



Supplement of

Coupling the TKE-ACM2 Planetary Boundary Layer Scheme with the Building Effect Parameterization Model

Wanliang Zhang et al.

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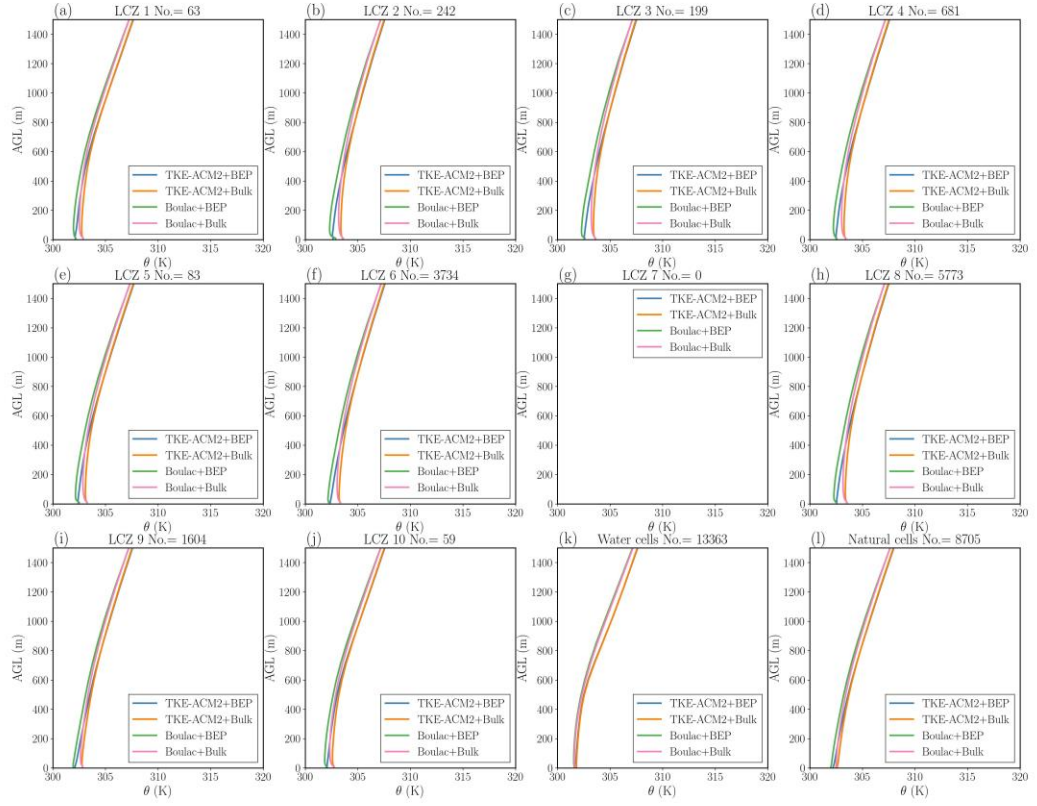


Fig. S1: Monthly averaged θ vertical profile at aggregated LCZ grids

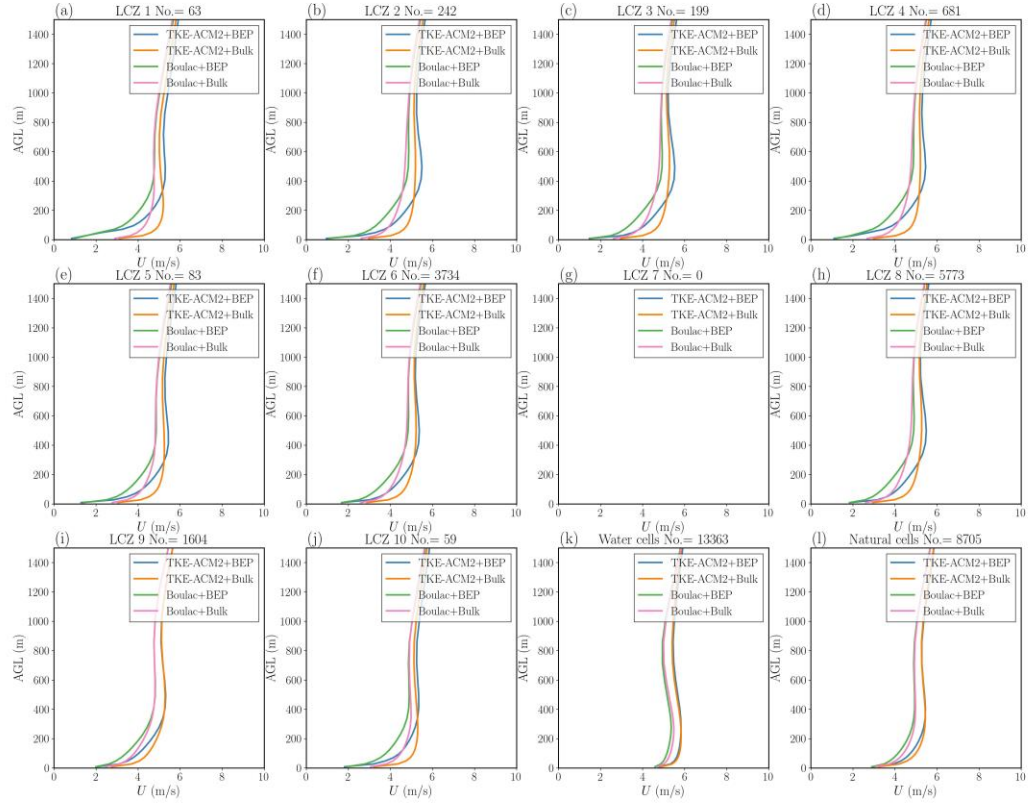


Fig. S2: Monthly averaged U vertical profile at aggregated LCZ grids

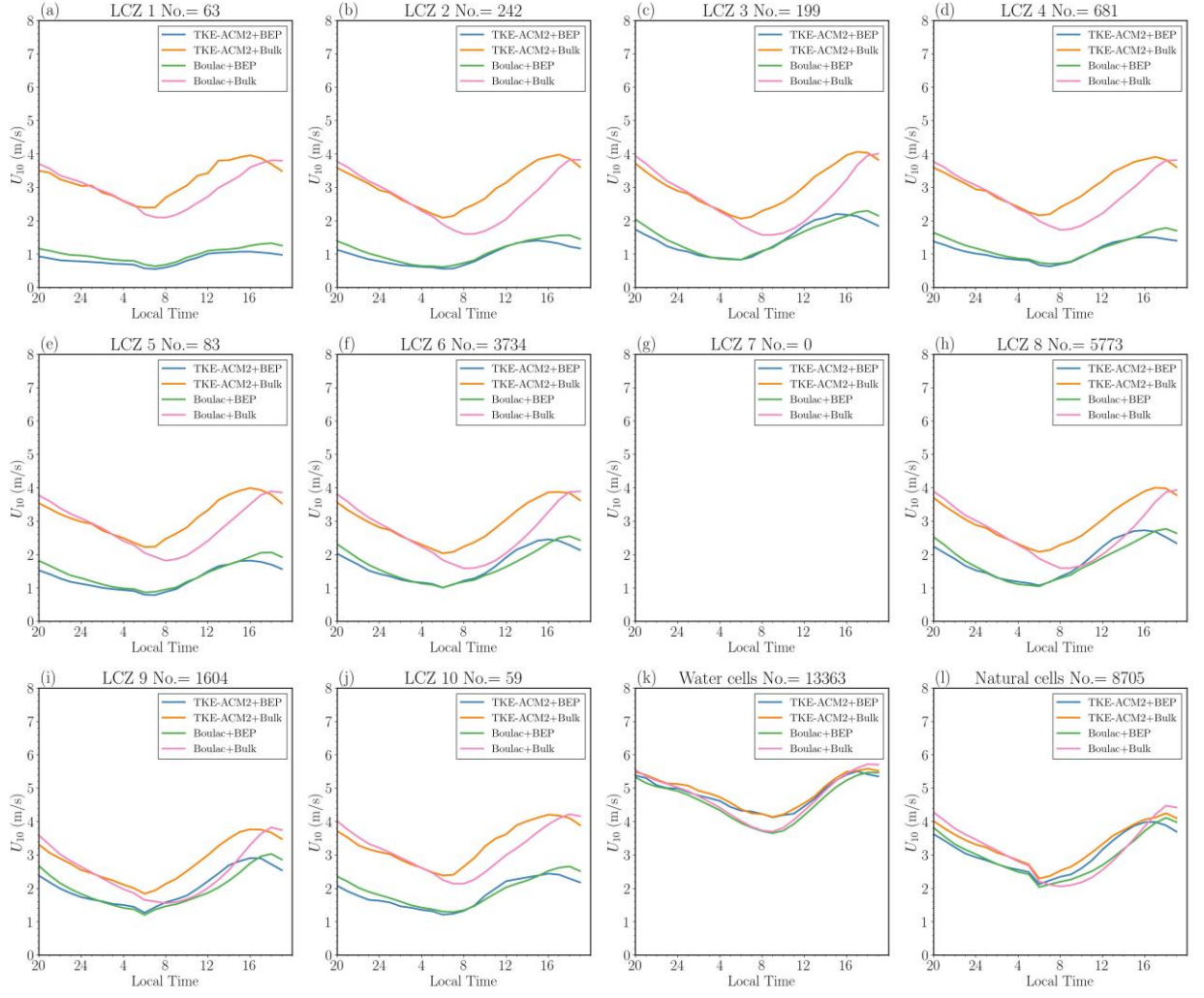


Fig. S3: Monthly averaged U_{10} diurnal cycle at aggregated LCZ grids

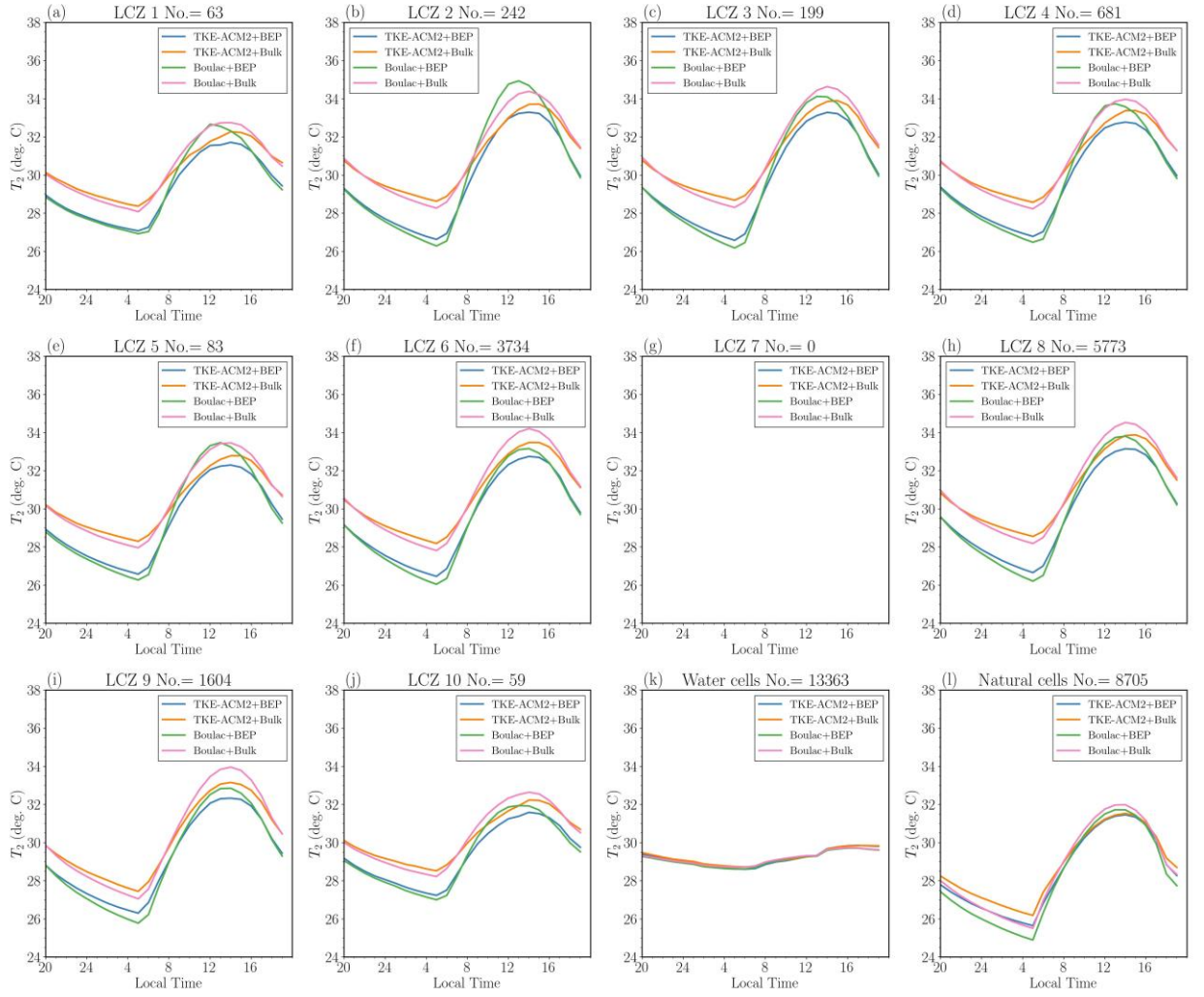


Fig. S4: Monthly averaged T_2 diurnal cycle at aggregated LCZ grids

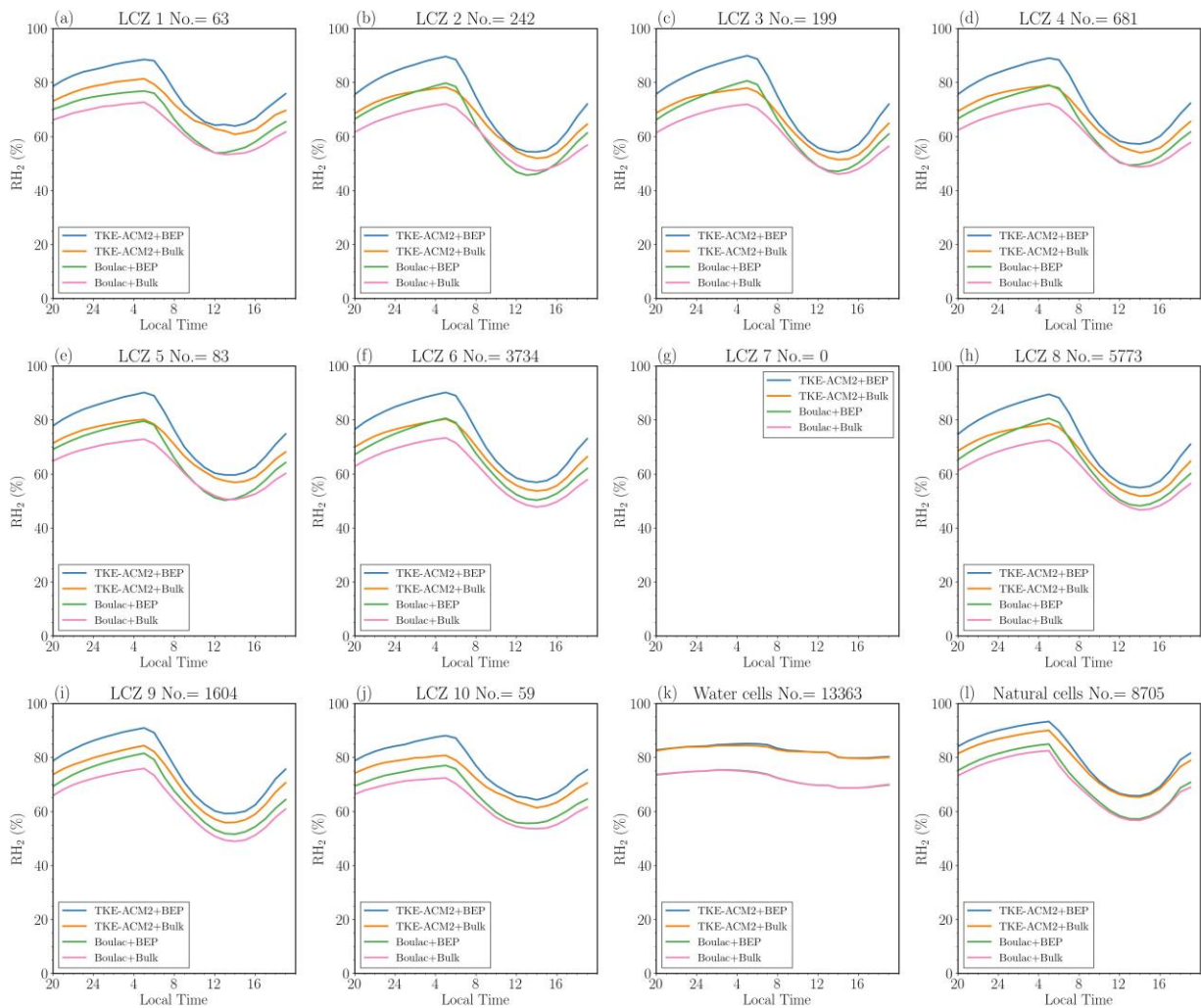


Fig. S5: Monthly averaged RH_2 diurnal cycle at aggregated LCZ grids

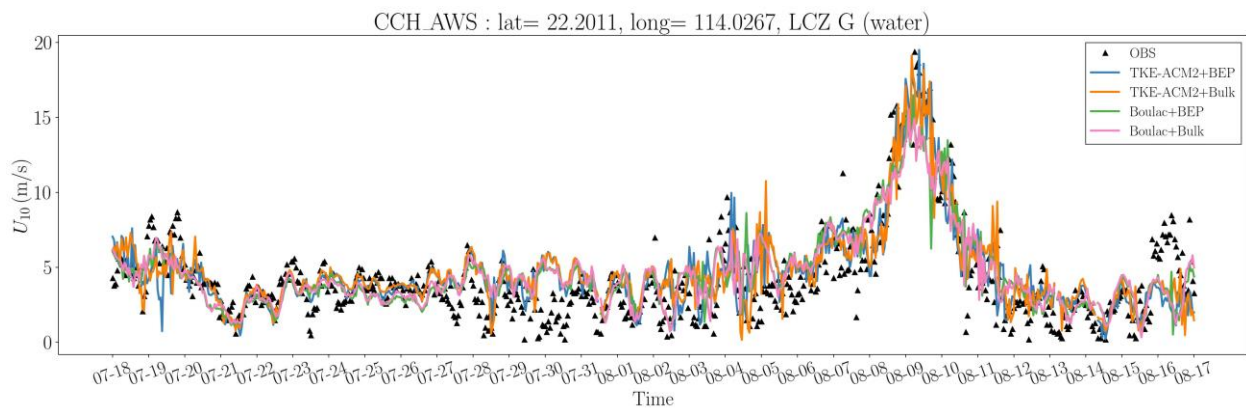


Fig. S6: U_{10} at CCH_AWS station.

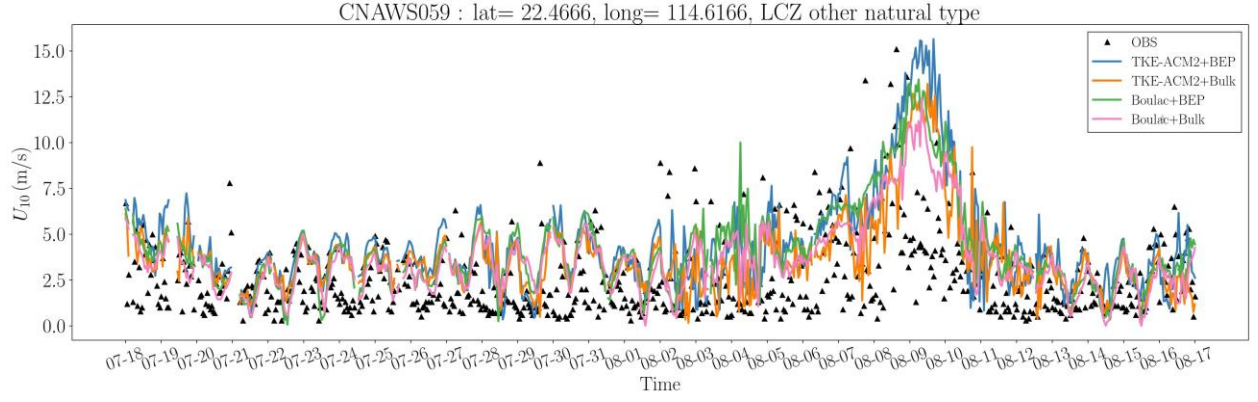


Fig. S7: U_{10} at CNAWS059 station.

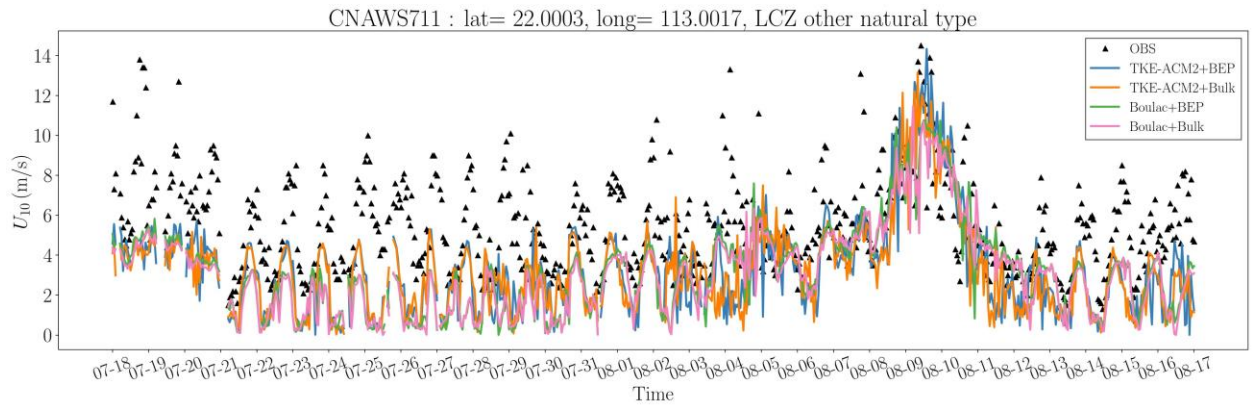


Fig. S8: U_{10} at CNAWS711 station.

