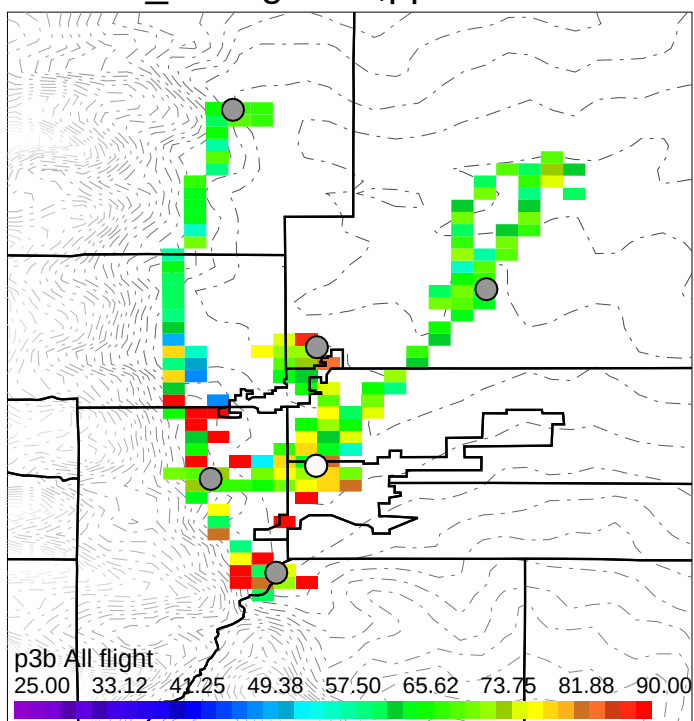
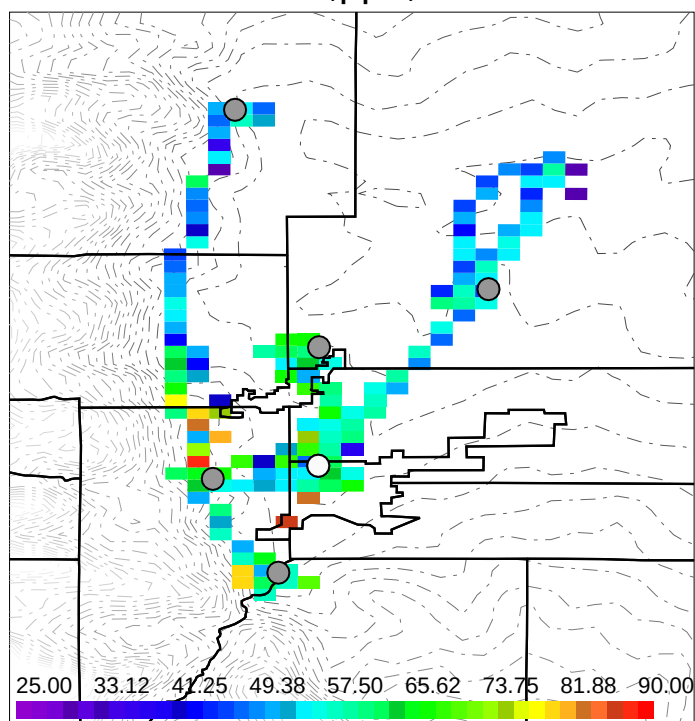


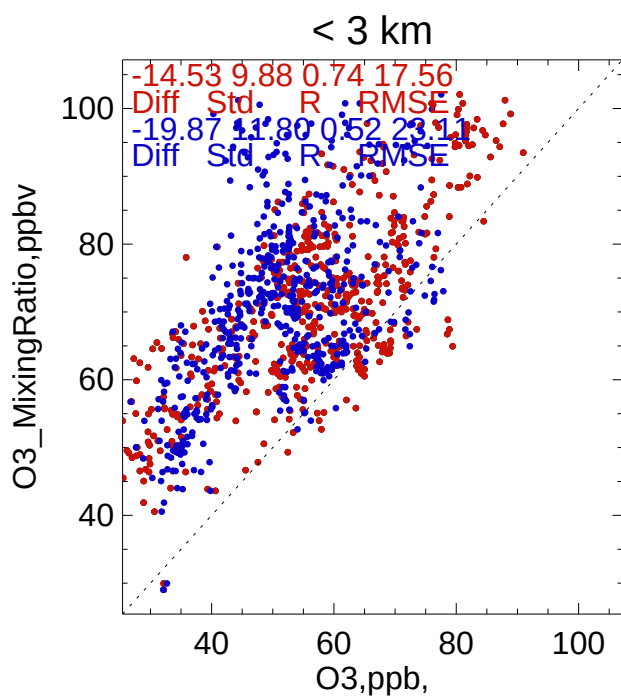
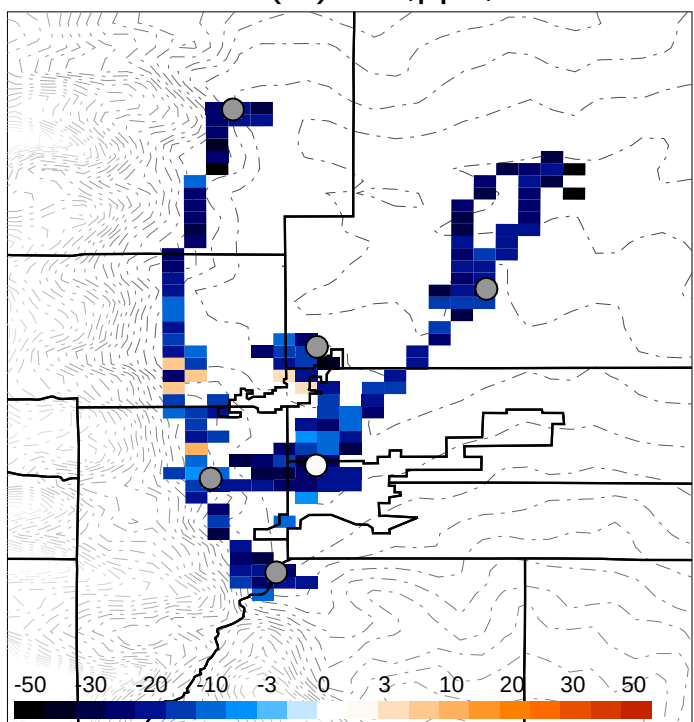
O3_MixingRatio,ppbv < 3 km



Model O3,ppb, < 3 km



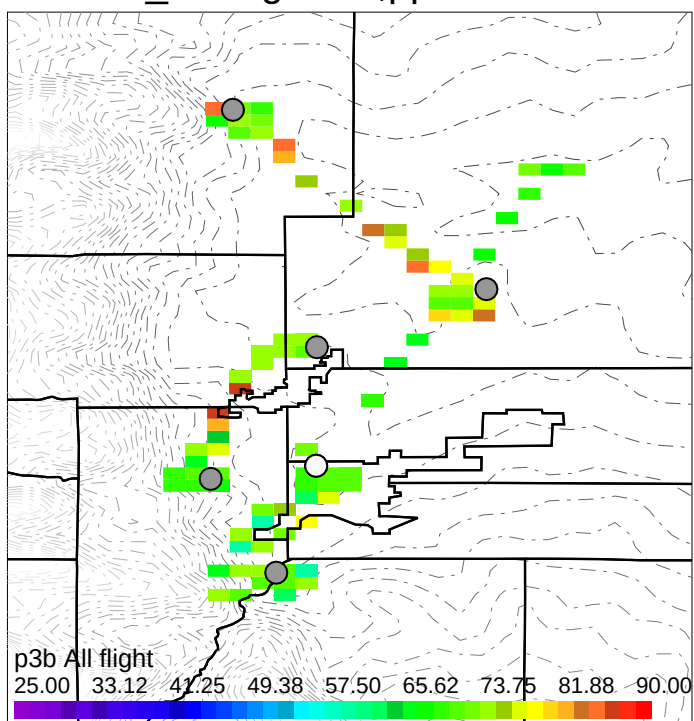
Model-Obs(%) O3,ppb, < 3 km



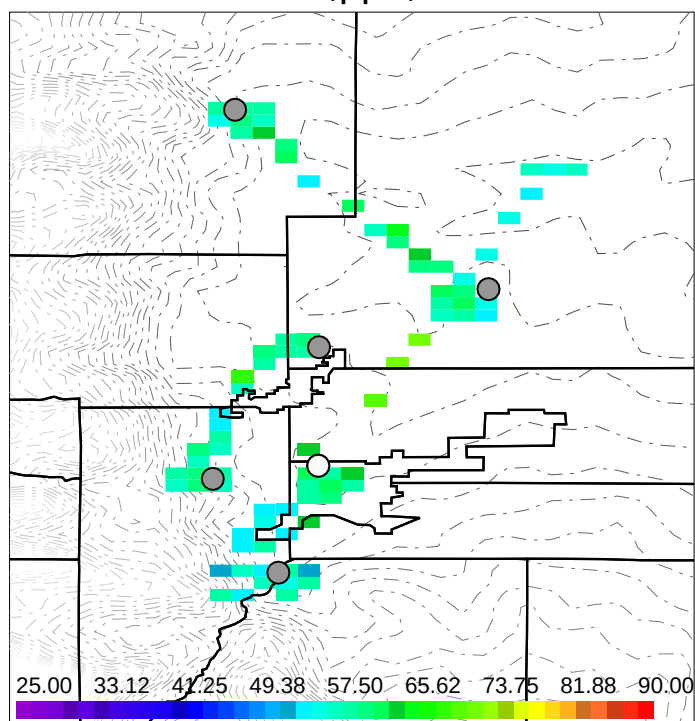
BTXv2ECMWFV4mozmozaic-

Ravan-

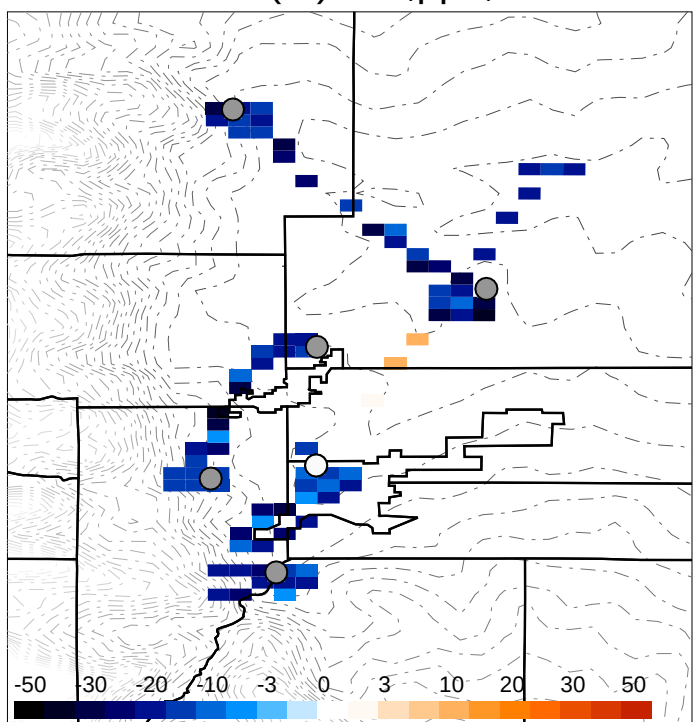
O3_MixingRatio,ppbv > 3 km



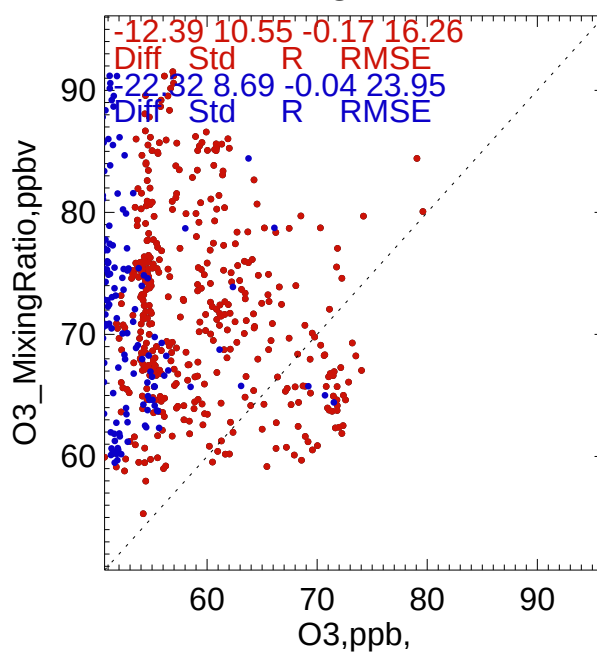
Model O3,ppb, > 3 km



Model-Obs(%) O3,ppb, > 3 km



> 3 km

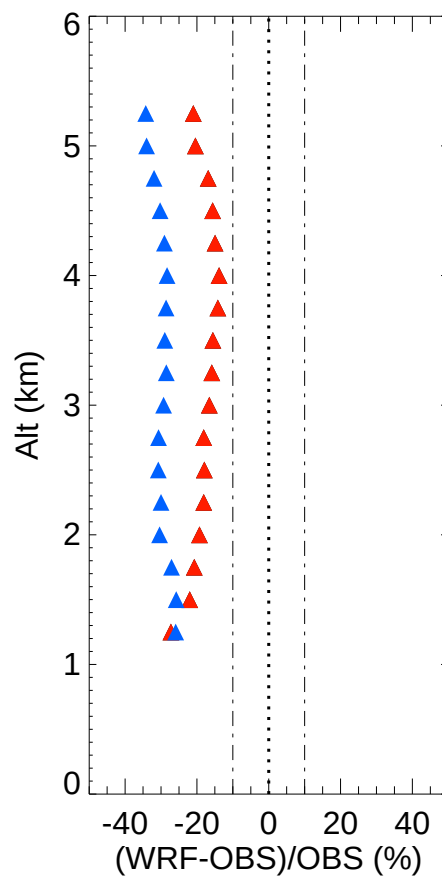
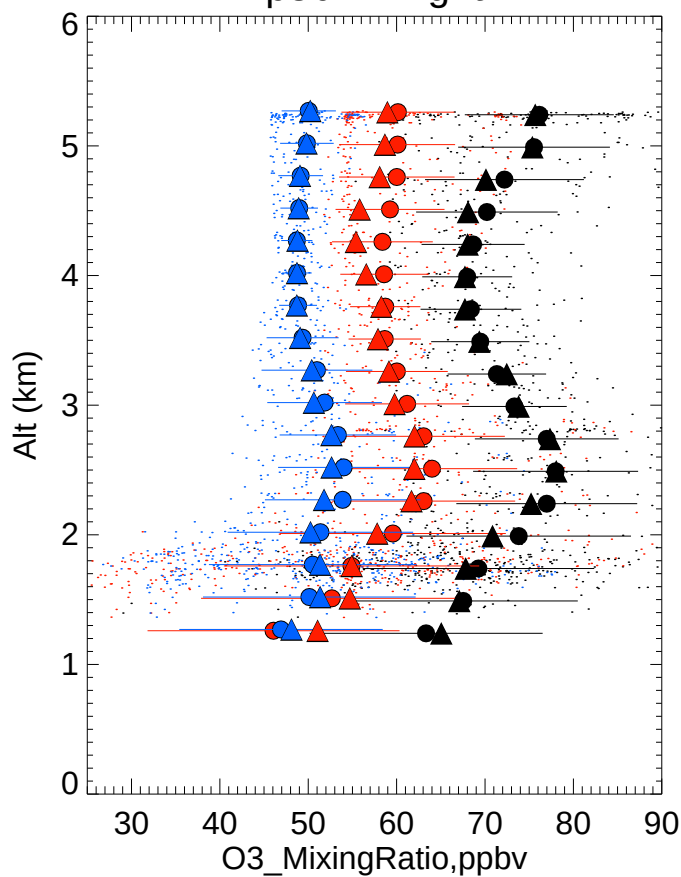
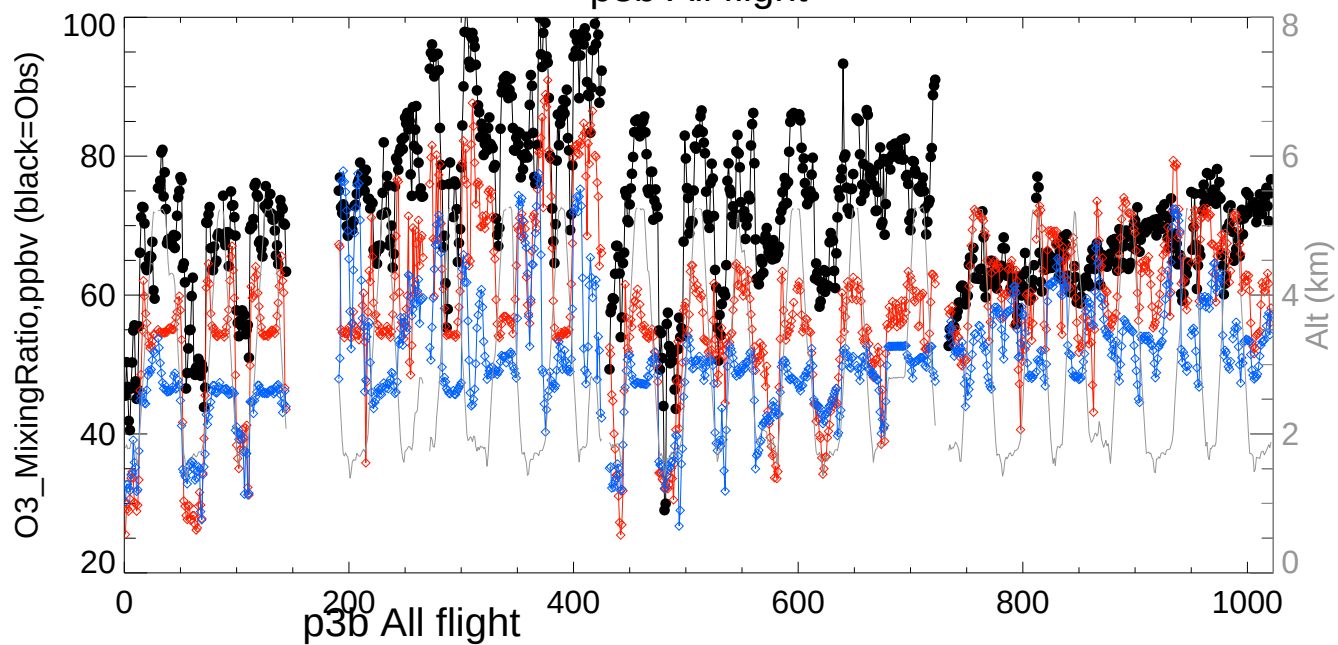


BTXv2ECMWFV4mozmozaic-

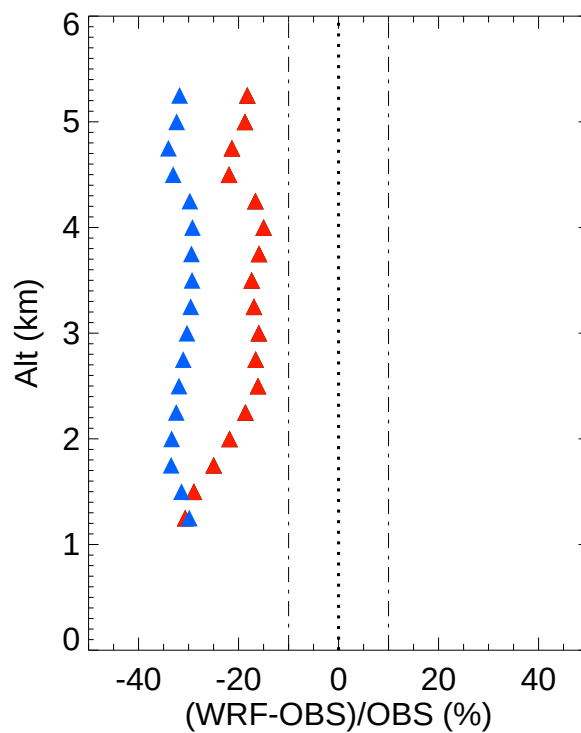
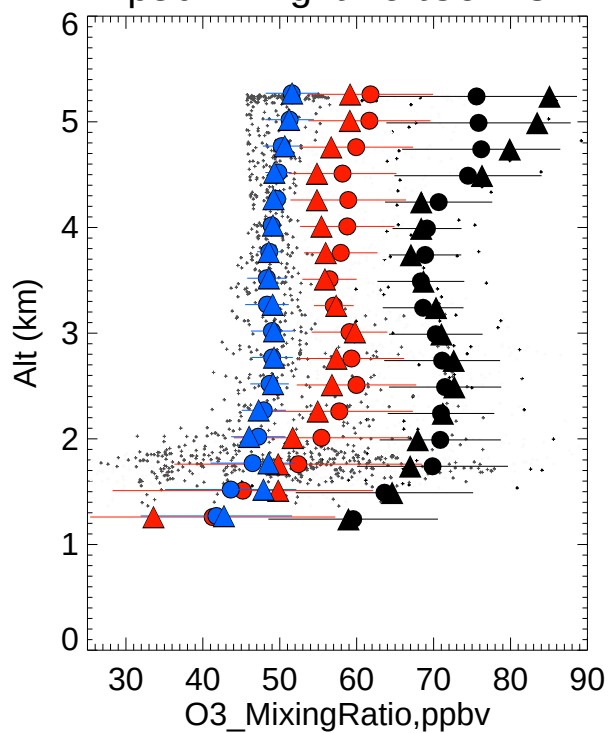
Ravan-

BTXv2ECMWFV4mozmozaravan-

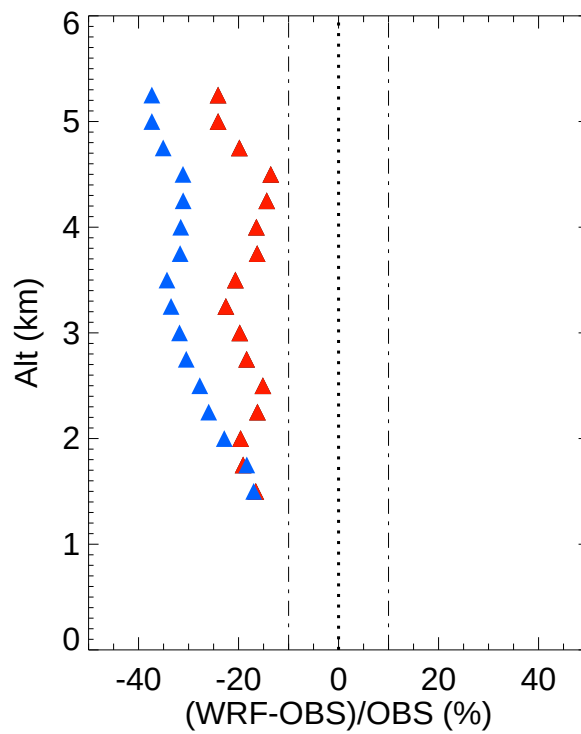
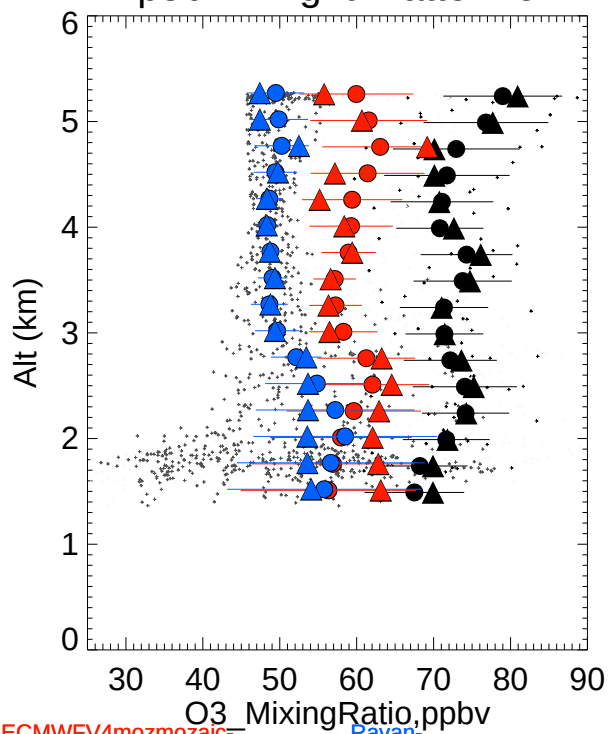
p3b All flight

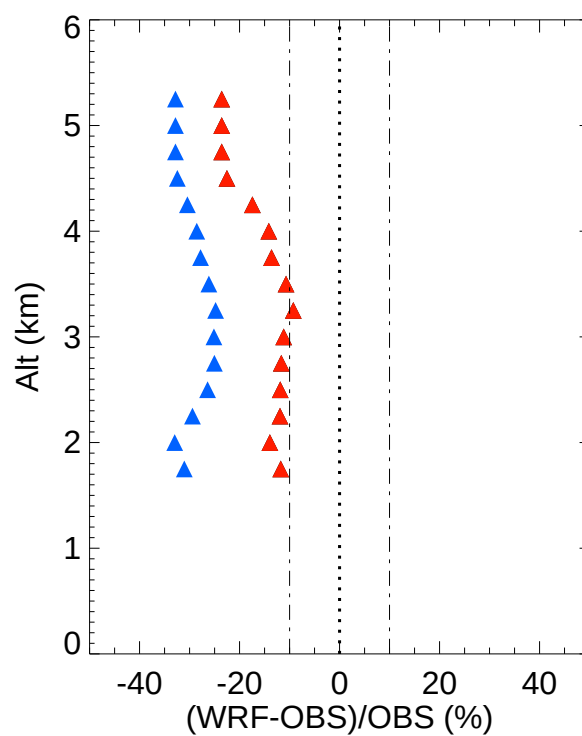
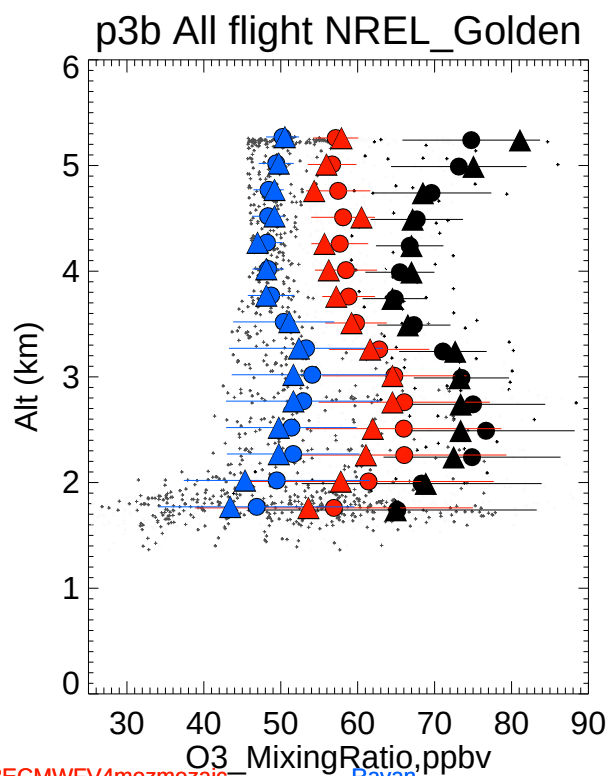
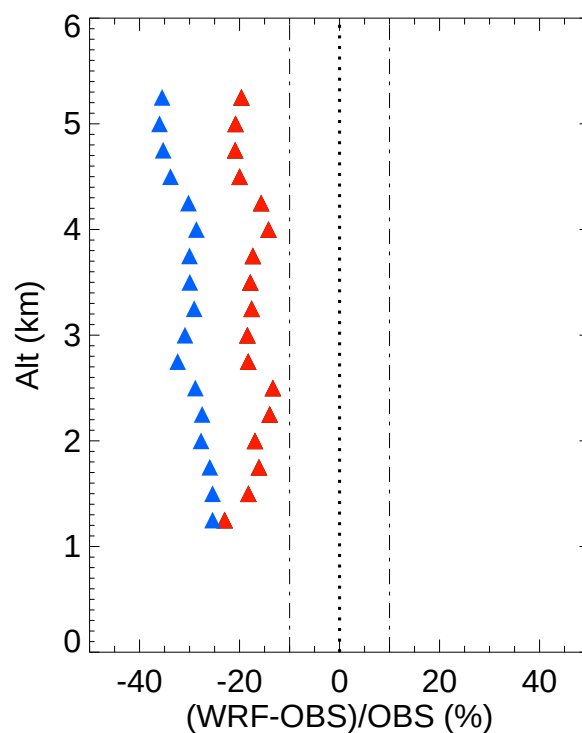
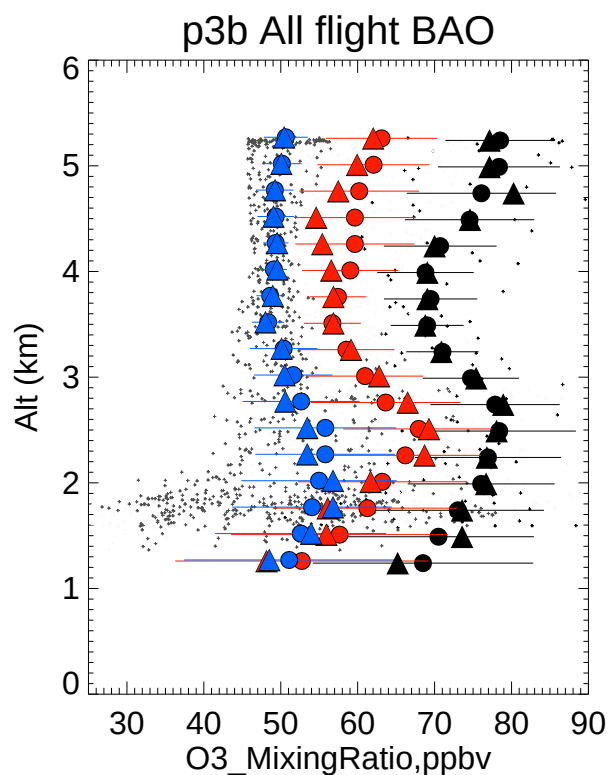


p3b All flight FortCollins

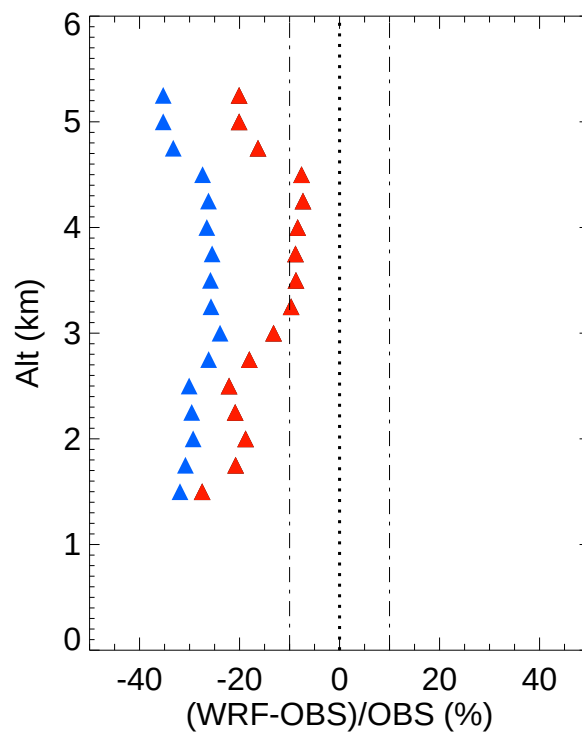
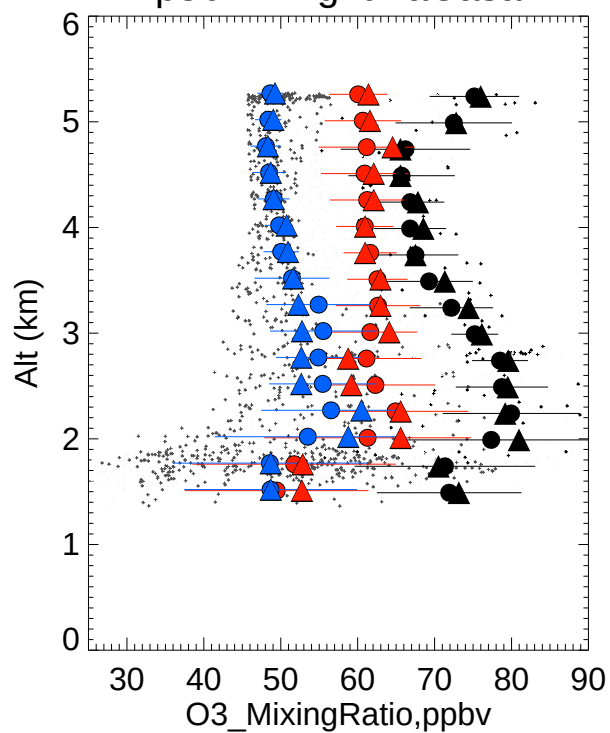


p3b All flight Platteville

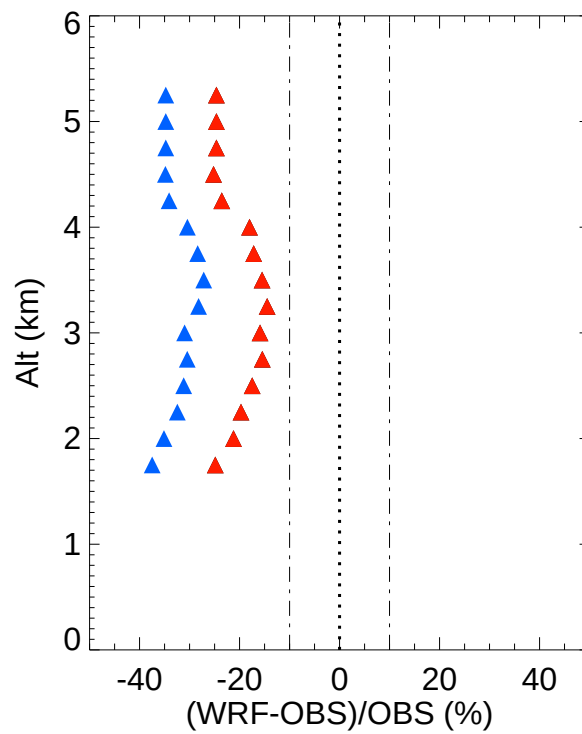
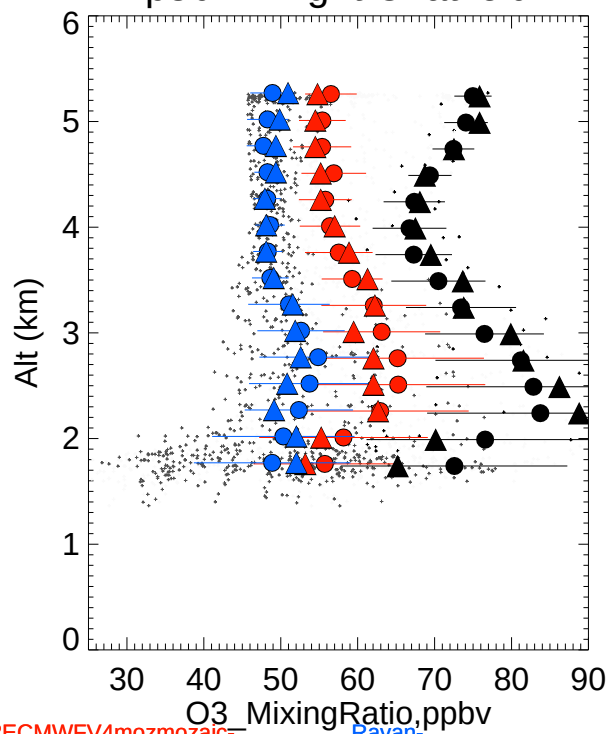




