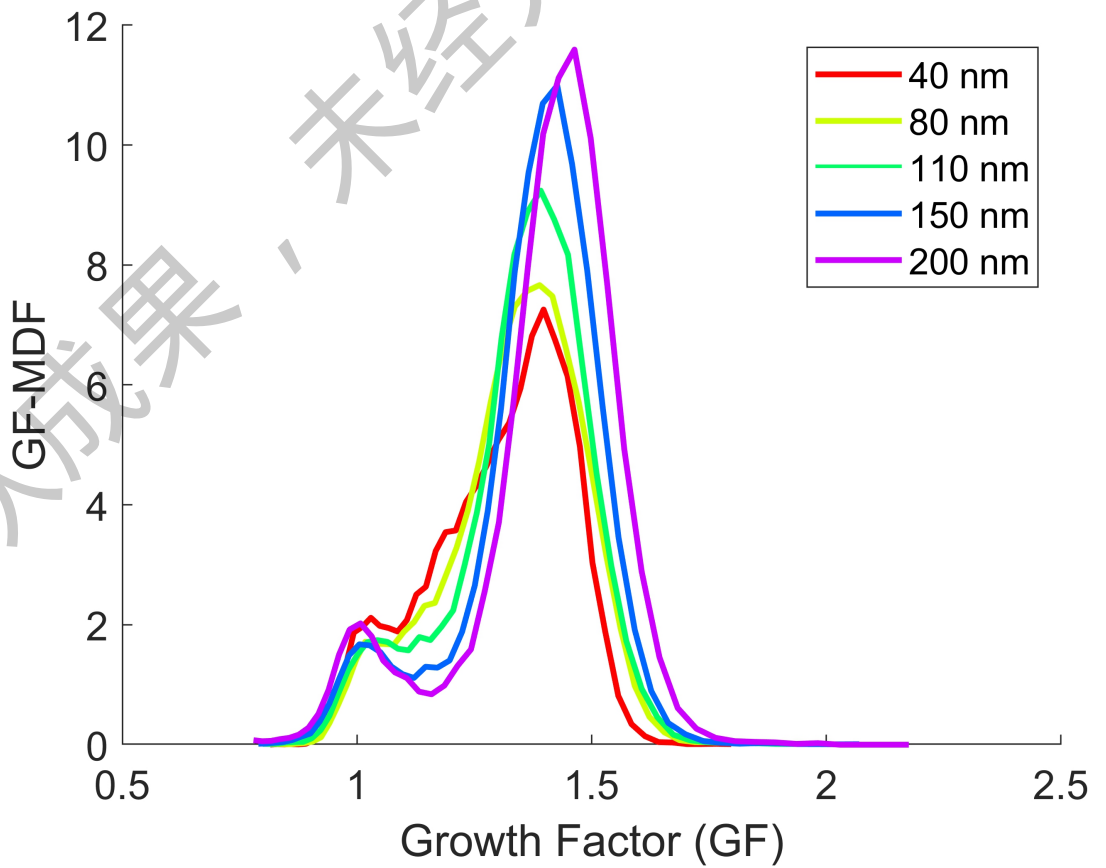
## (3) 吸湿性生长因子测量谱分布



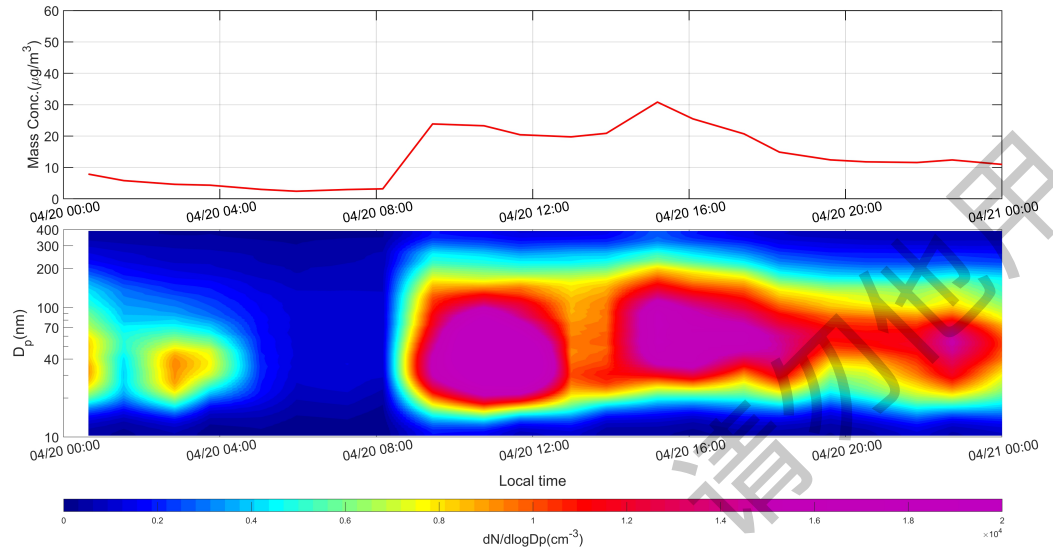
#### (4) 谱平均吸湿性生长因子



#### (5) 时间平均吸湿性生长因子



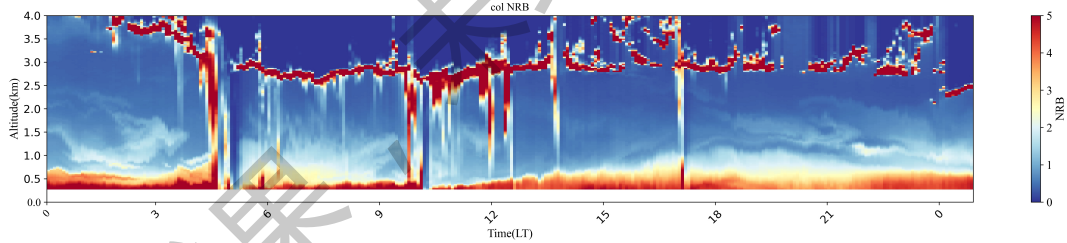