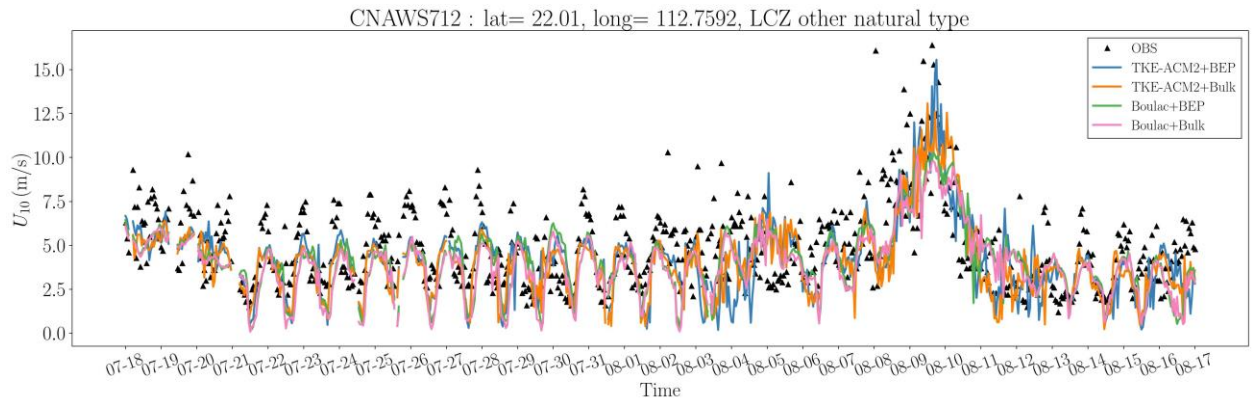


Fig. S9: U_{10} at CNAWS712 station.

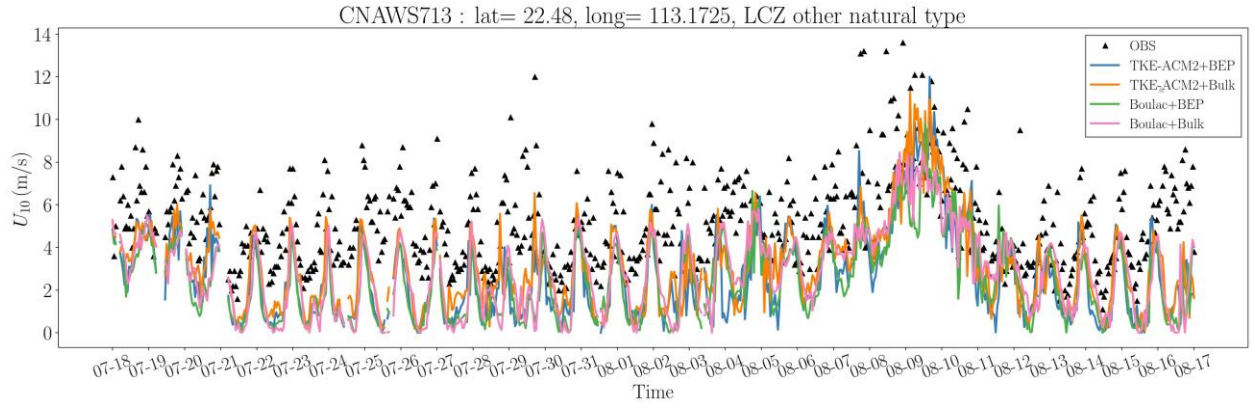


Fig. S10: U_{10} at CNAWS713 station.

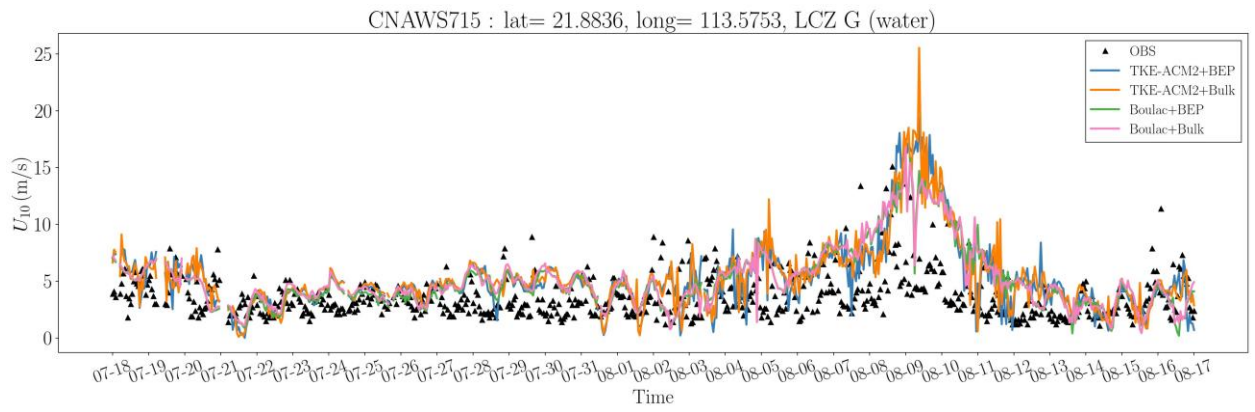


Fig. S11: U_{10} at CNAWS715 station.

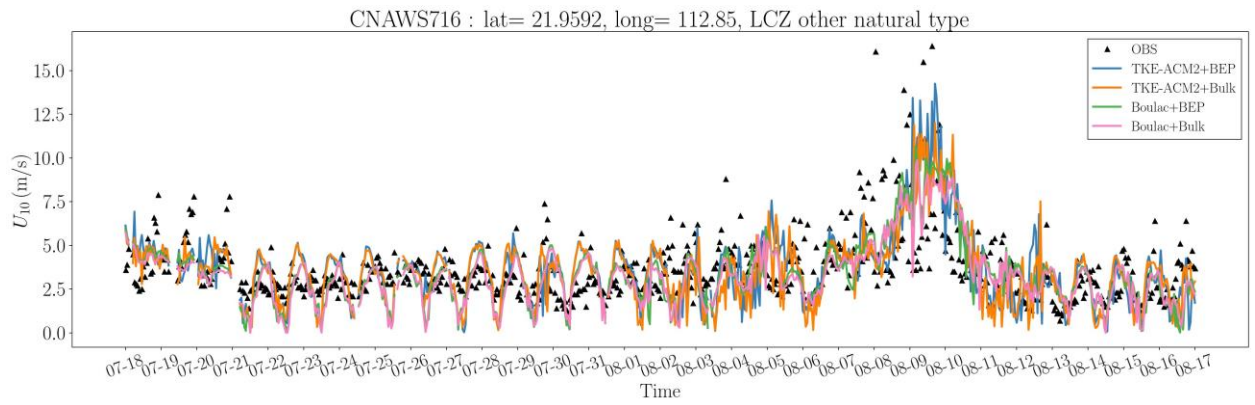


Fig. S12: U_{10} at CNAWS716 station.

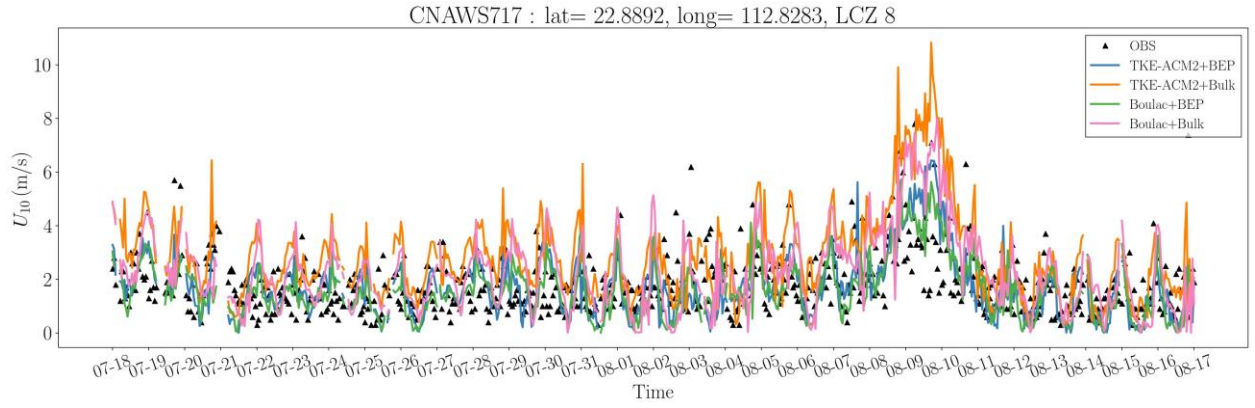


Fig. S13: U_{10} at CNAWS717 station.

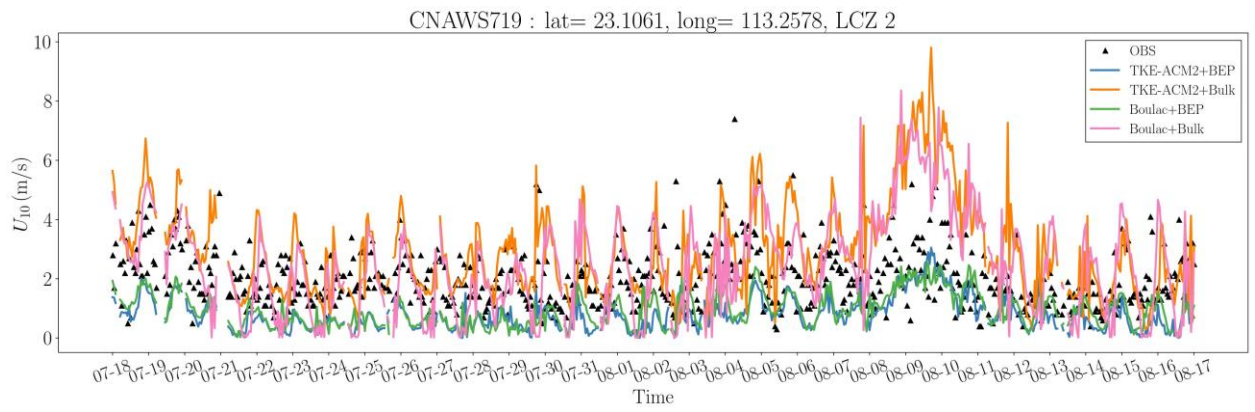


Fig. S14: U_{10} at CNAWS719 station.

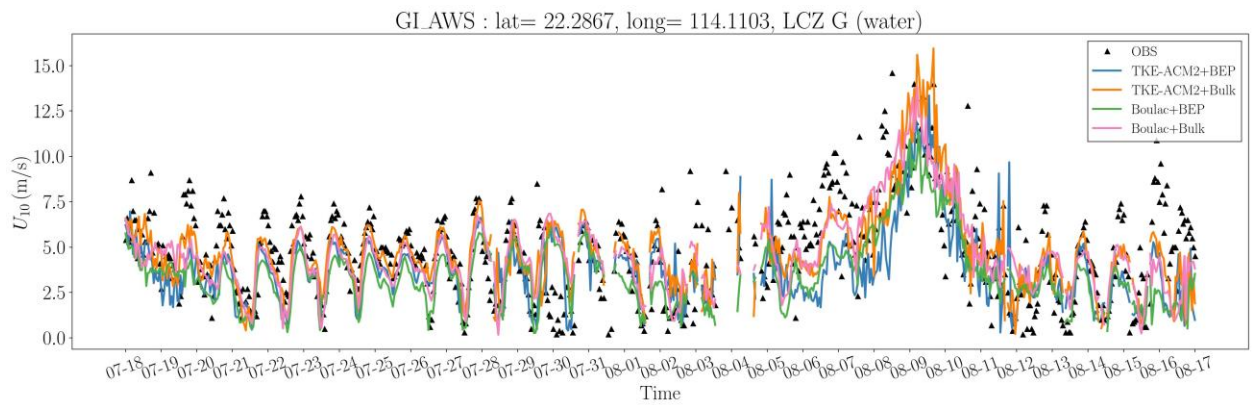


Fig. S15: U_{10} at GI_AWS station.

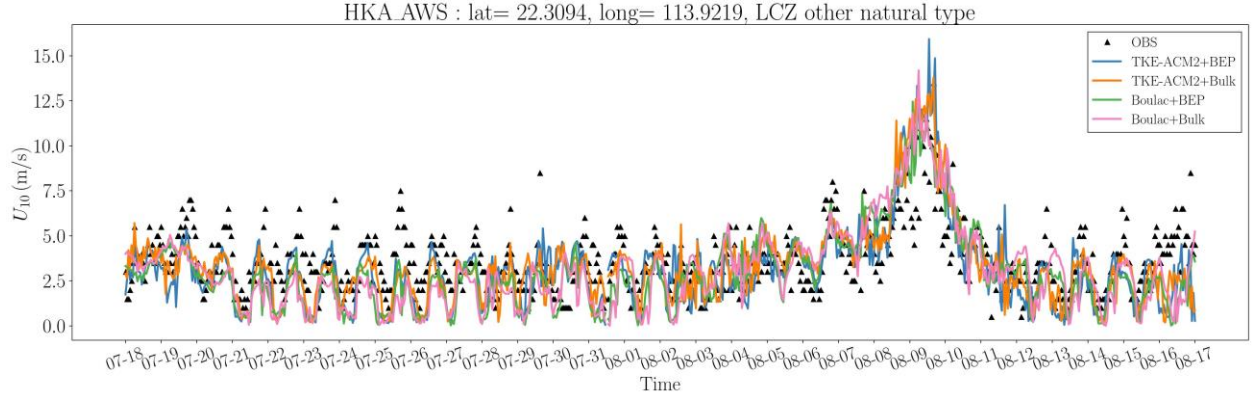


Fig. S16: U_{10} at HKA_AWS station.

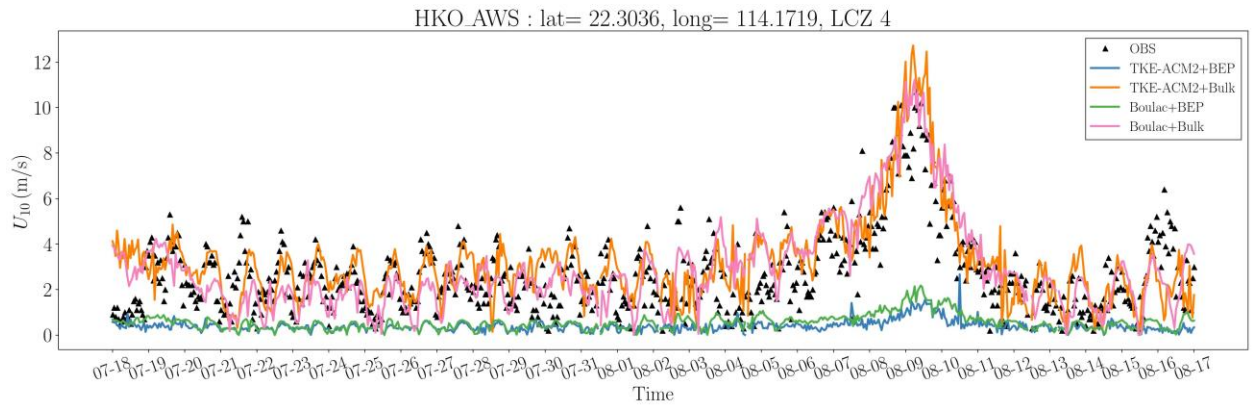


Fig. S17: U_{10} at HKO_AWS station.

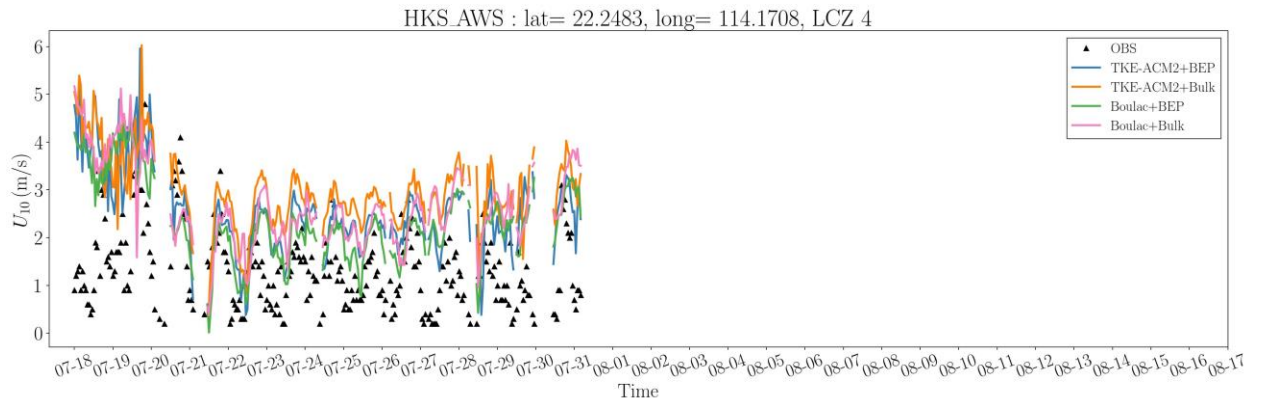


Fig. S18: U_{10} at HKS_AWS station.

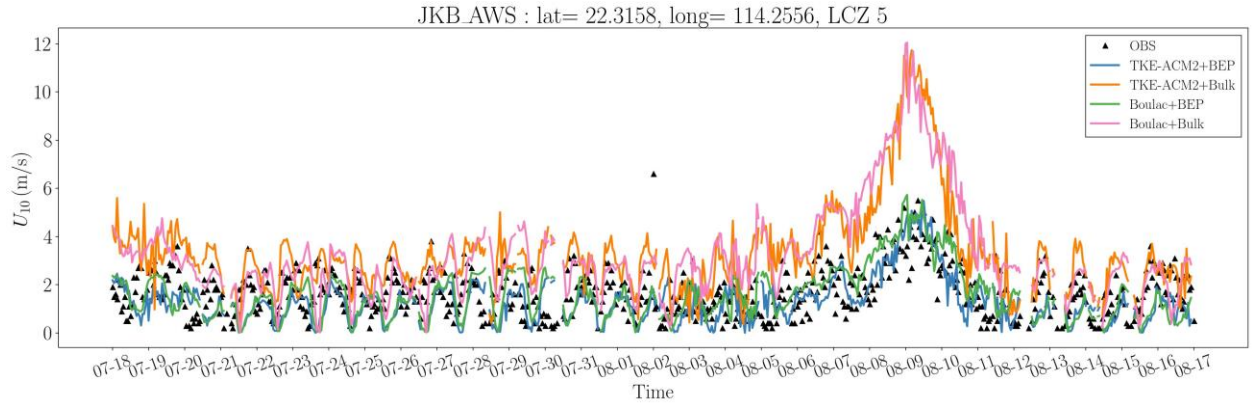


Fig. S19: U_{10} at JKB_AWS station.

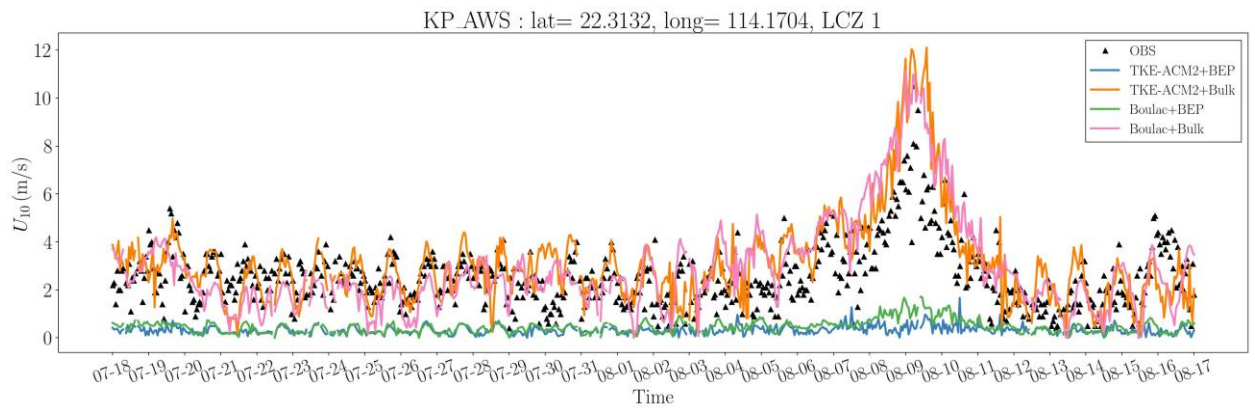


Fig. S20: U_{10} at KP_AWS station.

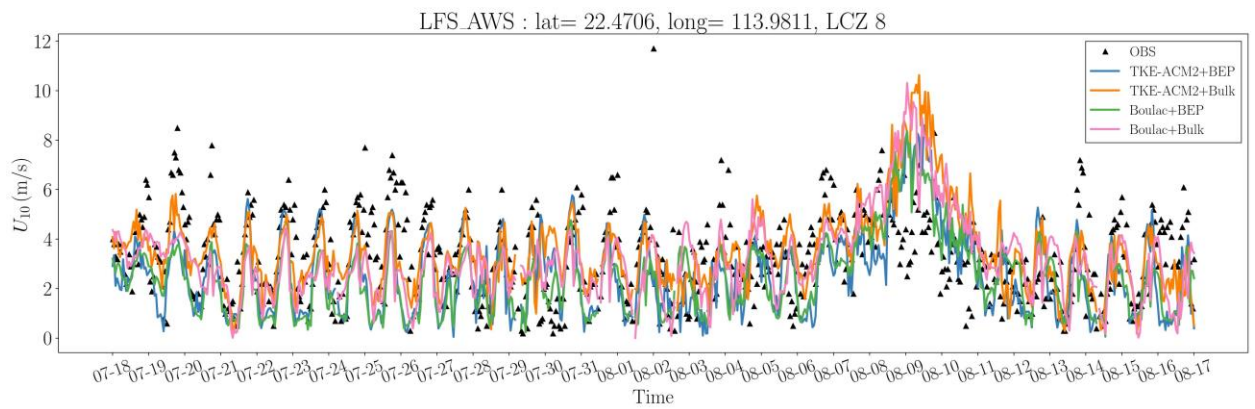


Fig. S21: U_{10} at LFS_AWS station.