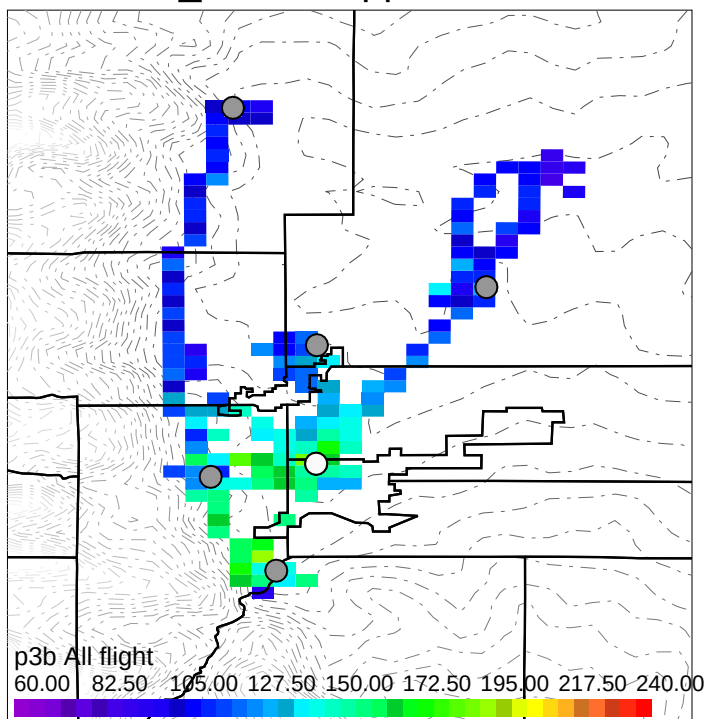
p3b All flight LaCasa



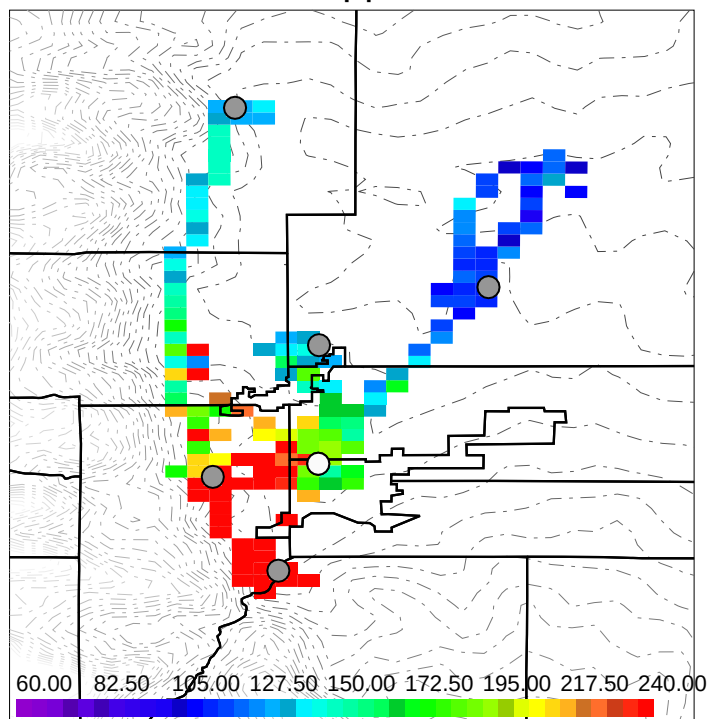
p3b All flight Chatfield



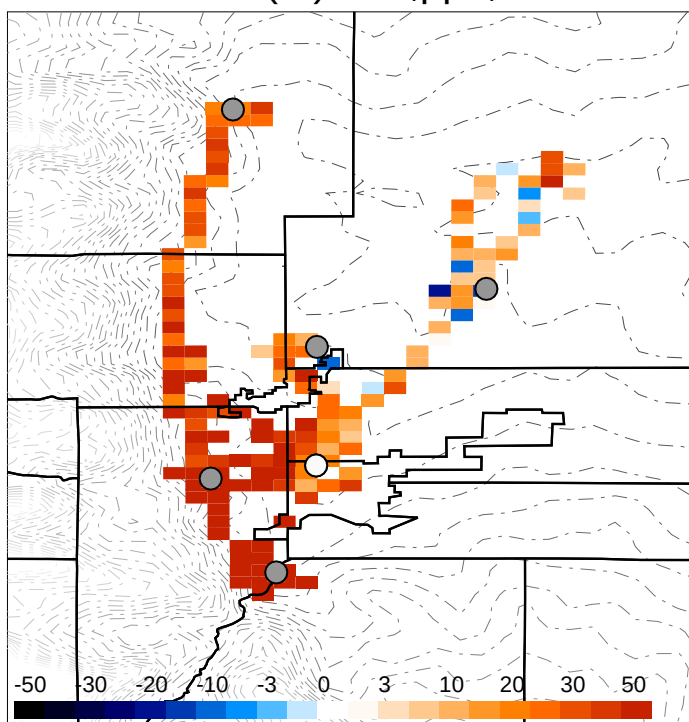
CO_DACOM,ppbv < 3 km



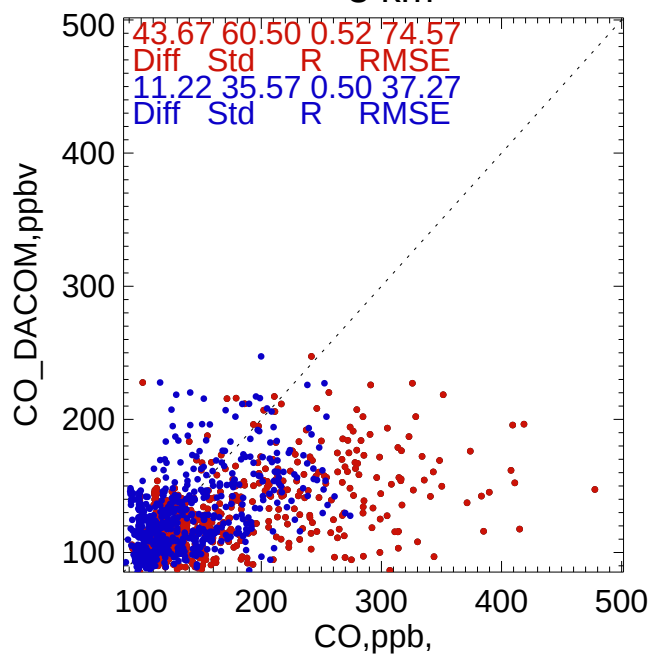
Model CO,ppb, < 3 km



Model-Obs(%) CO,ppb, < 3 km



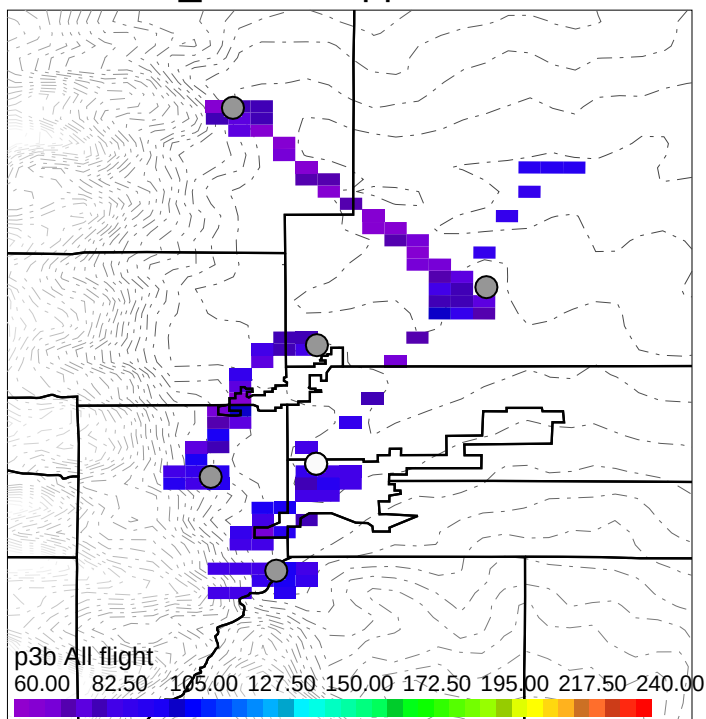
< 3 km



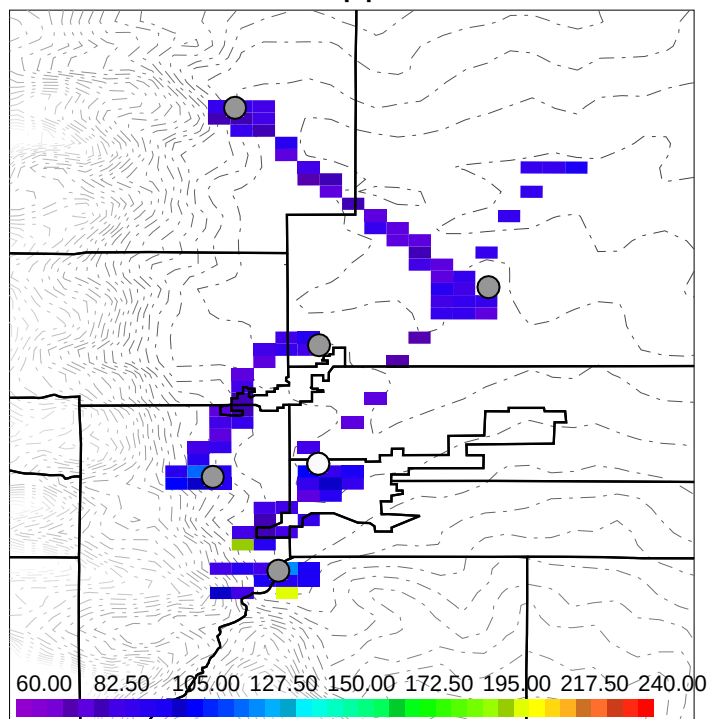
BTXv2ECMWFV4mozmozaic-

Ravan-

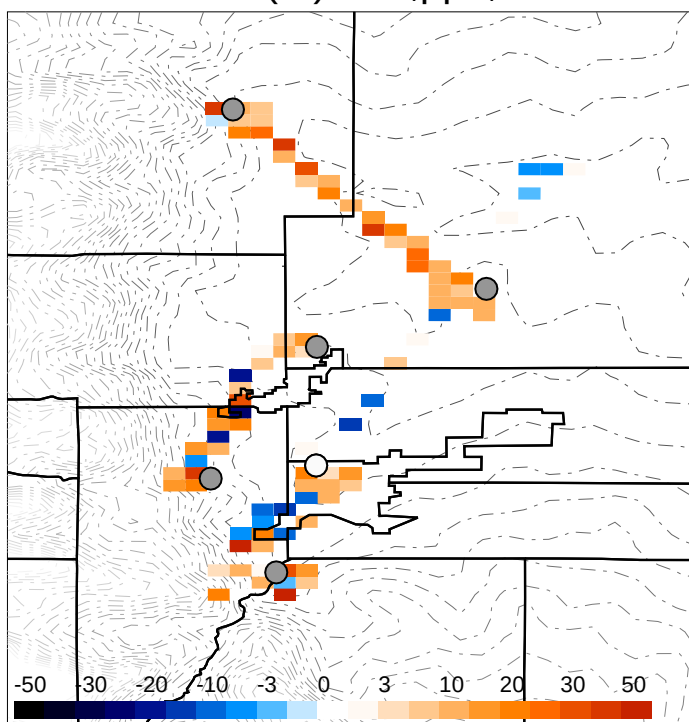
CO_DACOM,ppbv > 3 km



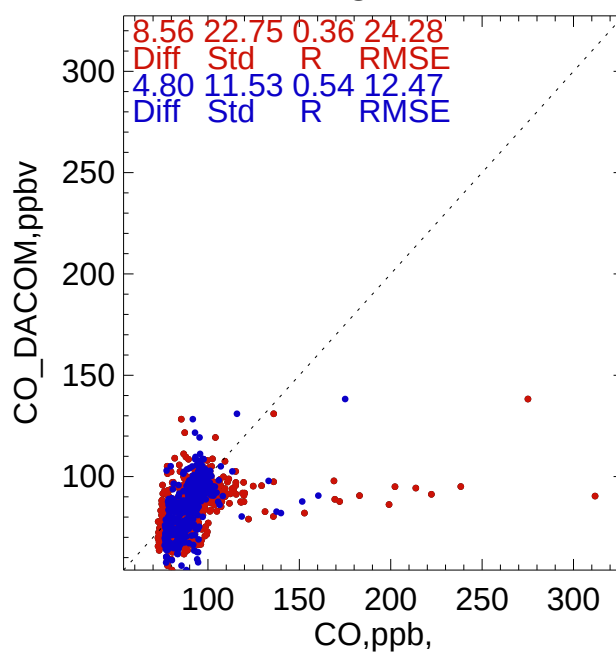
Model CO,ppb, > 3 km



Model-Obs(%) CO,ppb, > 3 km



> 3 km

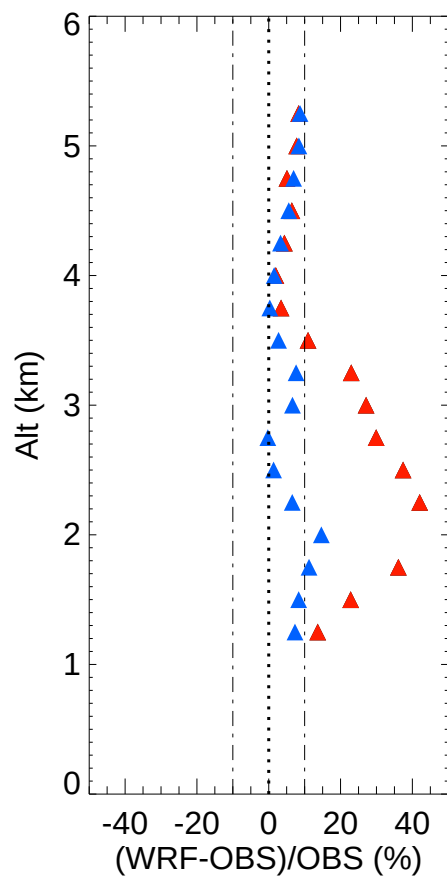
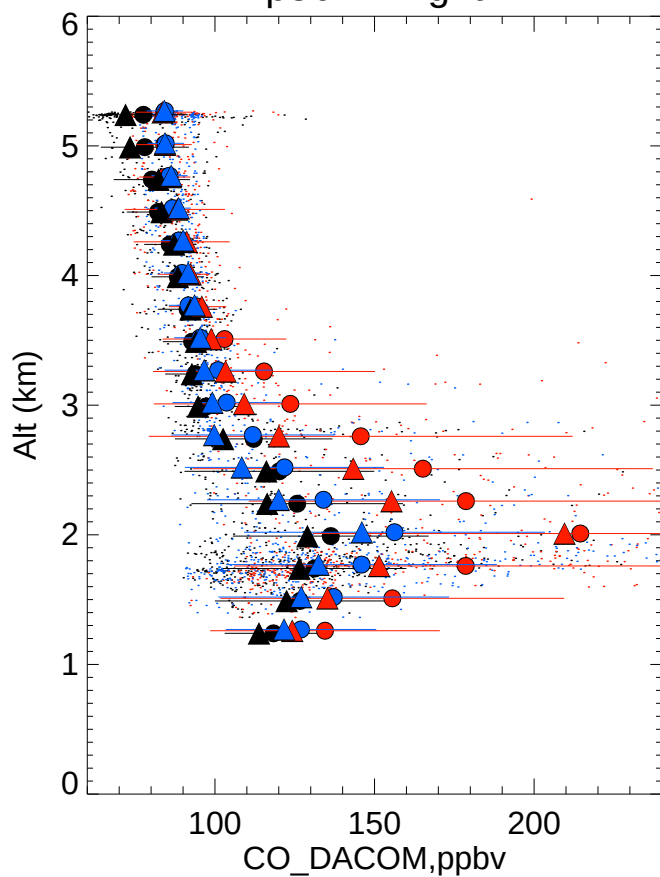
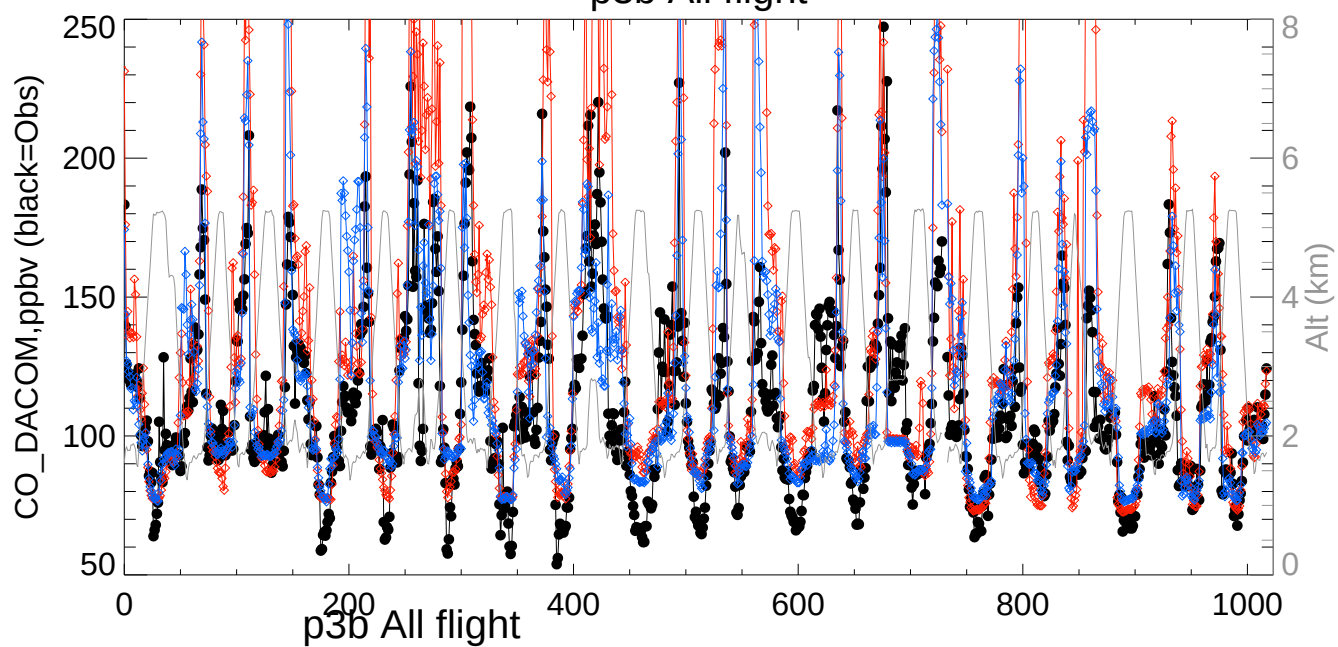


BTXv2ECMWFV4mozmozaic-

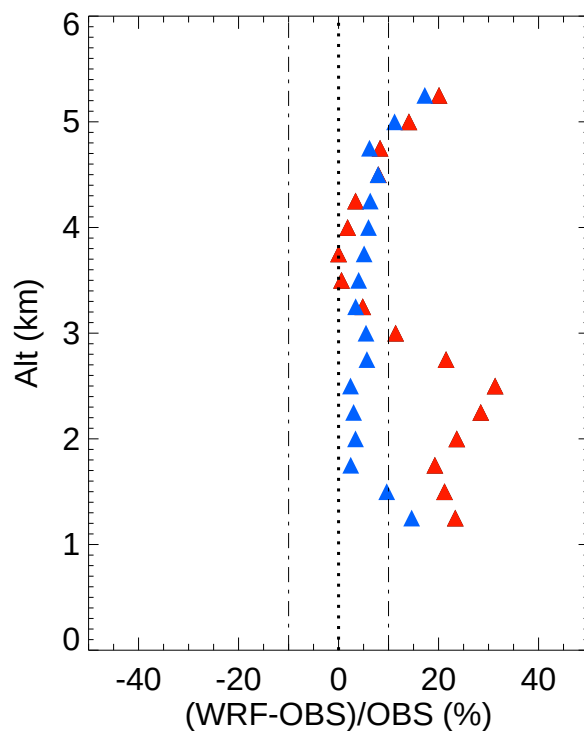
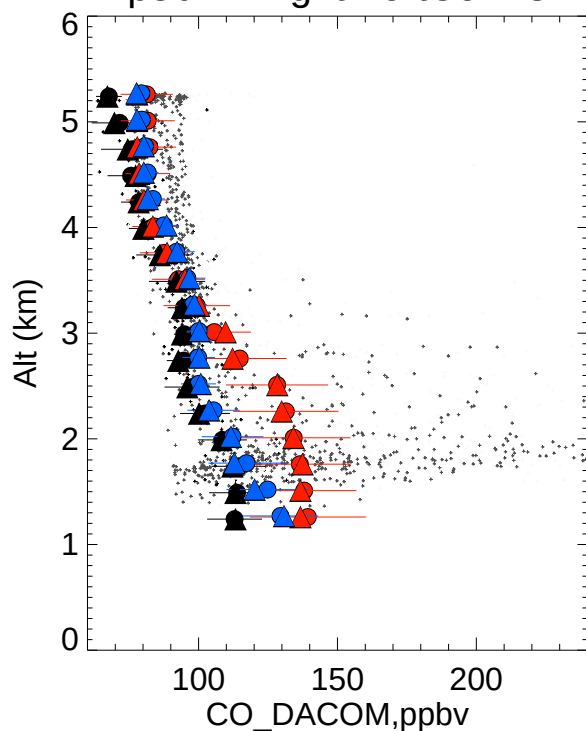
Ravan-

BTXv2ECMWFV4mozmozaRavan-

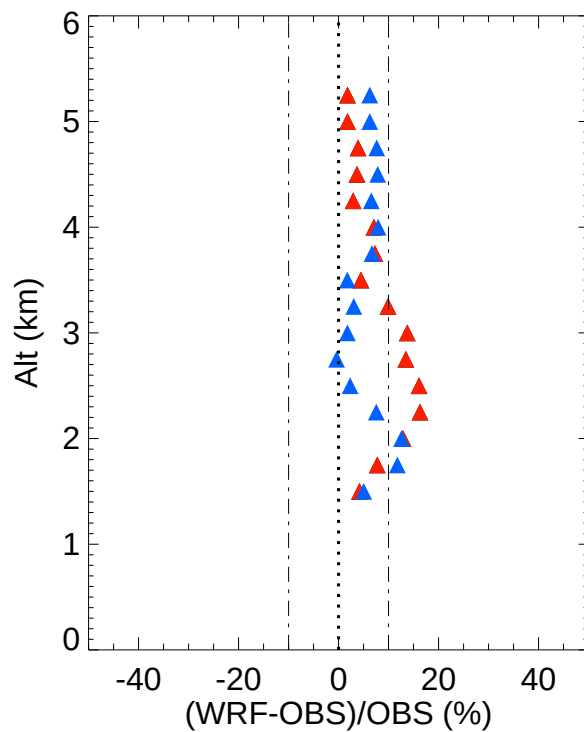
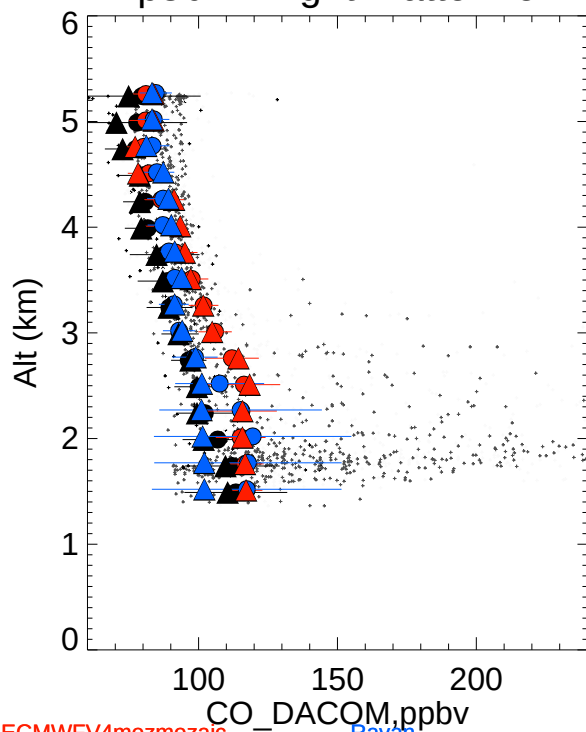
p3b All flight

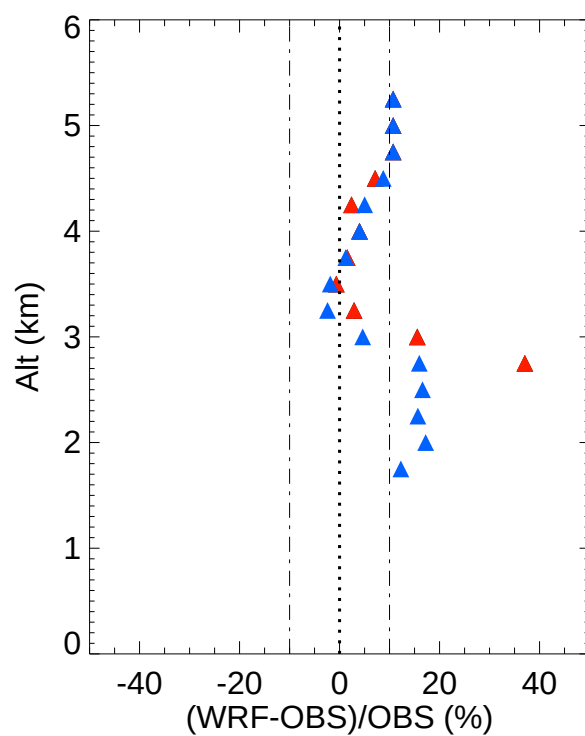
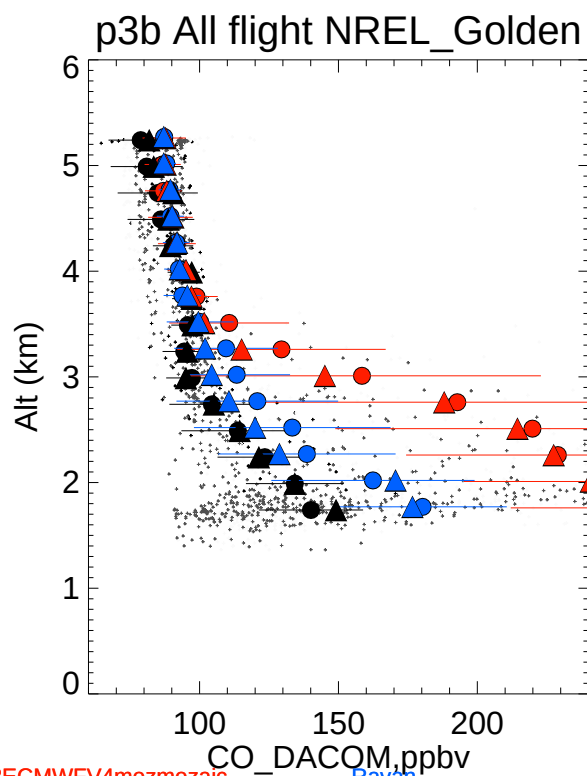
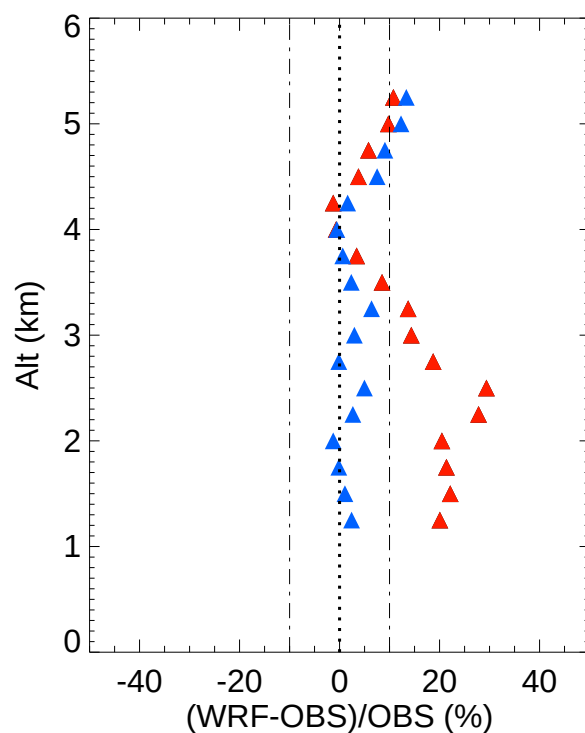
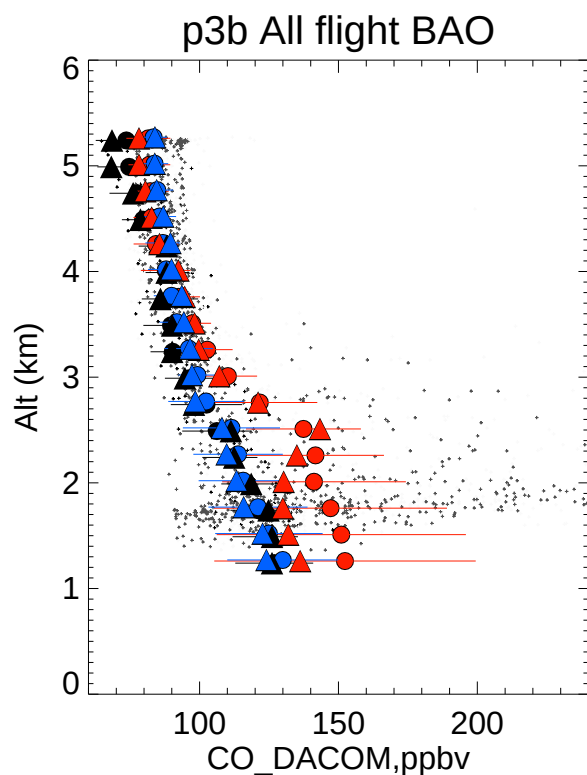


p3b All flight FortCollins

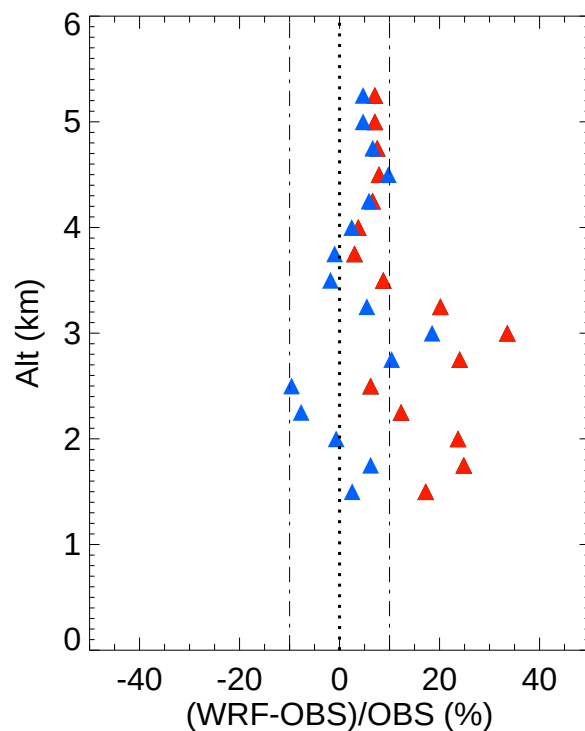
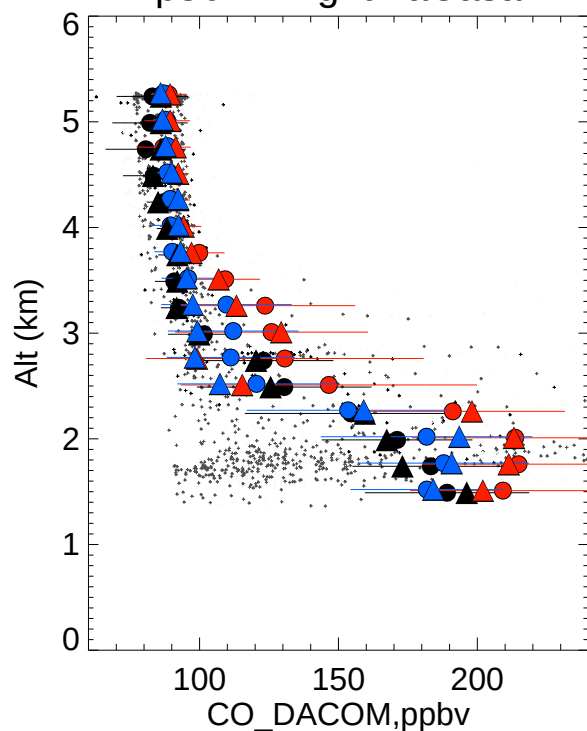


p3b All flight Platteville

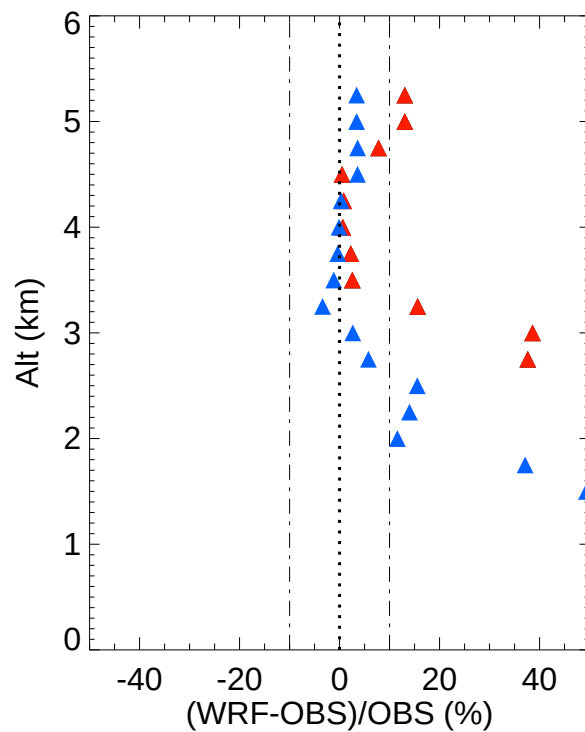
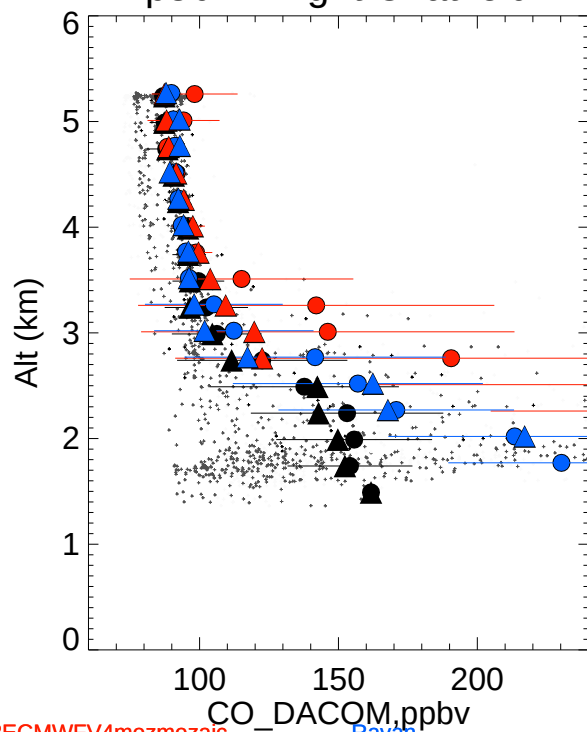