## (6) 气溶胶数浓度粒子谱分布



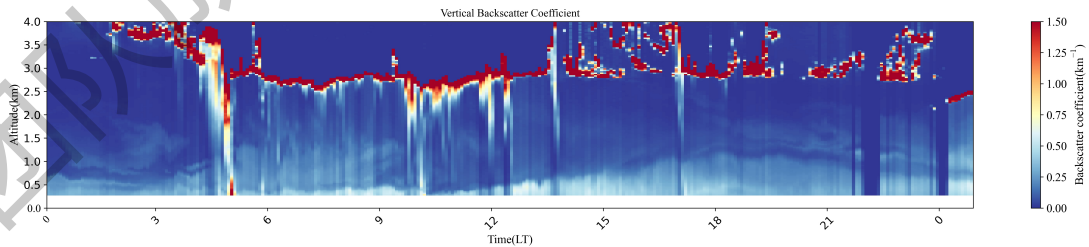
作图：胡嵘

## 6. 微脉冲激光雷达 (MPL)

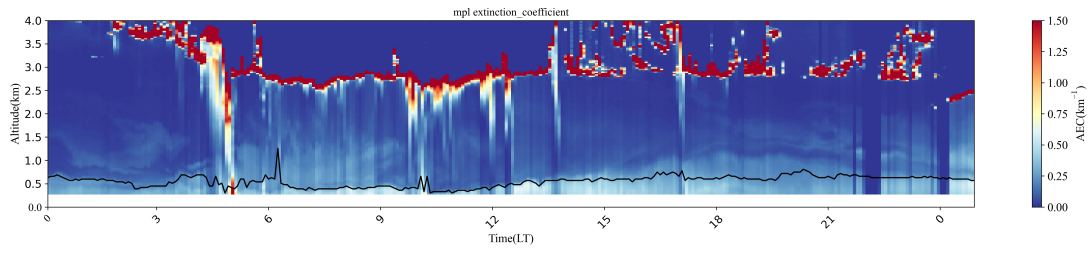
### (1) NRB



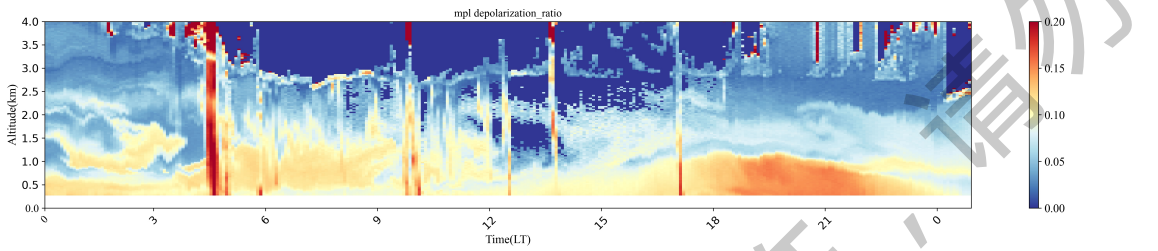