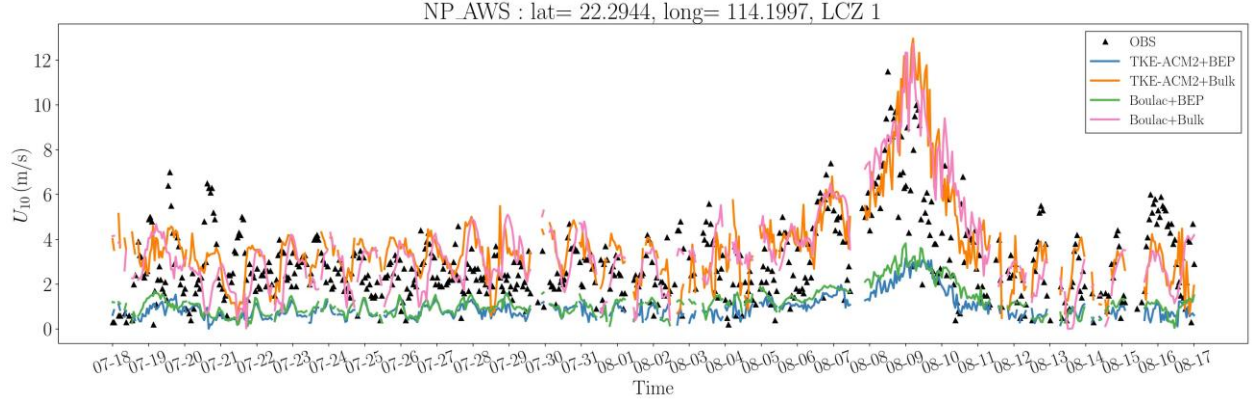


Fig. S22: U_{10} at NP_AWS station.

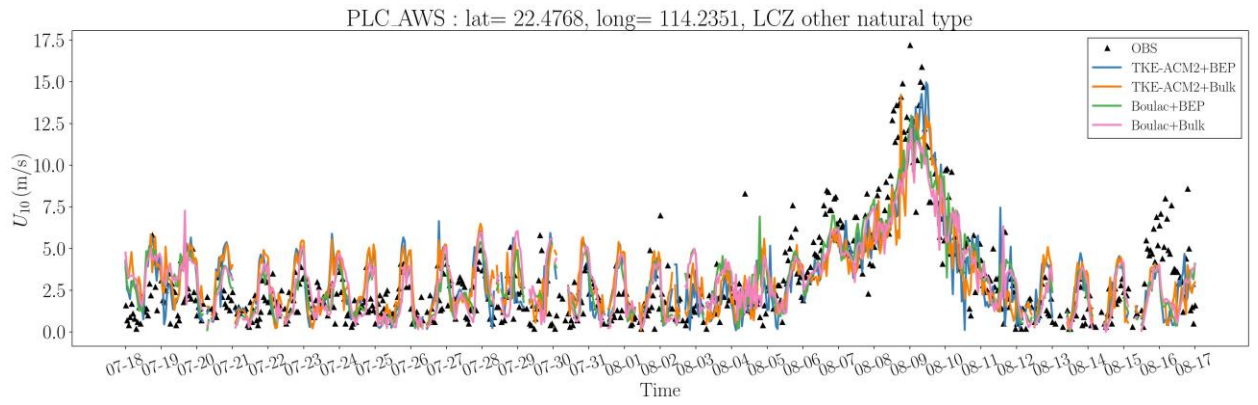


Fig. S23: U_{10} at PLC_AWS station.

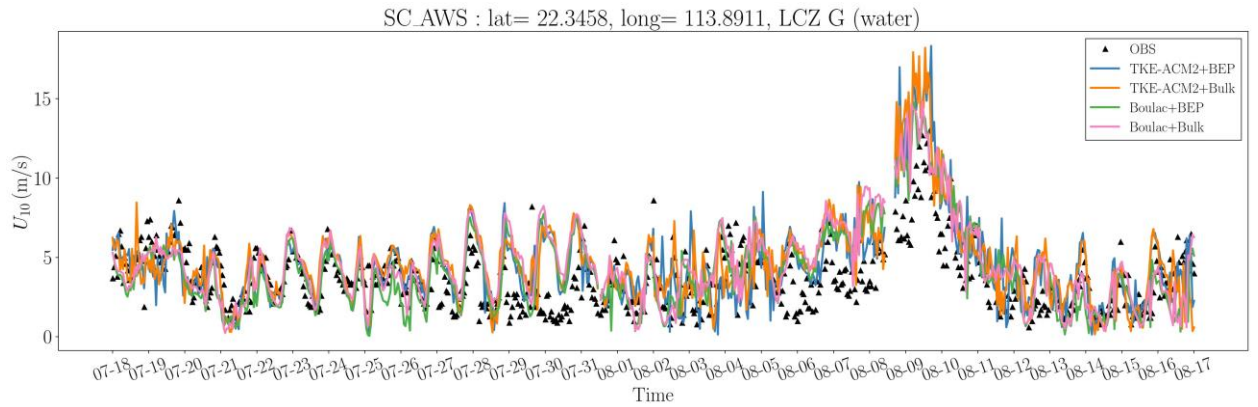


Fig. S24: U_{10} at SC_AWS station.

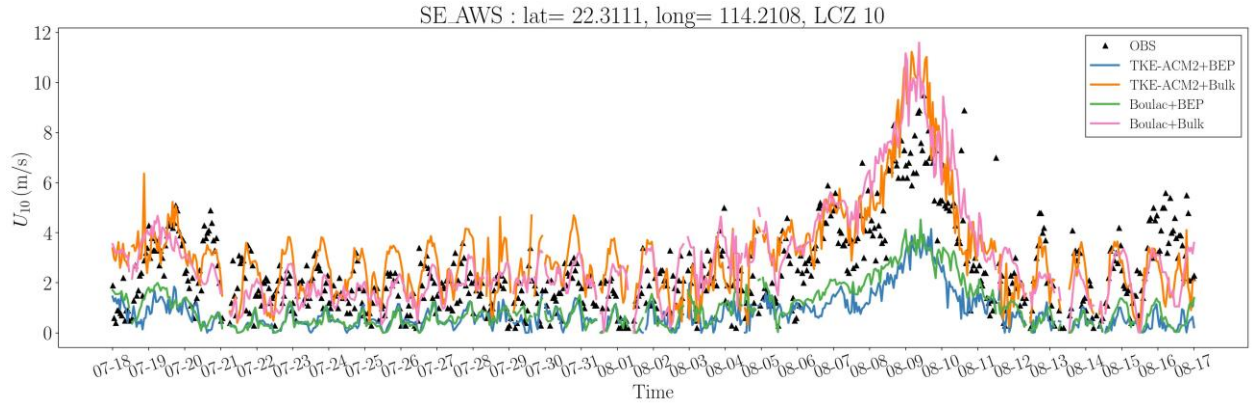


Fig. S25: U_{10} at SE_AWS station.

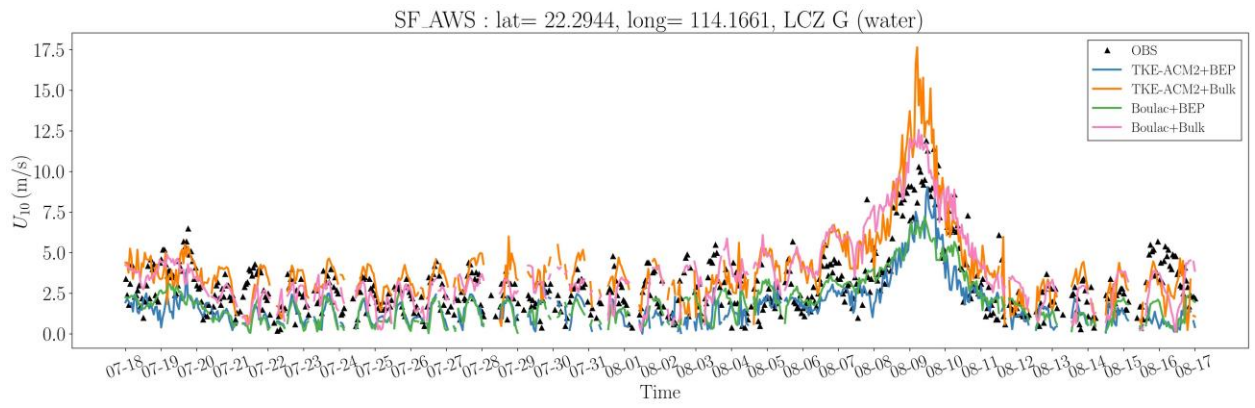


Fig. S26: U_{10} at SF_AWS station.

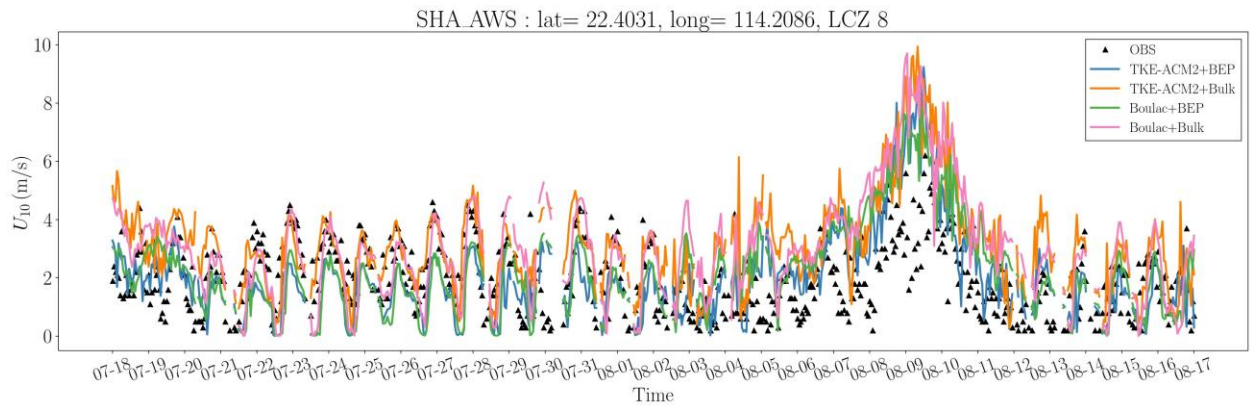


Fig. S27: U_{10} at SHA_AWS station.

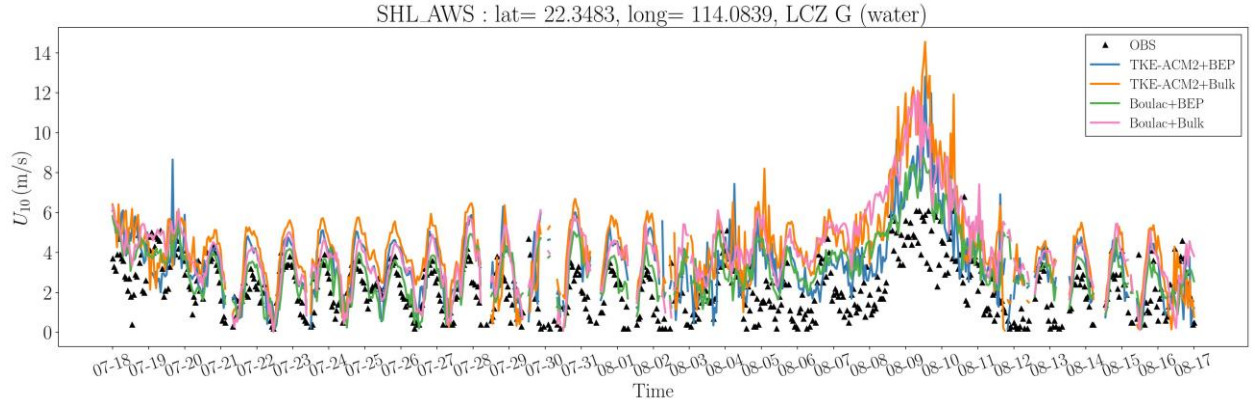


Fig. S28: U_{10} at SHL_AWS station.

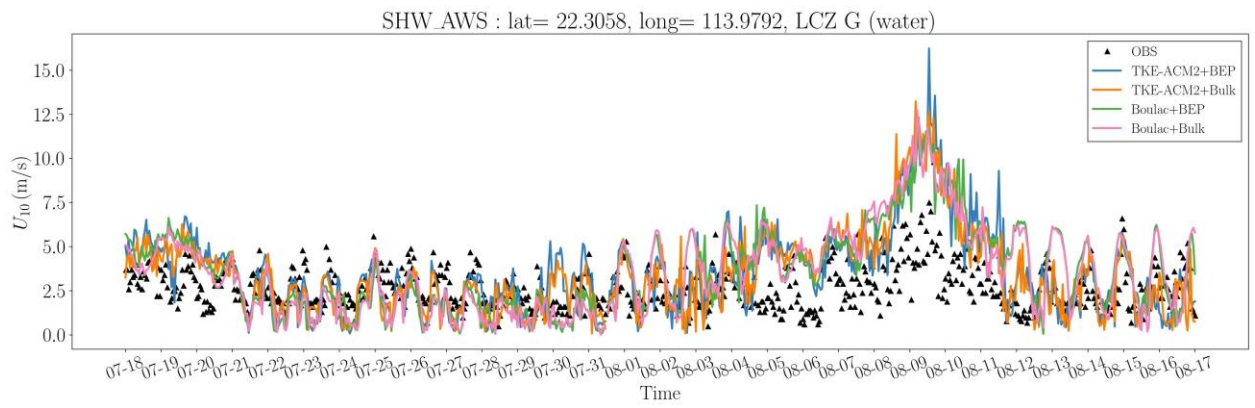


Fig. S29: U_{10} at SHW_AWS station.

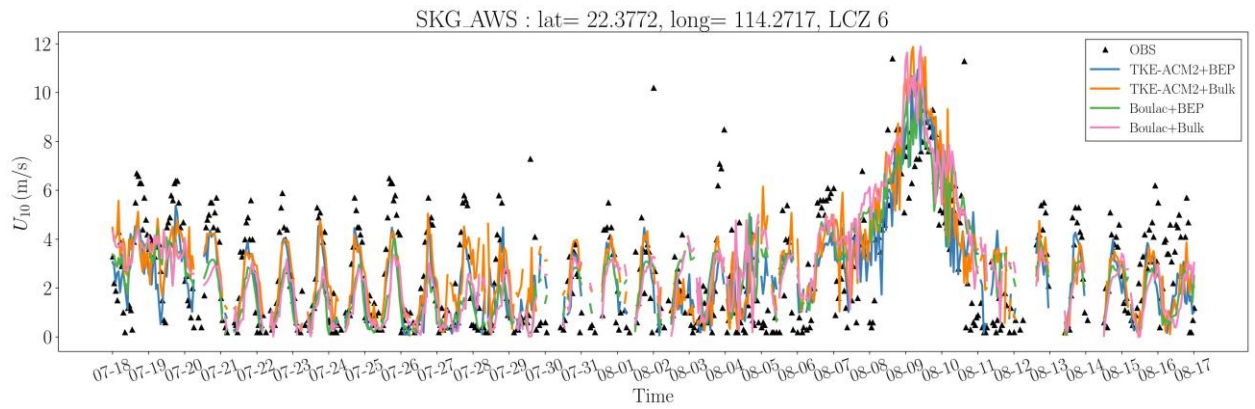


Fig. S30: U_{10} at SKG_AWS station.

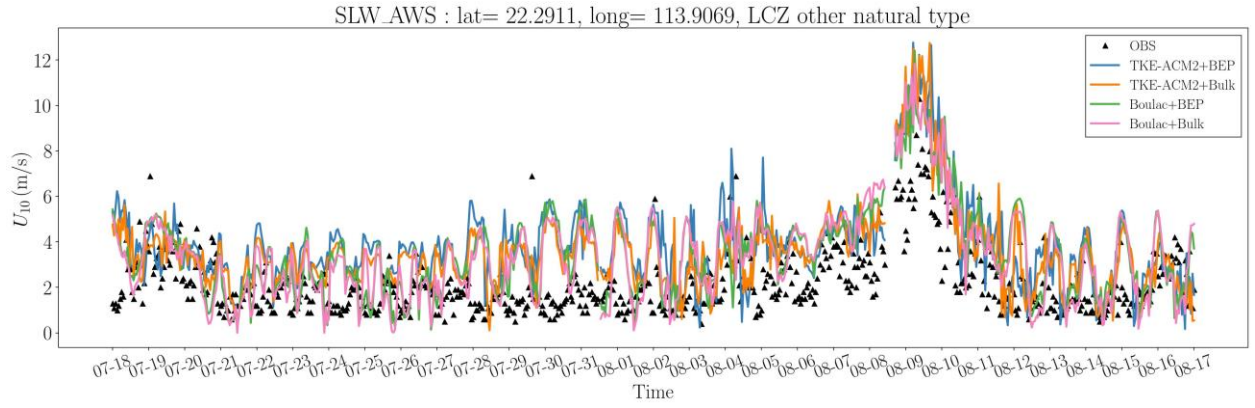


Fig. S31: U_{10} at SLW_AWS station.

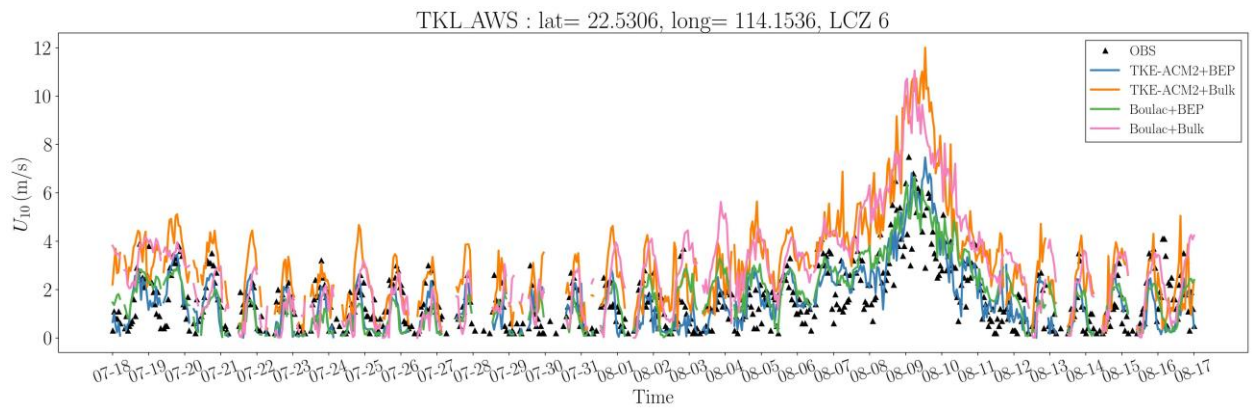


Fig. S32: U_{10} at TKL_AWS station.

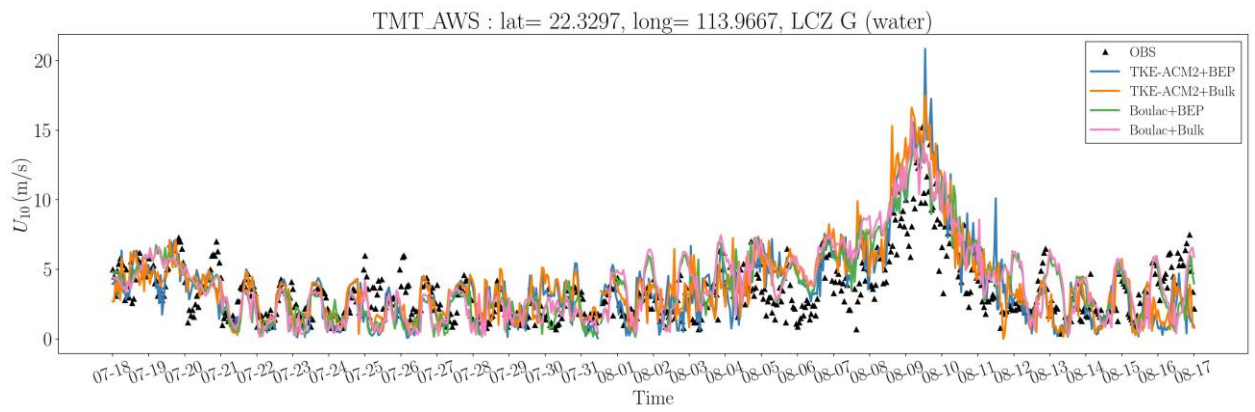


Fig. S33: U_{10} at TMT_AWS station.

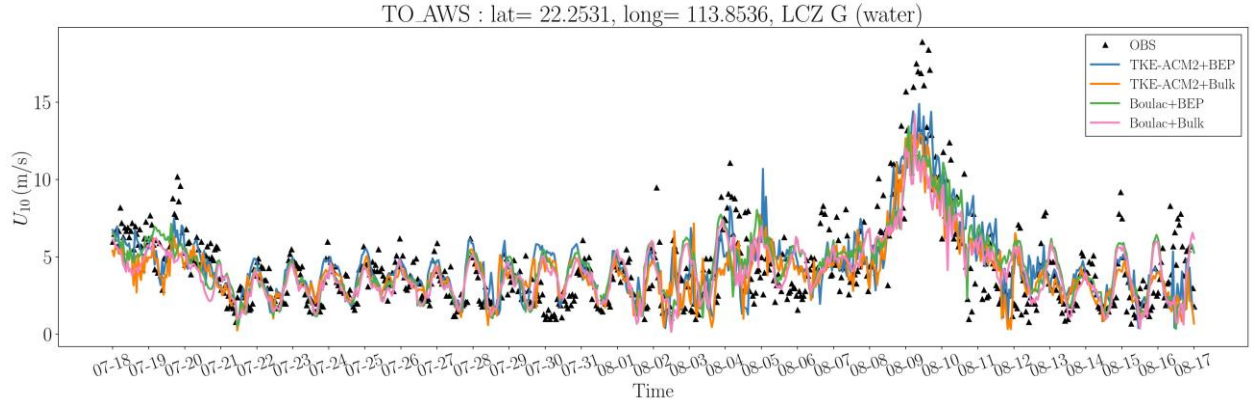


Fig. S34: U_{10} at TO_AWS station.