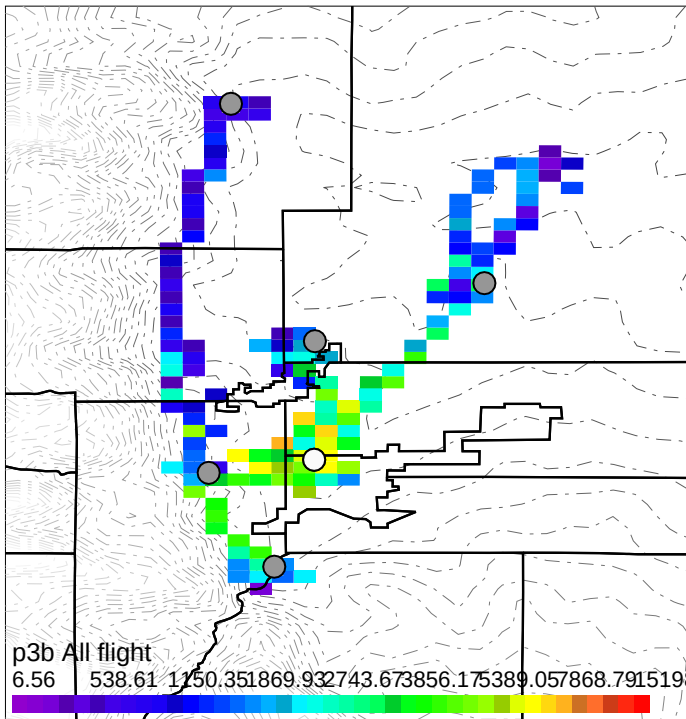
p3b All flight LaCasa



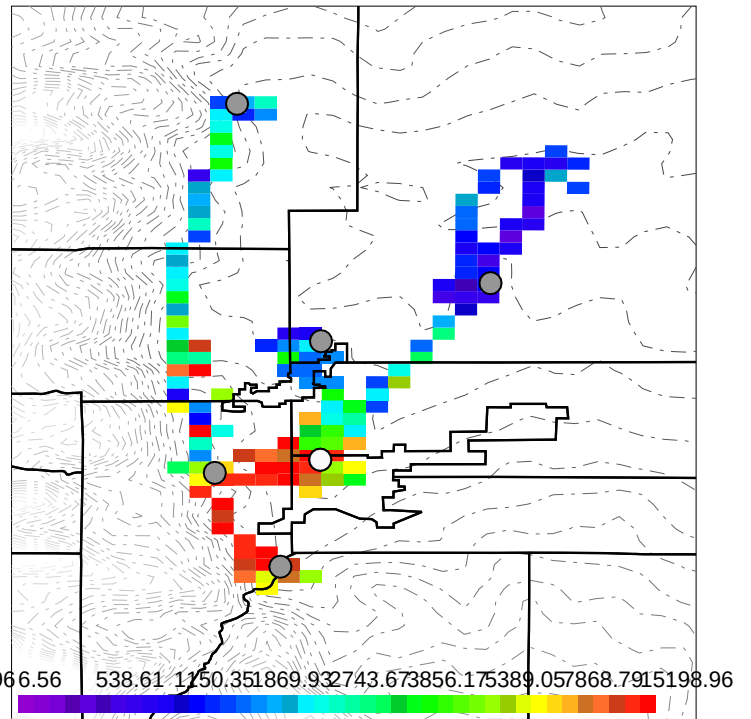
p3b All flight Chatfield



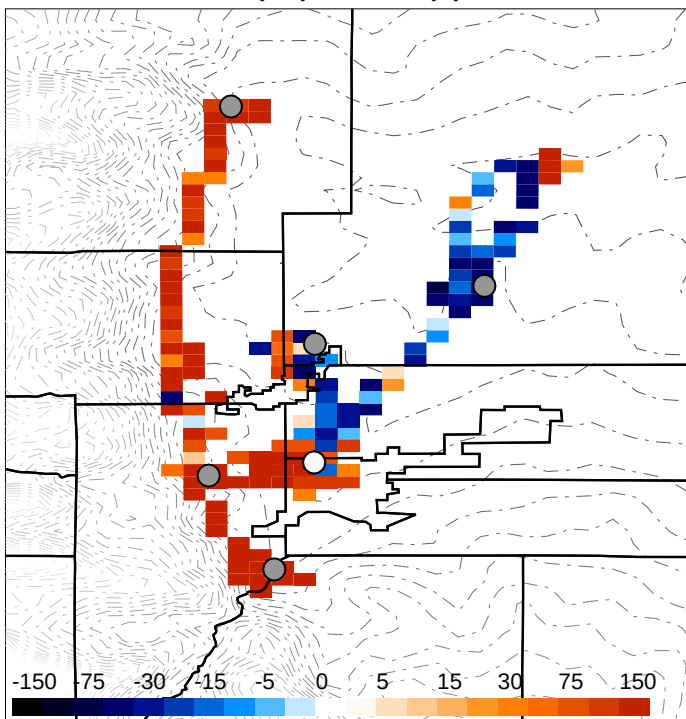
NO2_MixingRatio,pptv < 3 km



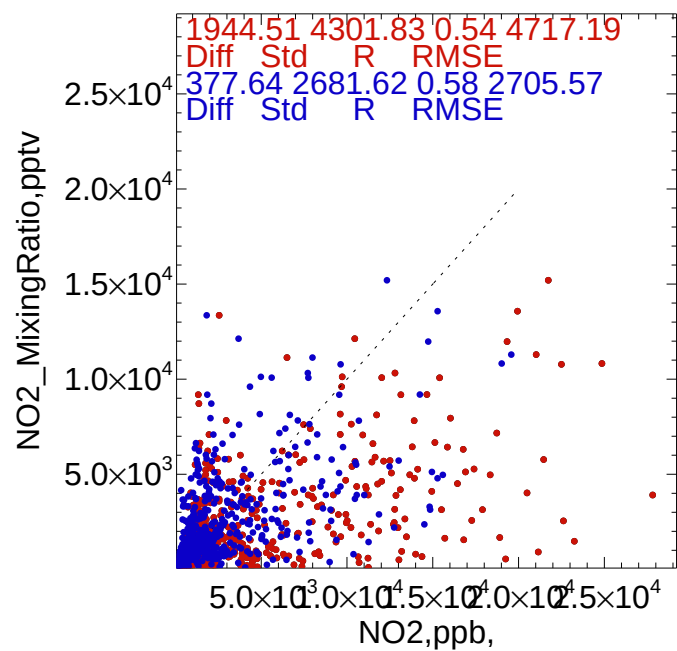
Model NO2,ppb, < 3 km



Model-Obs(%) NO2,ppb, < 3 km



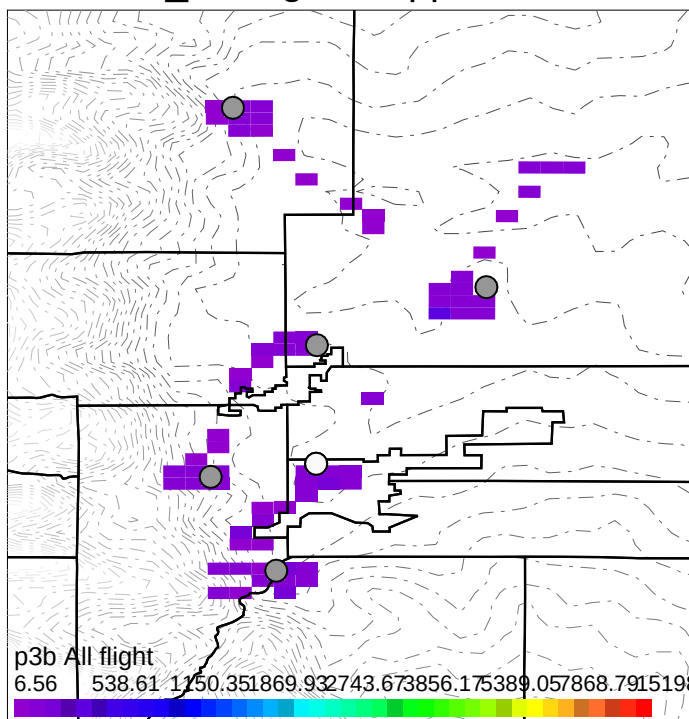
< 3 km



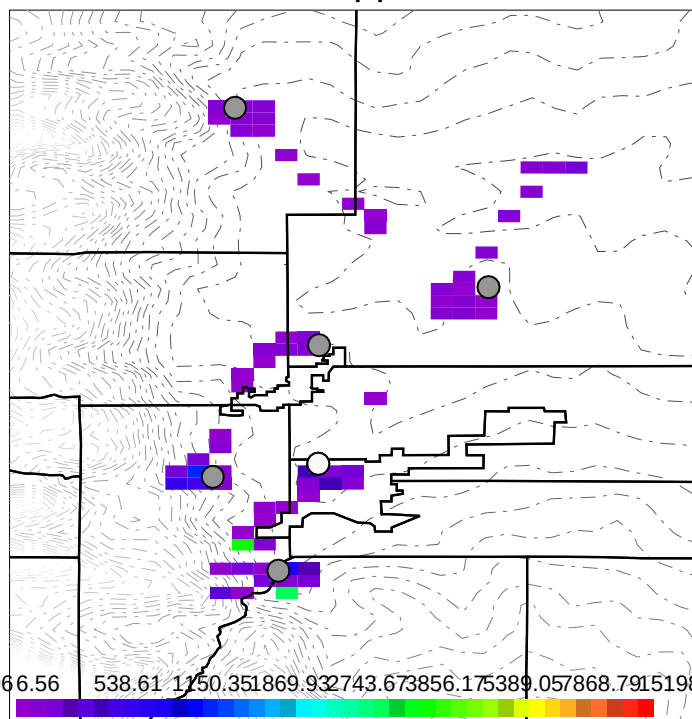
BTXv2ECMWFV4mozmozaic-

Ravan-

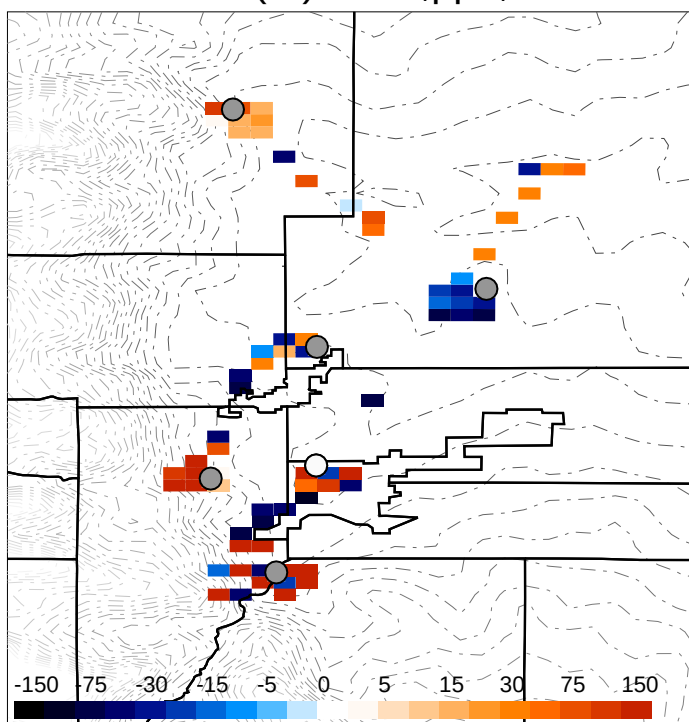
NO2_MixingRatio,pptv > 3 km



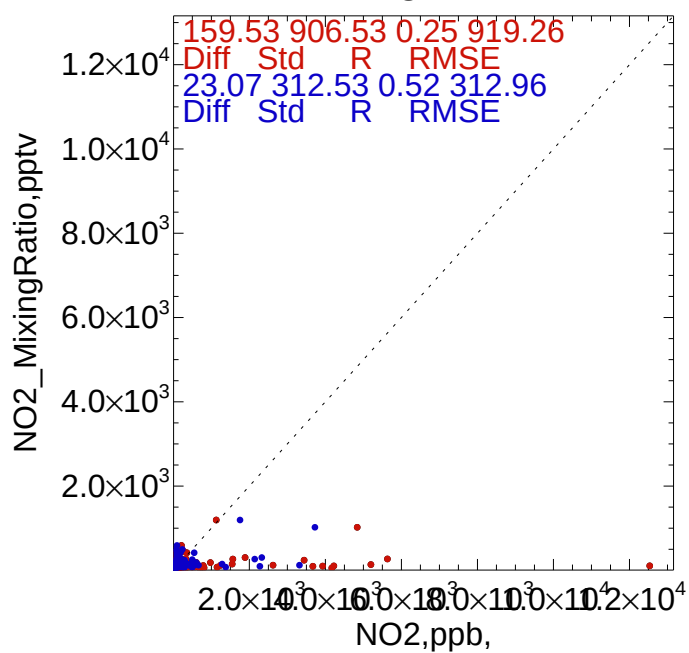
Model NO2,ppb, > 3 km



Model-Obs(%) NO2,ppb, > 3 km



> 3 km

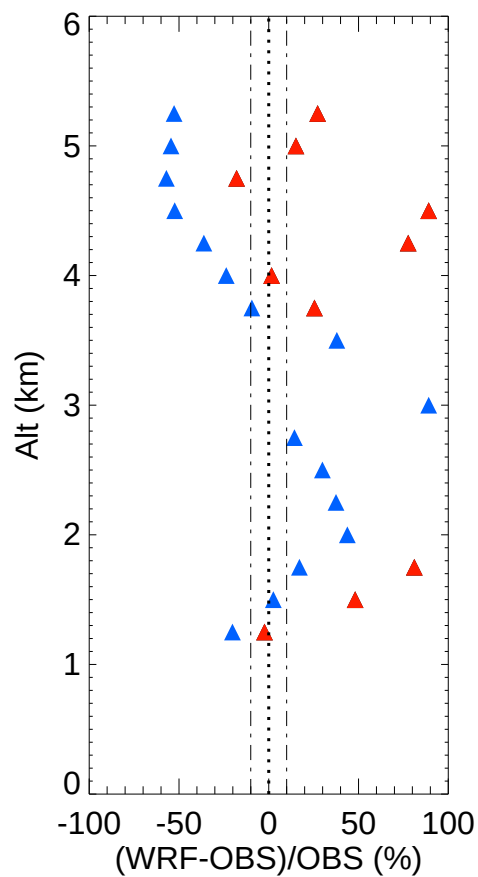
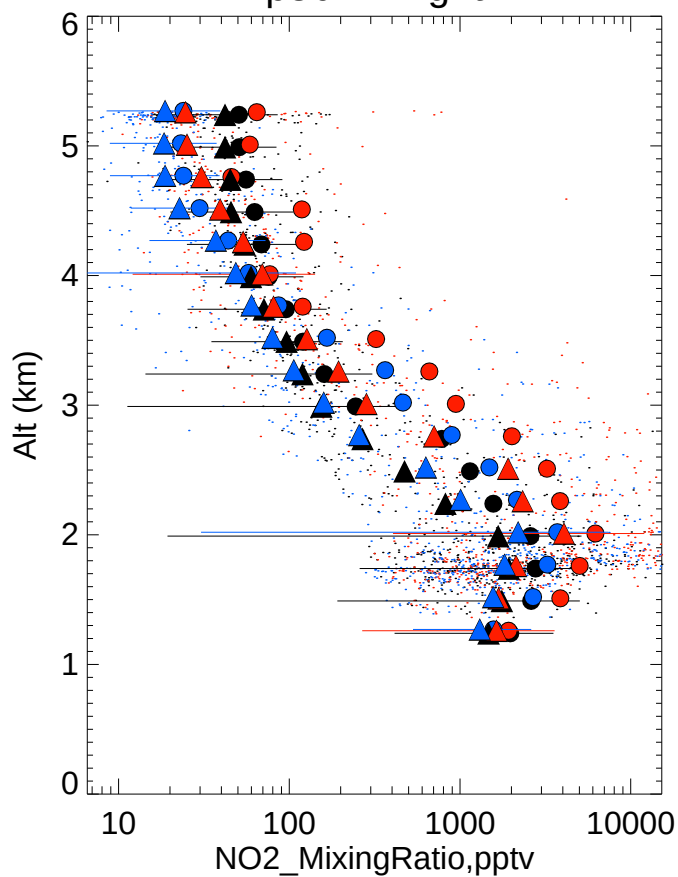
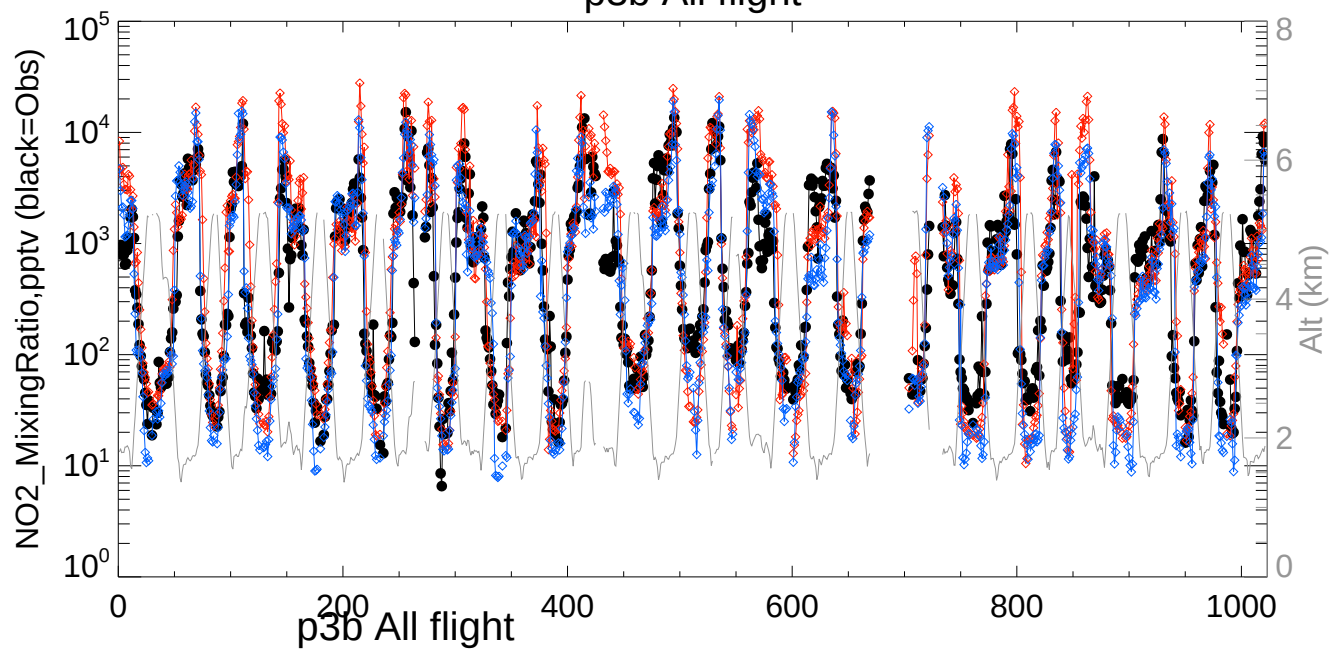


BTXv2ECMWFV4mozmozaic-

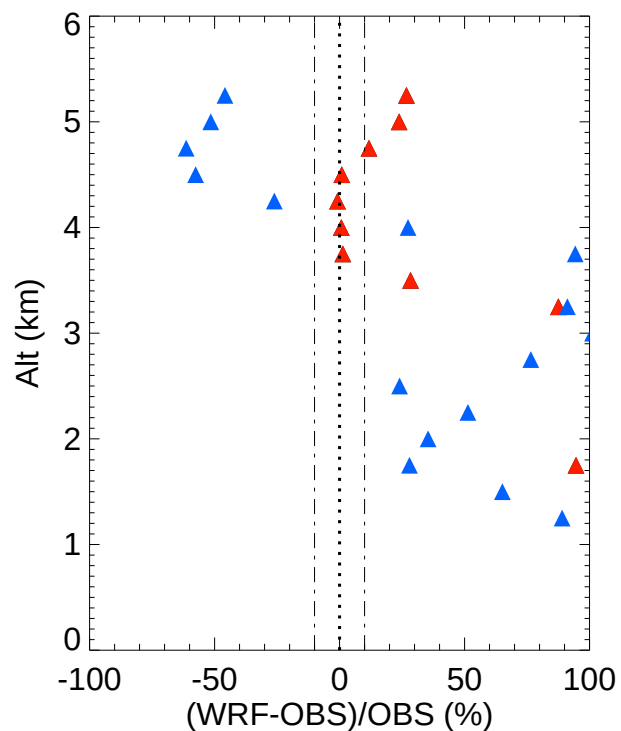
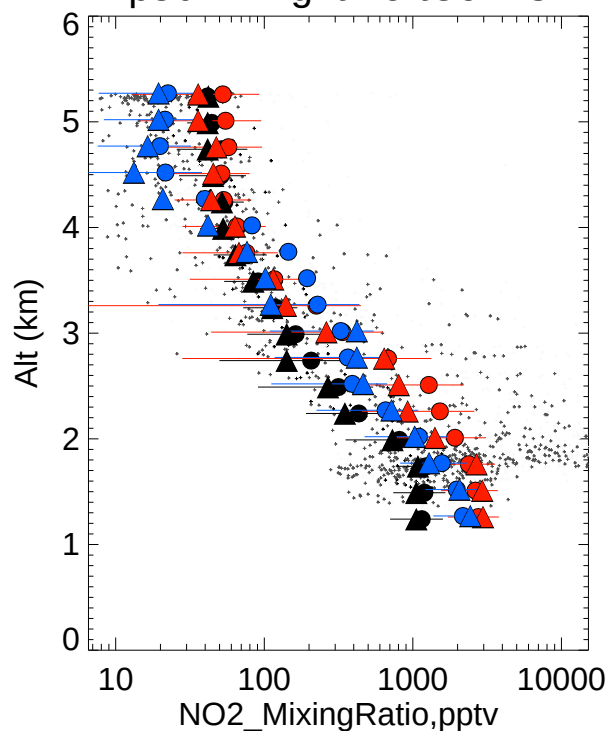
Ravan-

BTXv2ECMWFV4mozmozaRavan-

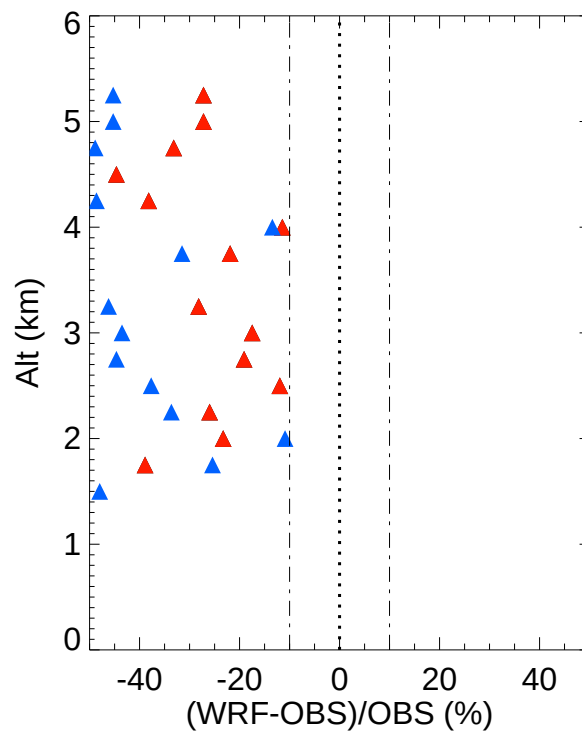
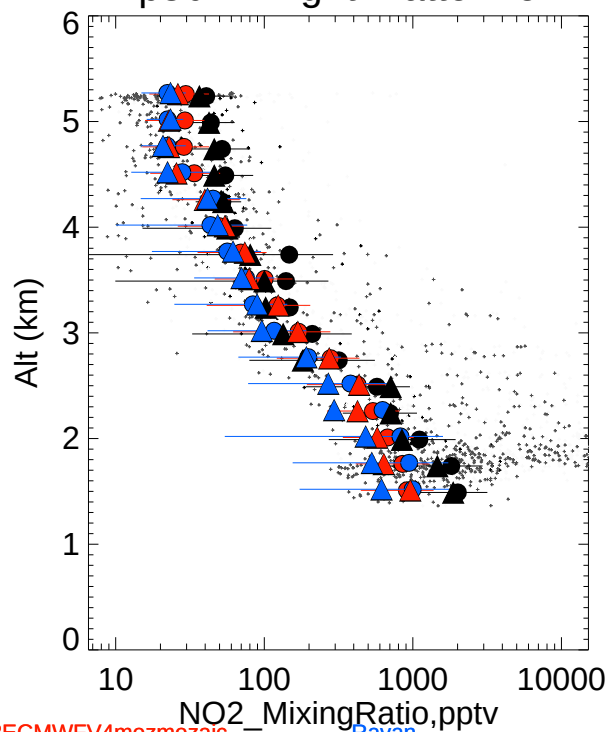
p3b All flight

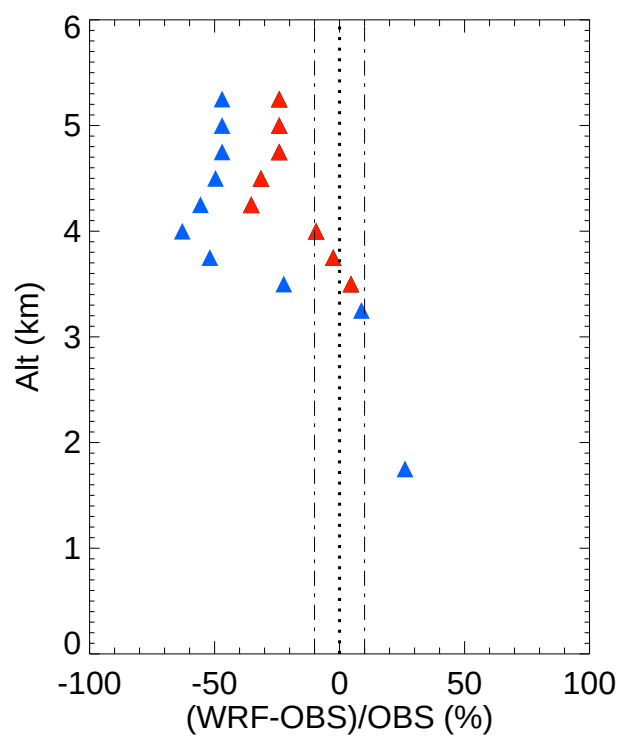
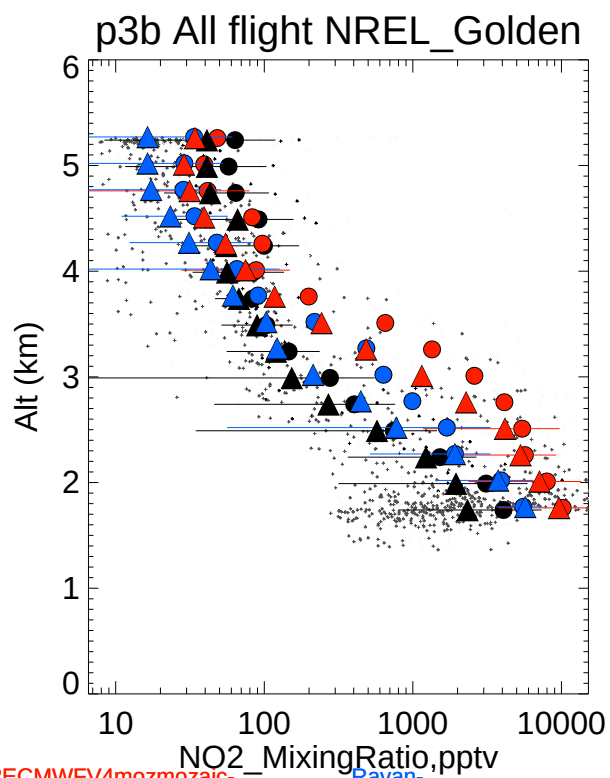
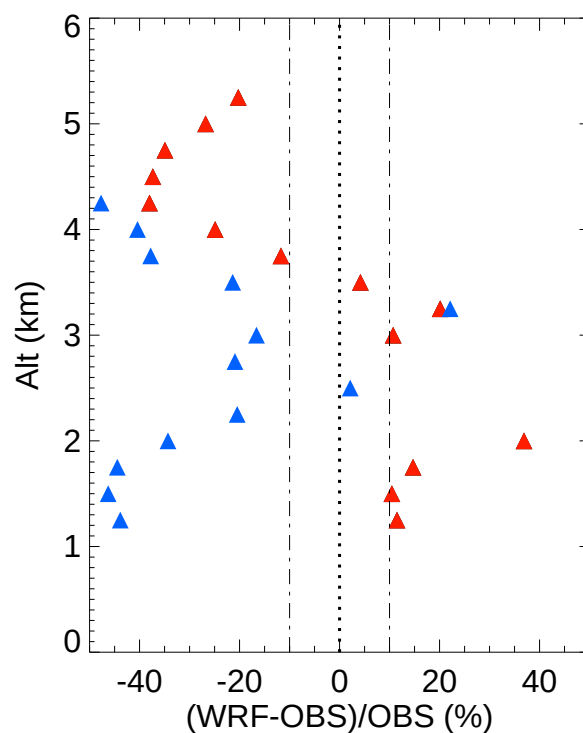
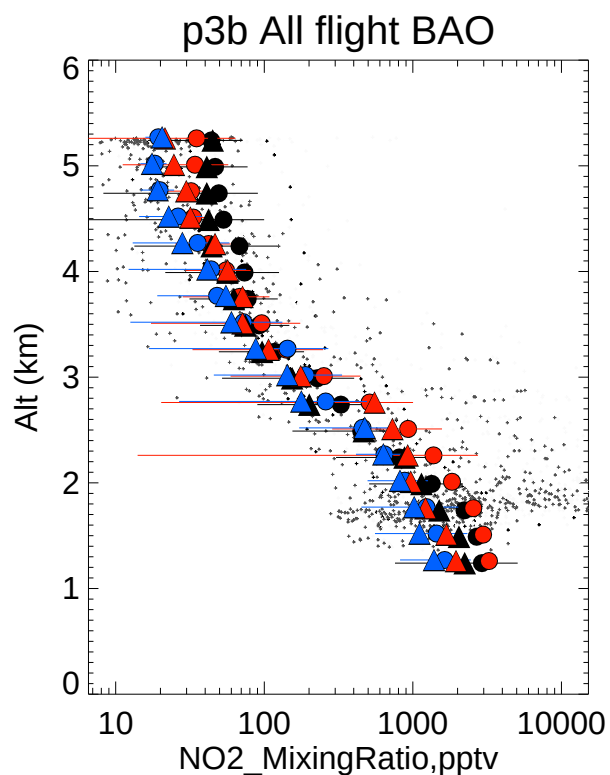


p3b All flight FortCollins

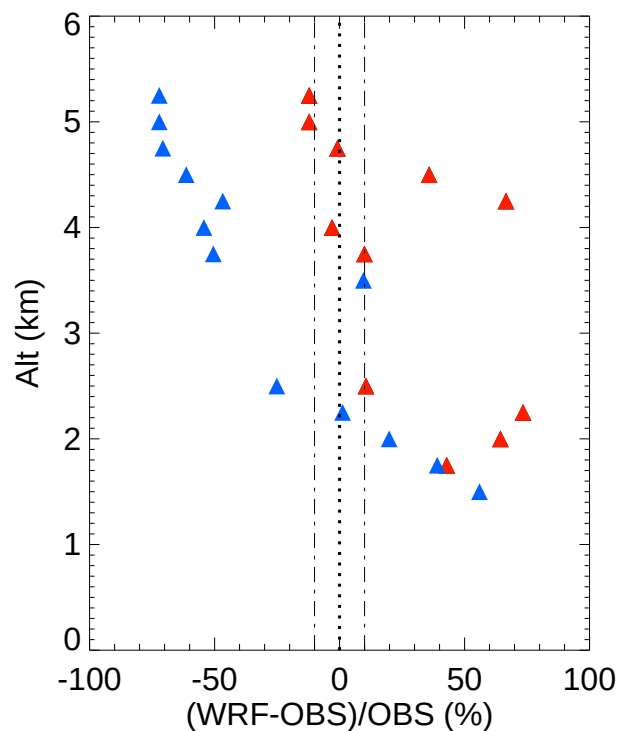
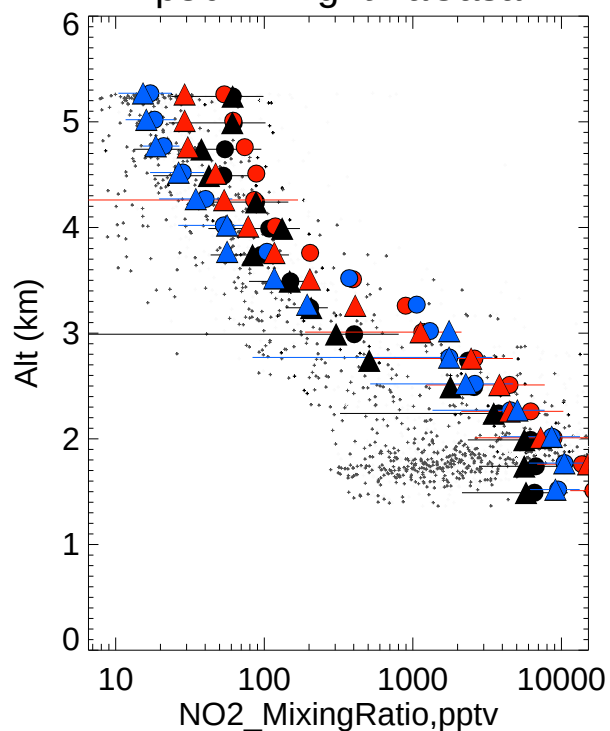


p3b All flight Platteville

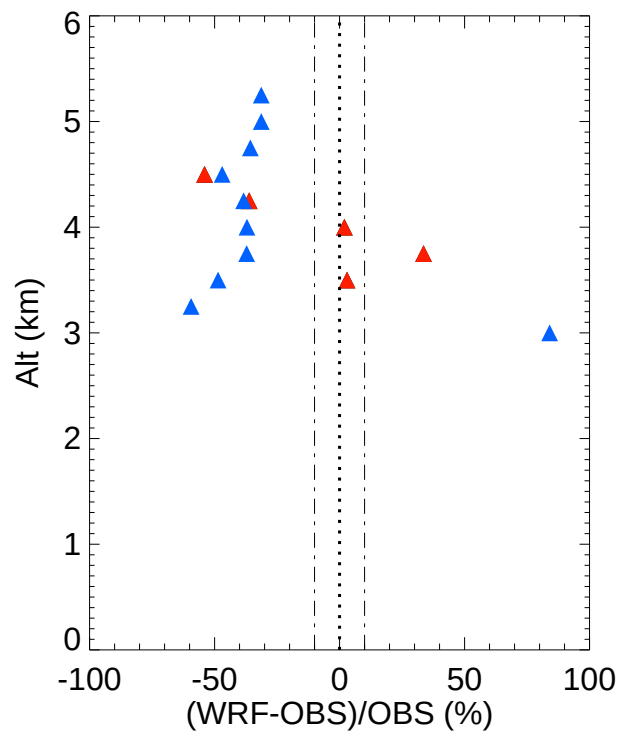
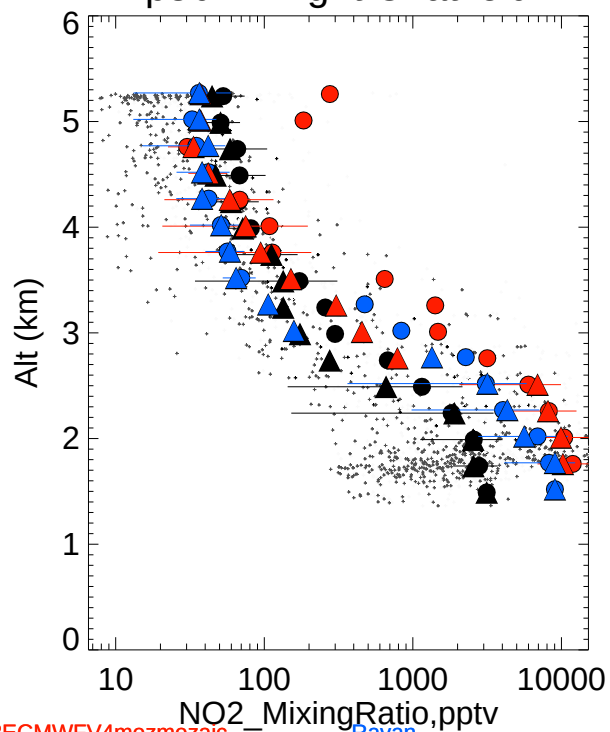