### (2) 后向散射系数



### (3) 消光系数与边界层高度



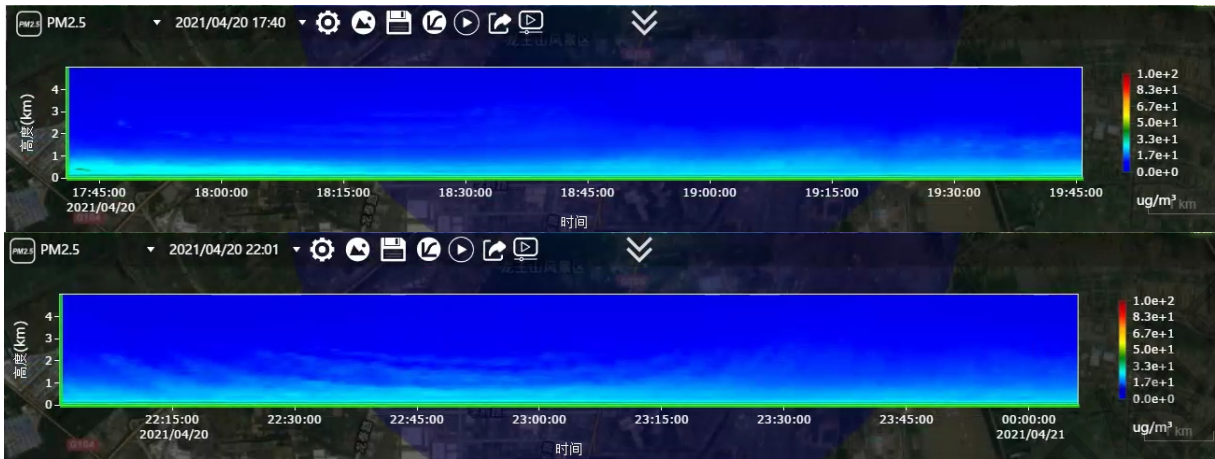
### (4) 退偏振比



作图：张寒

## 7. 3D 雷达

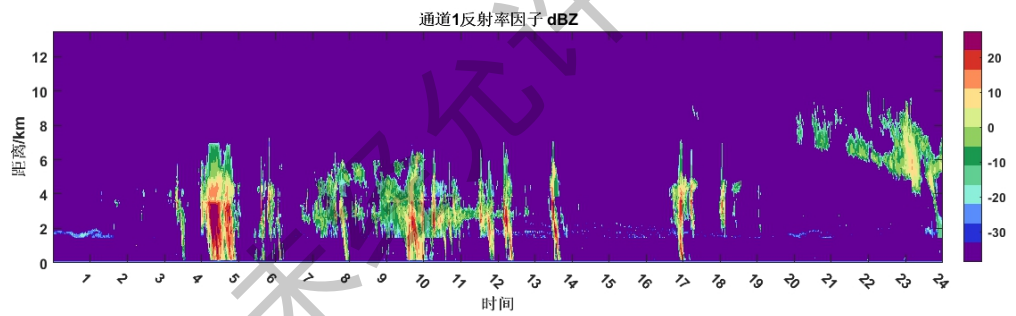




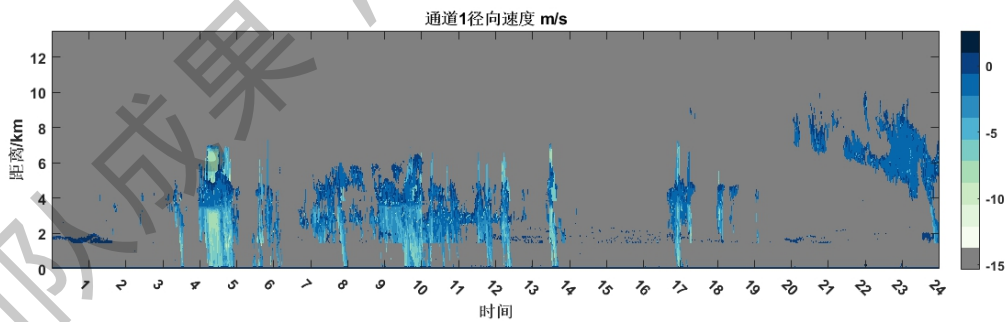
作图：张寒