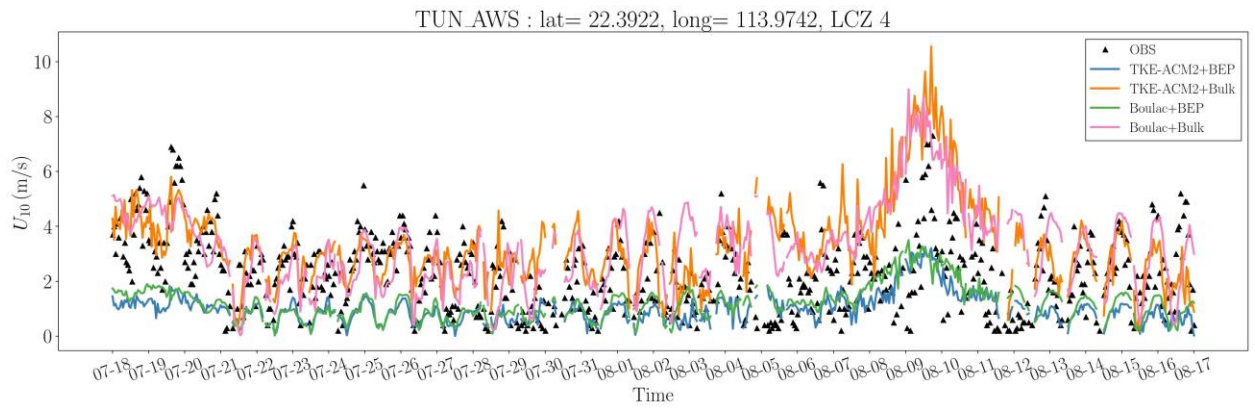


Fig. S35: U_{10} at TUN_AWS station.

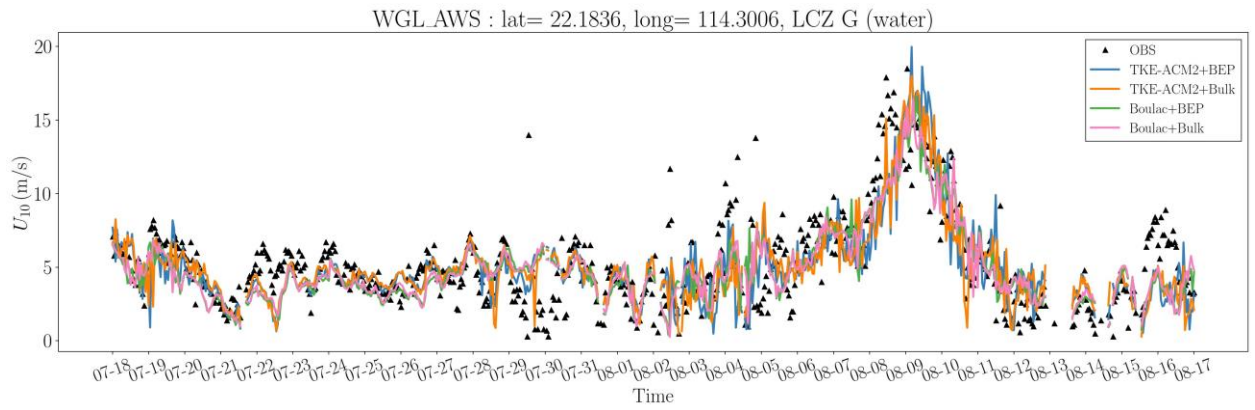


Fig. S36: U_{10} at WGL_AWS station.

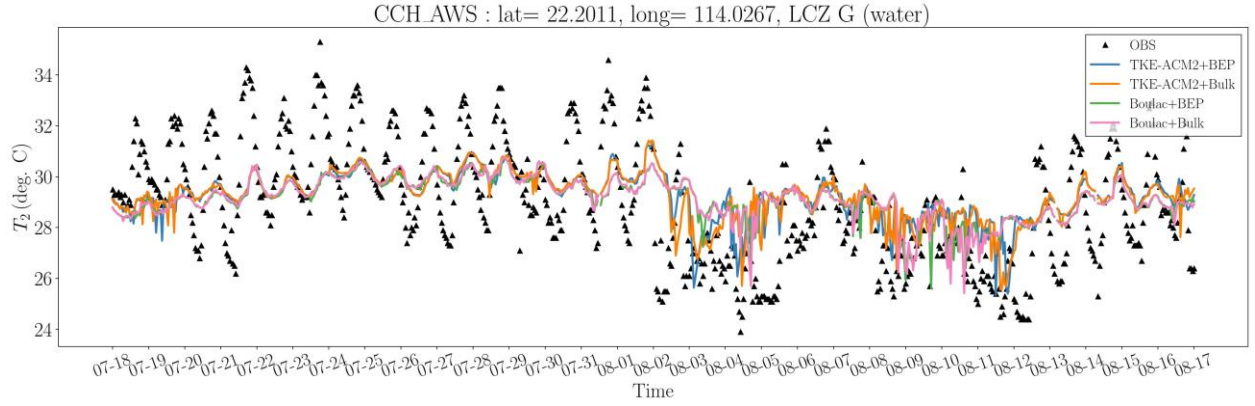


Fig. S37: T_2 at CCH_AWS station.

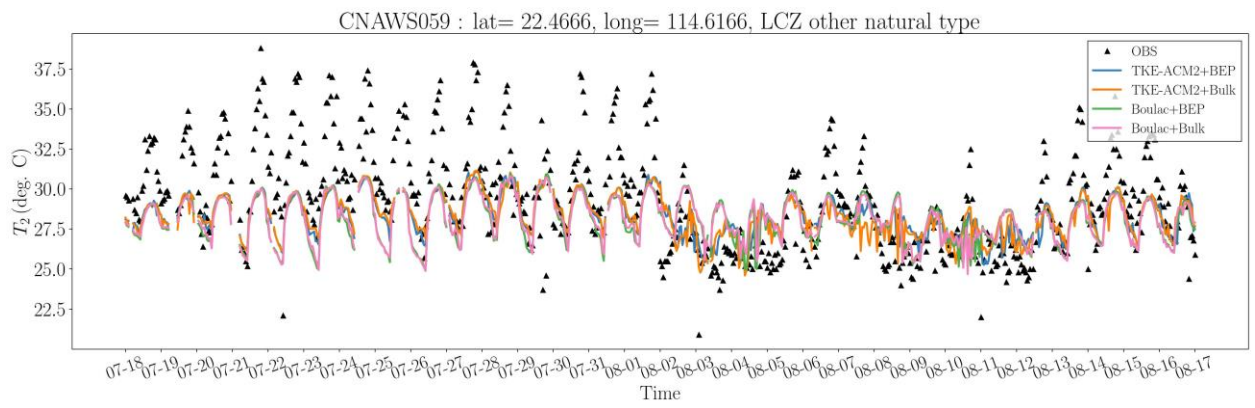


Fig. S38: T_2 at CNAWS059 station.

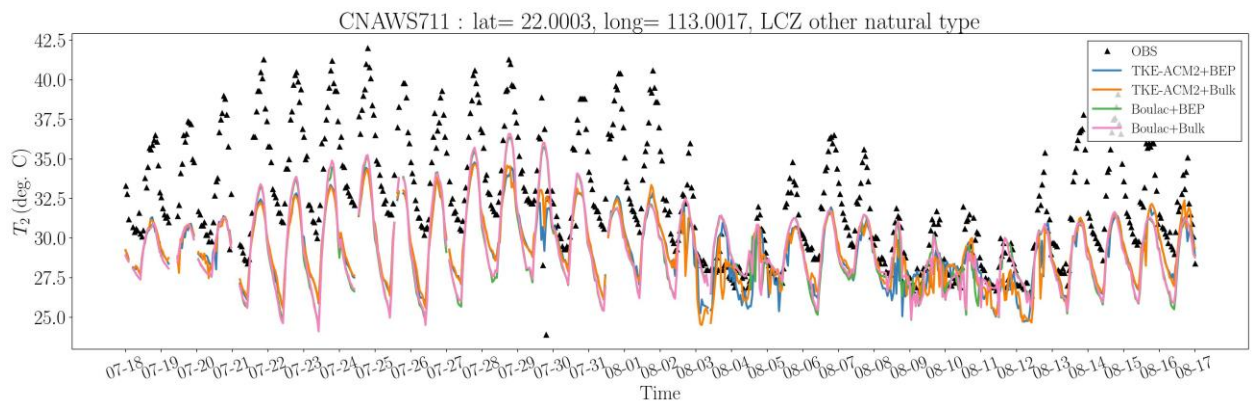


Fig. S39: T_2 at CNAWS711 station.

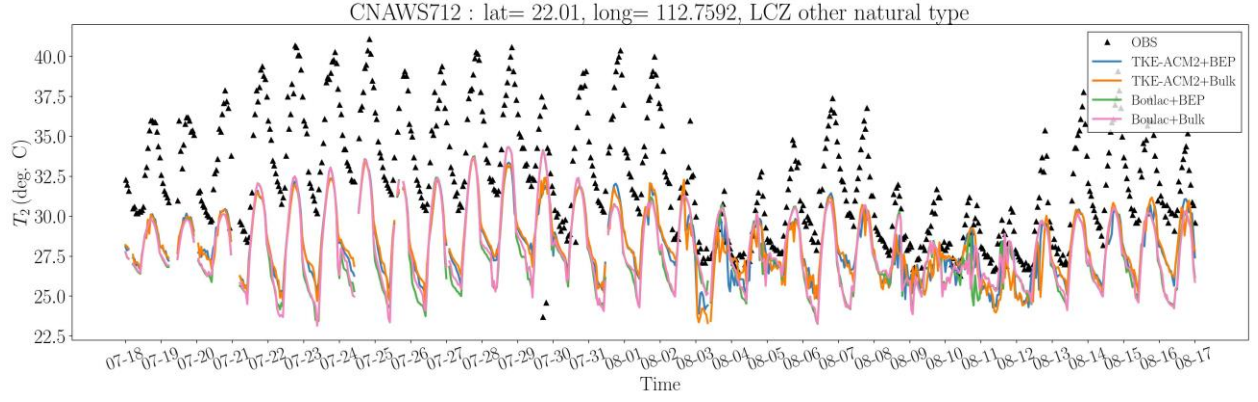


Fig. S40: T_2 at CNAWS712 station.

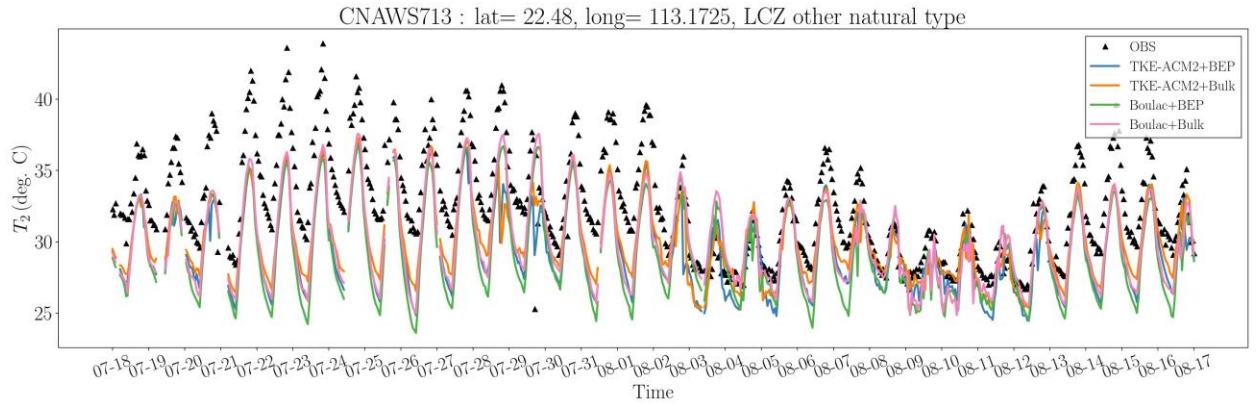


Fig. S41: T_2 at CNAWS713 station.

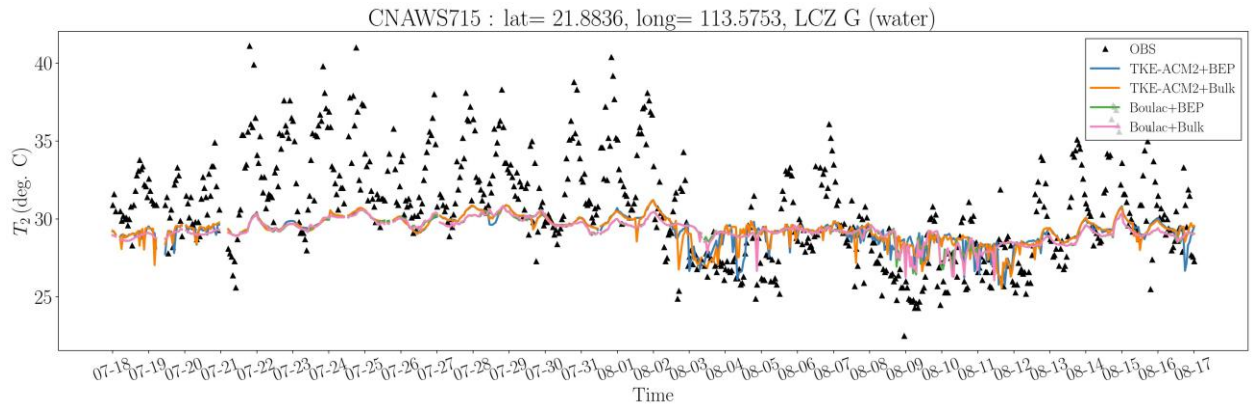


Fig. S42: T_2 at CNAWS715 station.

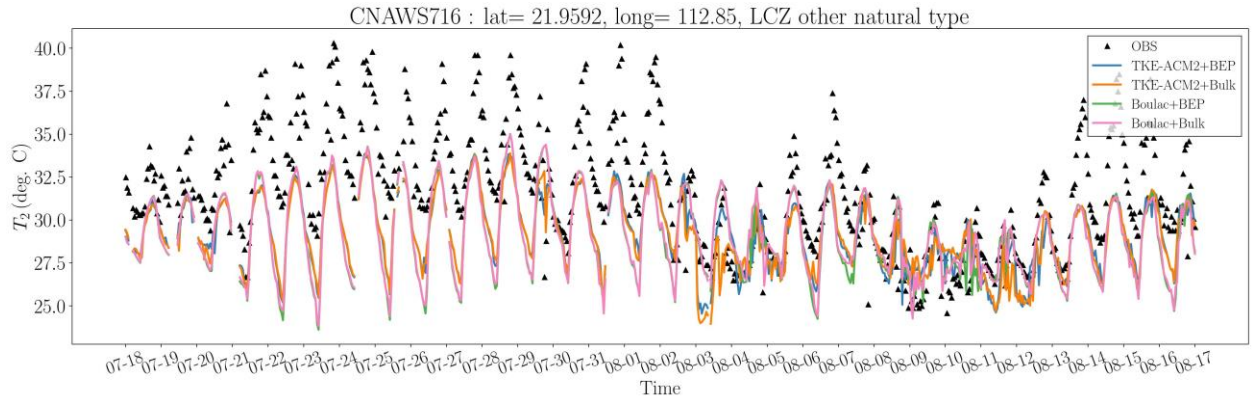


Fig. S43: T_2 at CNAWS716 station.

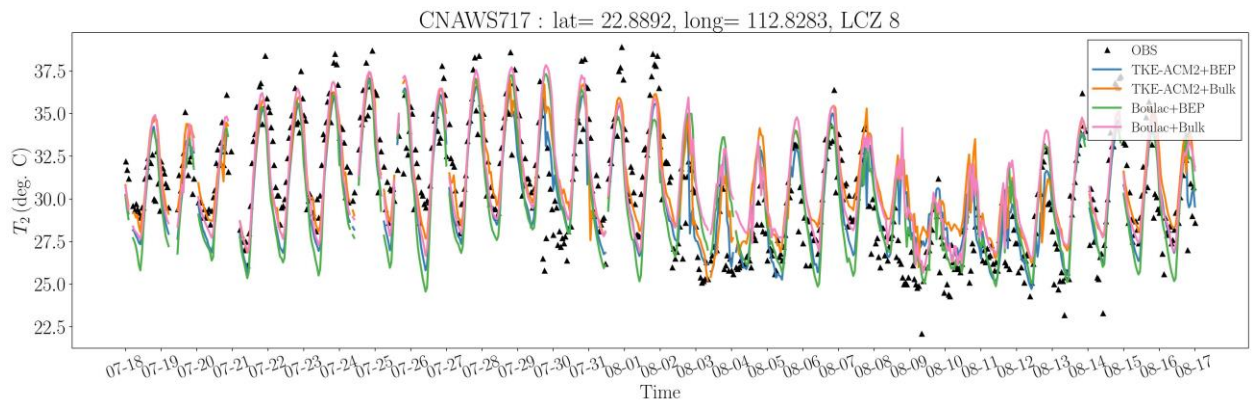


Fig. S44: T_2 at CNAWS717 station.

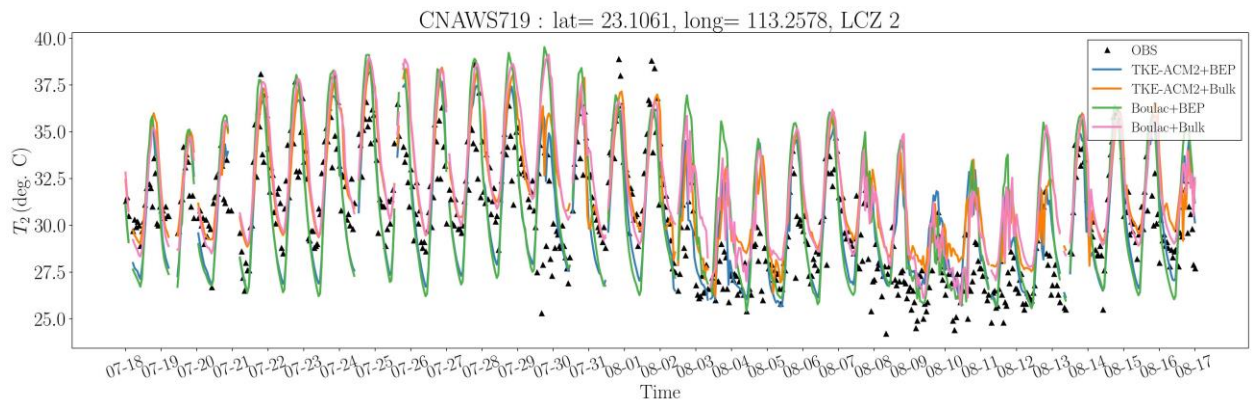


Fig. S45: T_2 at CNAWS719 station.

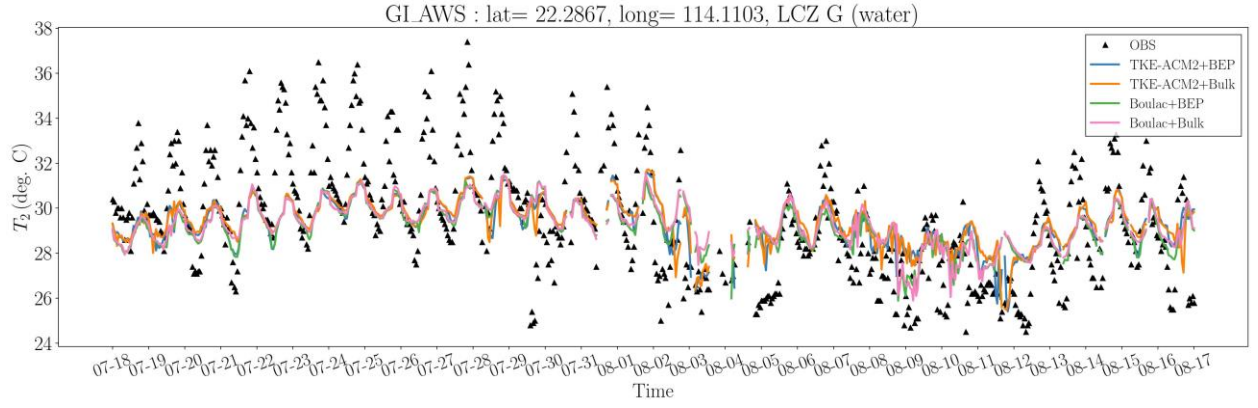


Fig. S46: T_2 at GI_AWS station.