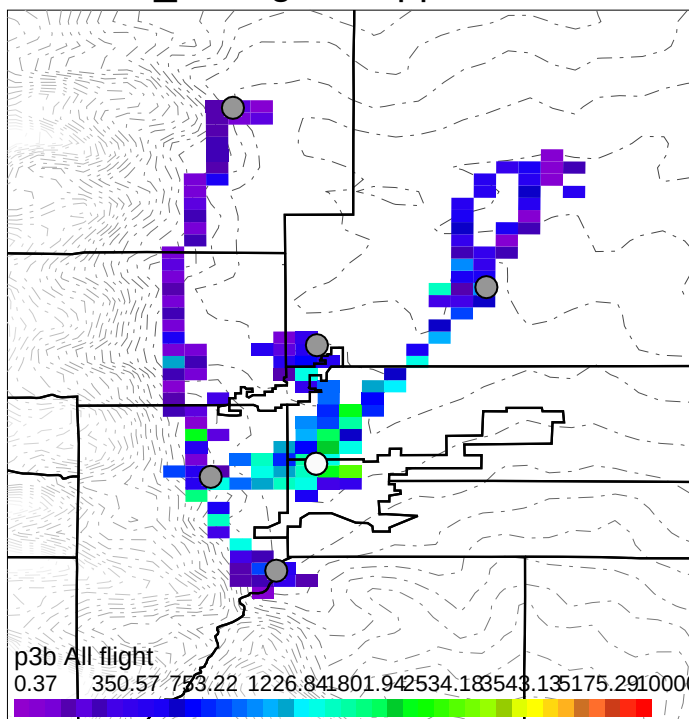
p3b All flight LaCasa



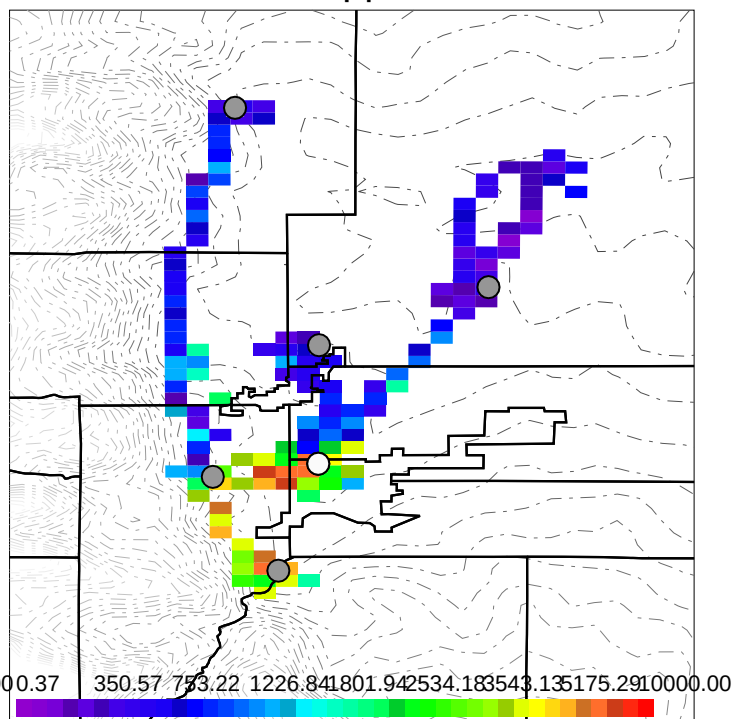
p3b All flight Chatfield



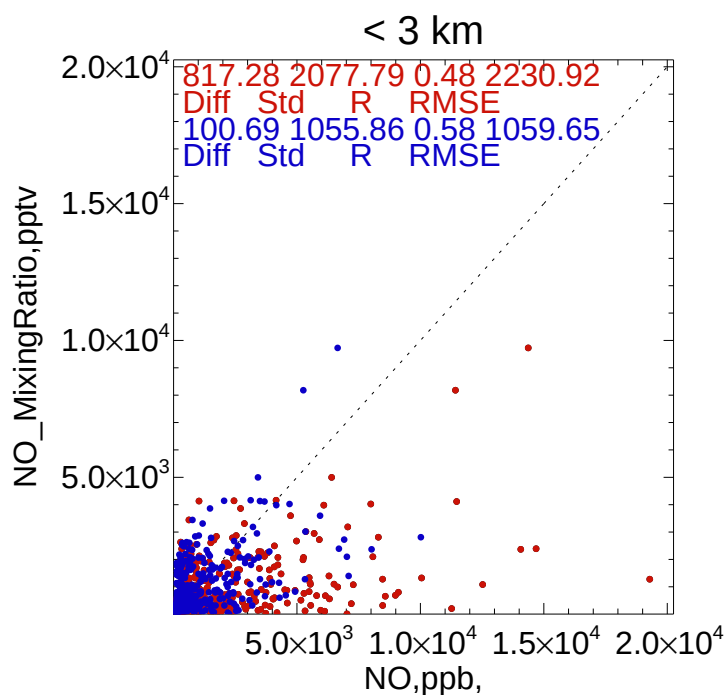
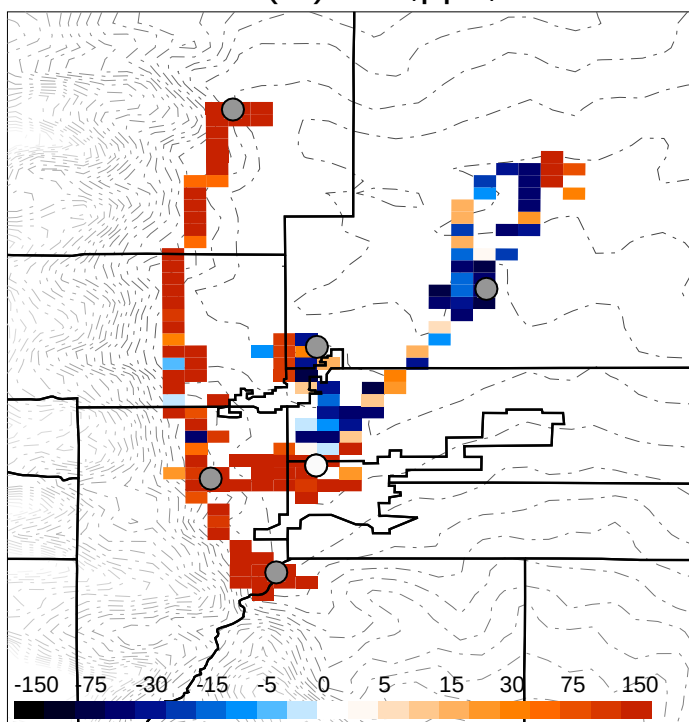
NO_MixingRatio,pptv < 3 km



Model NO,ppb, < 3 km



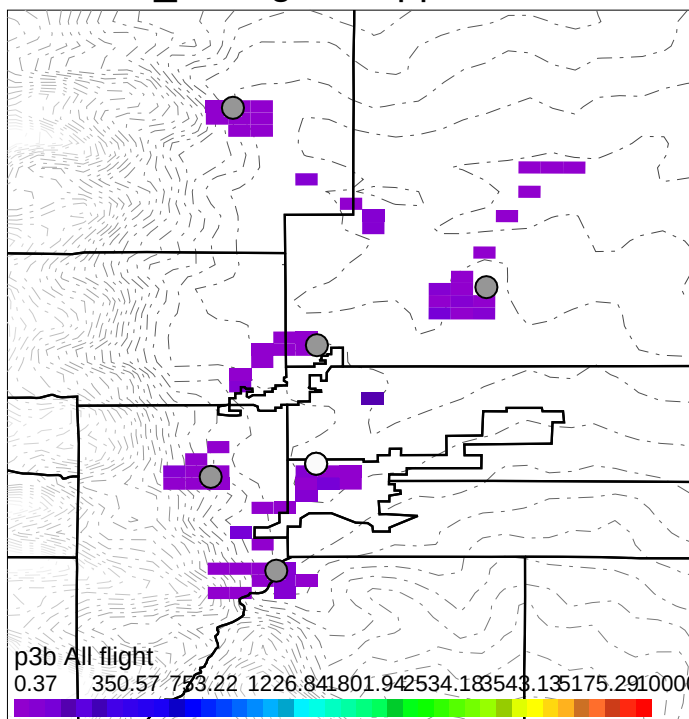
Model-Obs(%) NO,ppb, < 3 km



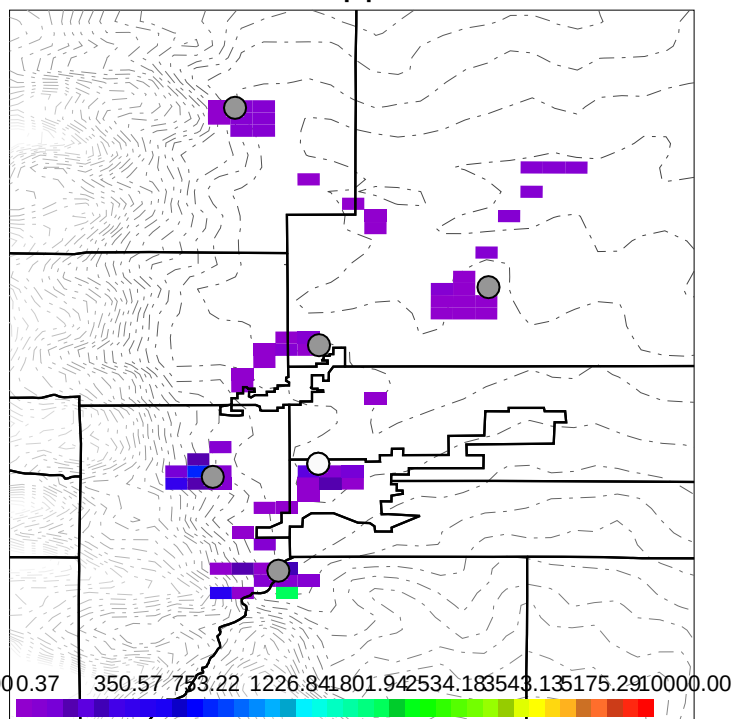
BTXv2ECMWFV4mozmozaic-

Ravan-

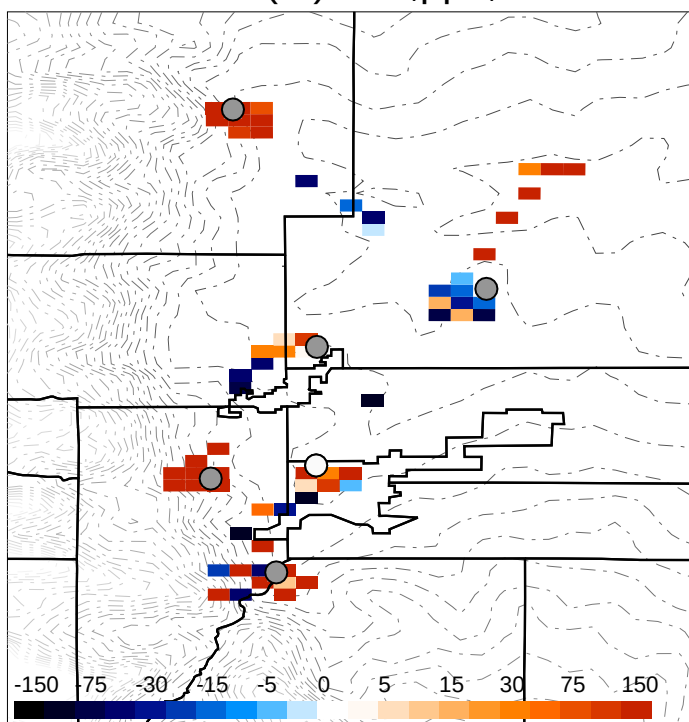
NO_MixingRatio,pptv > 3 km



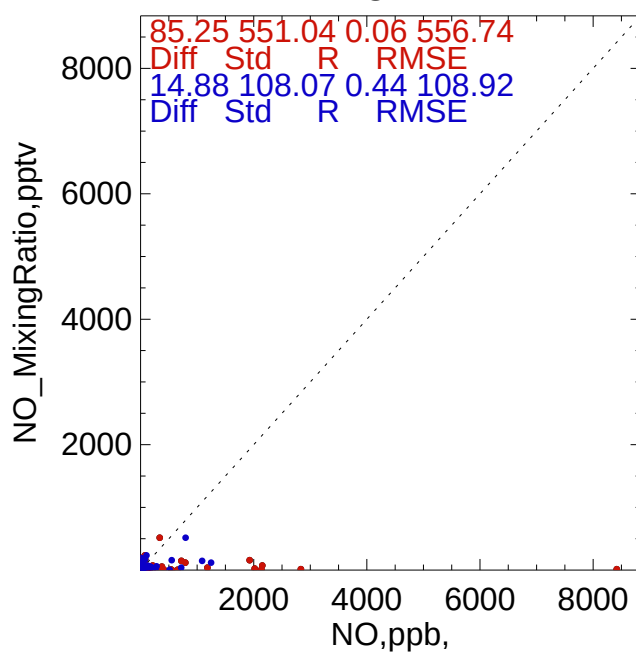
Model NO,ppb, > 3 km



Model-Obs(%) NO,ppb, > 3 km

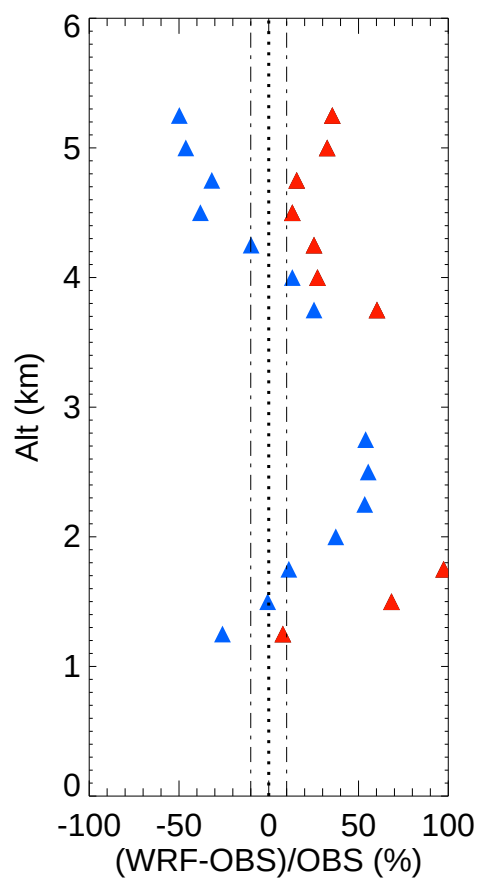
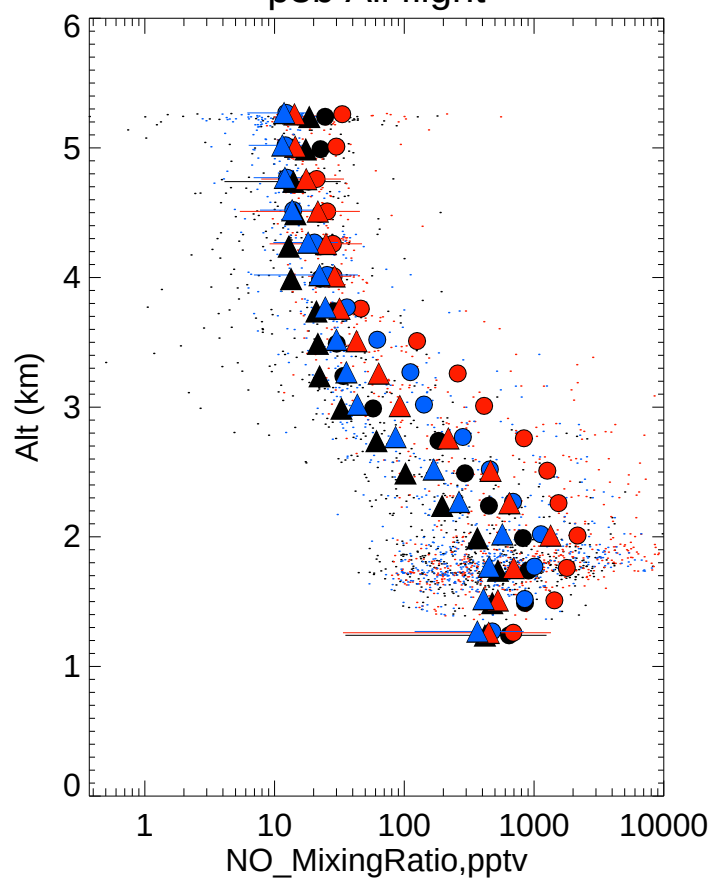
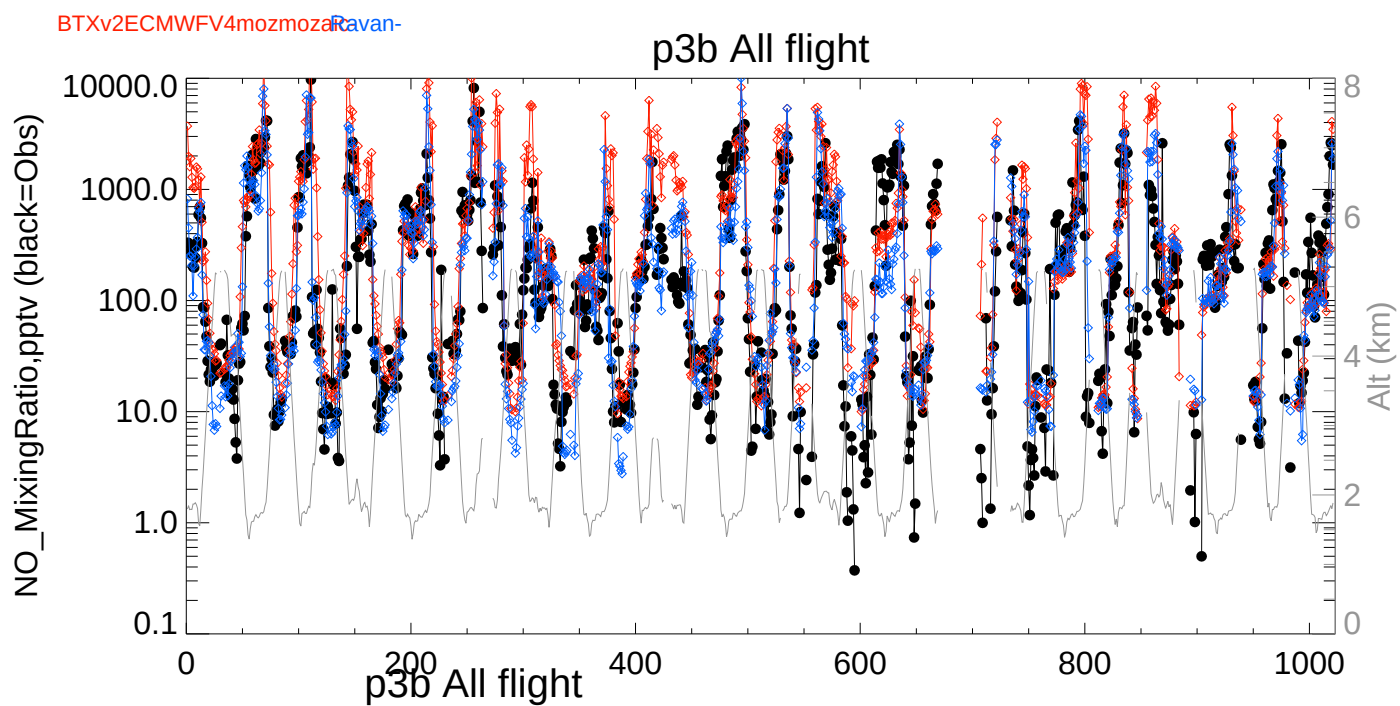


> 3 km

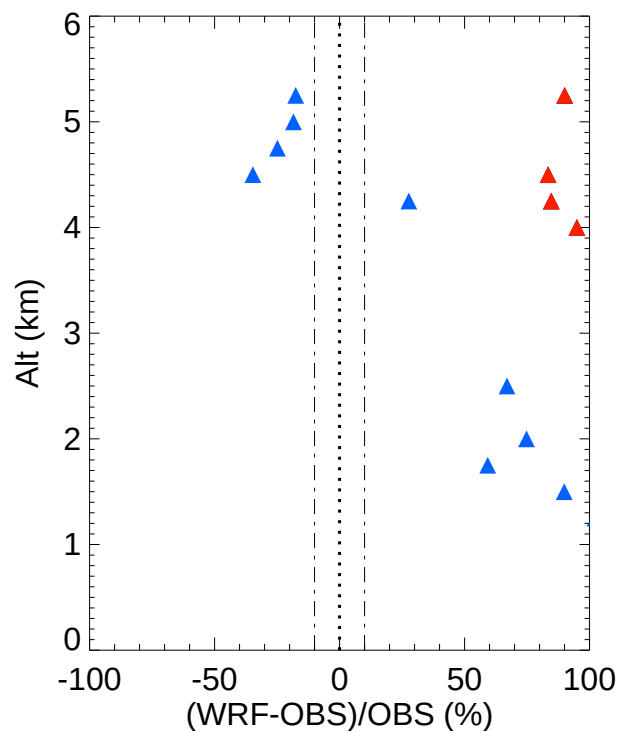
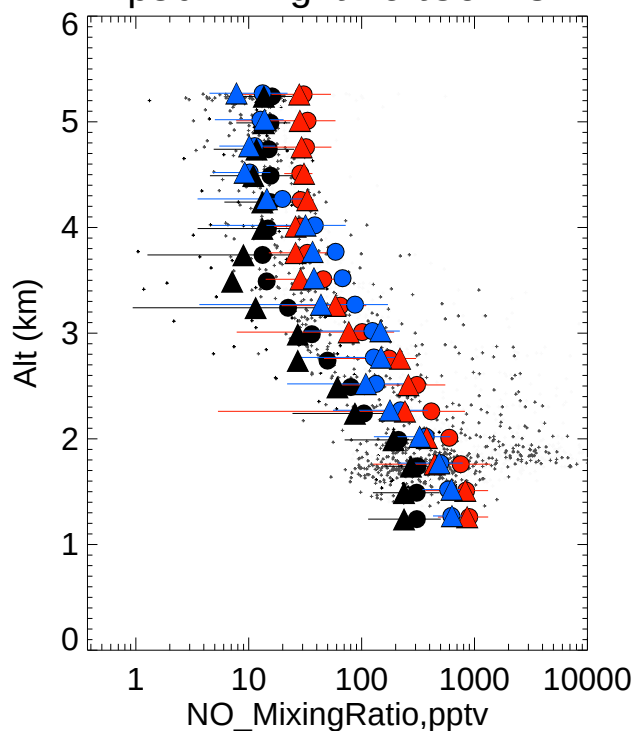


BTXv2ECMWFV4mozmozaic-

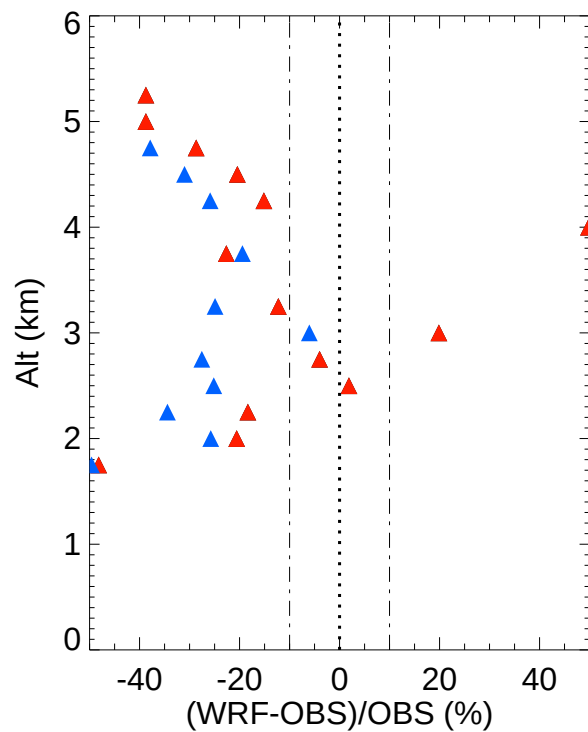
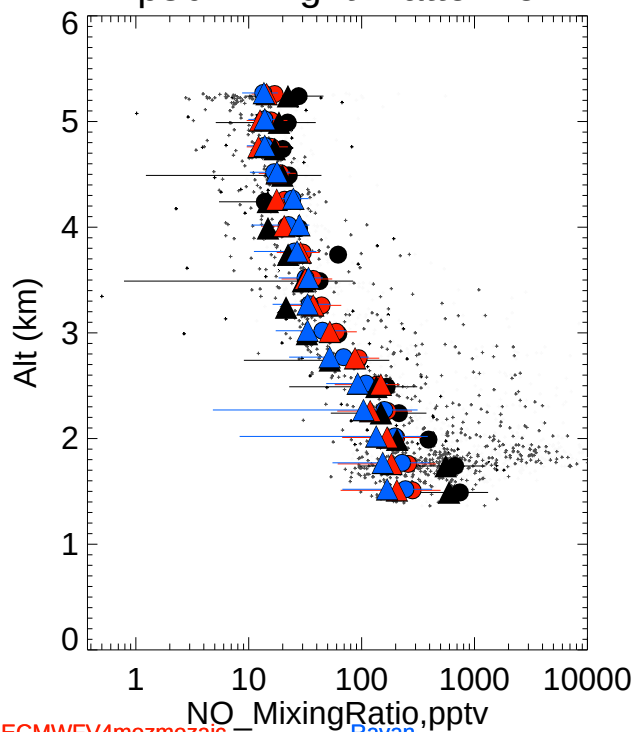
Ravan-

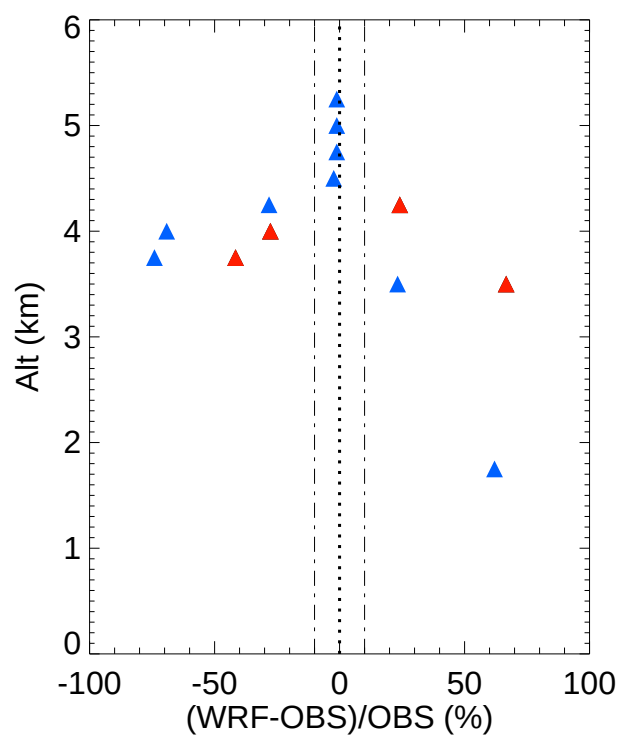
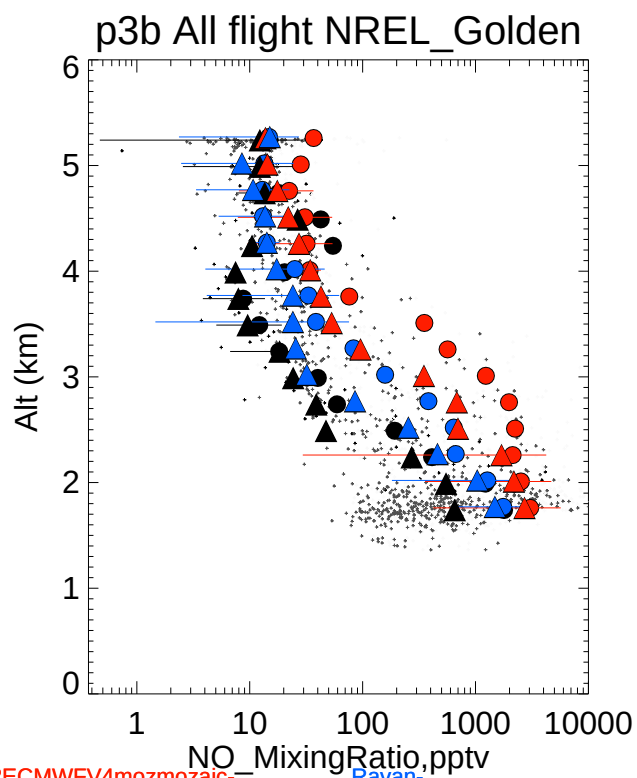
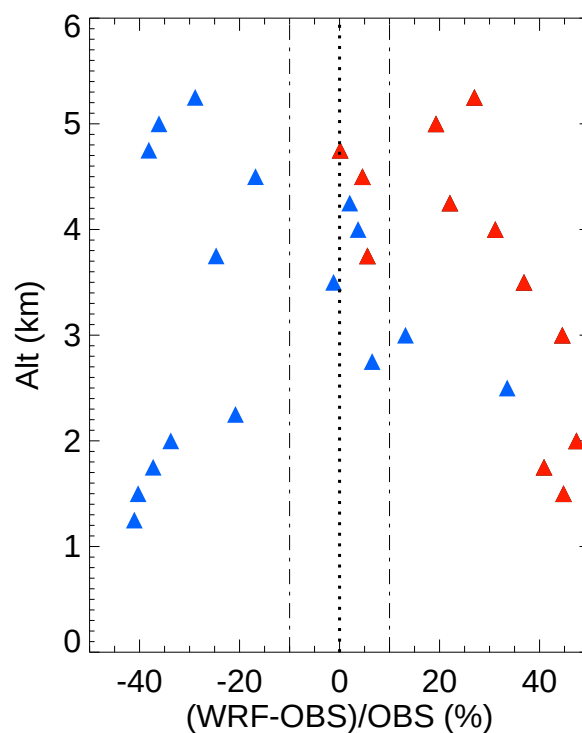
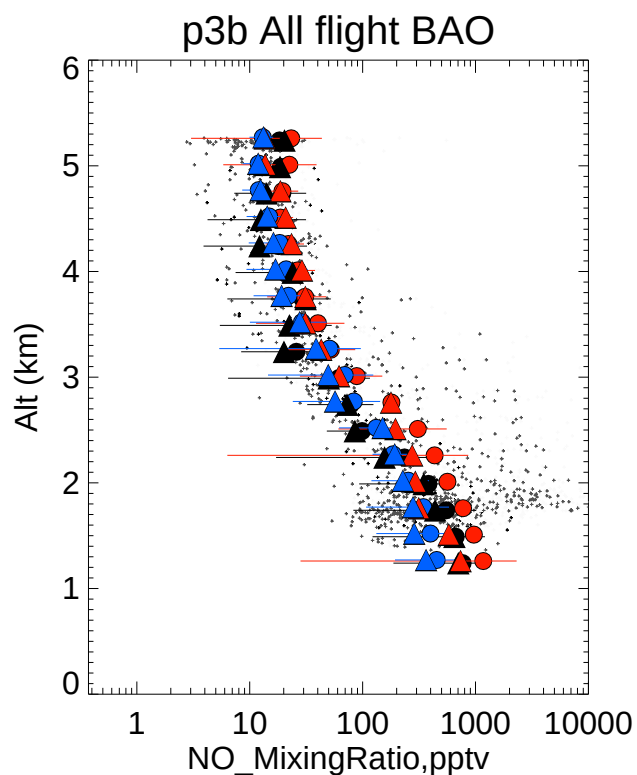