## 8. 云雷达：

### (1) 反射率因子



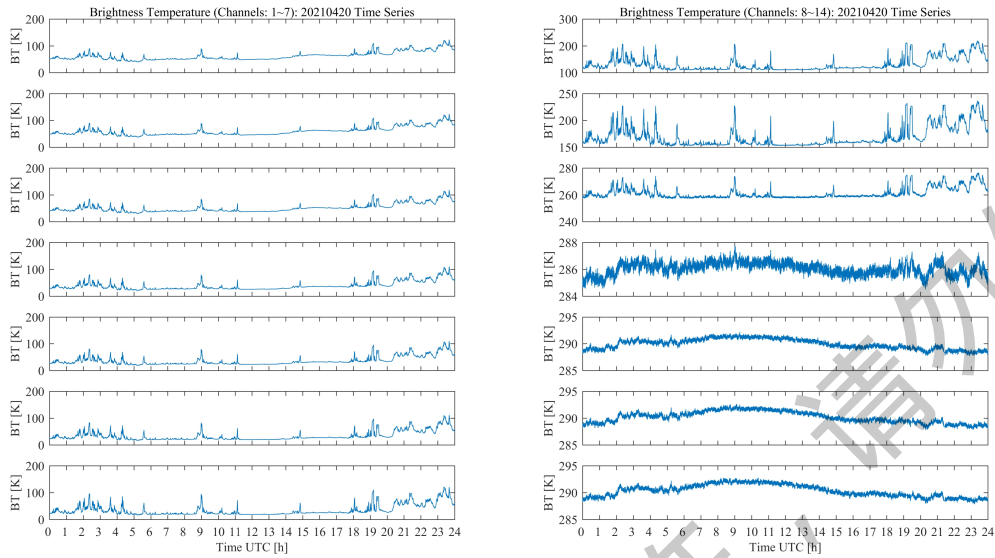
### (2) 径向速度



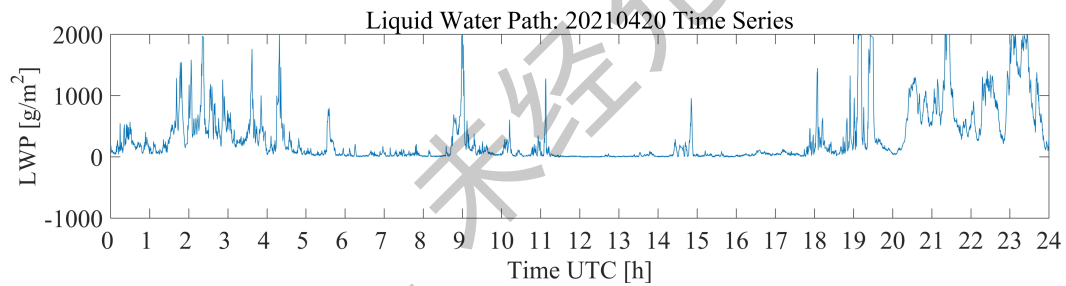
作图：吴懿璇

## 9. 微波辐射计

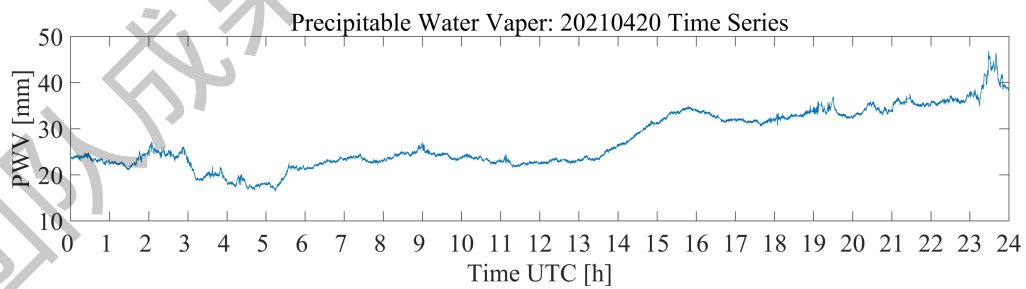