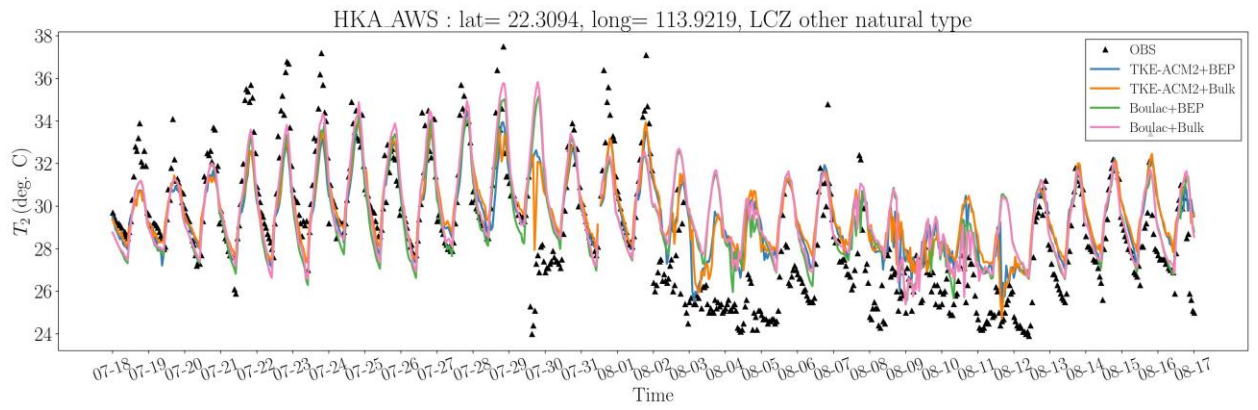


Fig. S47: T_2 at HKA_AWS station.

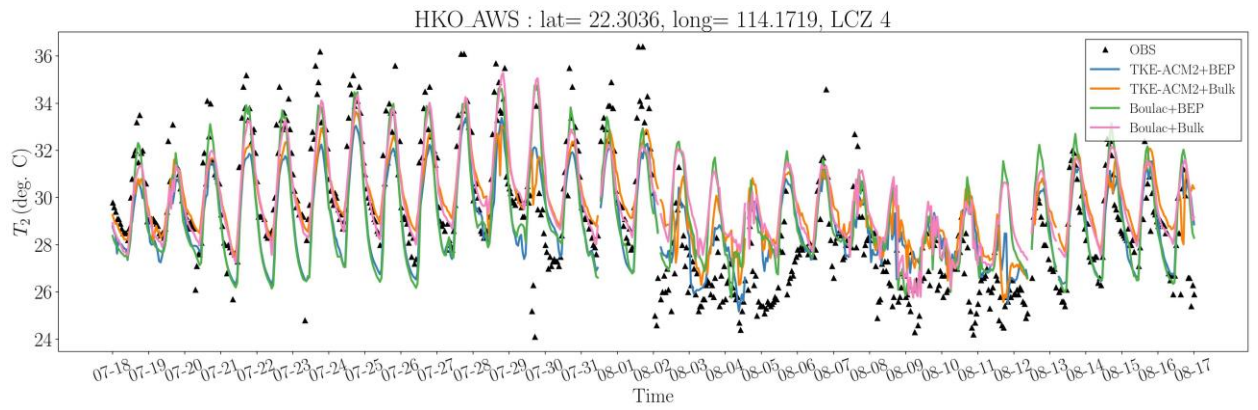


Fig. S48: T_2 at HKO_AWS station.

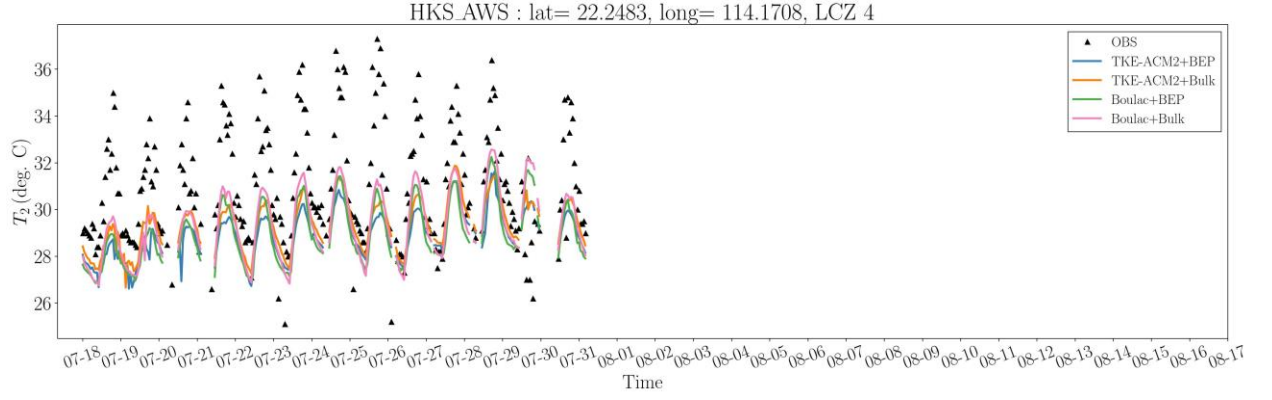


Fig. S49: T_2 at HKS_AWS station.

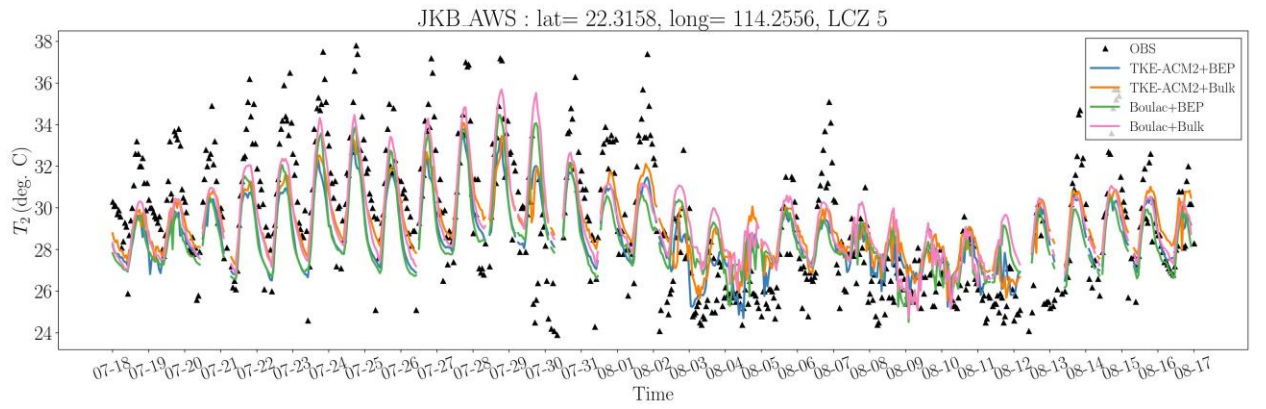


Fig. S50: T_2 at JKB_AWS station.

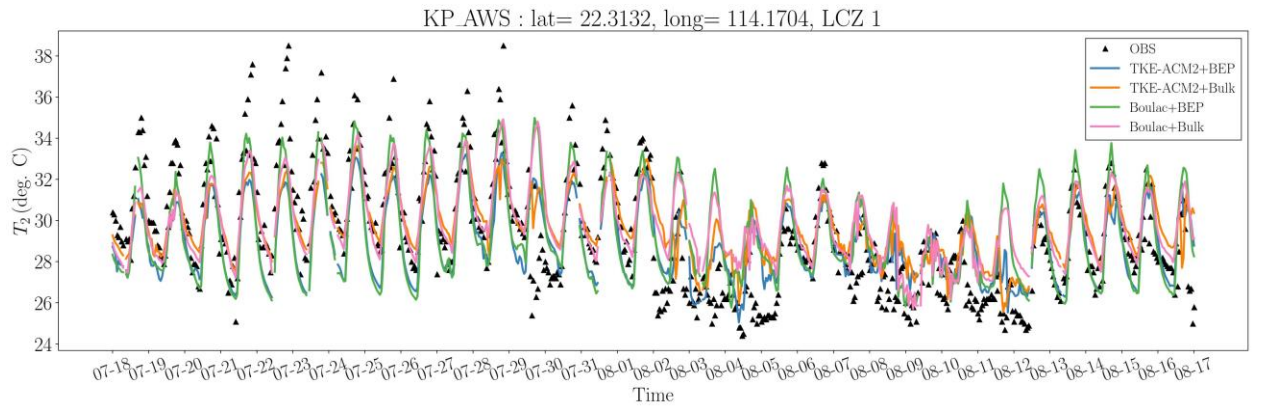


Fig. S51: T_2 at KP_AWS station.

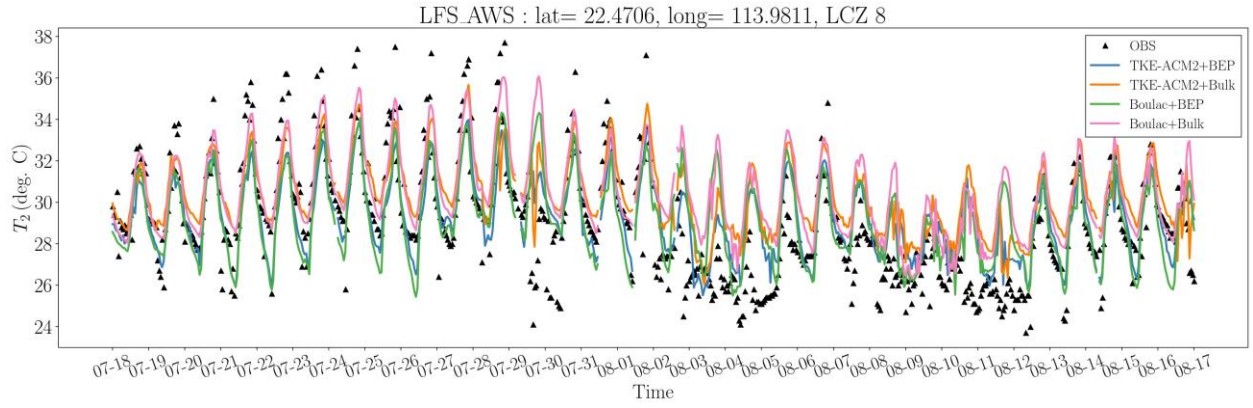


Fig. S52: T_2 at LFS_AWS station.

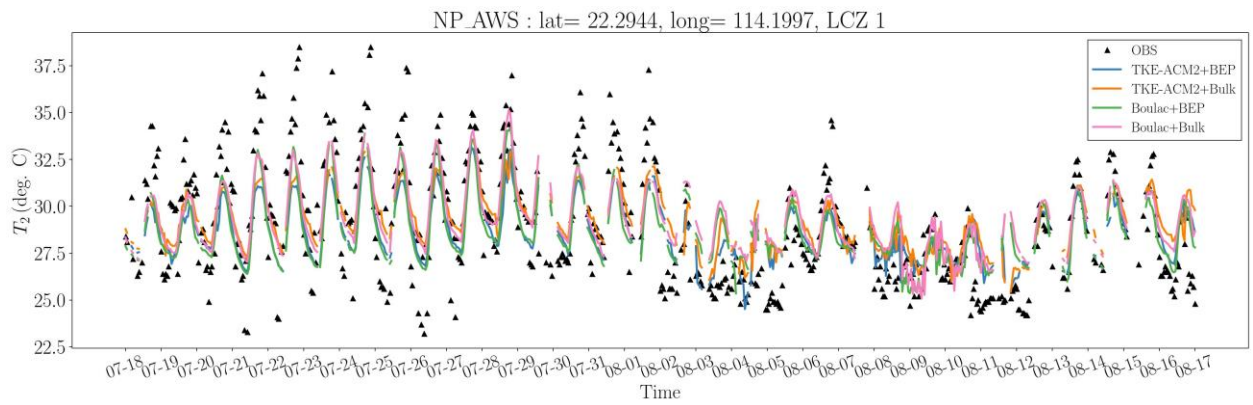


Fig. S53: T_2 at NP_AWS station.

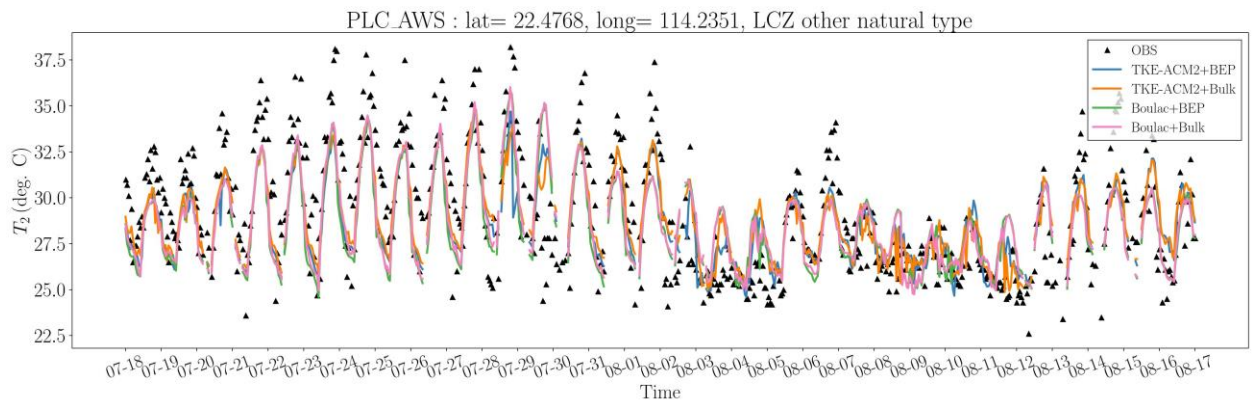


Fig. S54: T_2 at PLC_AWS station.

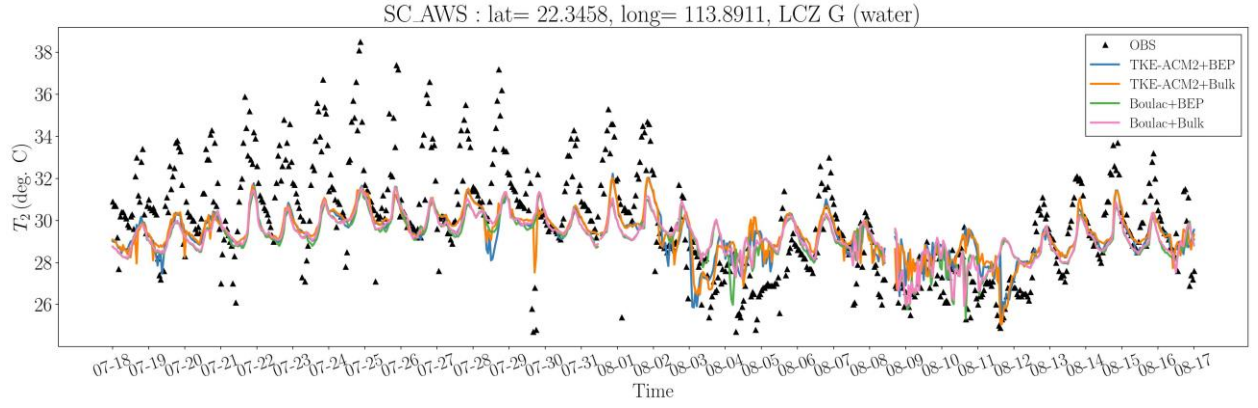


Fig. S55: T_2 at SC_AWS station.

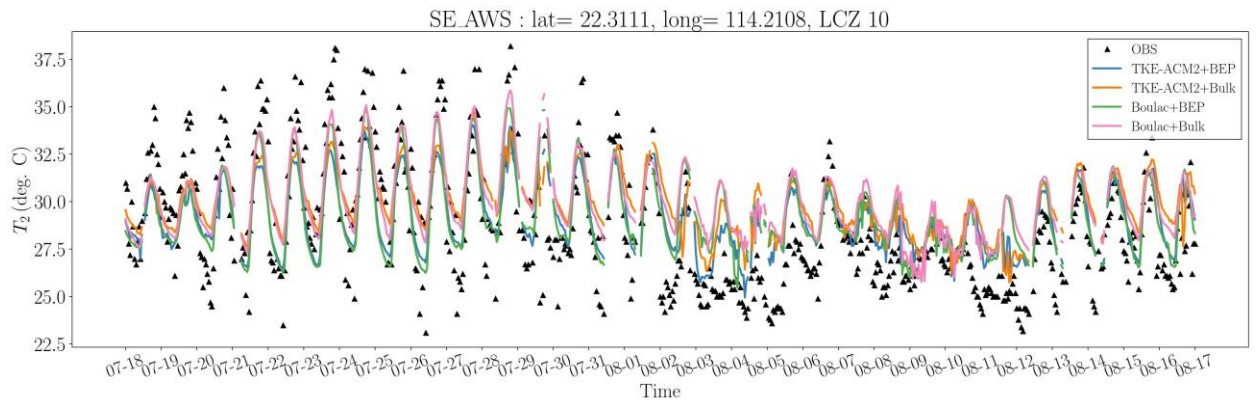


Fig. S56: T_2 at SE_AWS station.

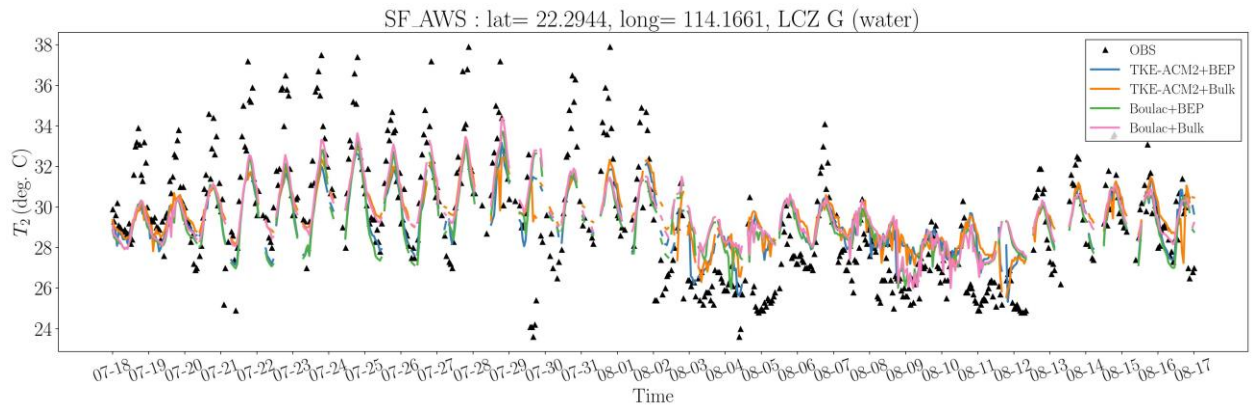


Fig. S57: T_2 at SF_AWS station.

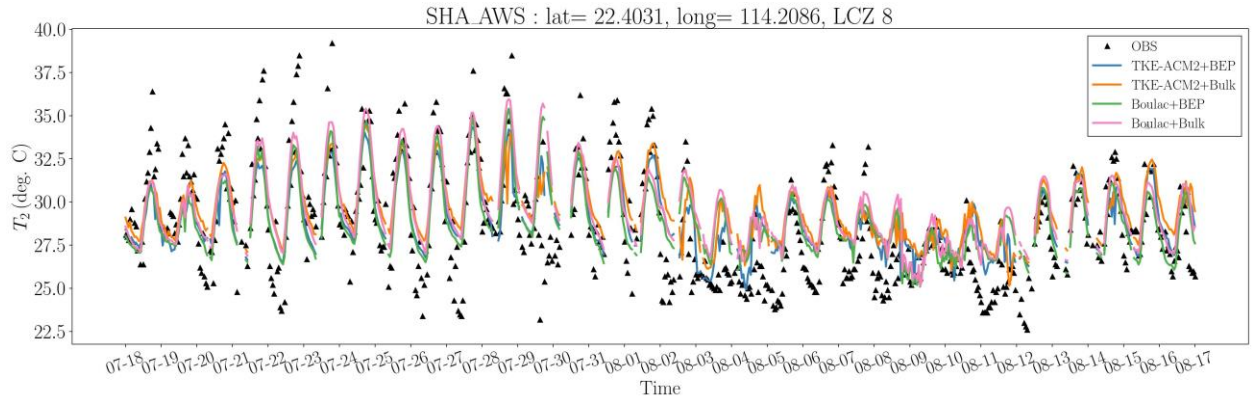


Fig. S58: T_2 at SHA_AWS station.

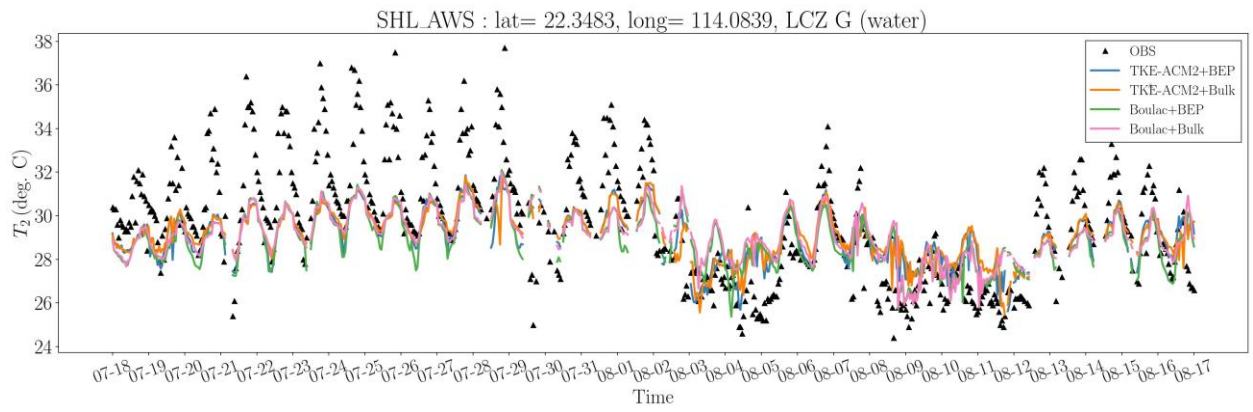


Fig. S59: T_2 at SHL_AWS station.