p3b All flight FortCollins

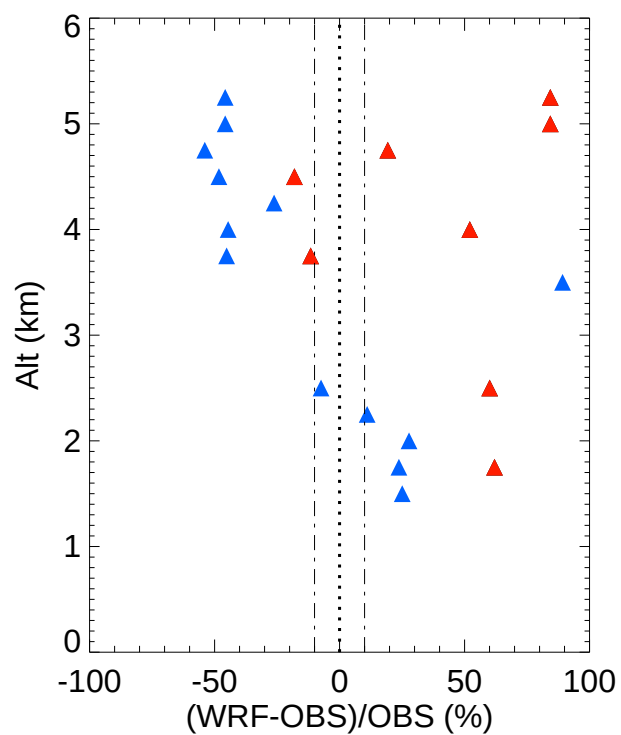
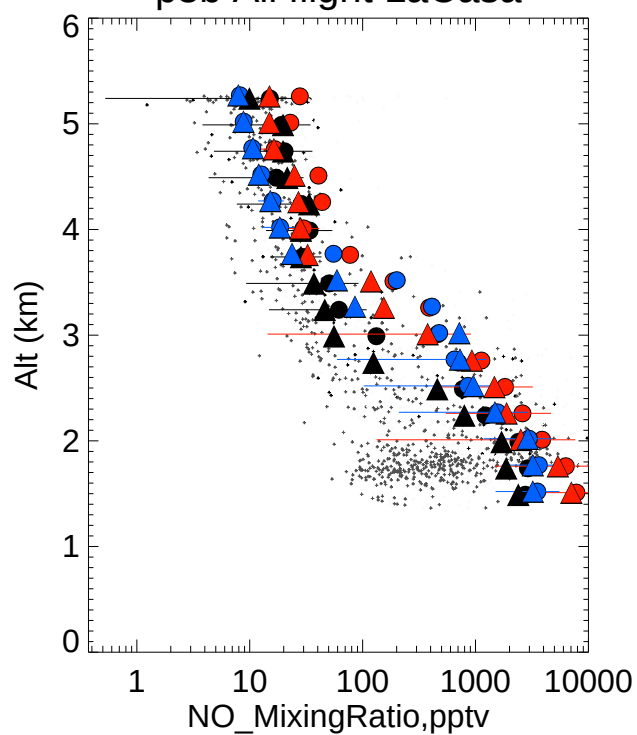


p3b All flight Platteville

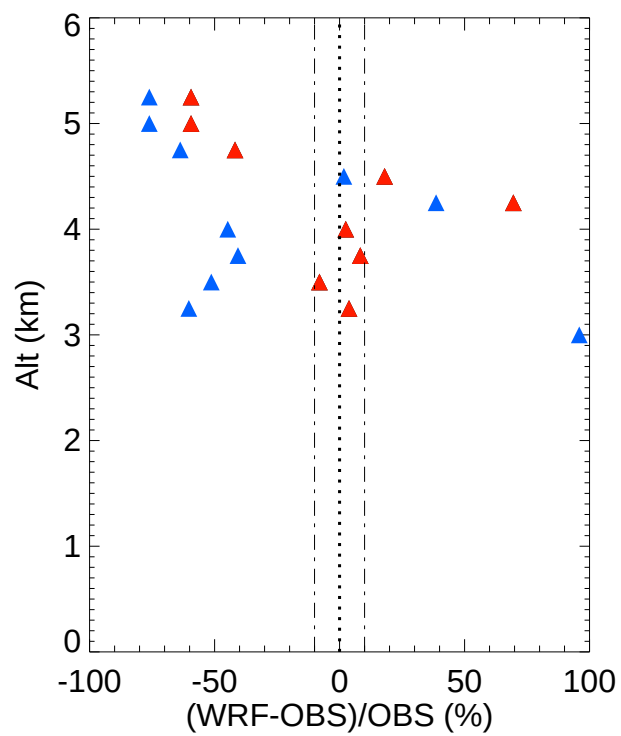
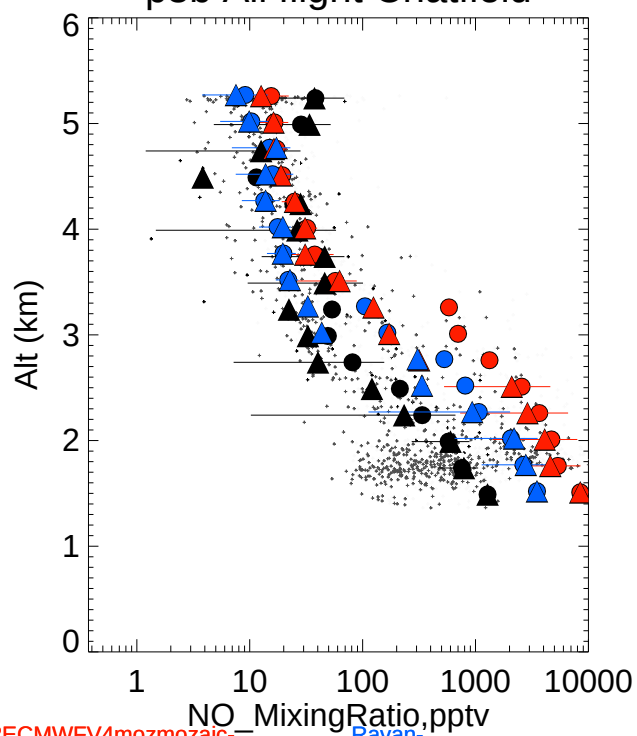




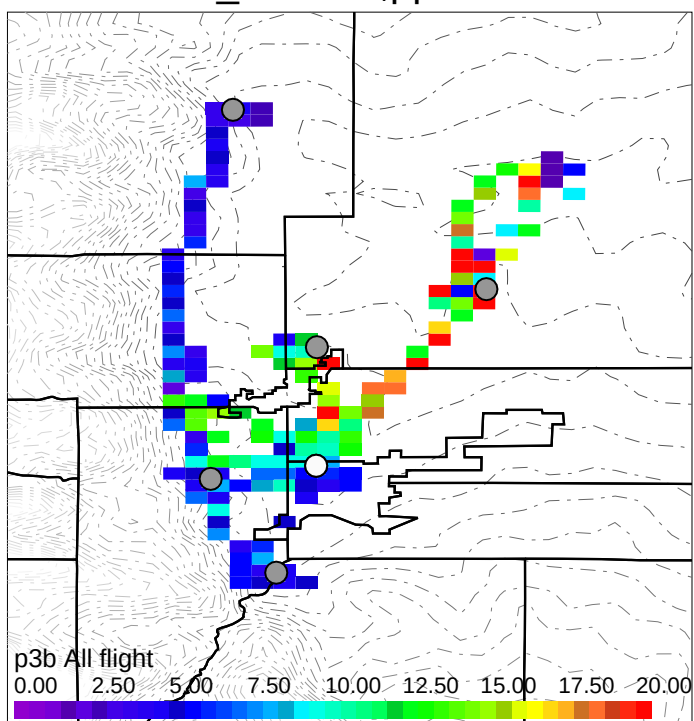
p3b All flight LaCasa



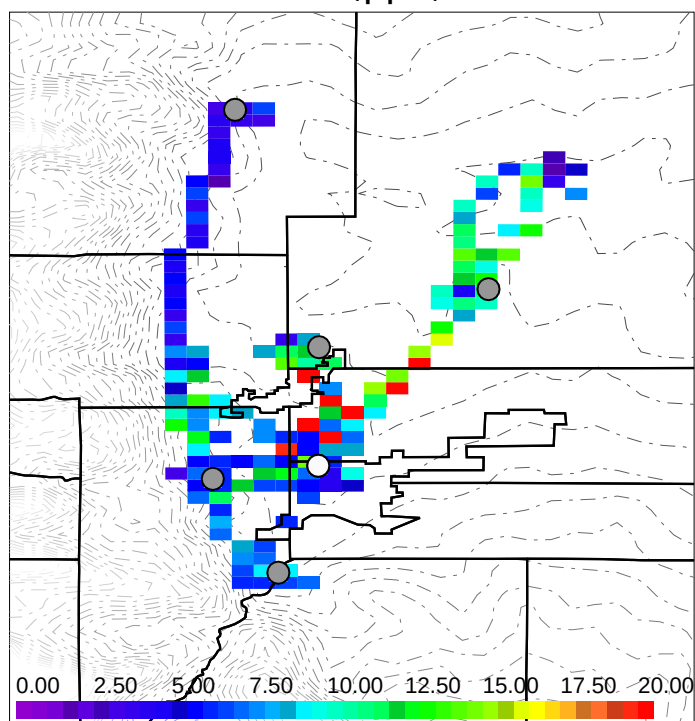
p3b All flight Chatfield



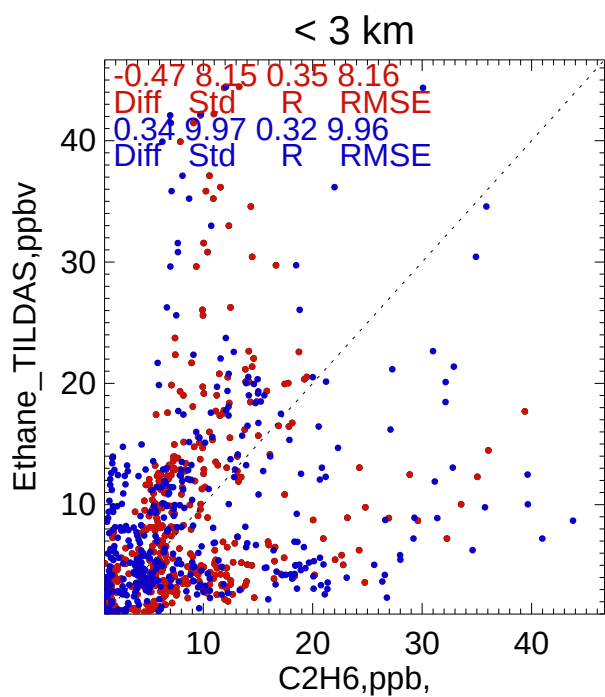
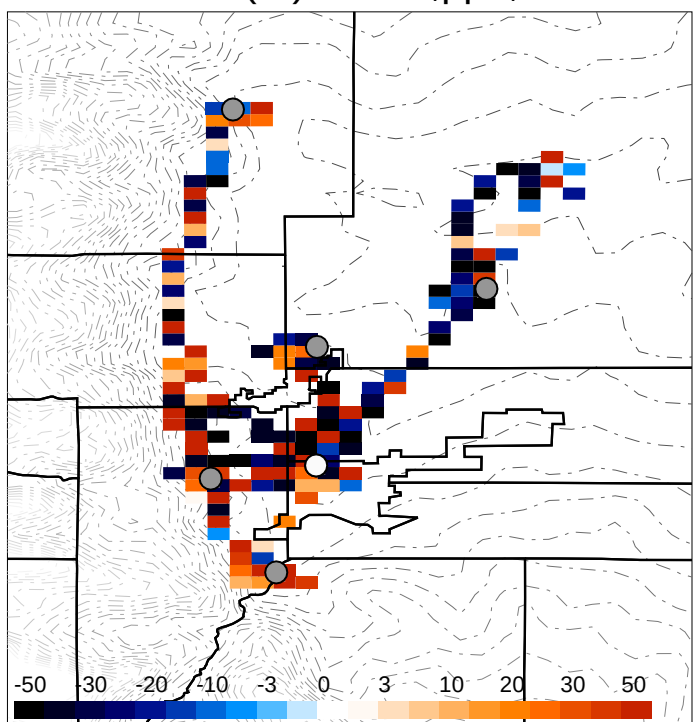
Ethane_TILDAS,ppbv < 3 km



Model C2H6,ppb, < 3 km



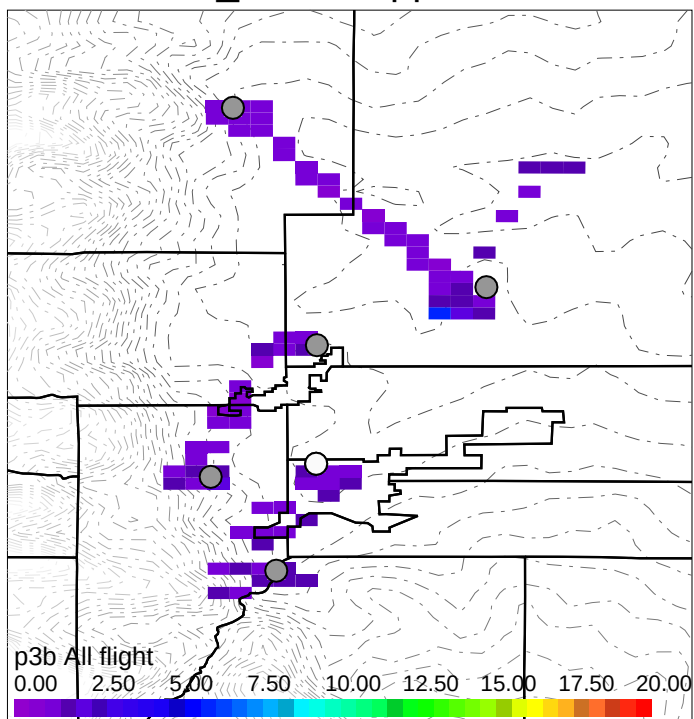
Model-Obs(%) C2H6,ppb, < 3 km



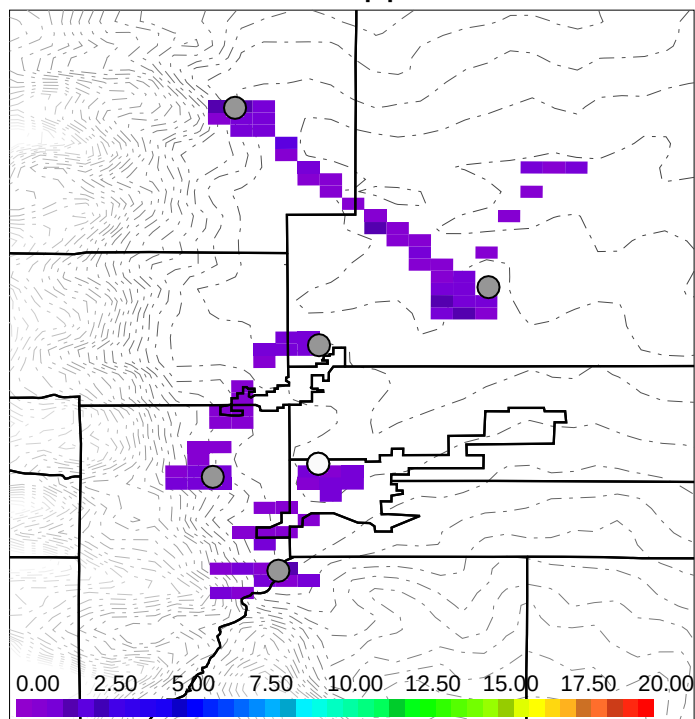
BTXv2ECMWFV4mozmozaic-

Ravan-

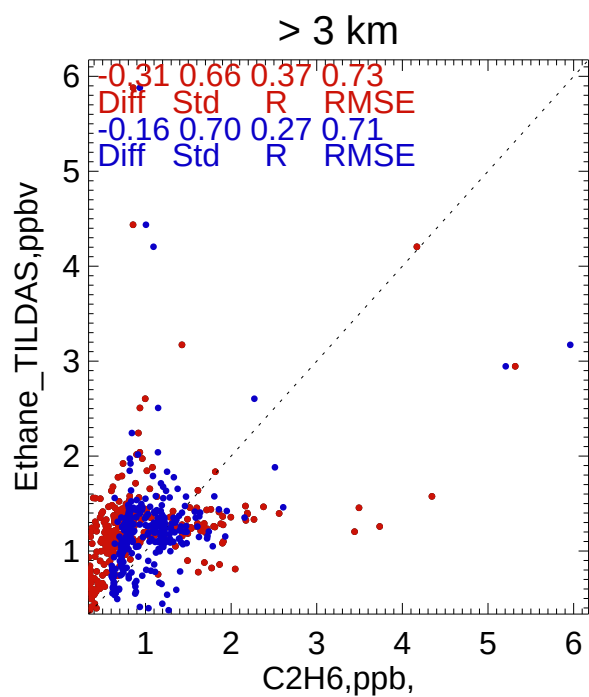
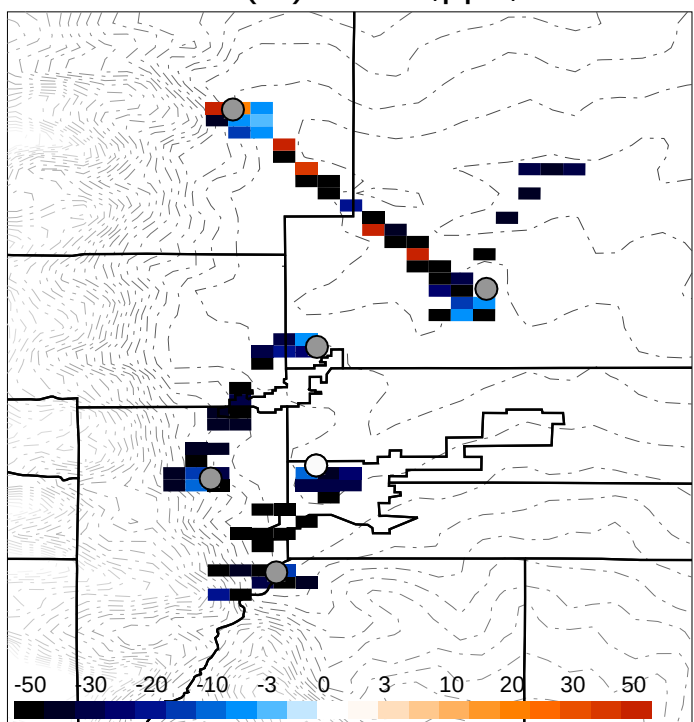
Ethane_TILDAS,ppbv > 3 km



Model C2H6,ppb, > 3 km



Model-Obs(%) C2H6,ppb, > 3 km

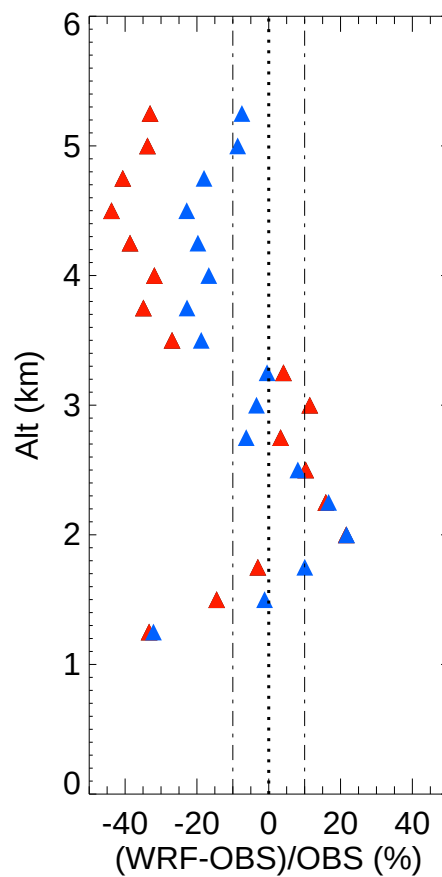
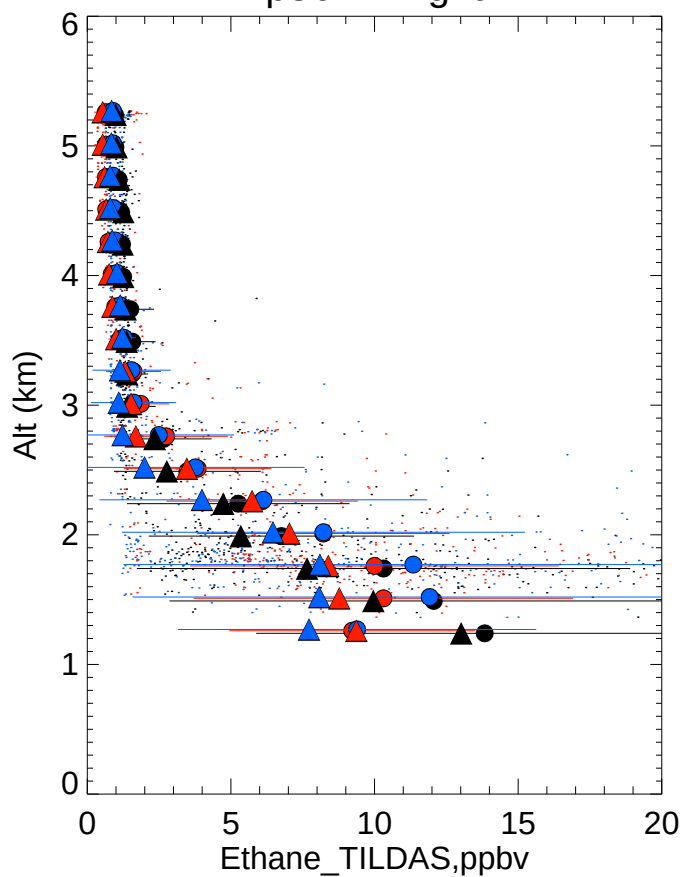
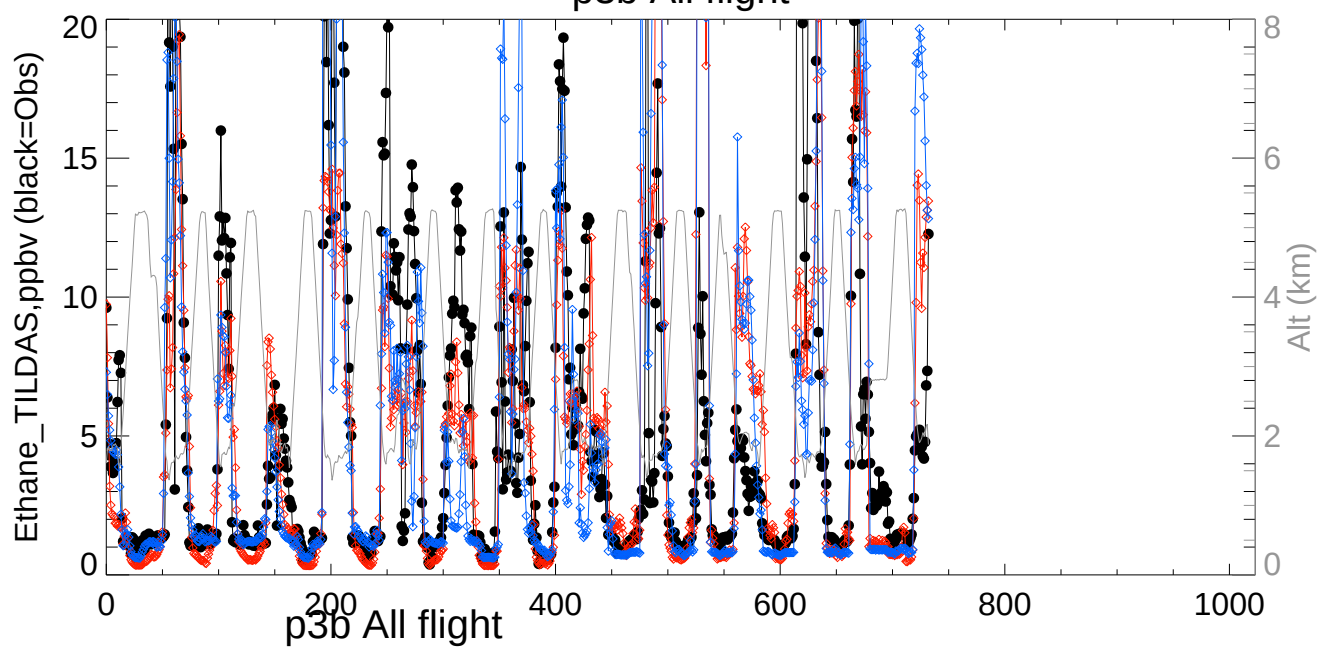


BTXv2ECMWFV4mozmozaic-

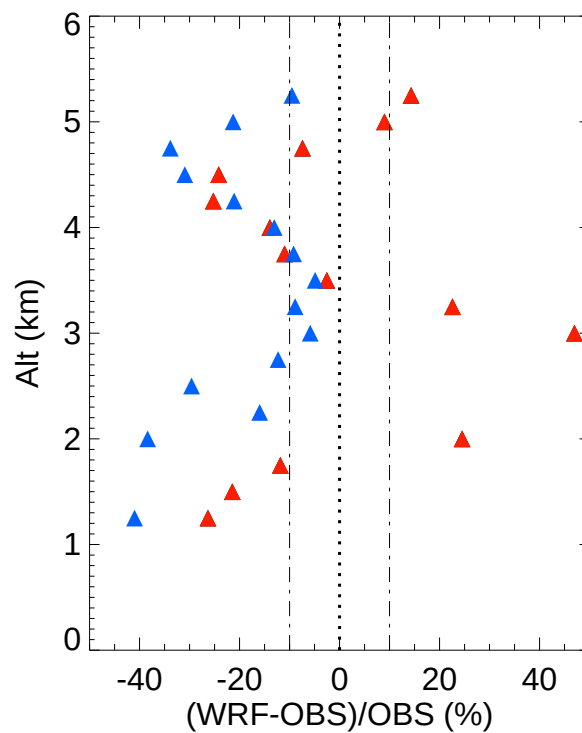
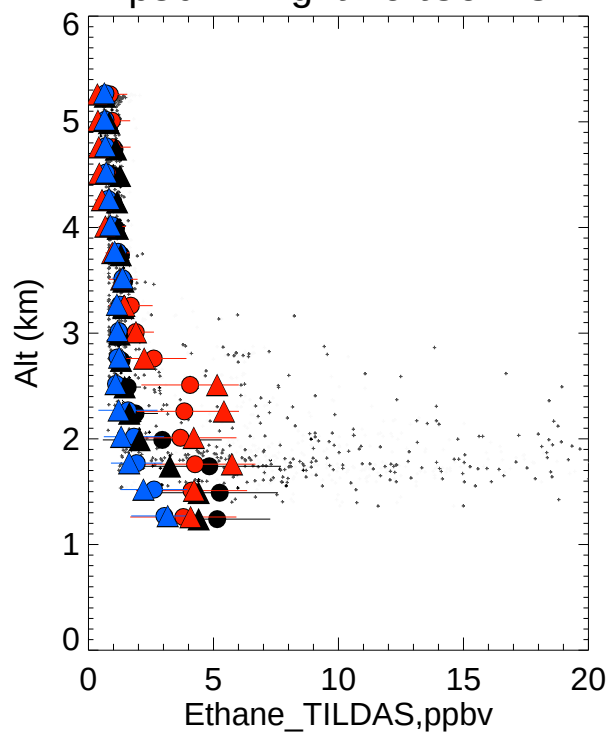
Ravan-

BTXv2ECMWFV4mozmozarRavan-

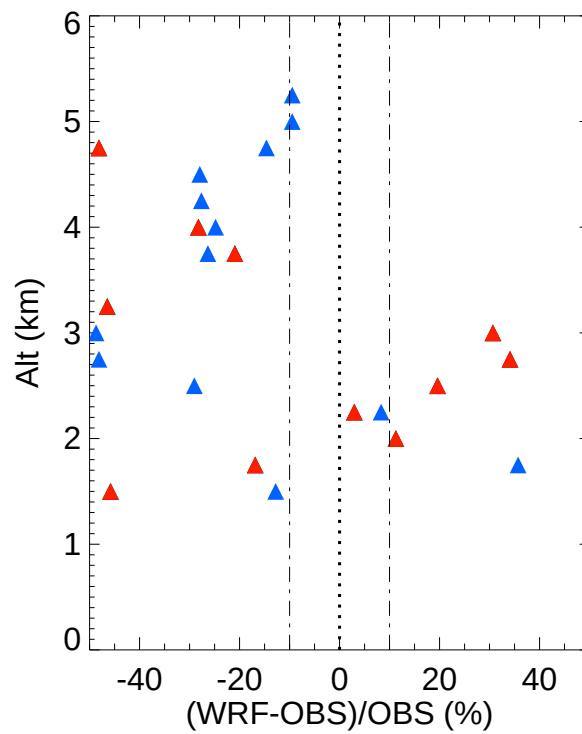
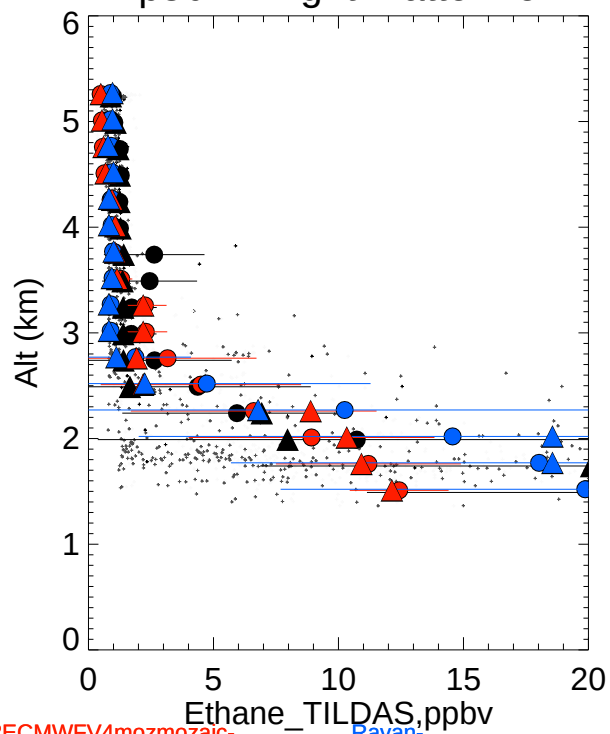
p3b All flight



p3b All flight FortCollins

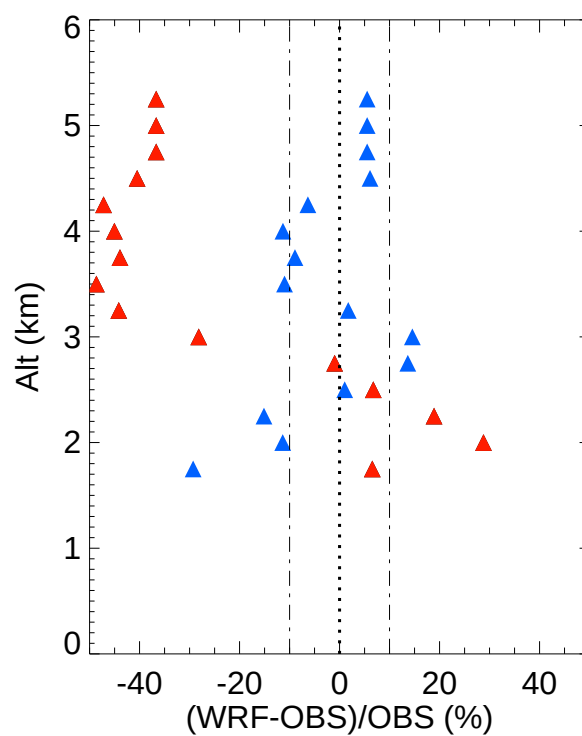
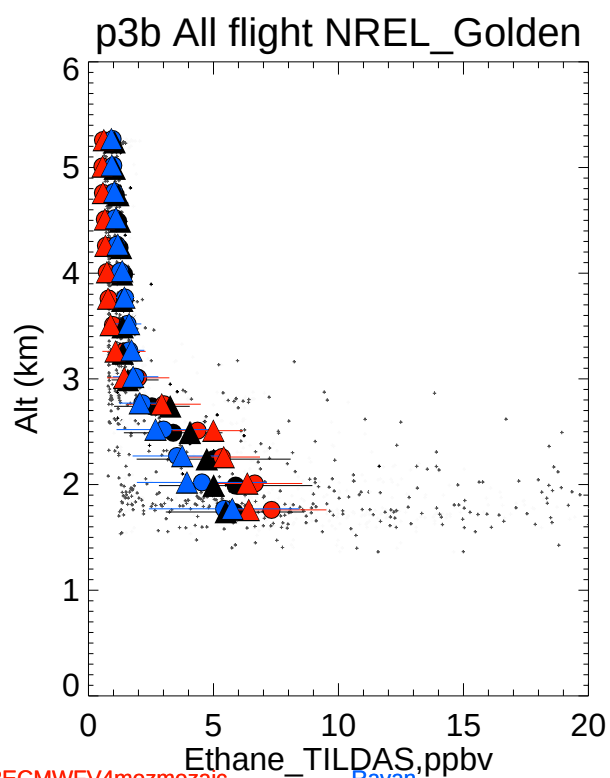
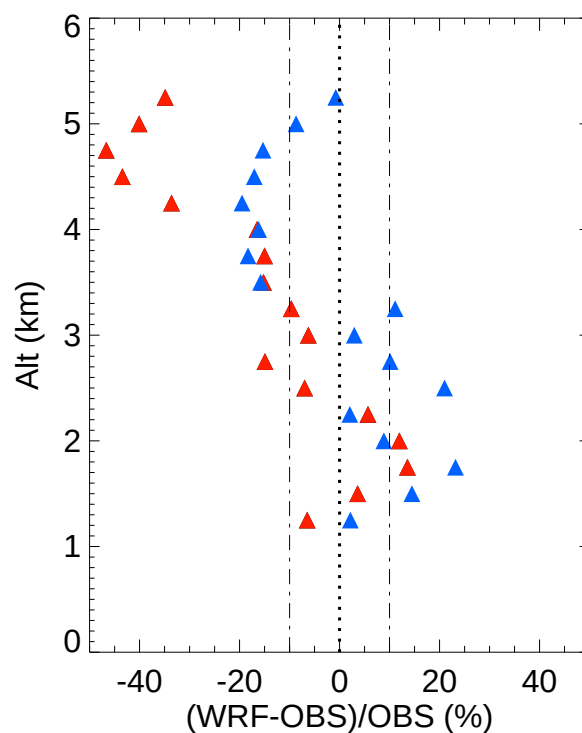
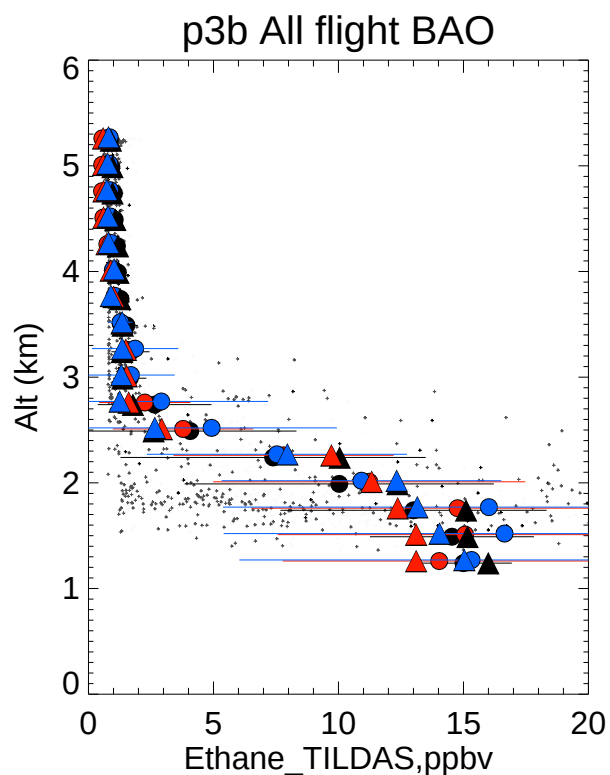


p3b All flight Platteville

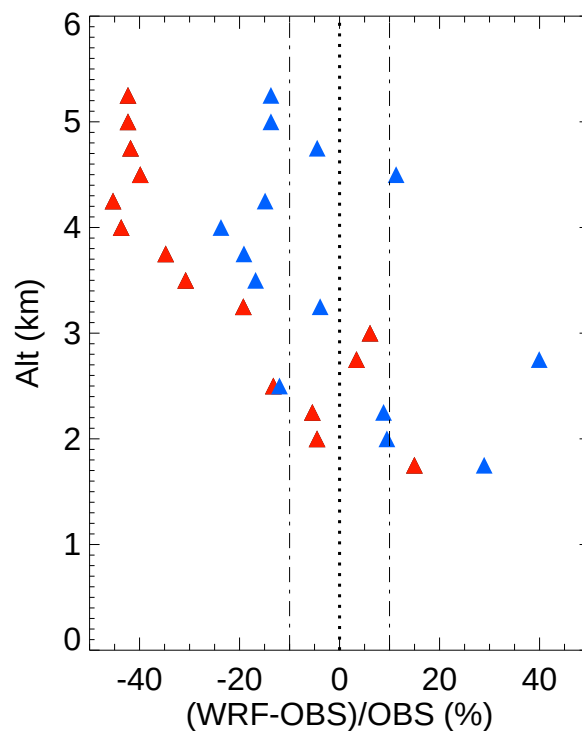
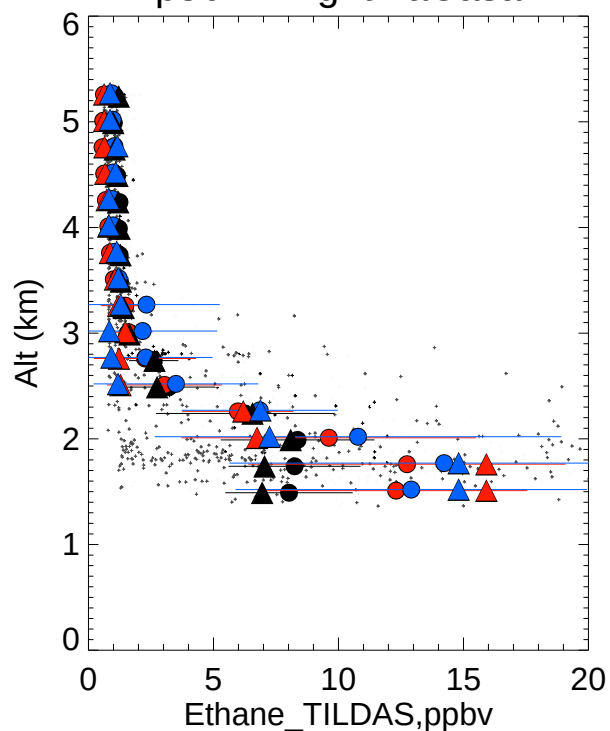