### (1) 亮温 (14 通道) 时序:



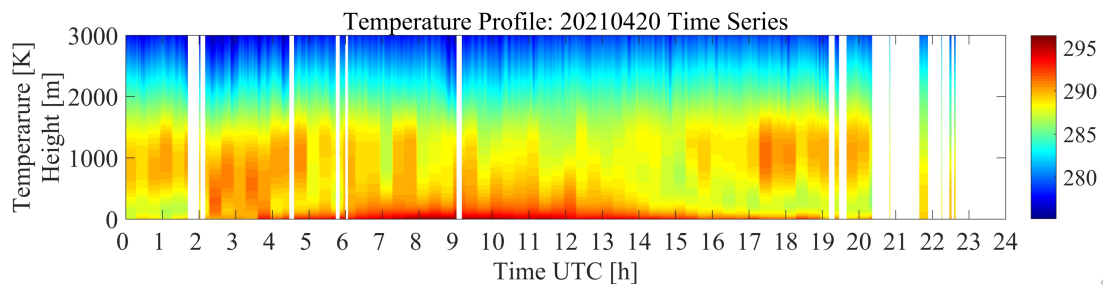
### (2) 液水路径时序:



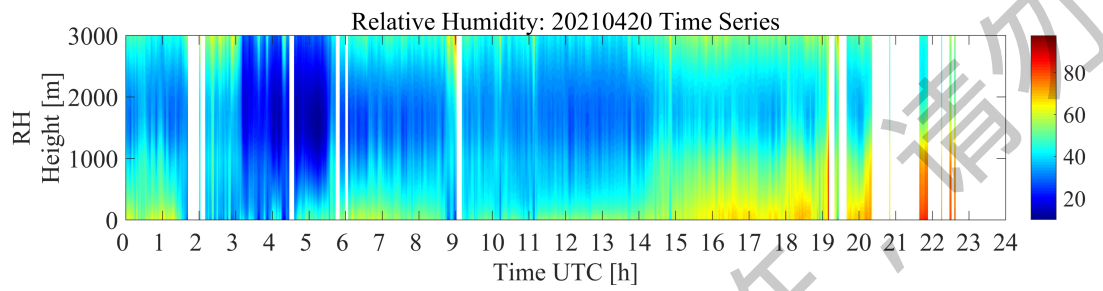
### (3) 可降水量时序:



#### (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