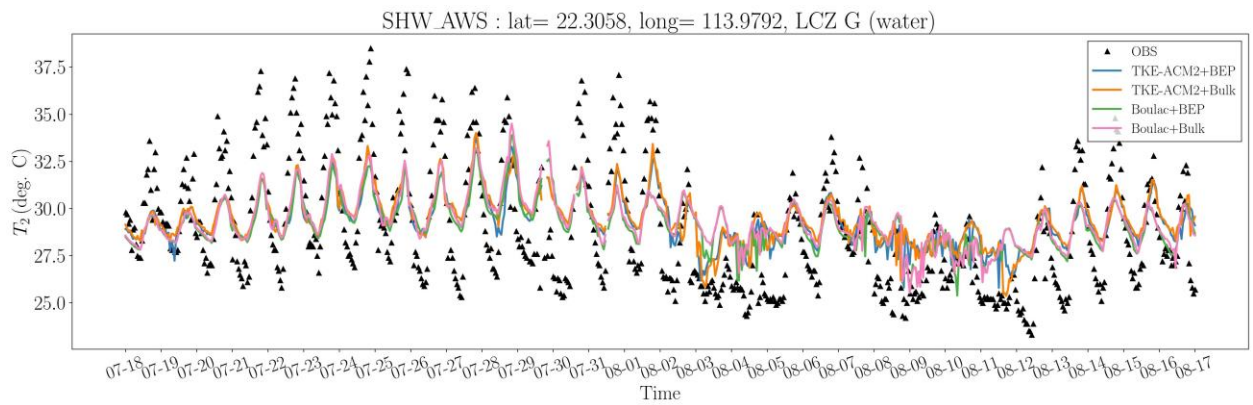


Fig. S60: T_2 at SHW_AWS station.

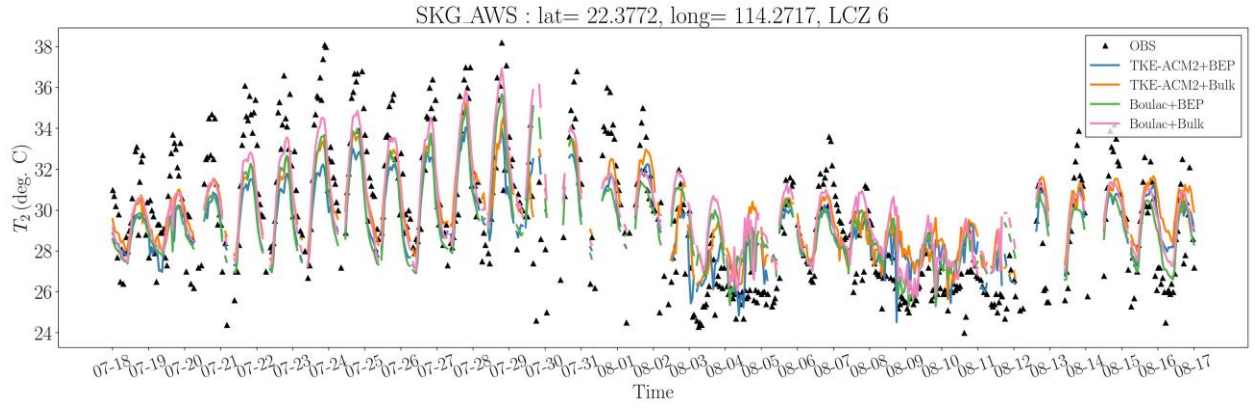


Fig. S61: T_2 at SKG_AWS station.

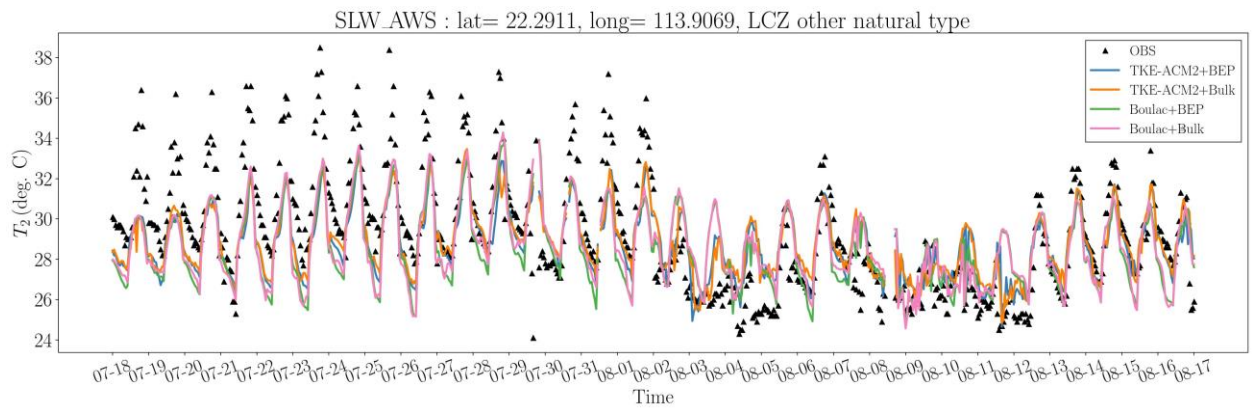


Fig. S62: T_2 at SLW_AWS station.

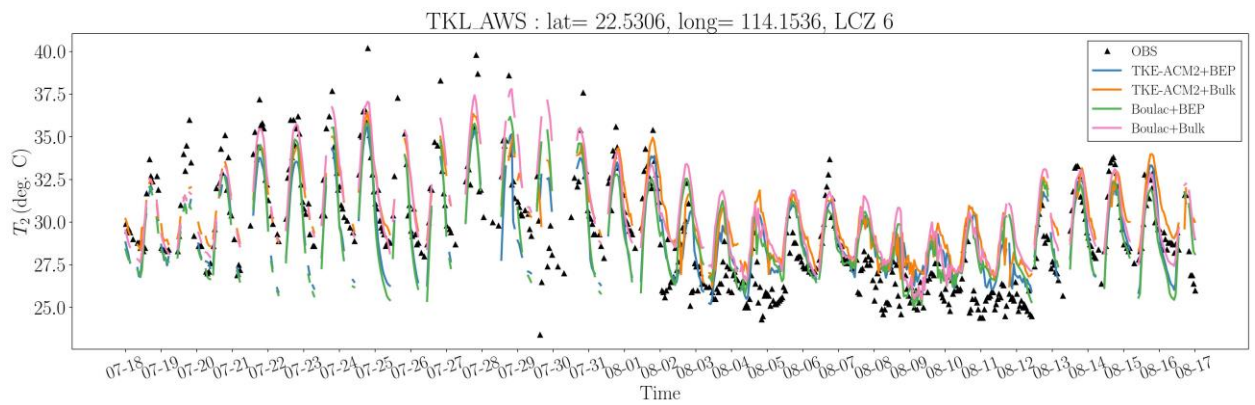


Fig. S63: T_2 at TKL_AWS station.

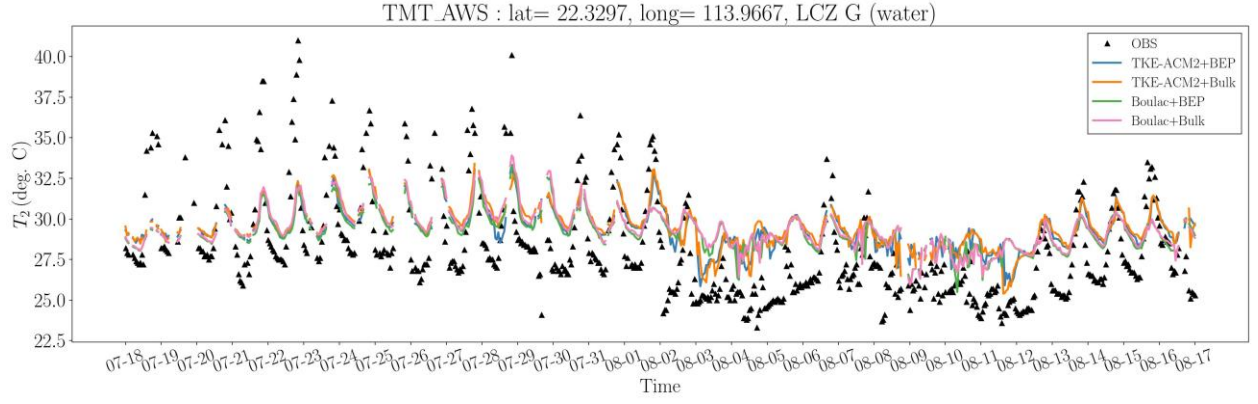


Fig. S64: T_2 at TMT_AWS station.

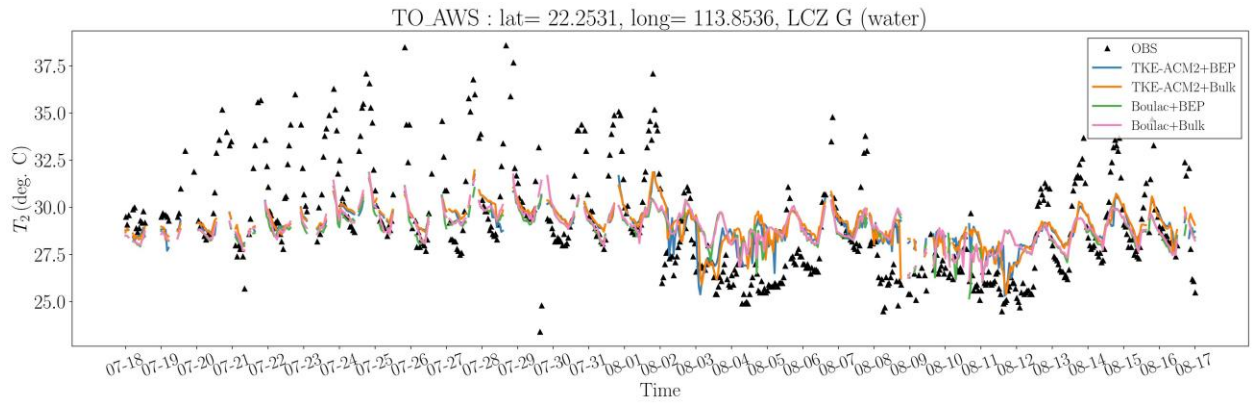


Fig. S65: T_2 at TO_AWS station.

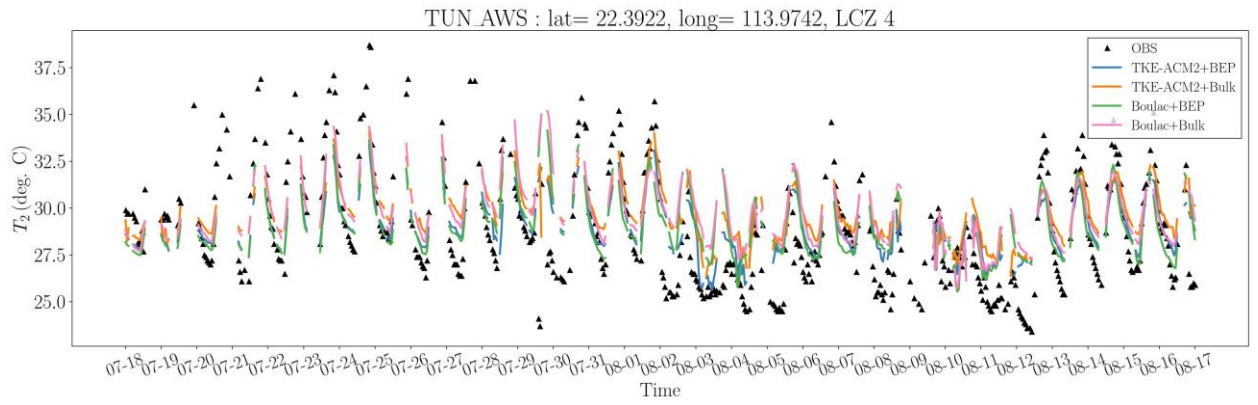


Fig. S66: T_2 at TUN_AWS station.

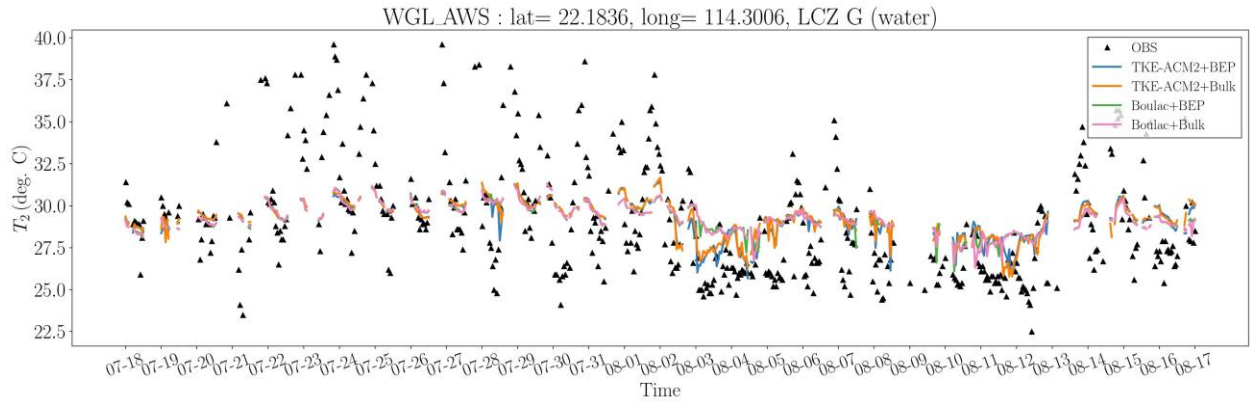


Fig. S67: T_2 at WGL_AWS station.

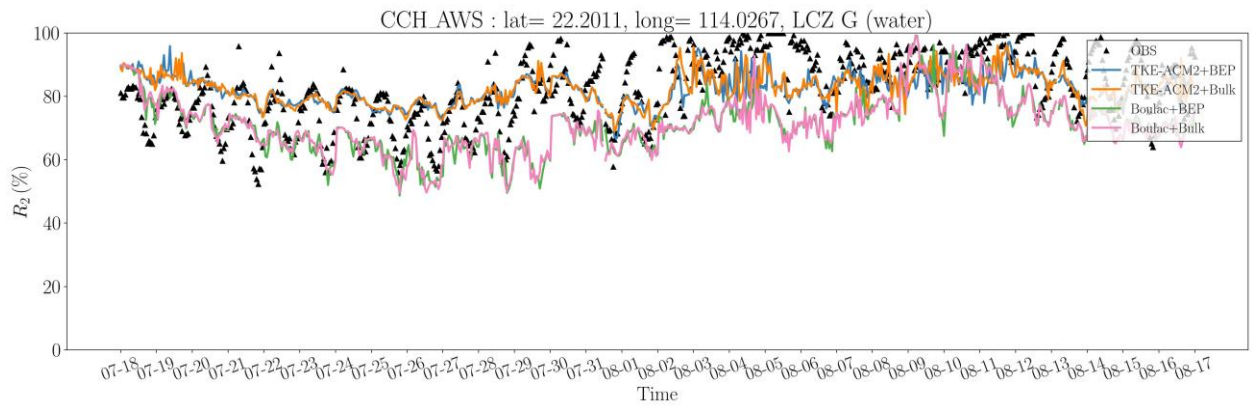


Fig. S68: RH_2 at CCH_AWS station.

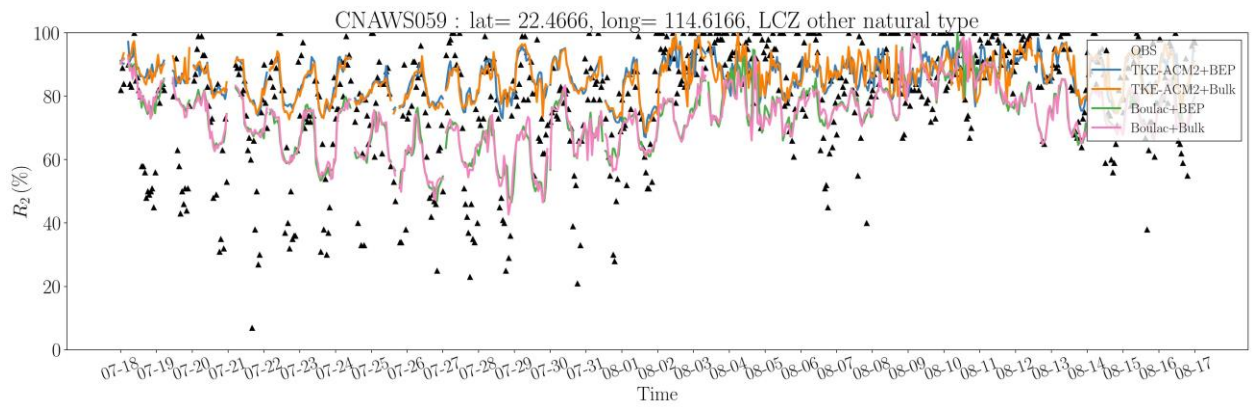


Fig. S69: RH_2 at CNAWS059 station.

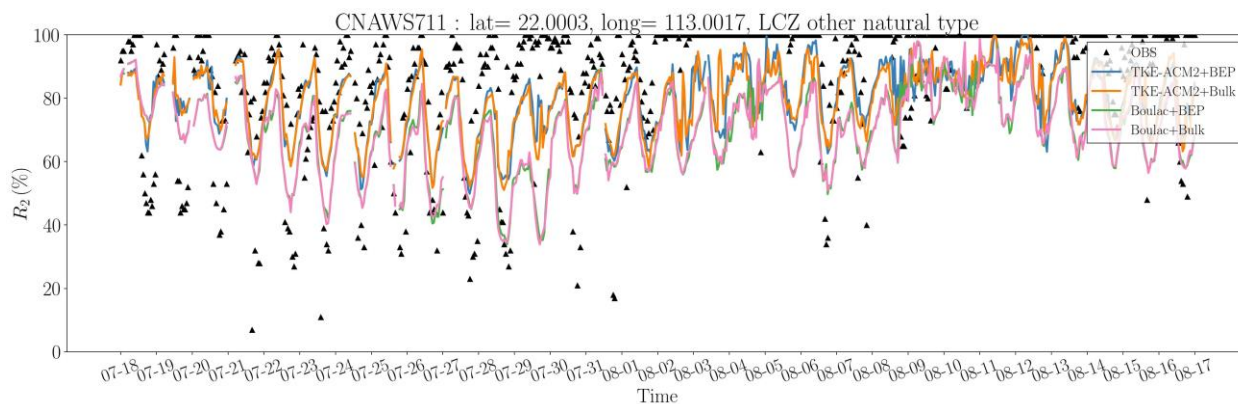


Fig. S70: RH_2 at CNAWS711 station.

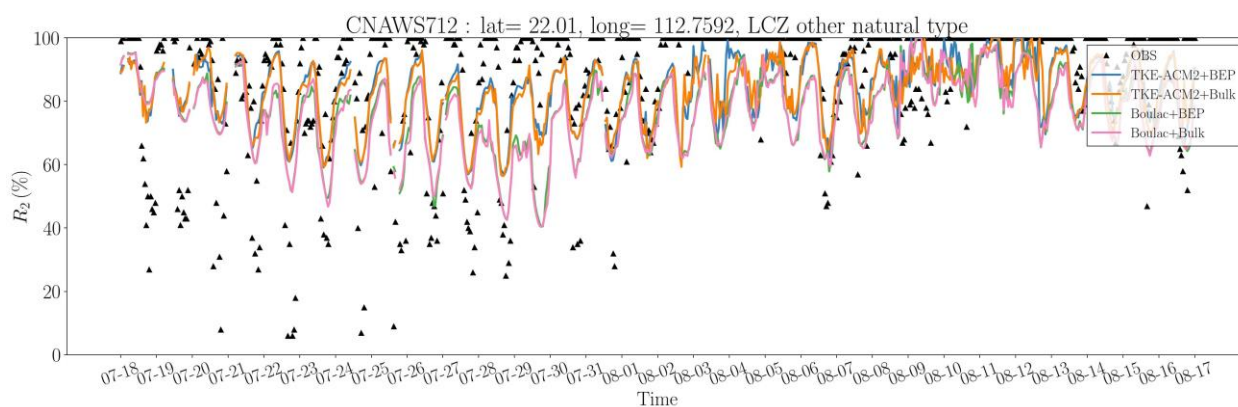


Fig. S71: RH_2 at CNAWS712 station.

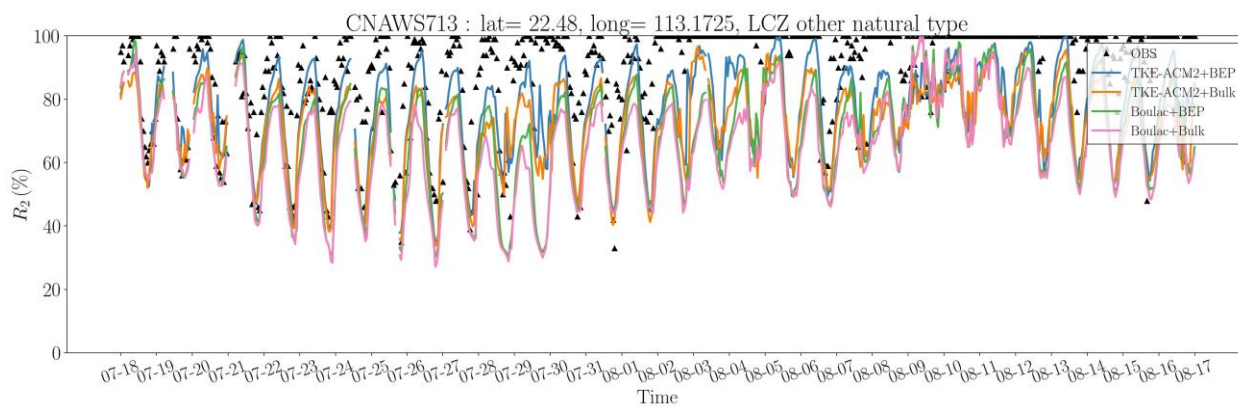


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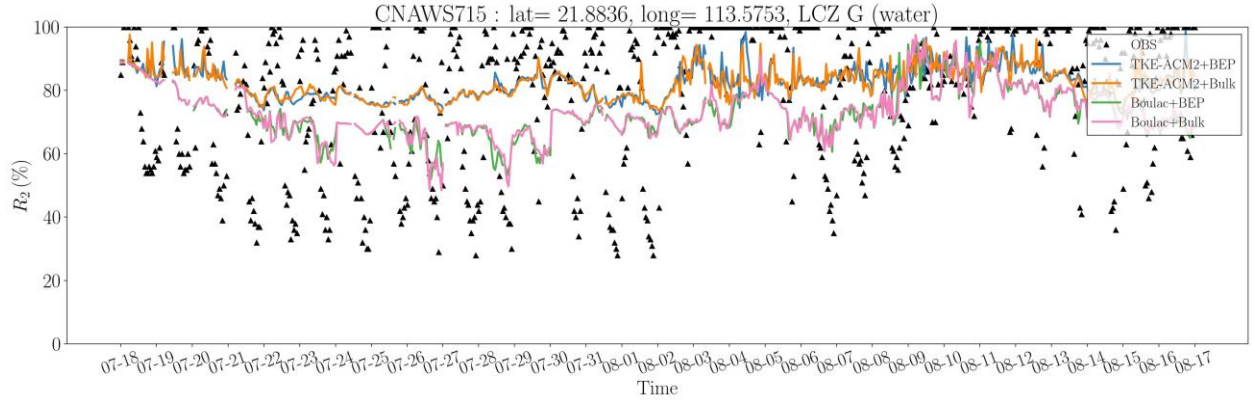


Fig. S73: RH_2 at CNAWS715 station.