BTXv2ECMWFV4mozmozaic-

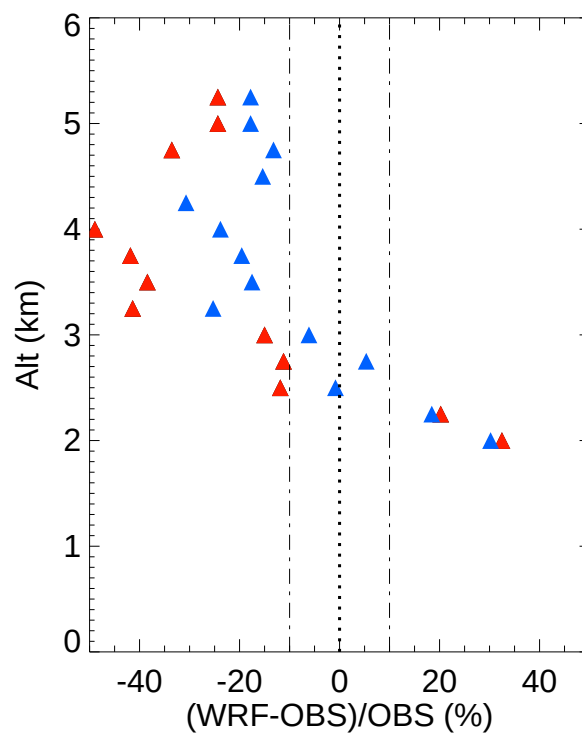
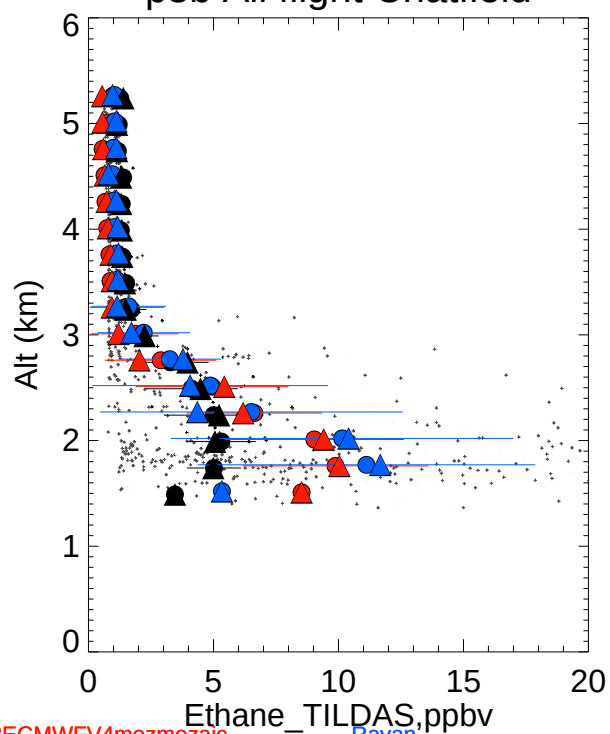
Ravan-



p3b All flight LaCasa



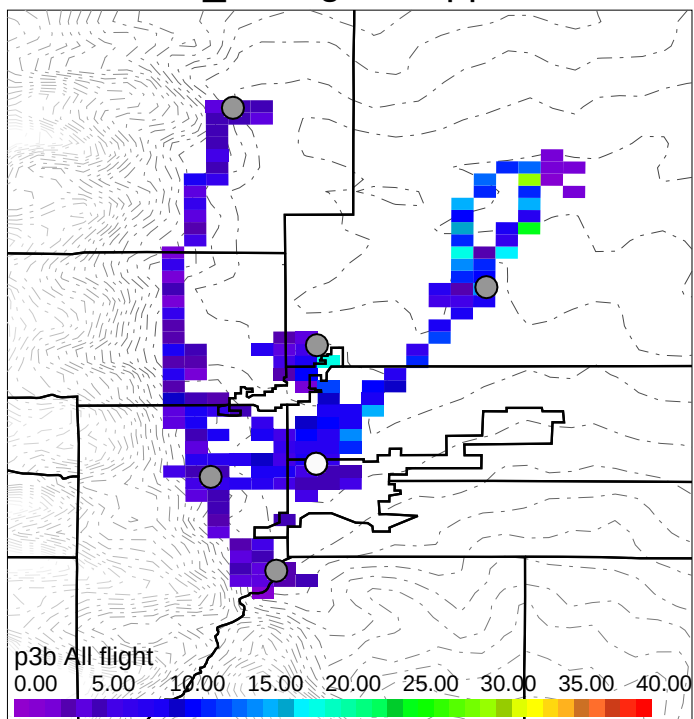
p3b All flight Chatfield



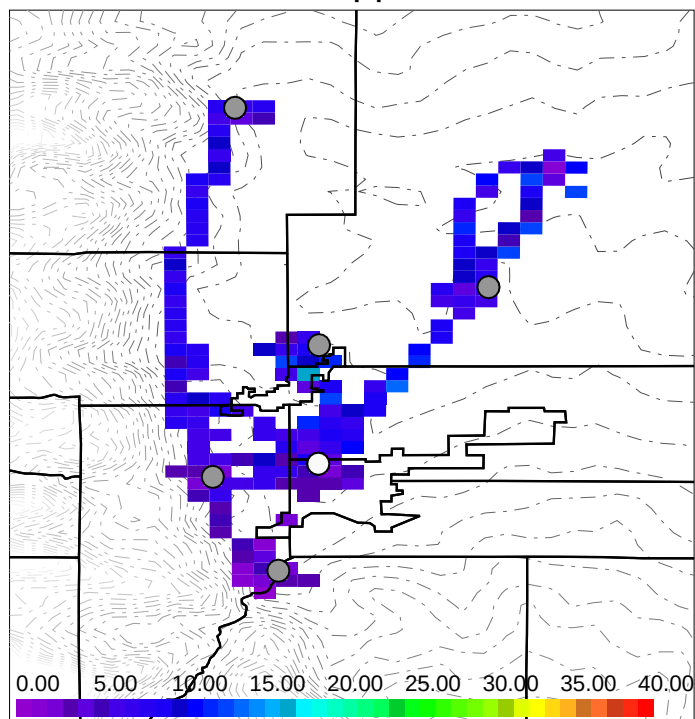
BTXv2ECMWFV4mozmozaic-

Ravan-

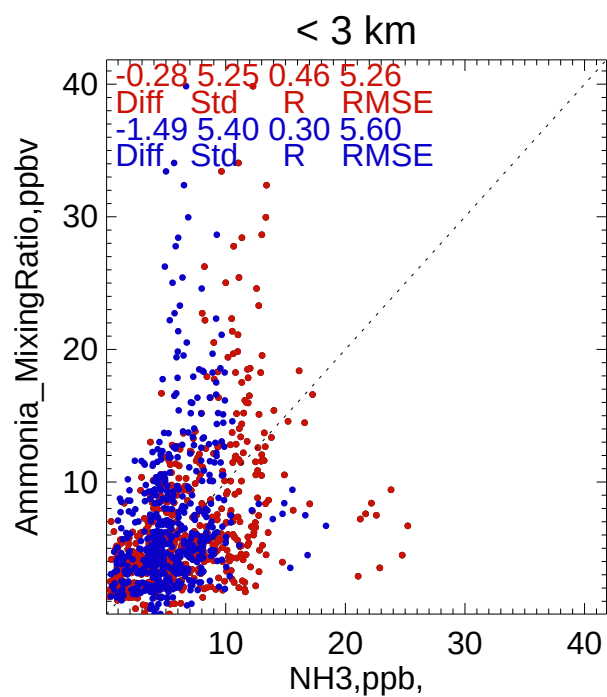
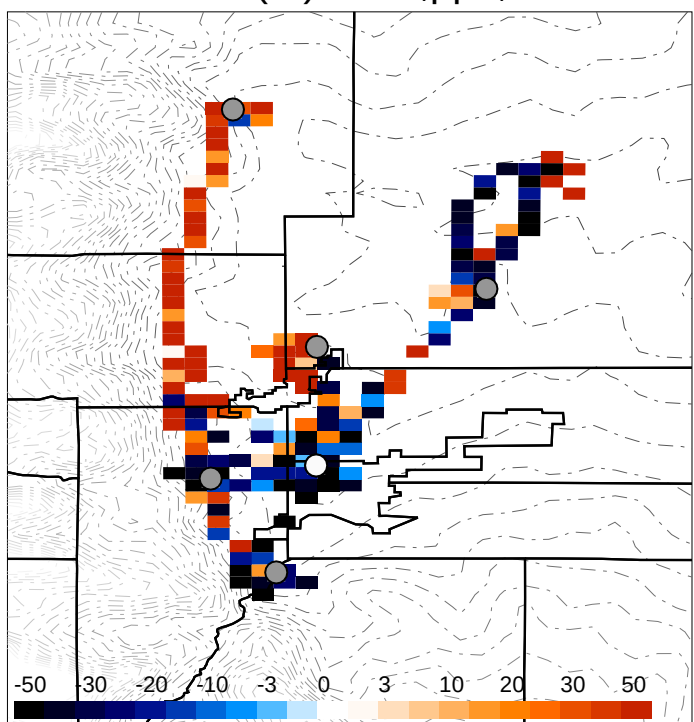
Ammonia_MixingRatio,ppbv < 3 km



Model NH3,ppb, < 3 km



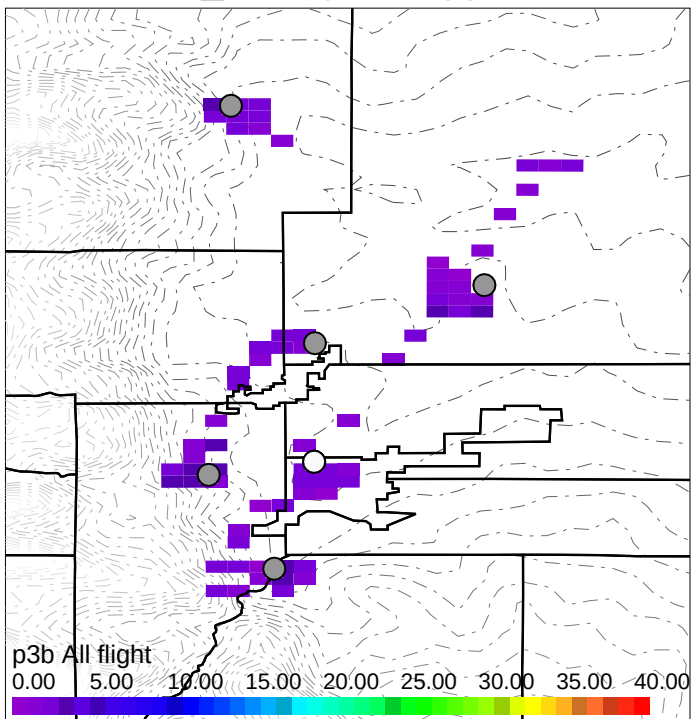
Model-Obs(%) NH3,ppb, < 3 km



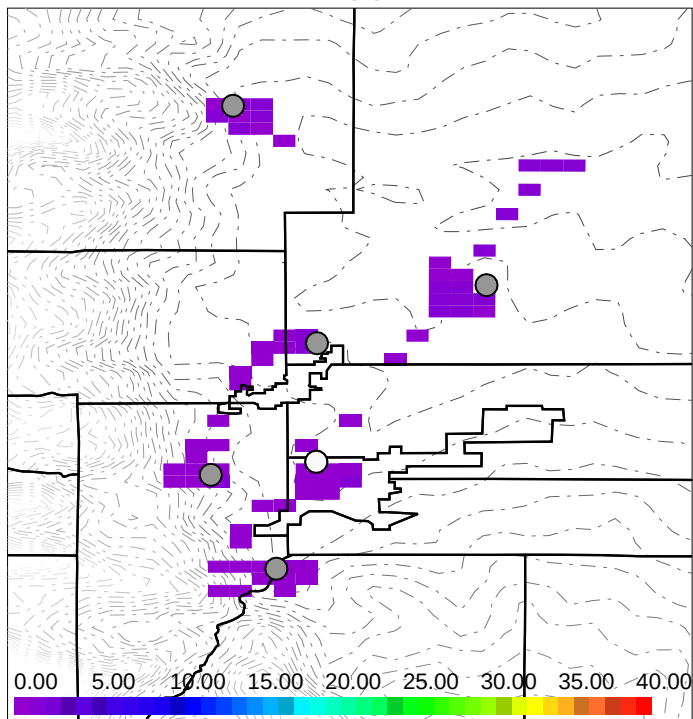
BTXv2ECMWFV4mozmozaic-

Ravan-

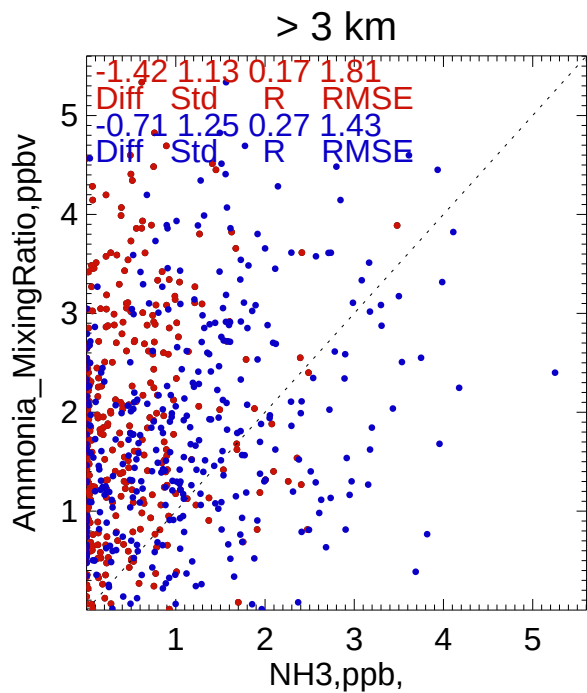
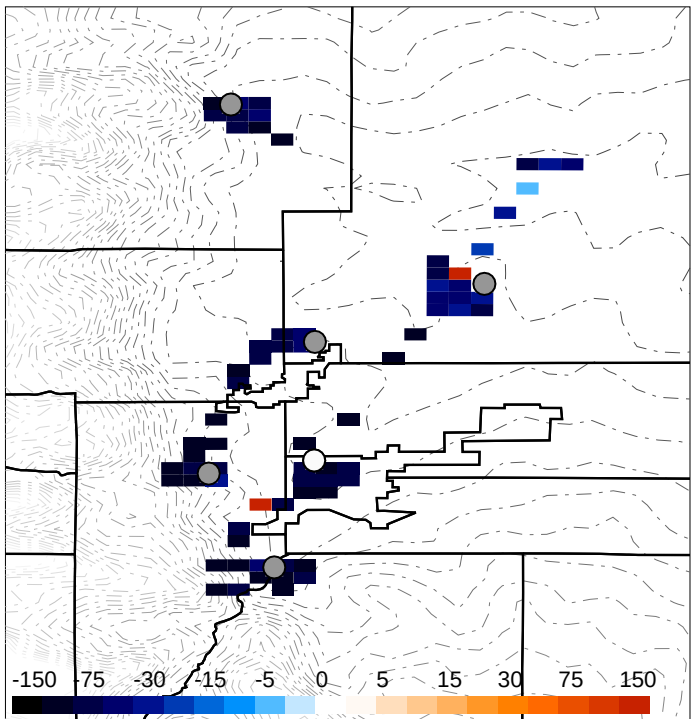
Ammonia_MixingRatio,ppbv > 3 km



Model NH3,ppb, > 3 km



Model-Obs(%) NH3,ppb, > 3 km

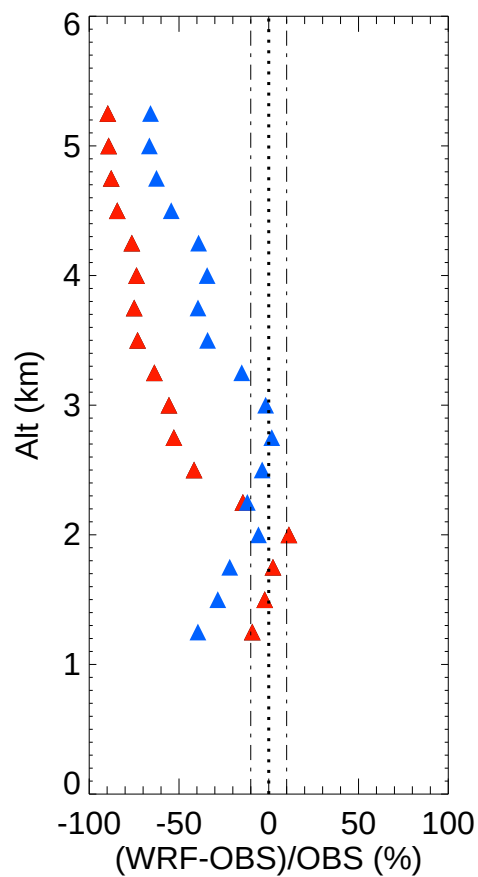
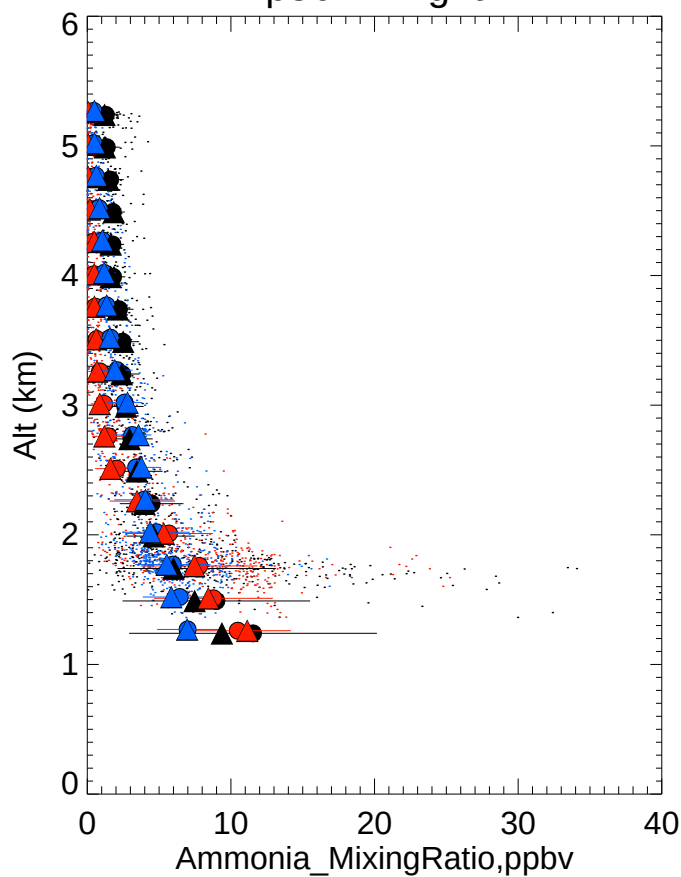
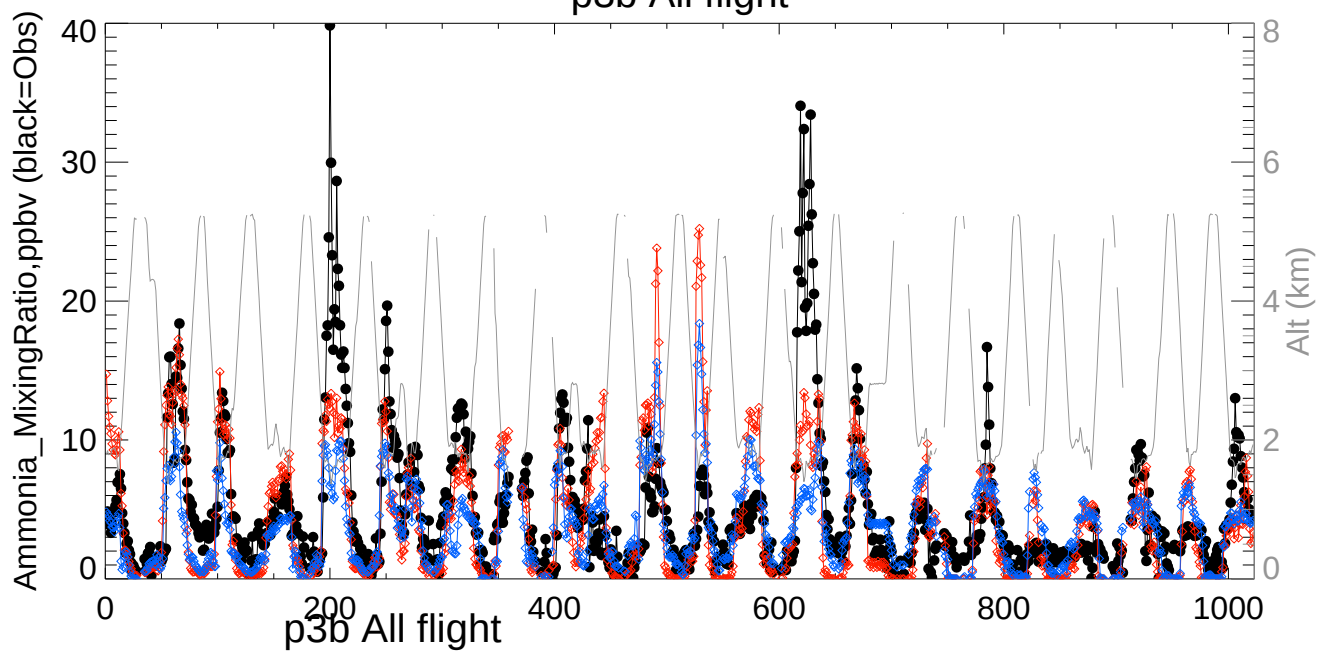


BTXv2ECMWFV4mozmozaic-

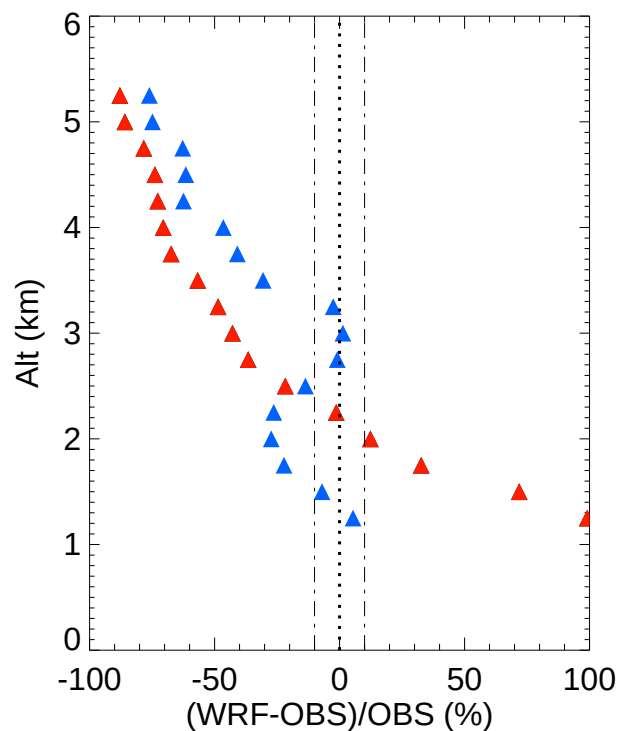
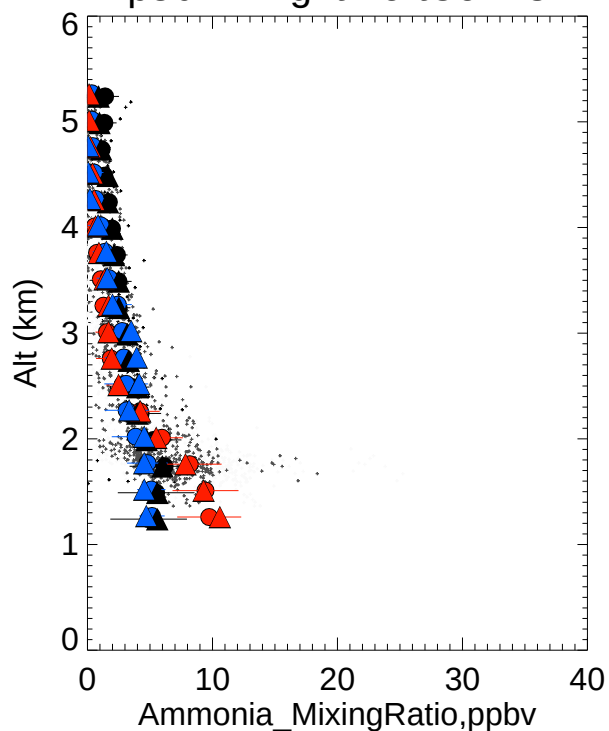
Ravan-

BTXv2ECMWFV4mozmozaravan-

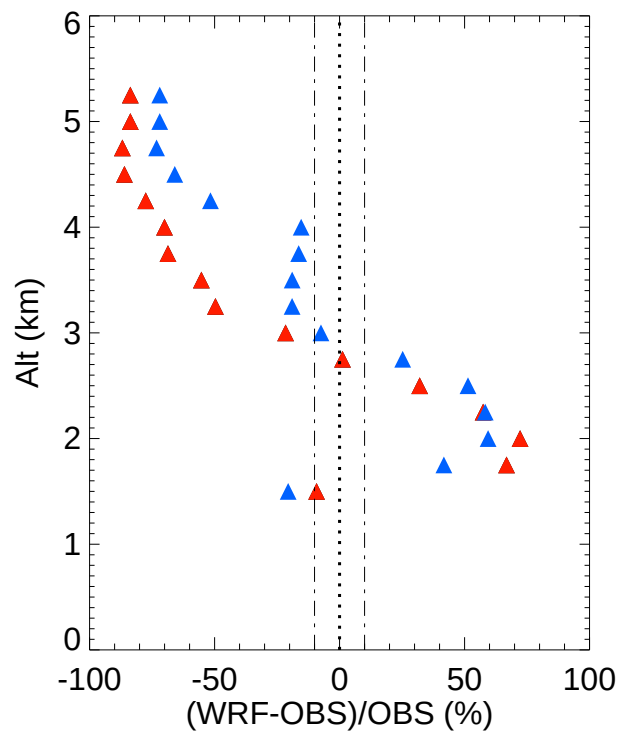
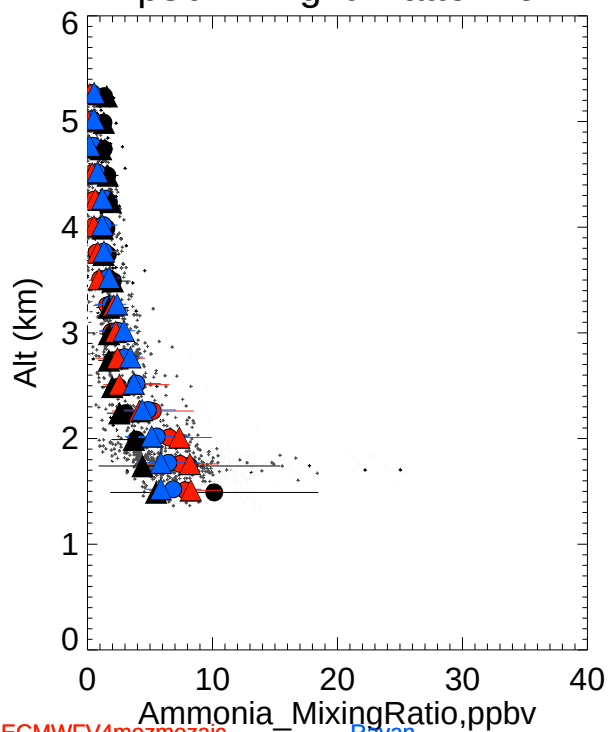
p3b All flight