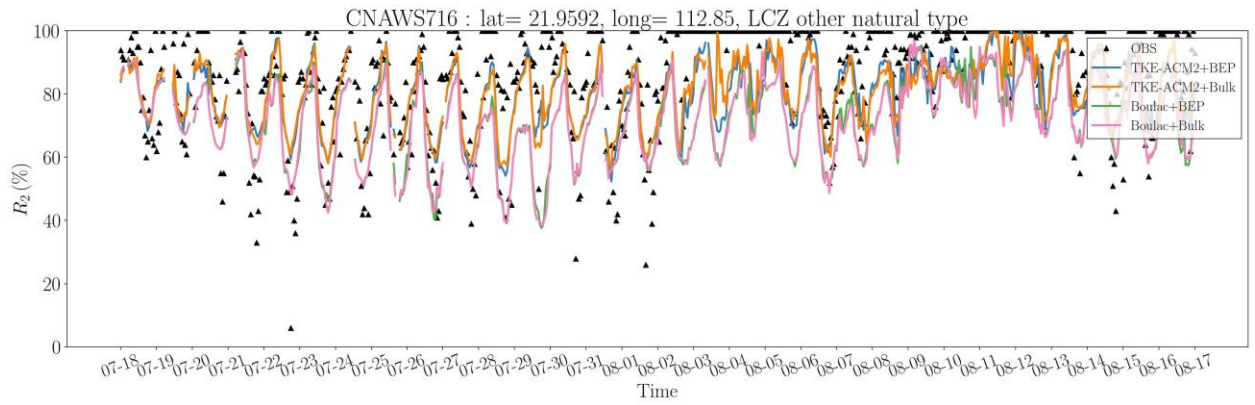


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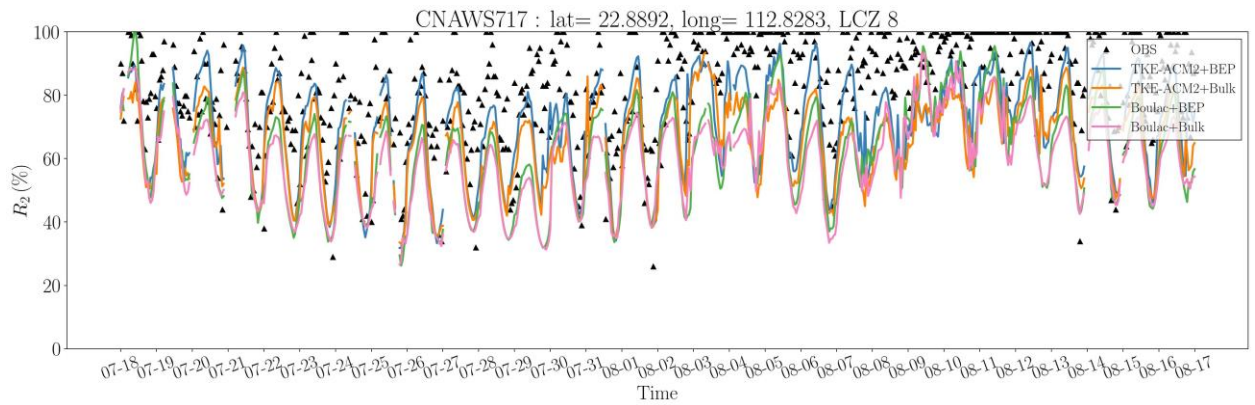


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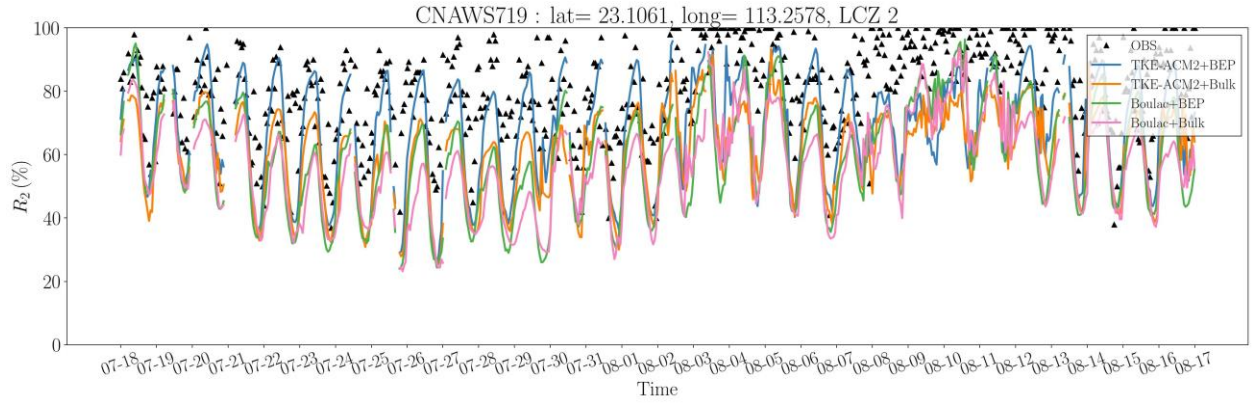


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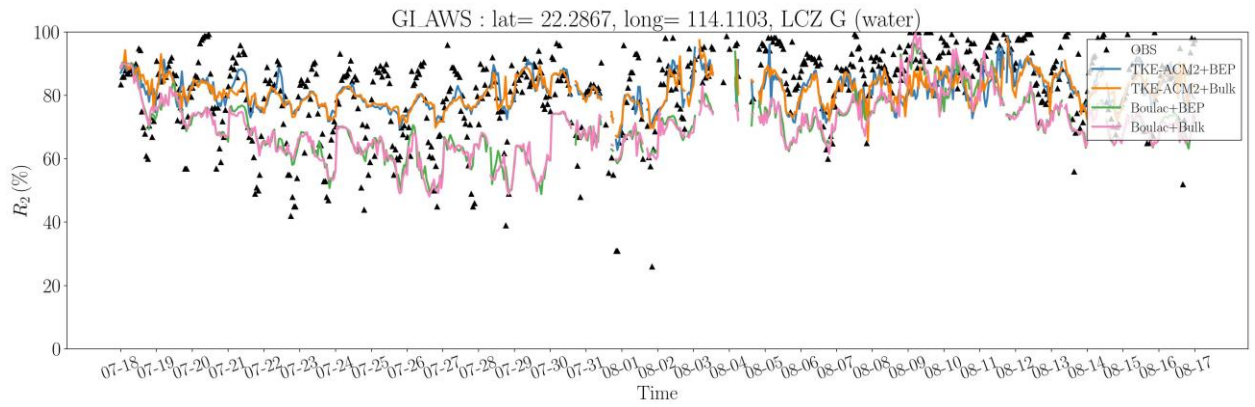


Fig. S77: RH_2 at GI_AWS station.

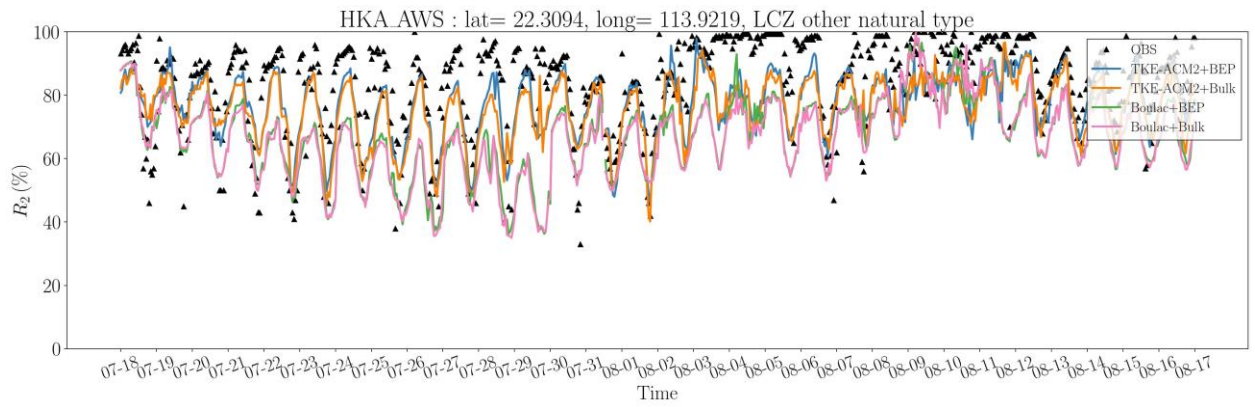


Fig. S78: RH_2 at HKA_AWS station.

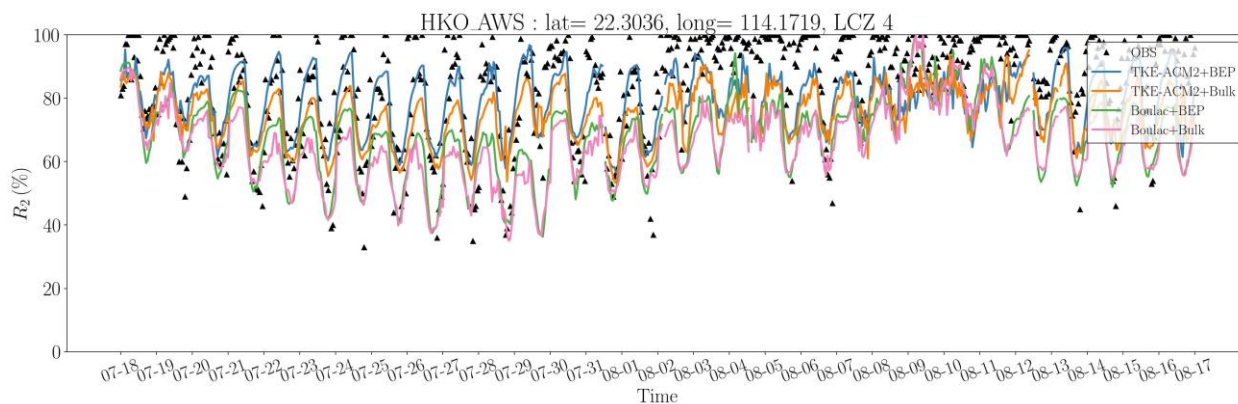


Fig. S79: RH_2 at HKO_AWS station.

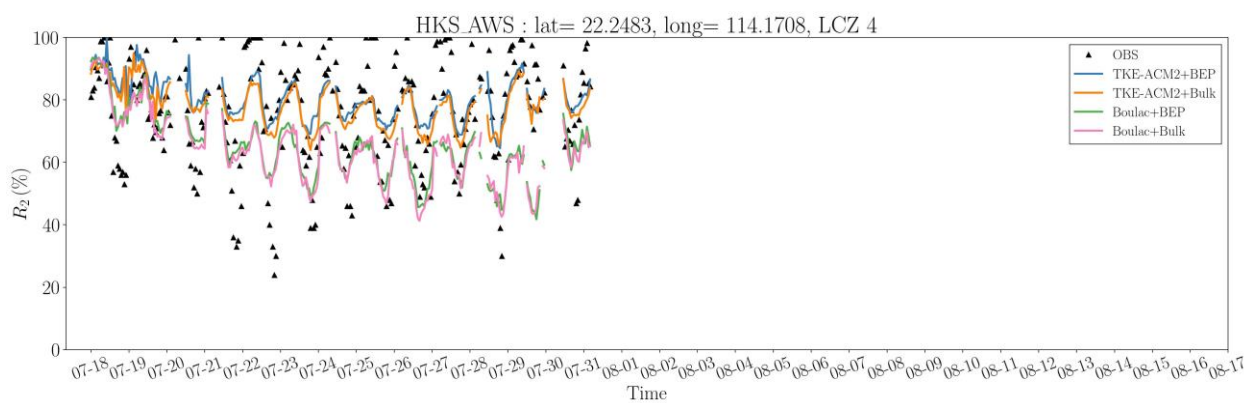


Fig. S80: RH_2 at HKS_AWS station.

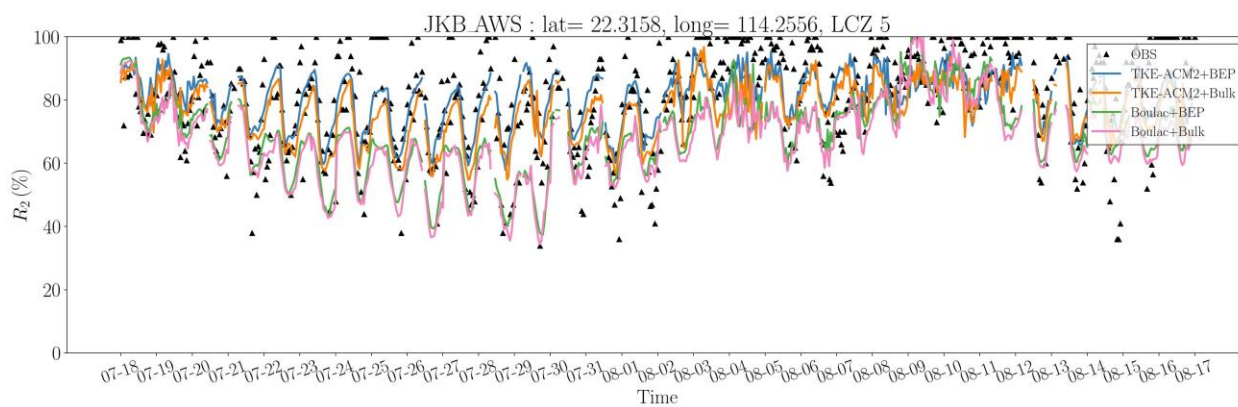


Fig. S81: RH_2 at JKB_AWS station.

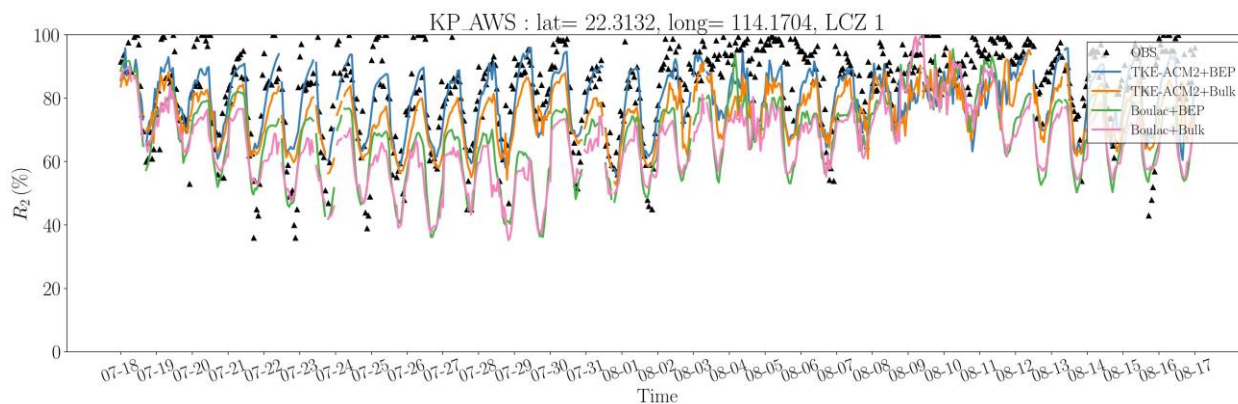


Fig. S82: RH_2 at KP_AWS station.

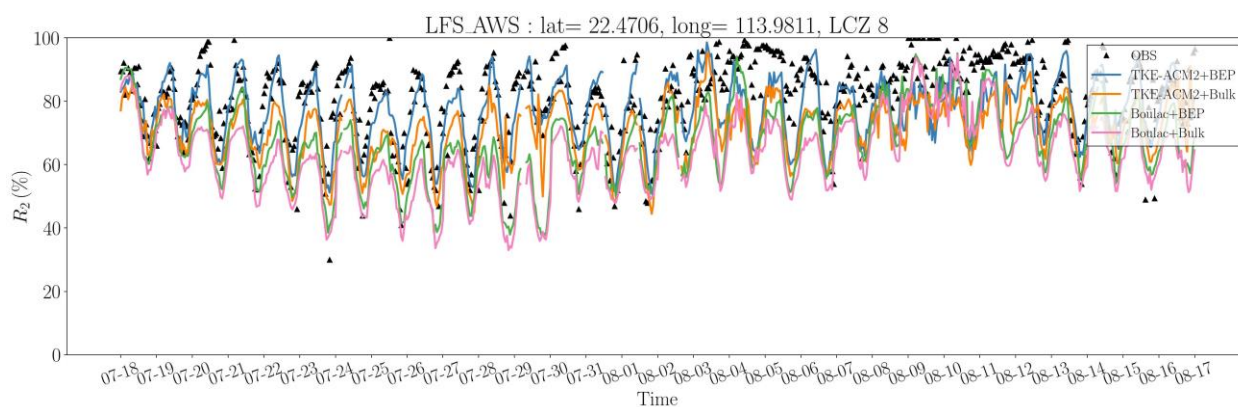


Fig. S83: RH_2 at LFS_AWS station.

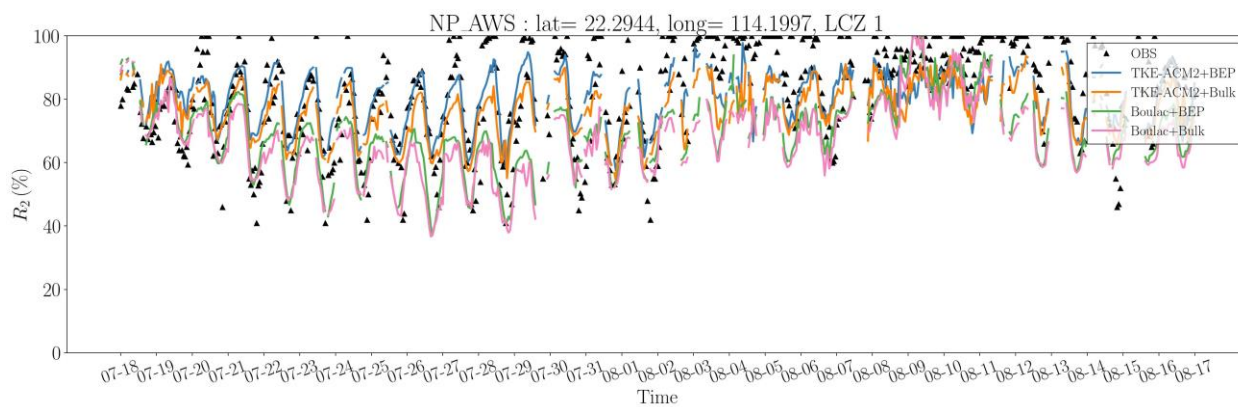


Fig. S84: RH_2 at NP_AWS station.

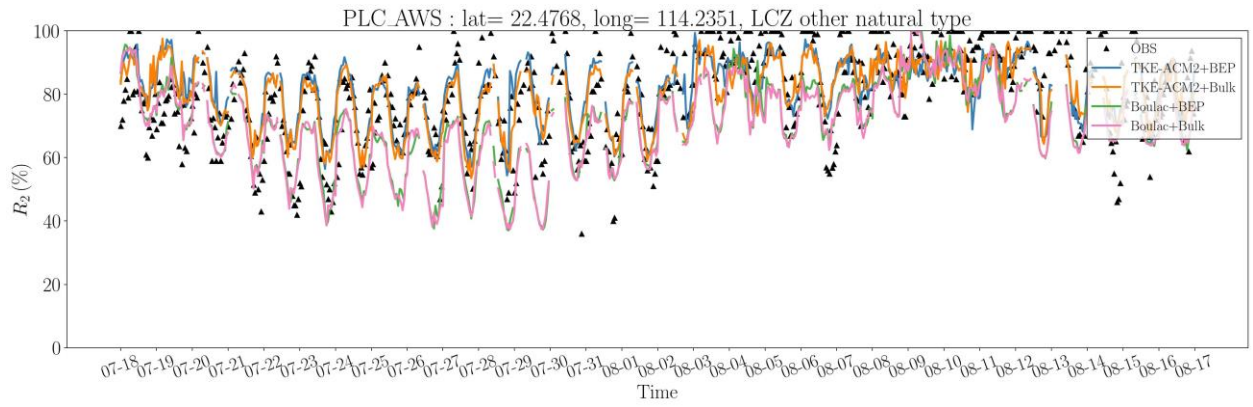


Fig. S85: RH_2 at PLC_AWS station.

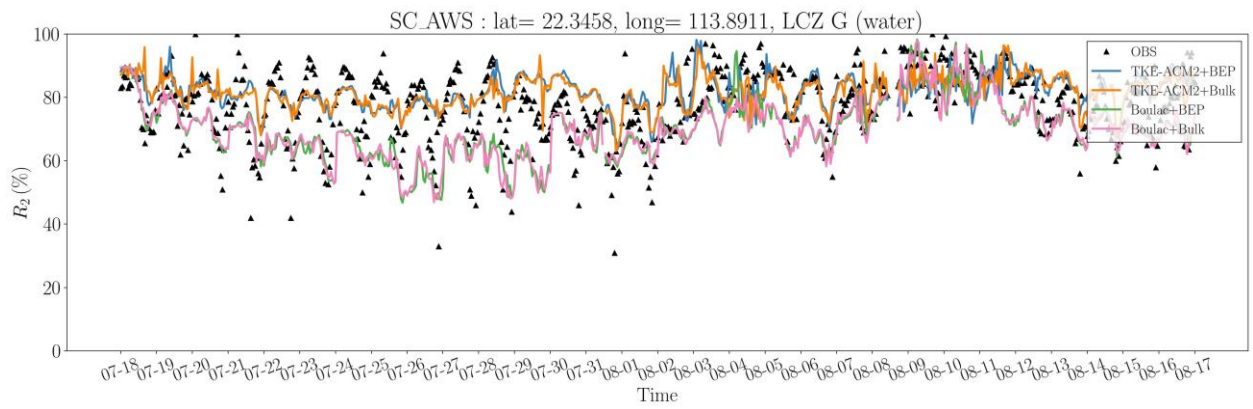


Fig. S86: RH_2 at SC_AWS station.

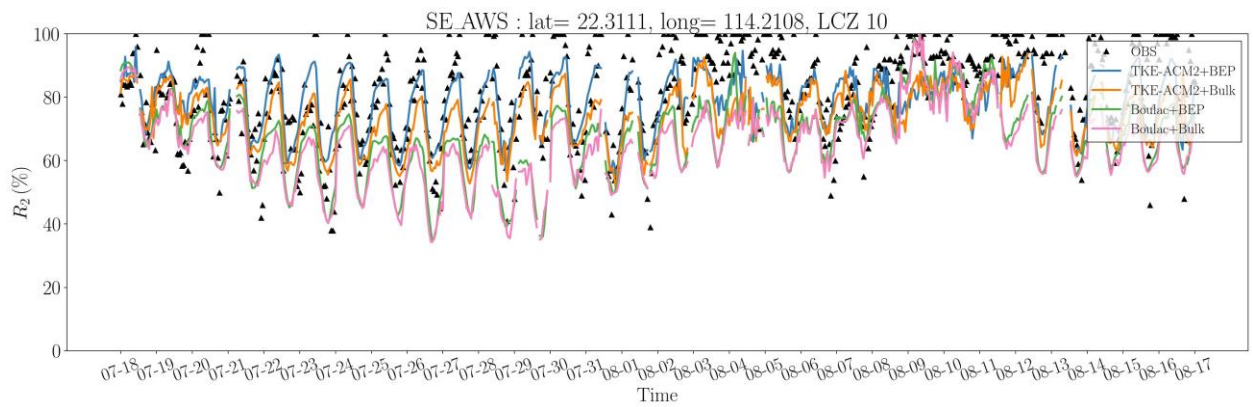


Fig. S87: RH_2 at SE_AWS station.

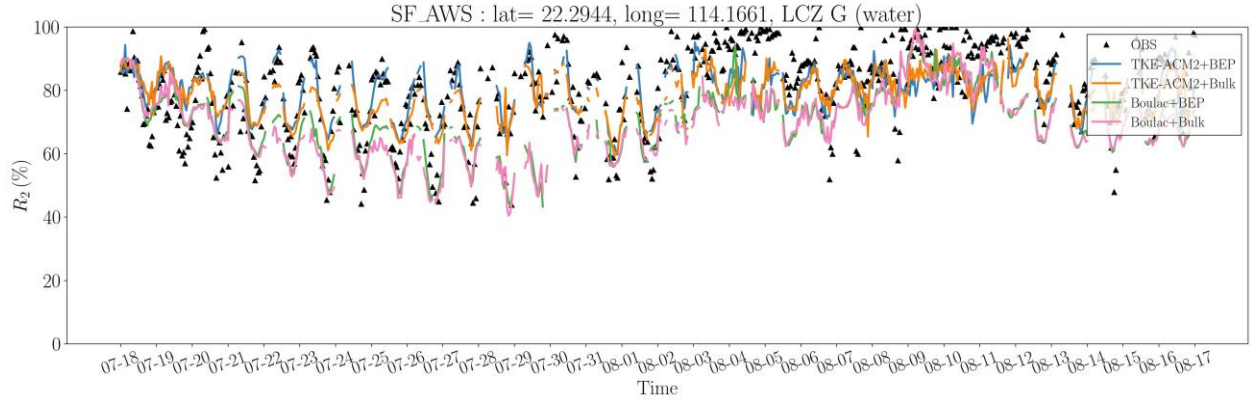


Fig. S88: RH_2 at SF_AWS station.

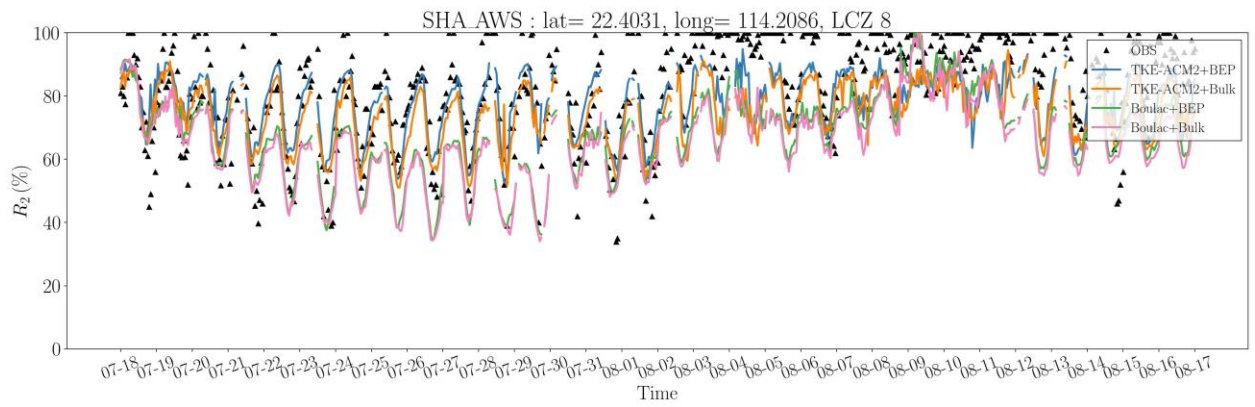


Fig. S89: RH_2 at SHA_AWS station.

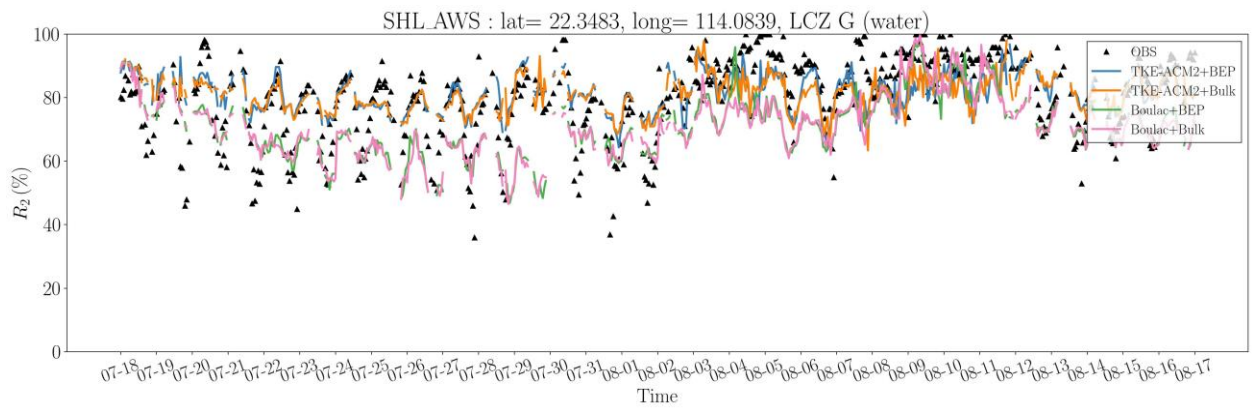


Fig. S90: RH_2 at SHL_AWS station.

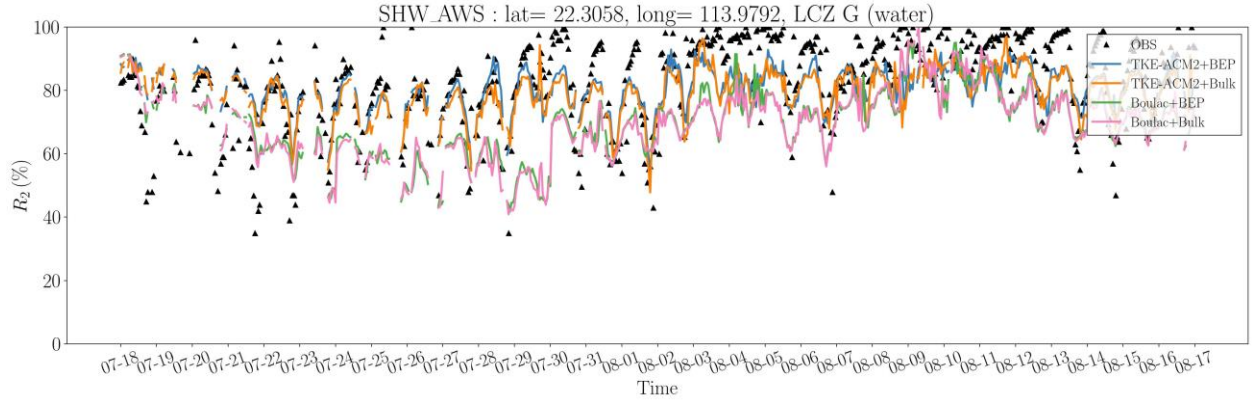


Fig. S91: RH_2 at SHW_AWS station.

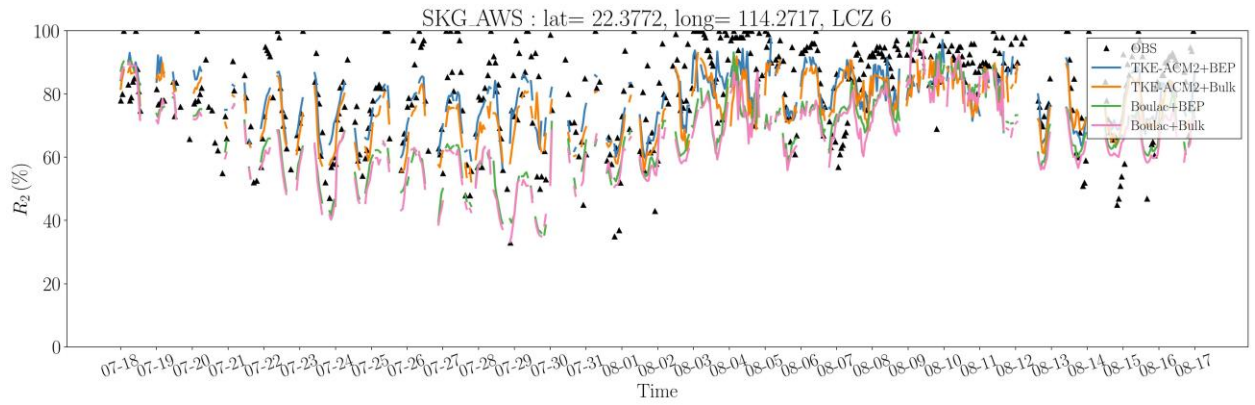


Fig. S92: RH_2 at SKG_AWS station.

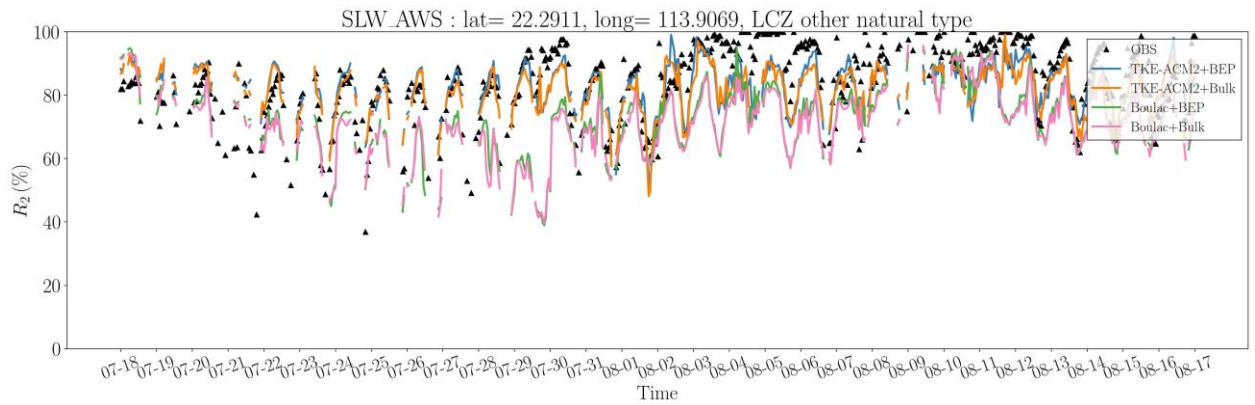


Fig. S93: RH_2 at SLW_AWS station.

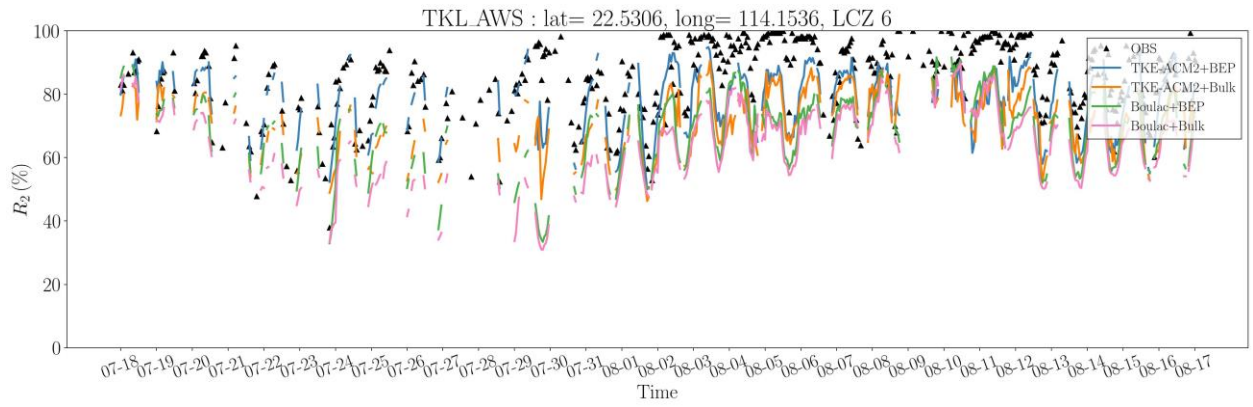


Fig. S94: RH_2 at TKL_AWS station.

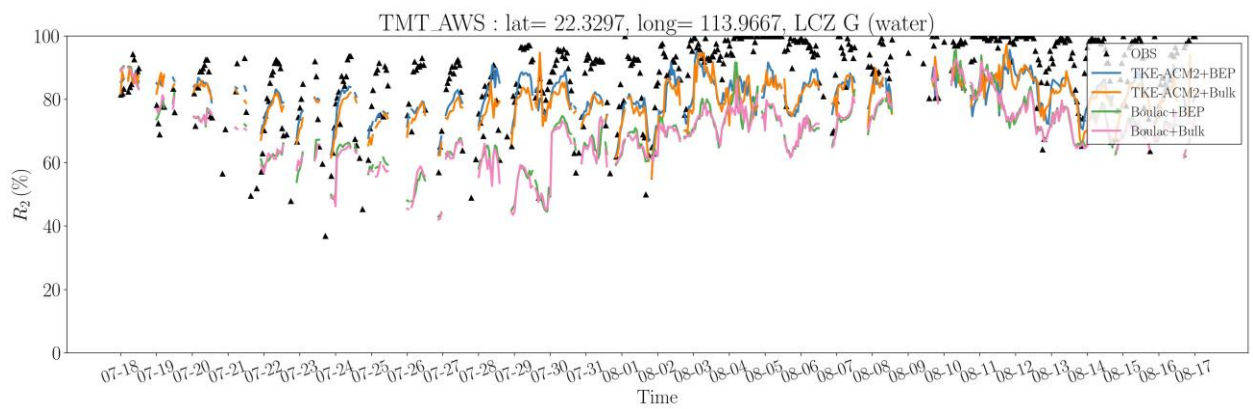


Fig. S95: RH_2 at TMT_AWS station.

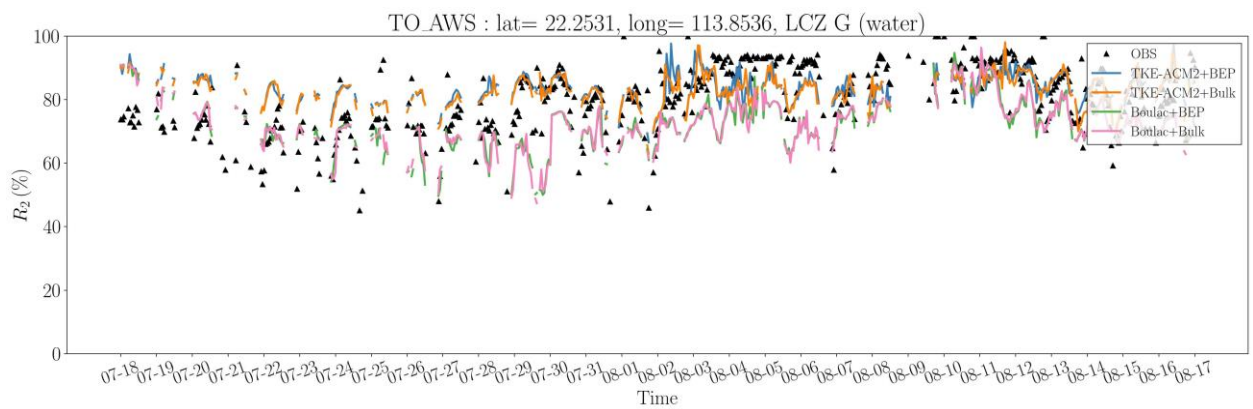


Fig. S96: RH_2 at TO_AWS station.

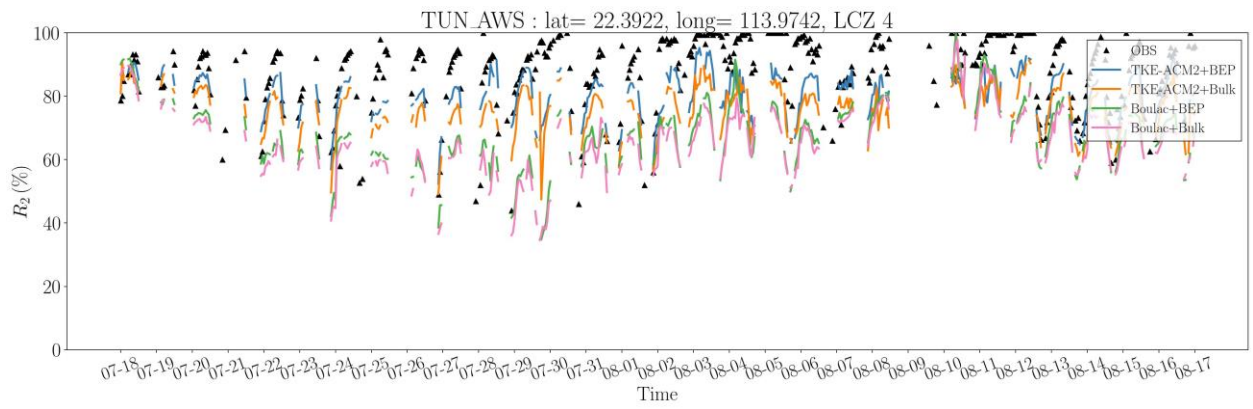


Fig. S97: RH_2 at TUN_AWS station.

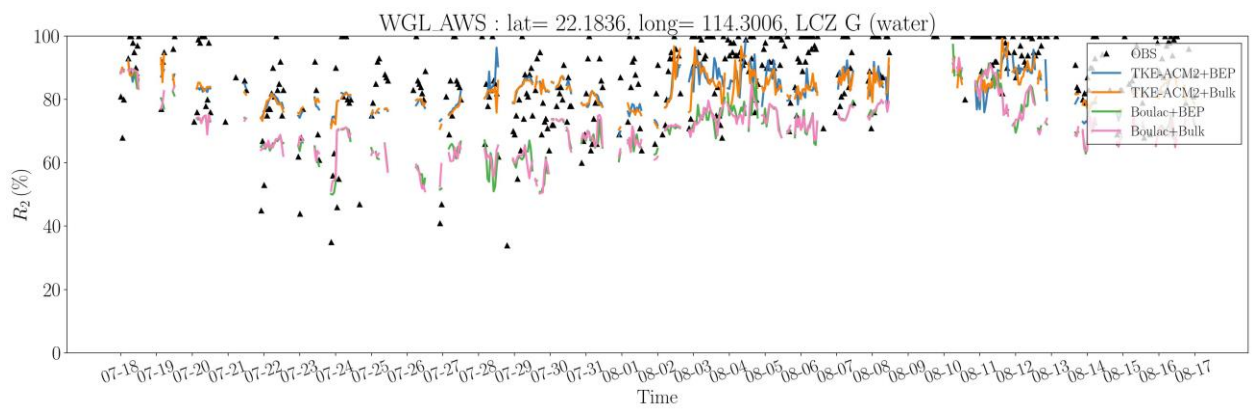


Fig. S98: RH_2 at WGL_AWS station.