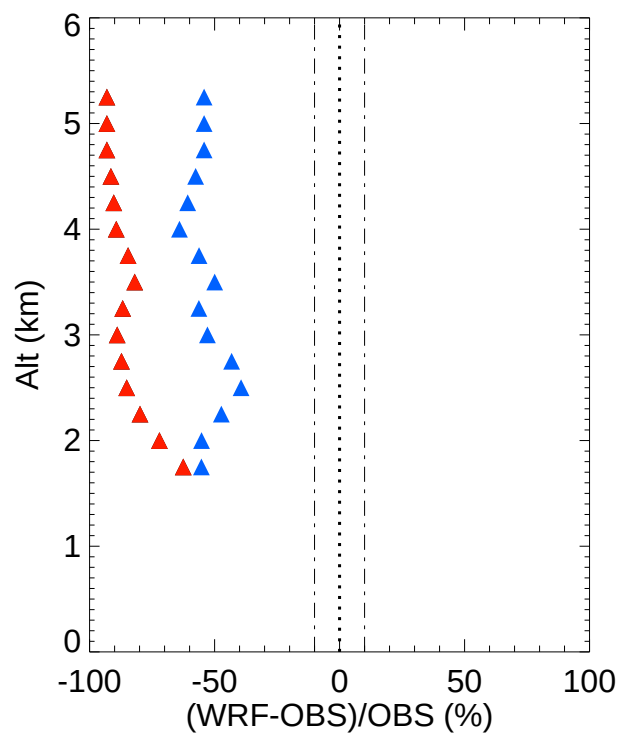
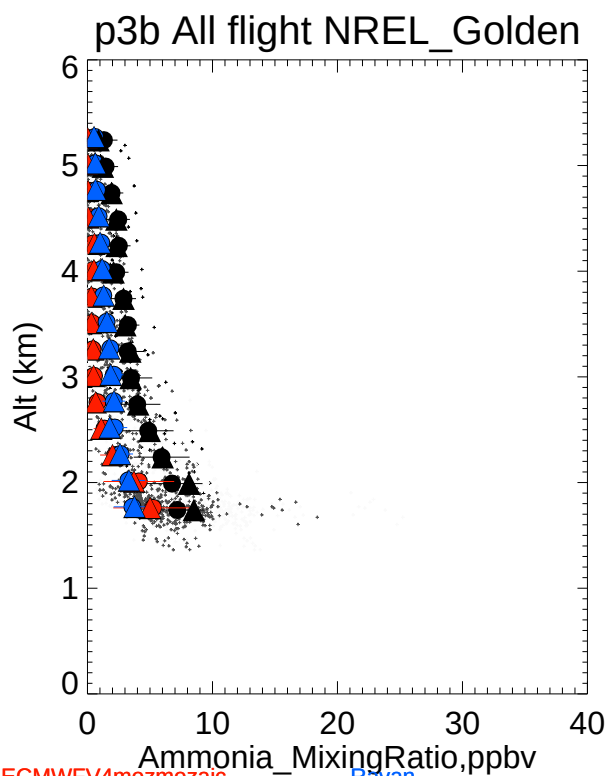
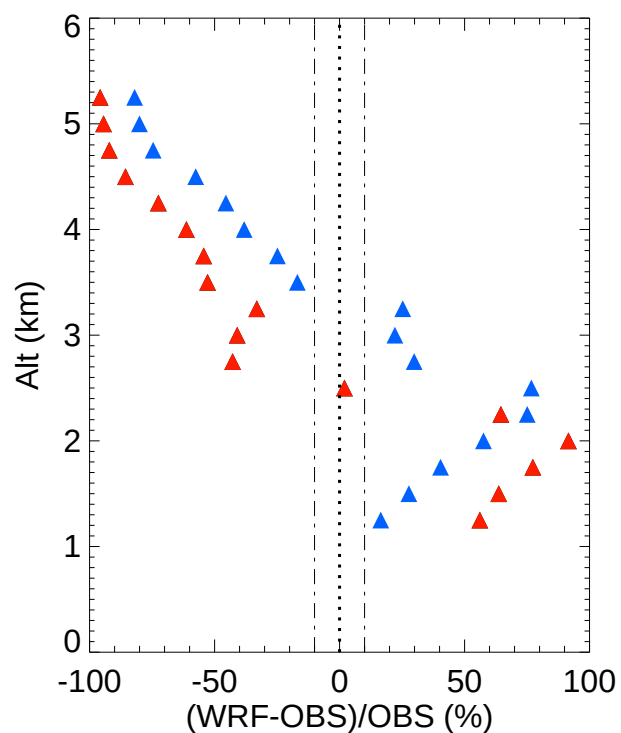
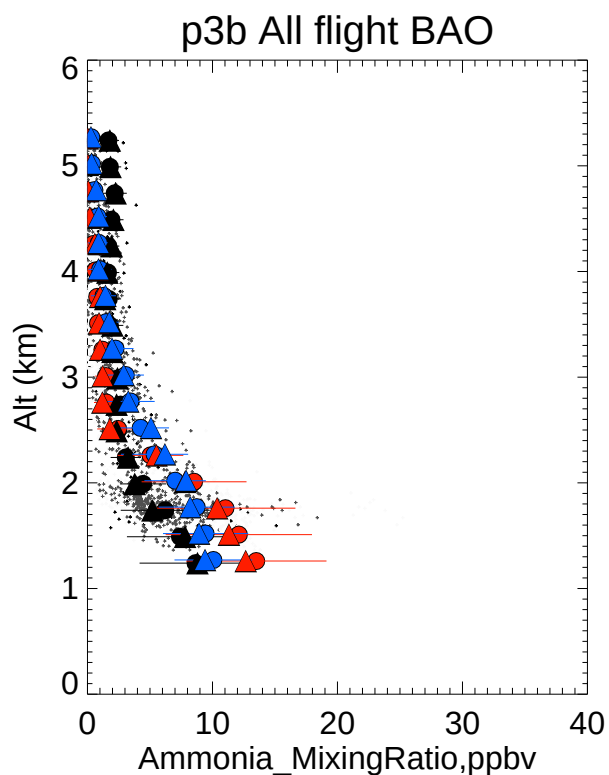


p3b All flight FortCollins

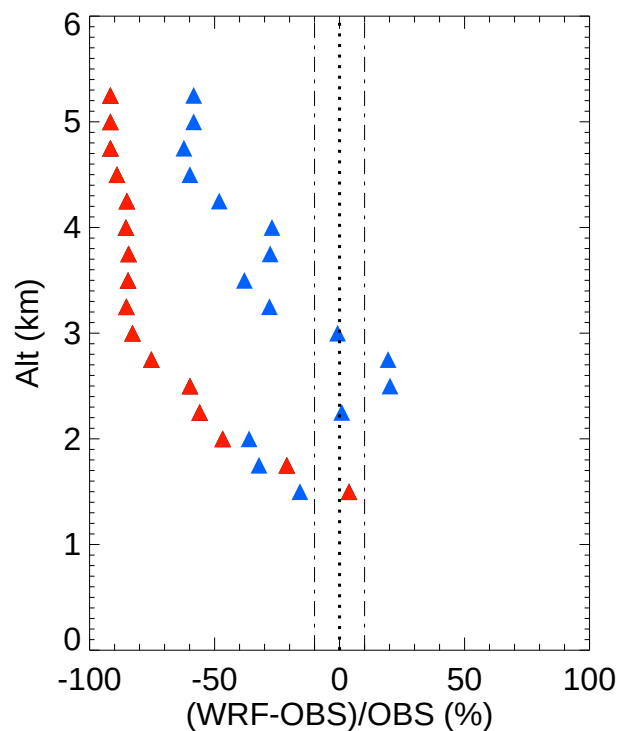
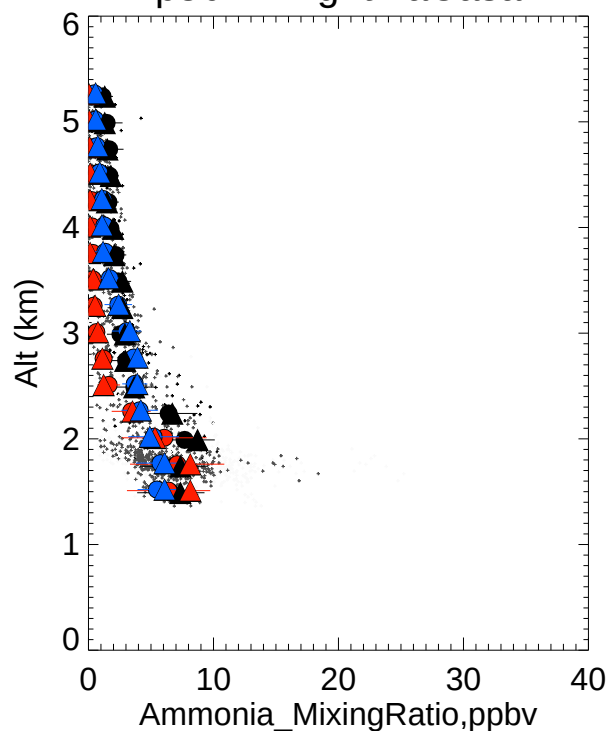


p3b All flight Platteville

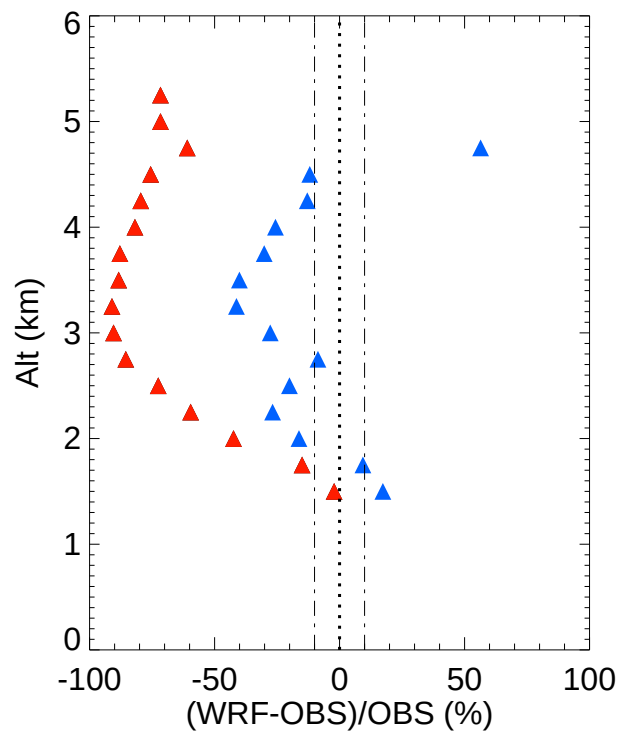
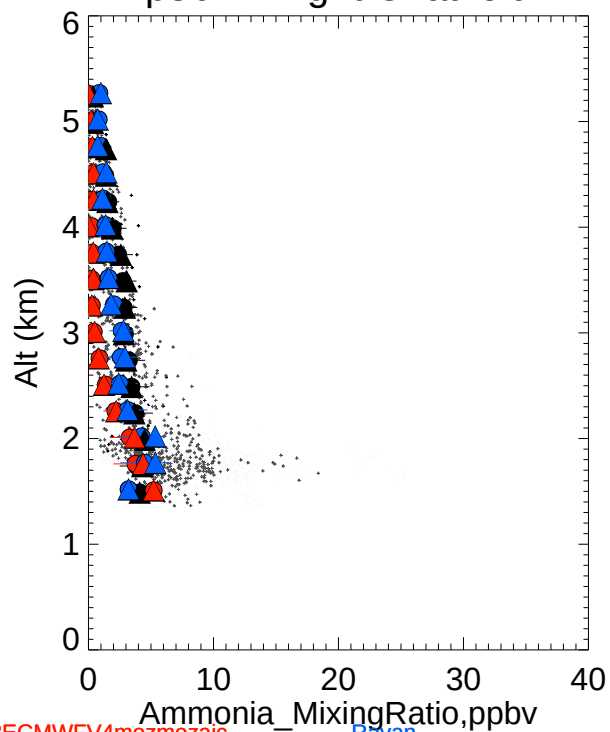




p3b All flight LaCasa



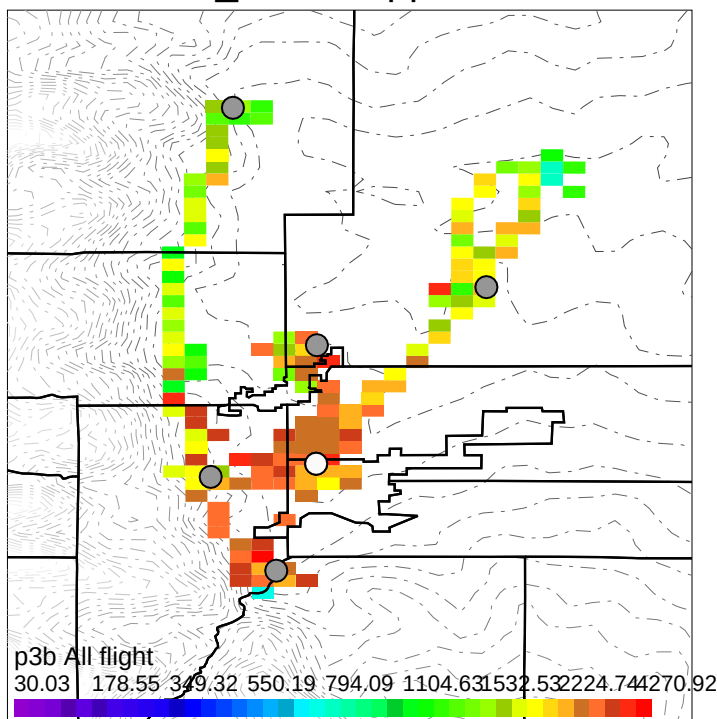
p3b All flight Chatfield



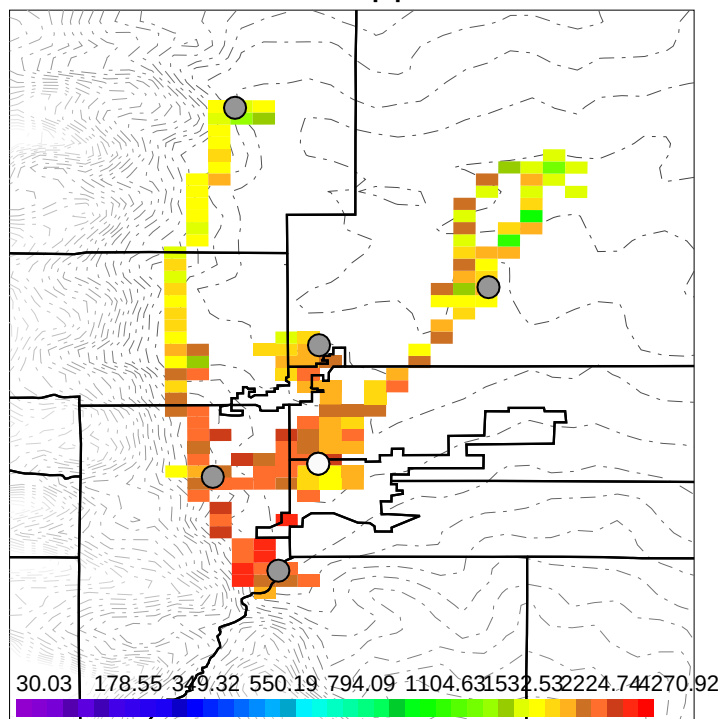
BTXv2ECMWFV4mozaic-

Ravan-

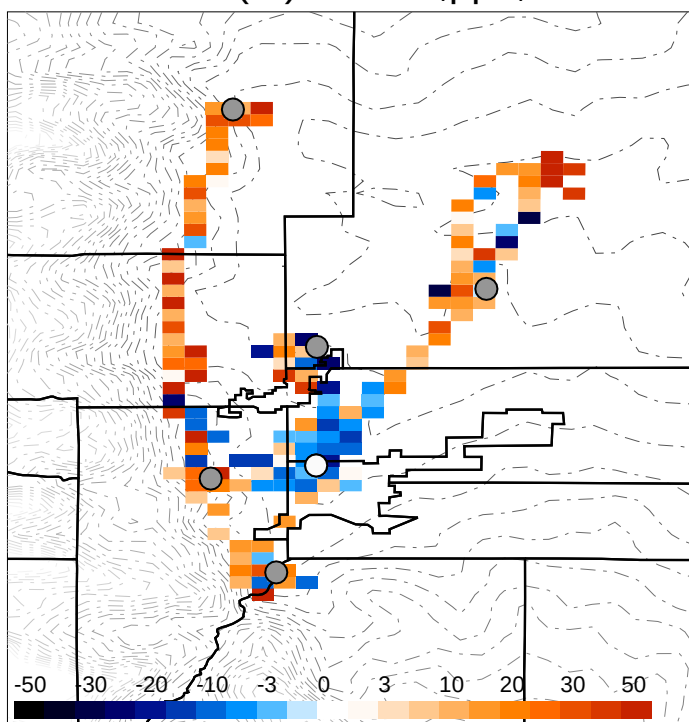
CH2O_DFGAS, pptv < 3 km



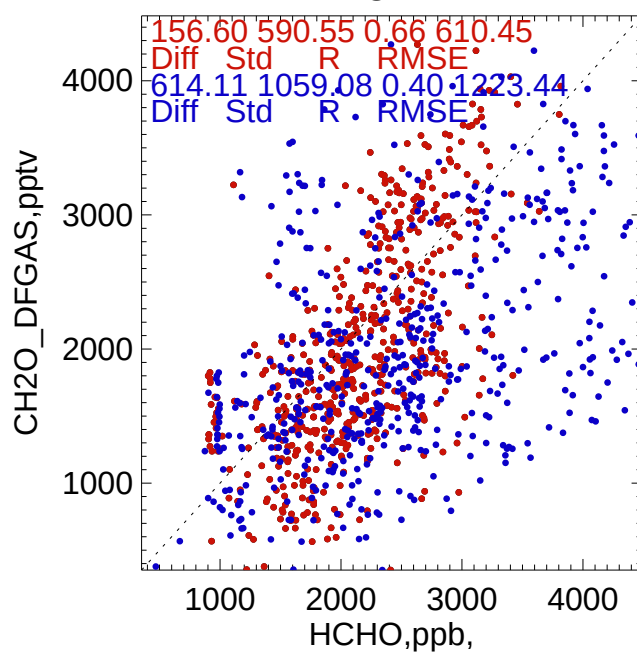
Model HCHO, ppb, < 3 km



Model-Obs(%) HCHO, ppb, < 3 km



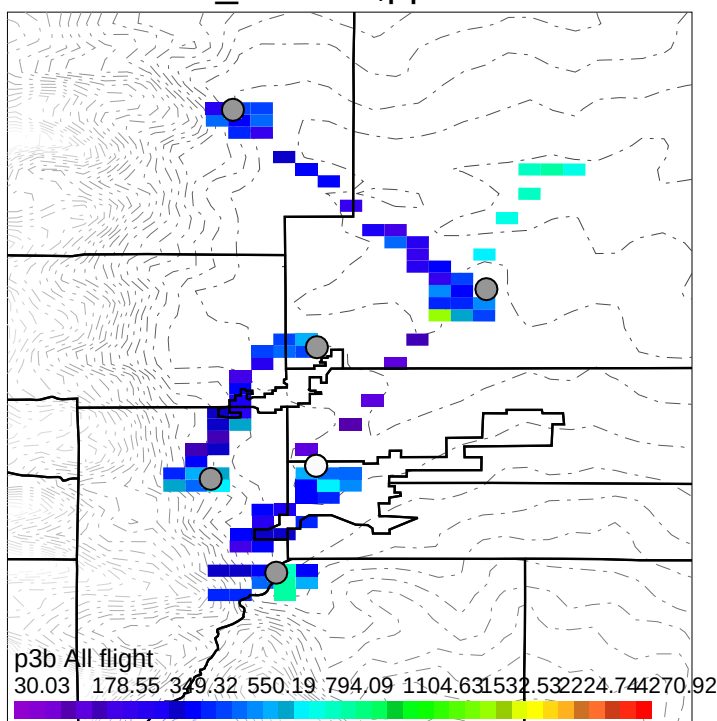
< 3 km



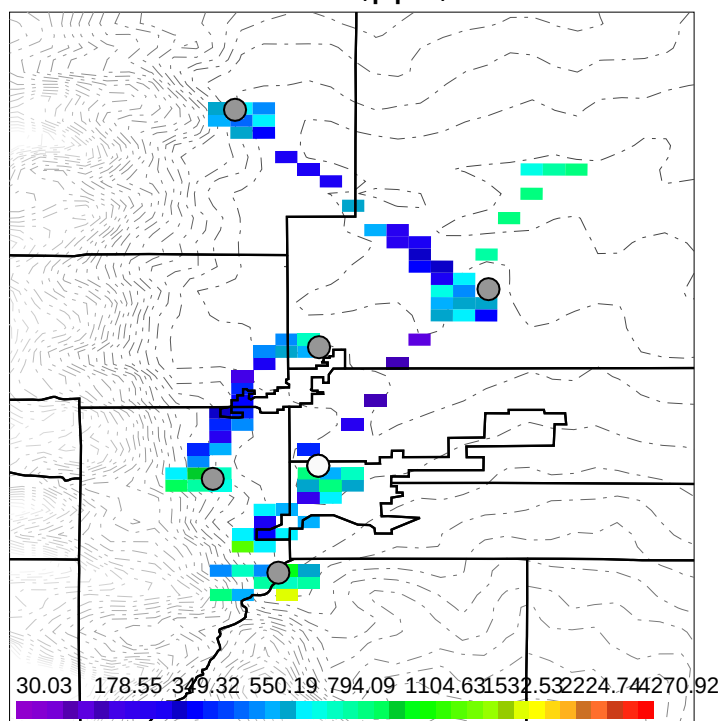
BTXv2ECMWFV4mozmozaic-

Ravan-

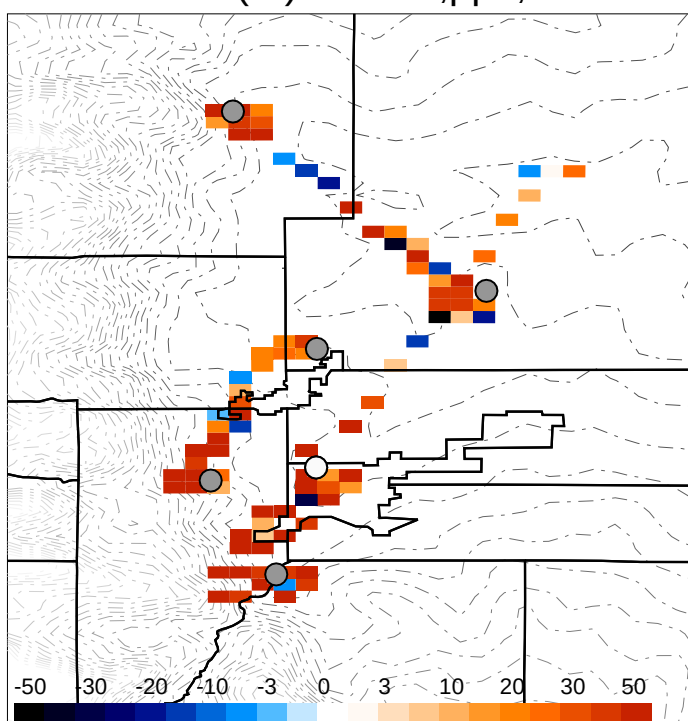
CH2O_DFGAS,pptv > 3 km



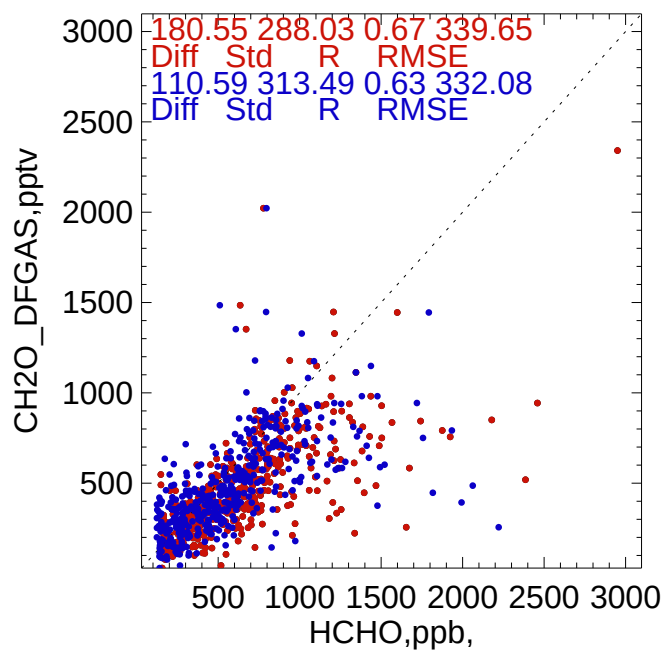
Model HCHO,ppb, > 3 km



Model-Obs(%) HCHO,ppb, > 3 km



> 3 km

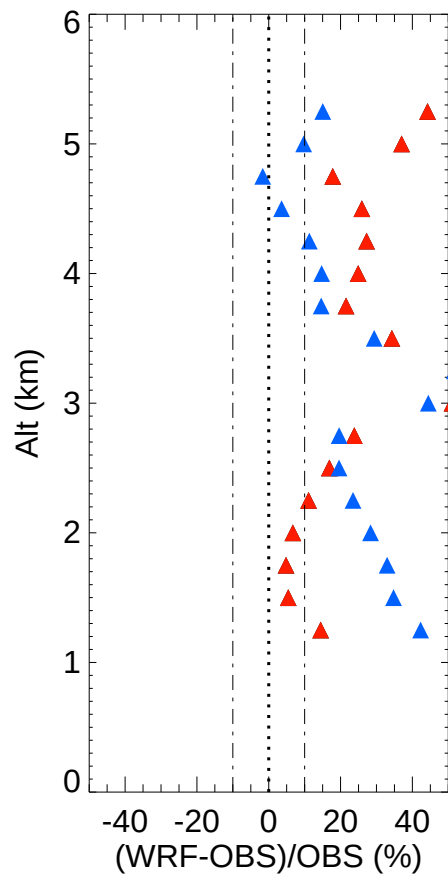
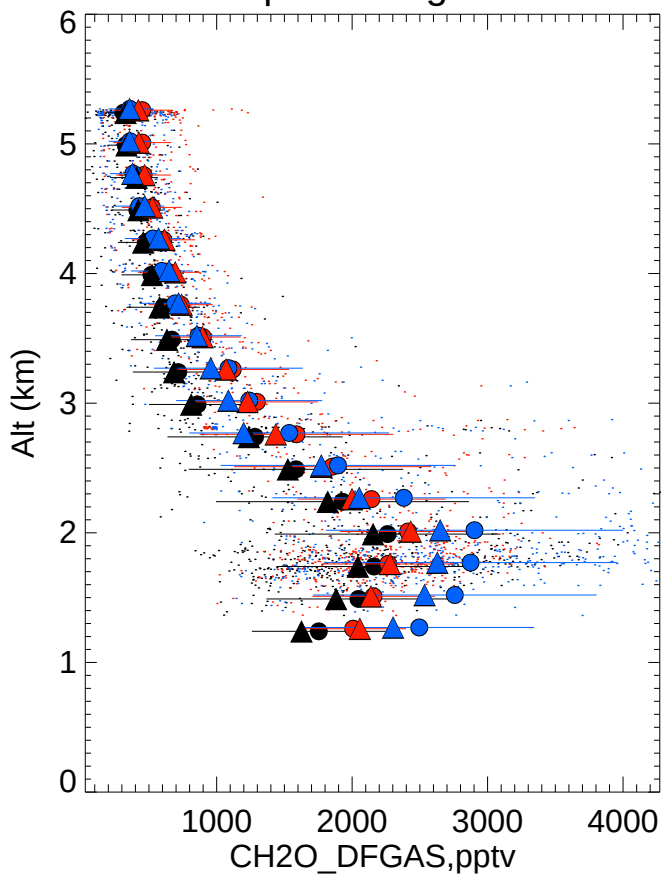
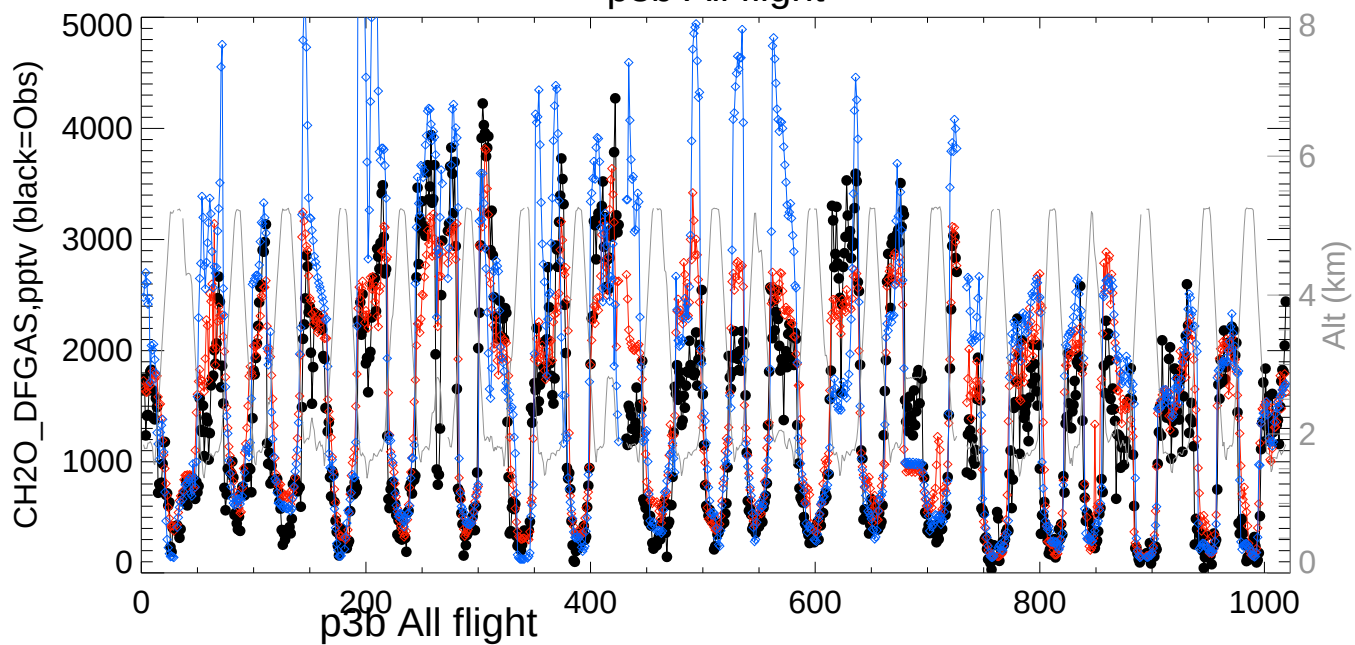


BTXv2ECMWFV4mozmozaic-

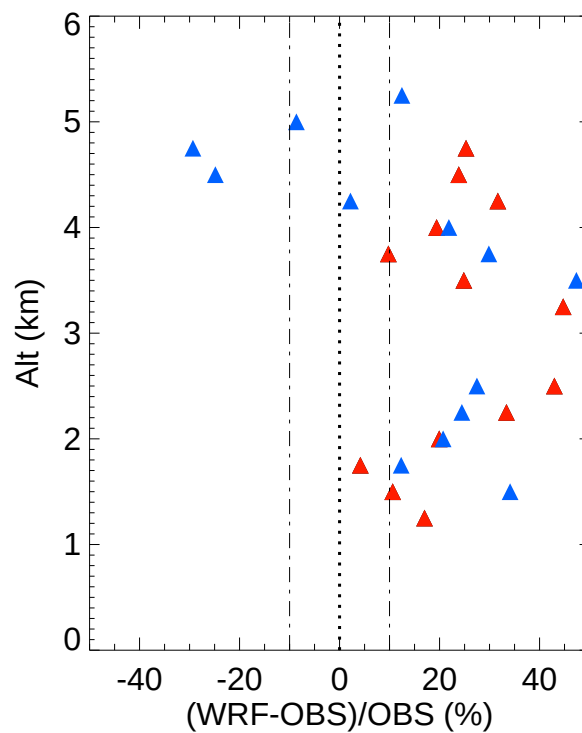
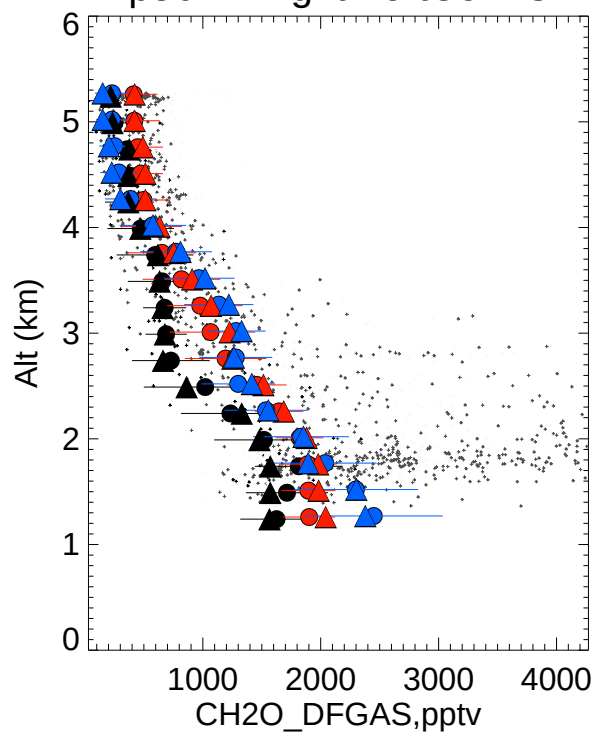
Ravan-

BTXv2ECMWFV4mozmozAravan-

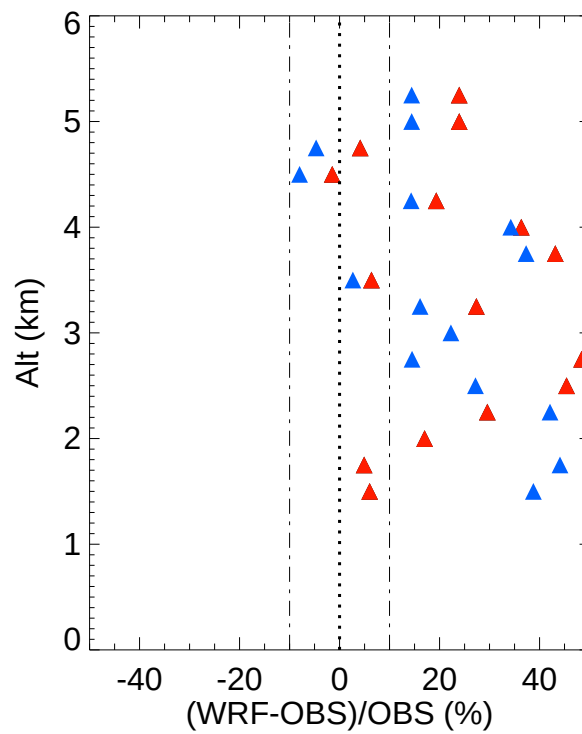
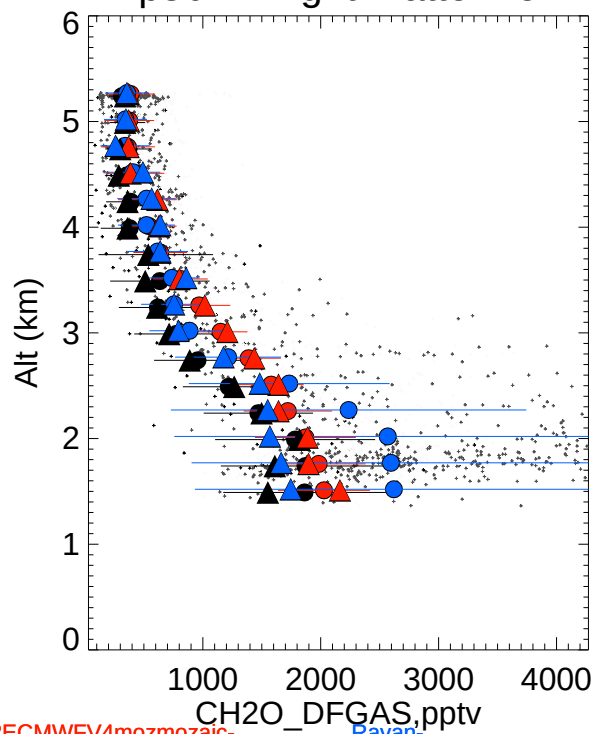
p3b All flight

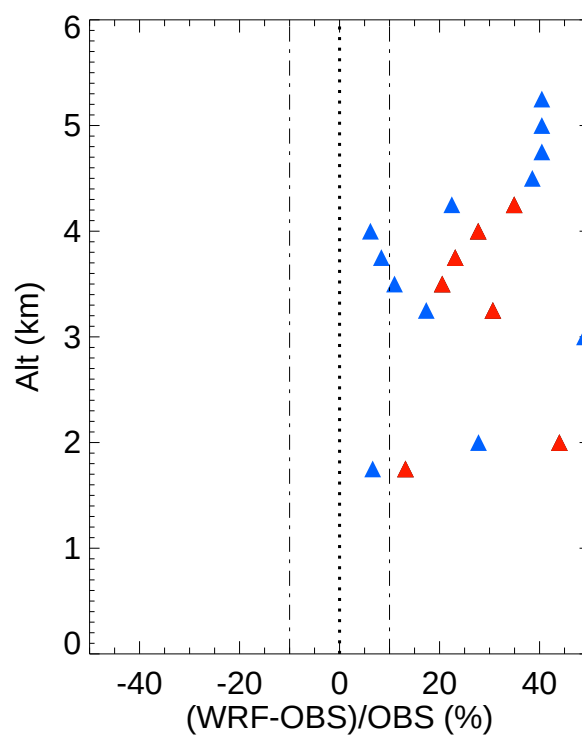
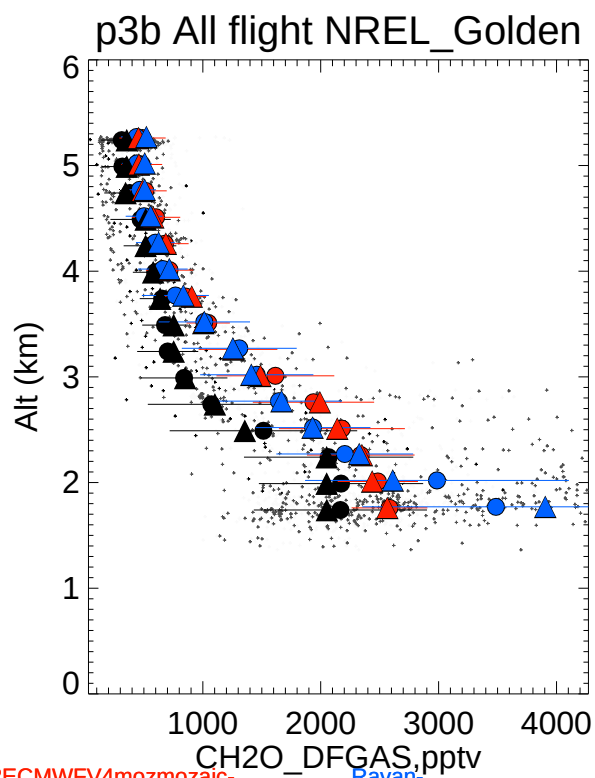
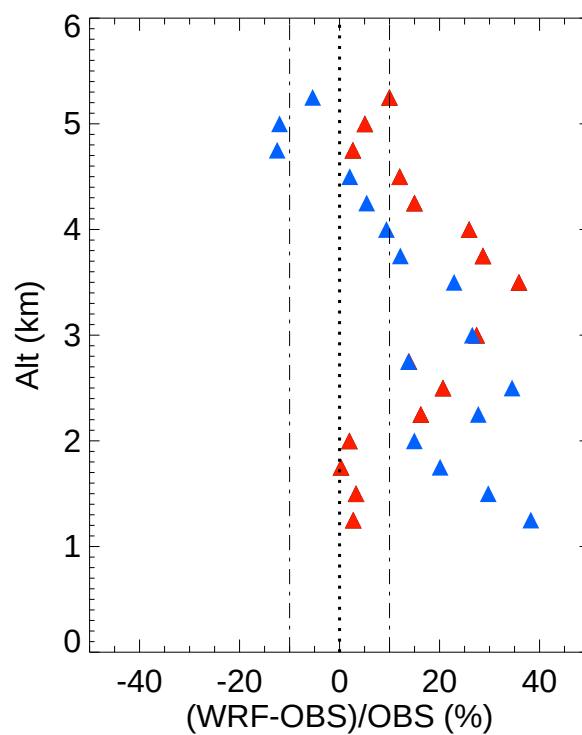
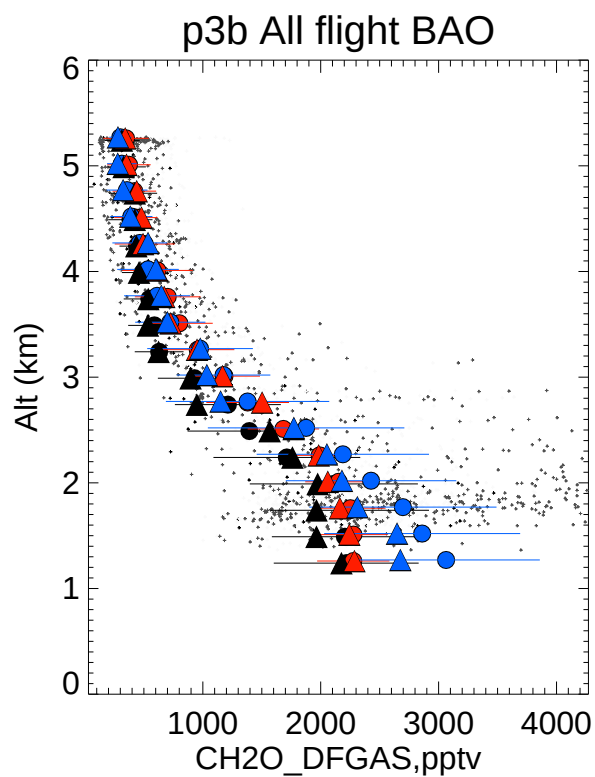


p3b All flight FortCollins

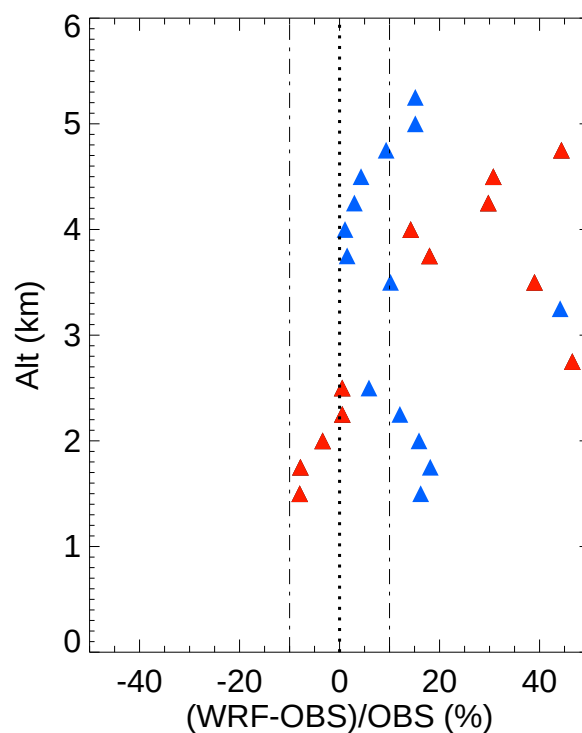
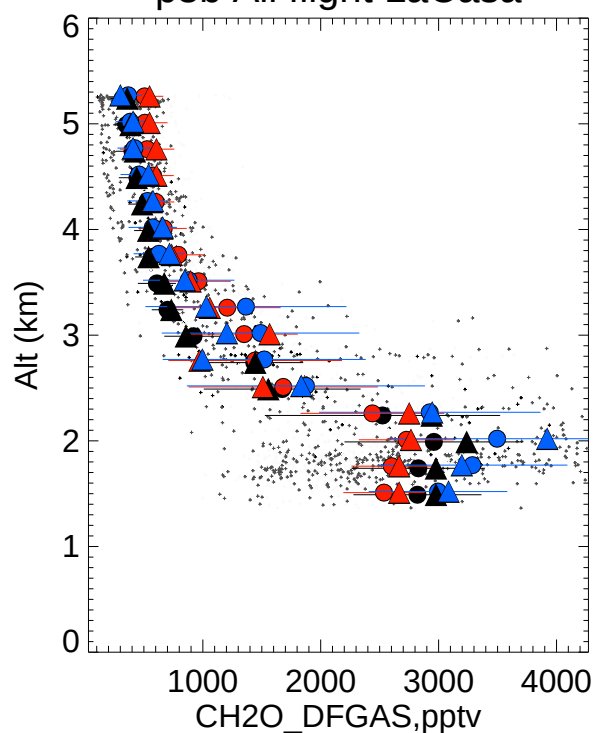


p3b All flight Platteville

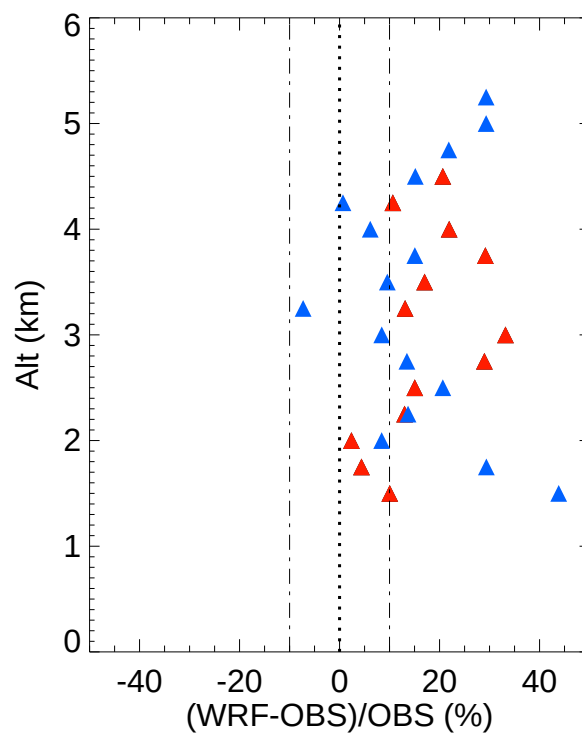
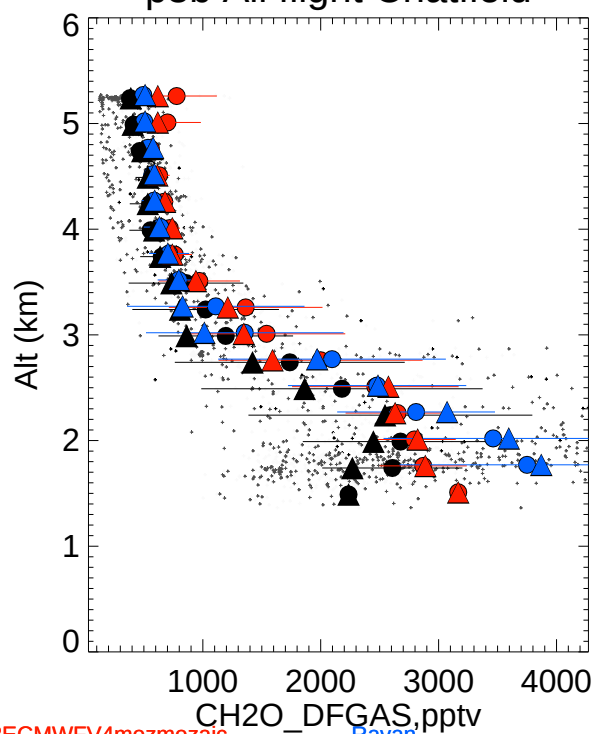




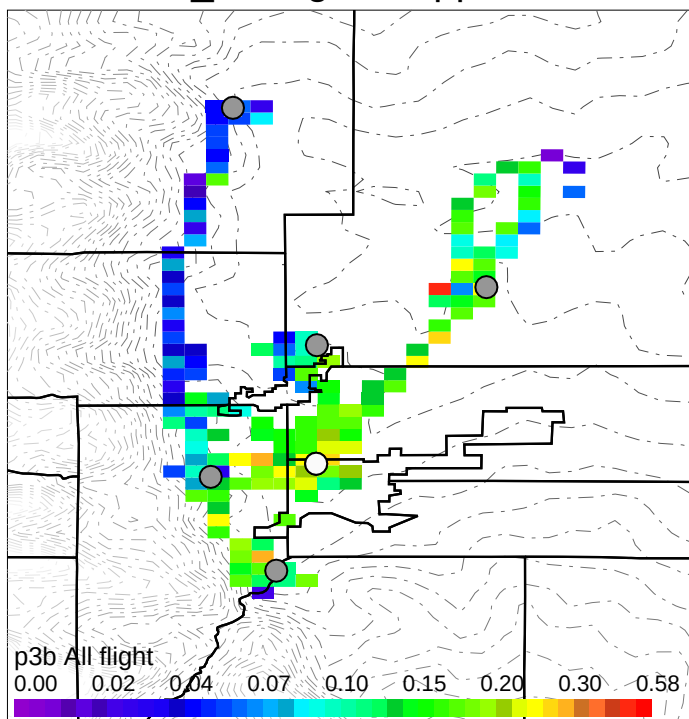
p3b All flight LaCasa



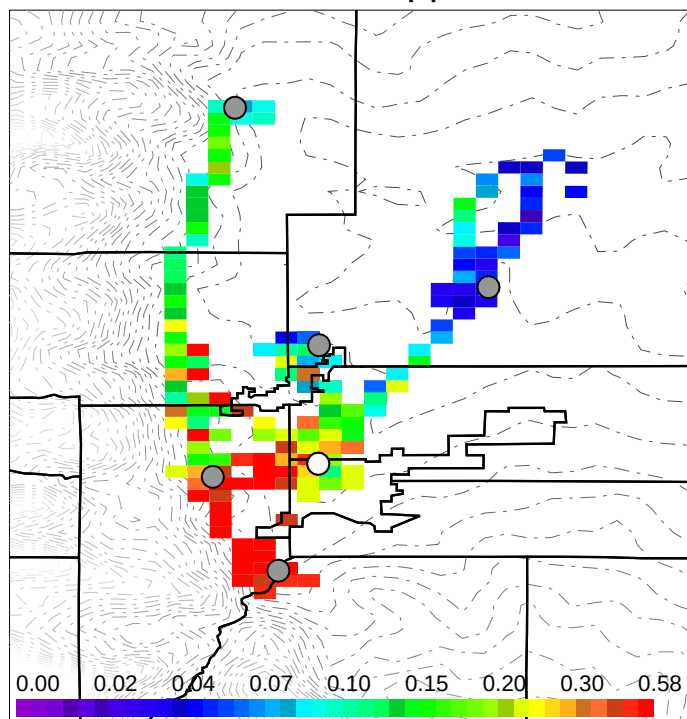
p3b All flight Chatfield



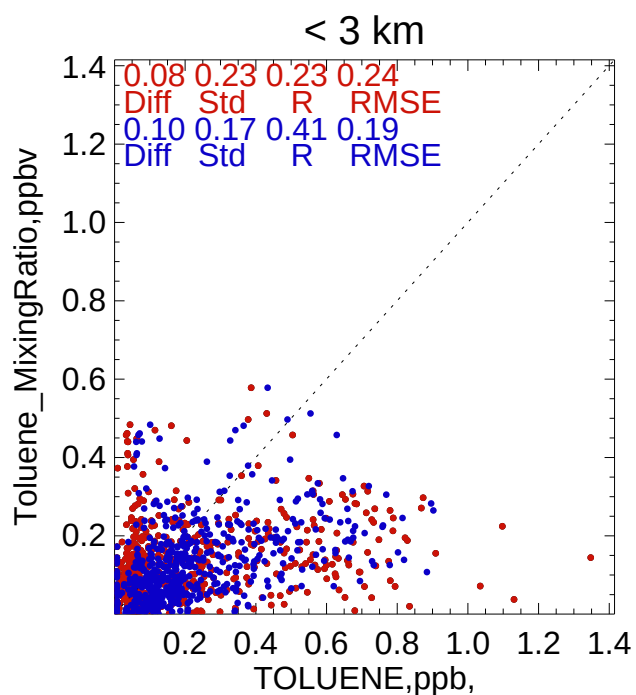
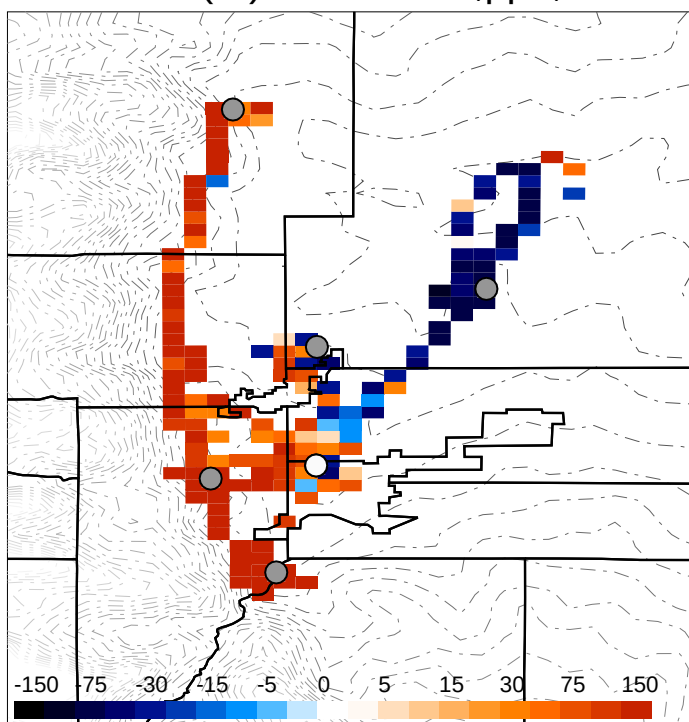
Toluene_MixingRatio,ppbv < 3 km



Model TOLUENE,ppb, < 3 km



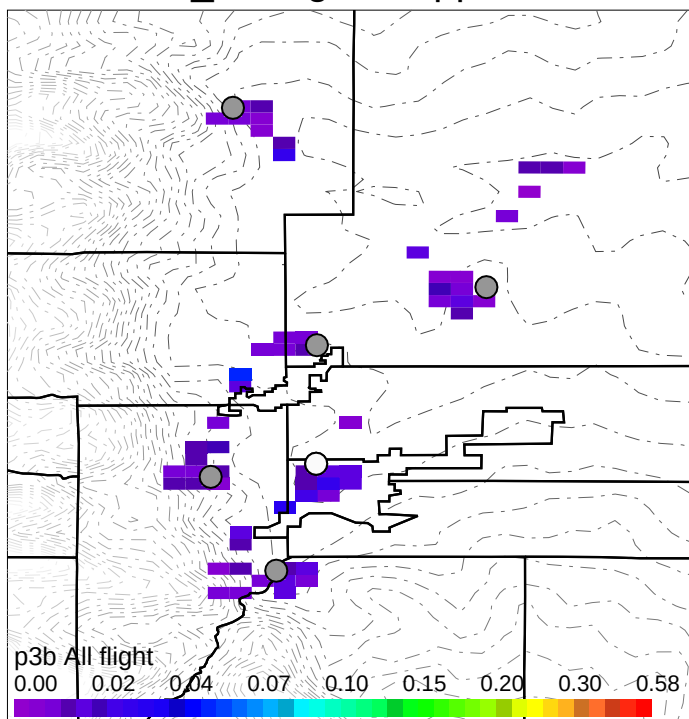
Model-Obs(%) TOLUENE,ppb, < 3 km



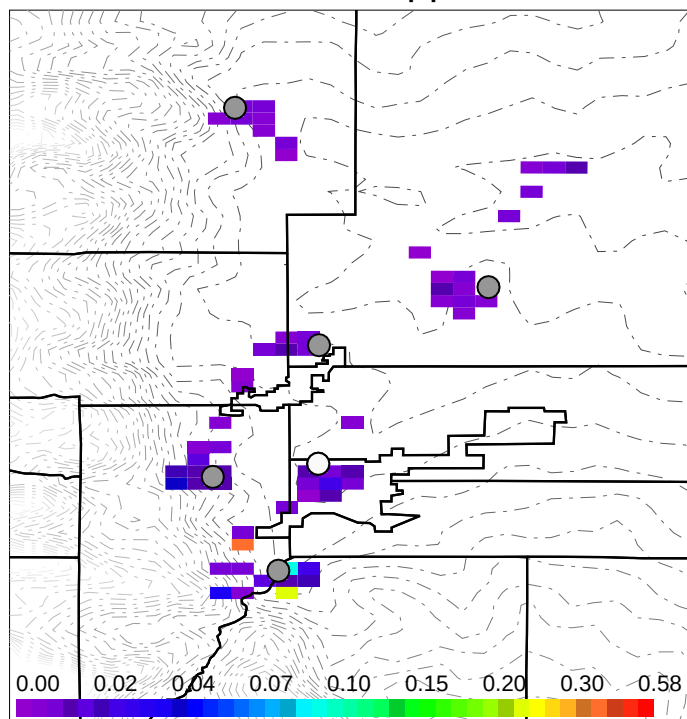
BTXv2ECMWFV4mozmozaic-

Ravan-

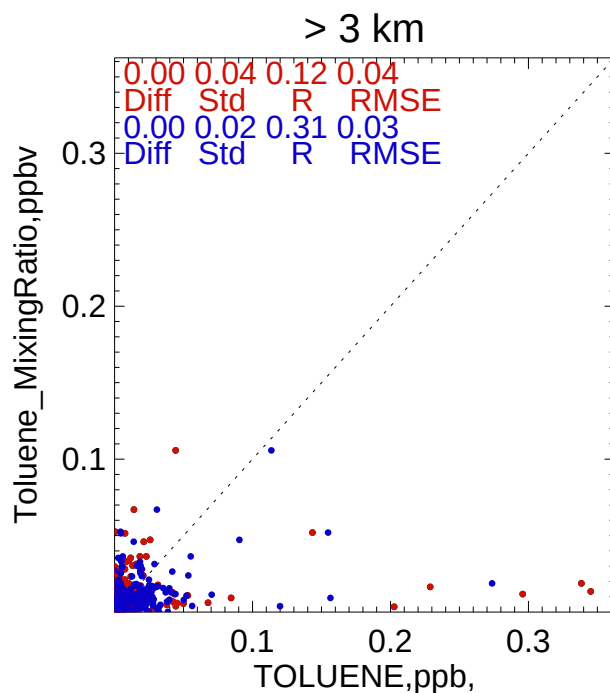
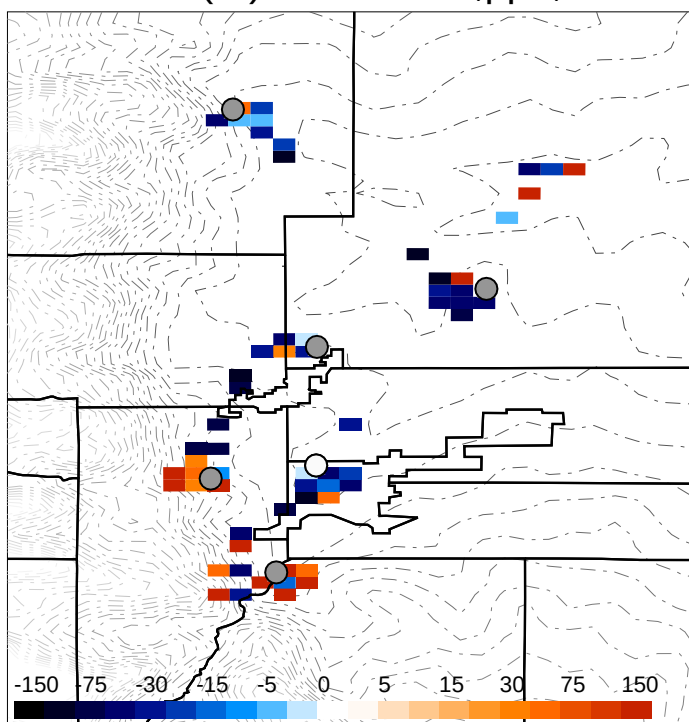
Toluene_MixingRatio,ppbv > 3 km



Model TOLUENE,ppb, > 3 km



Model-Obs(%) TOLUENE,ppb, > 3 km

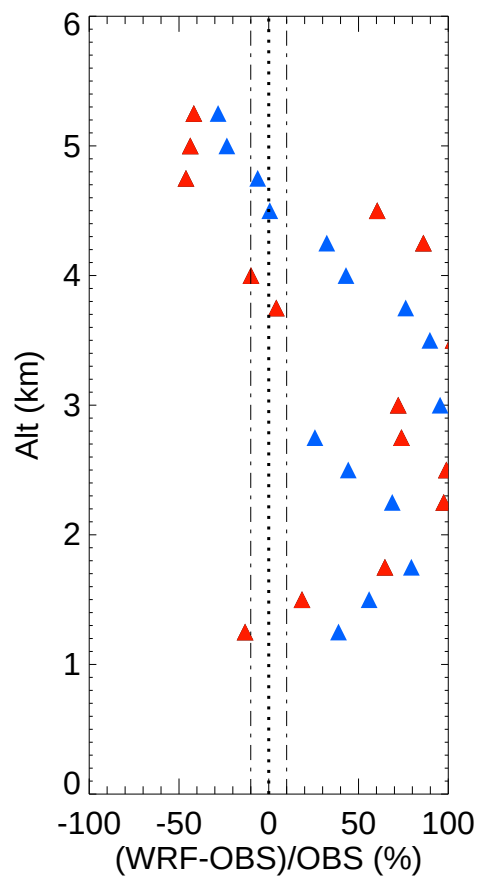
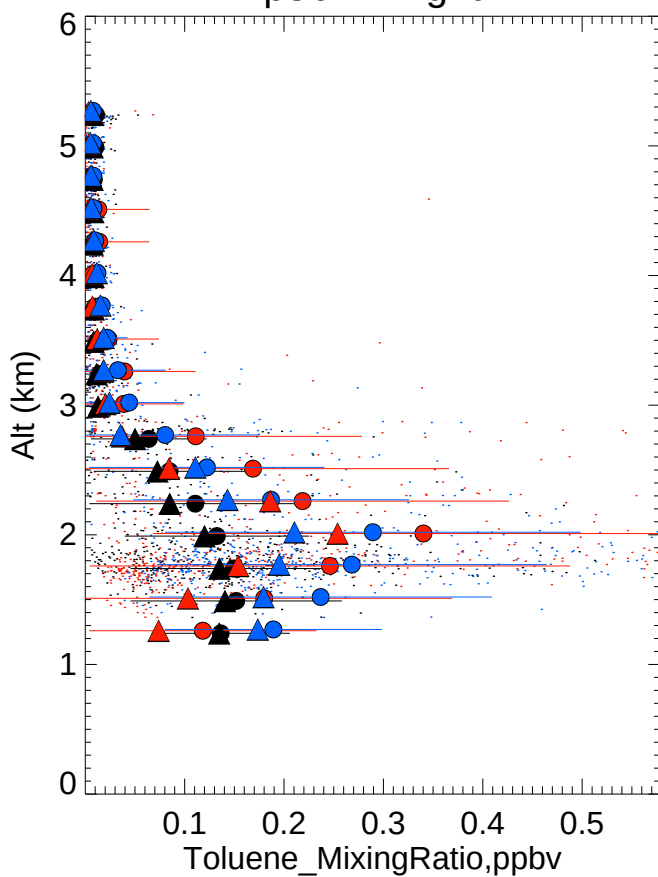
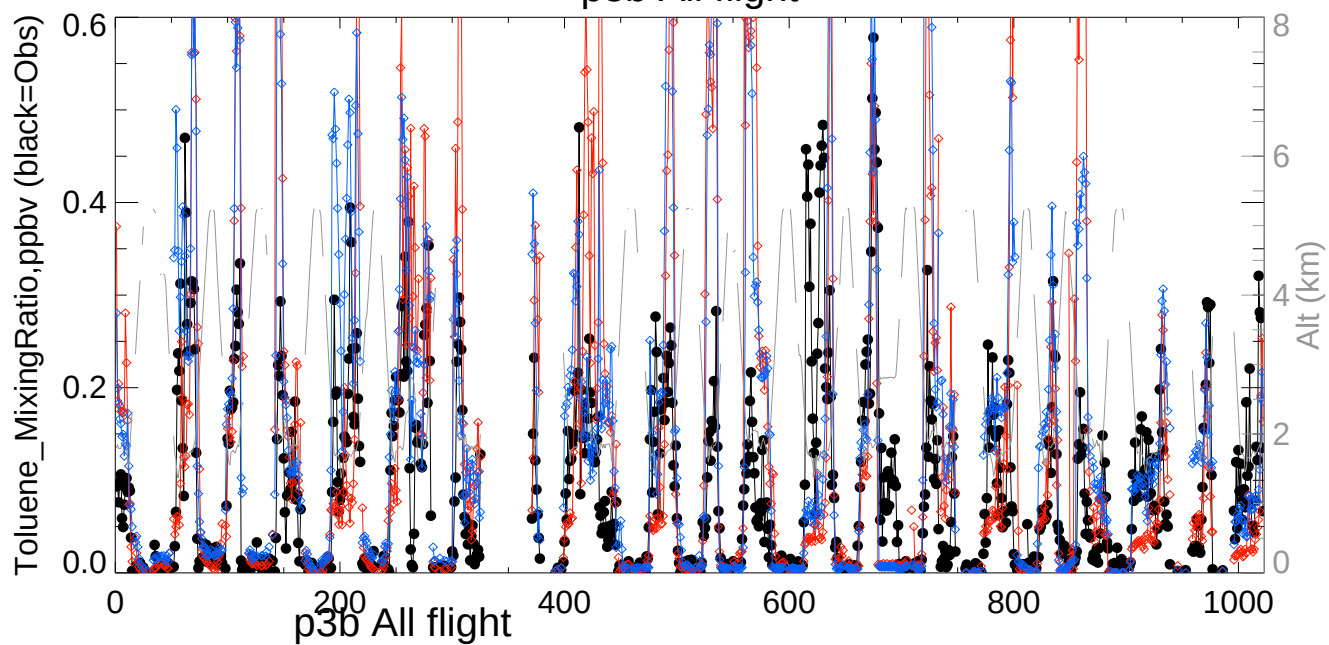


BTXv2ECMWFV4mozmozaic-

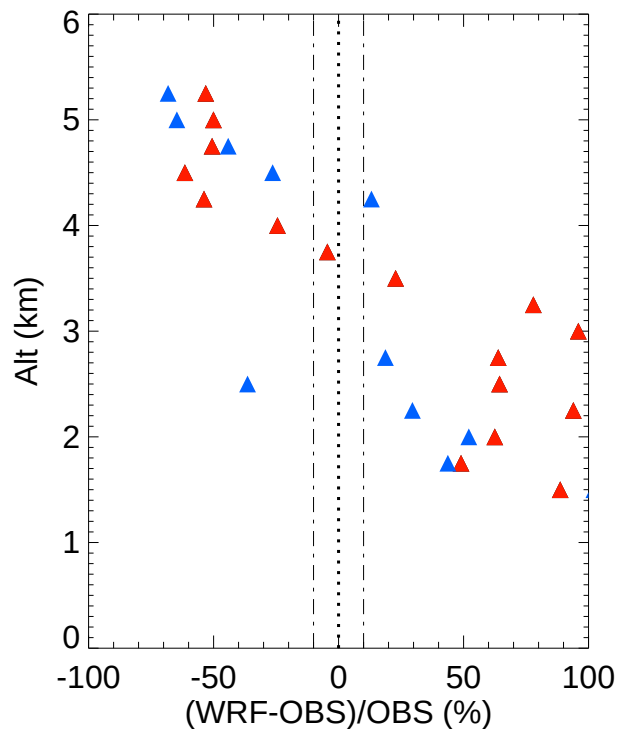
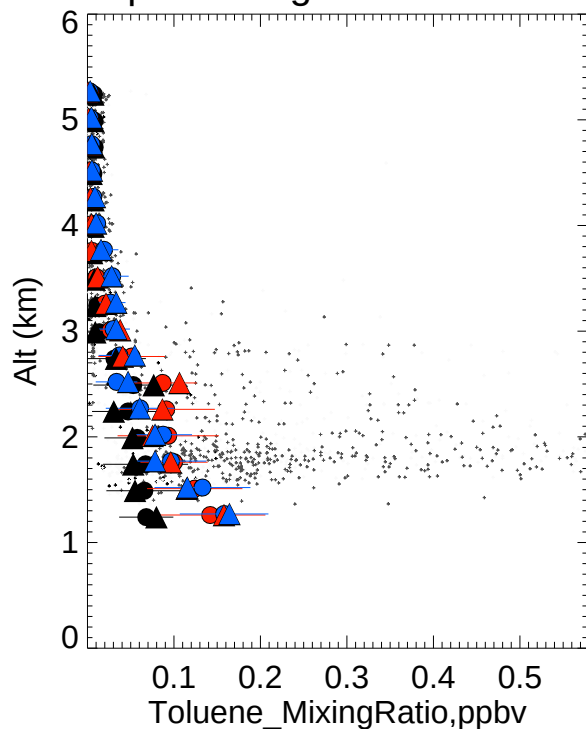
Ravan-

BTXv2ECMWFV4mozmozarRavan-

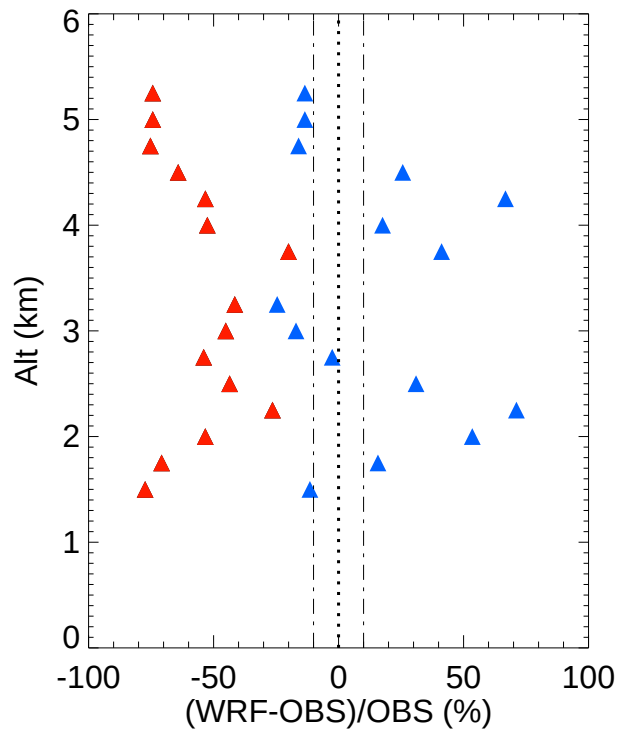
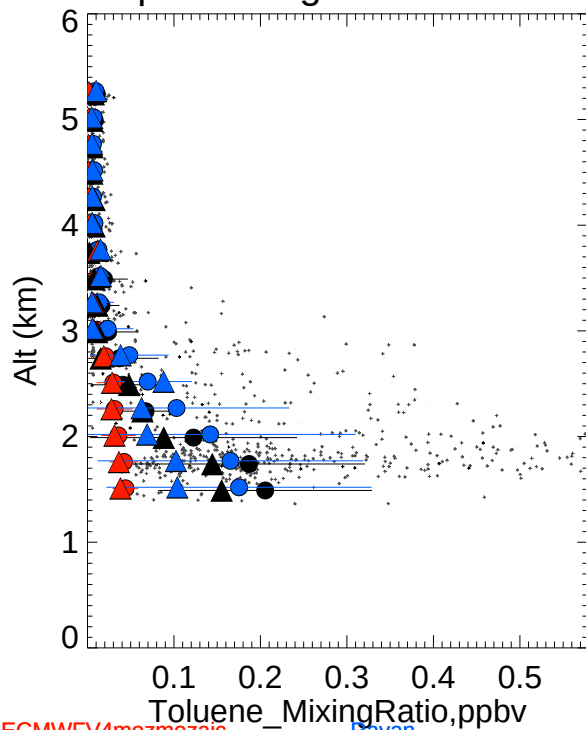
p3b All flight



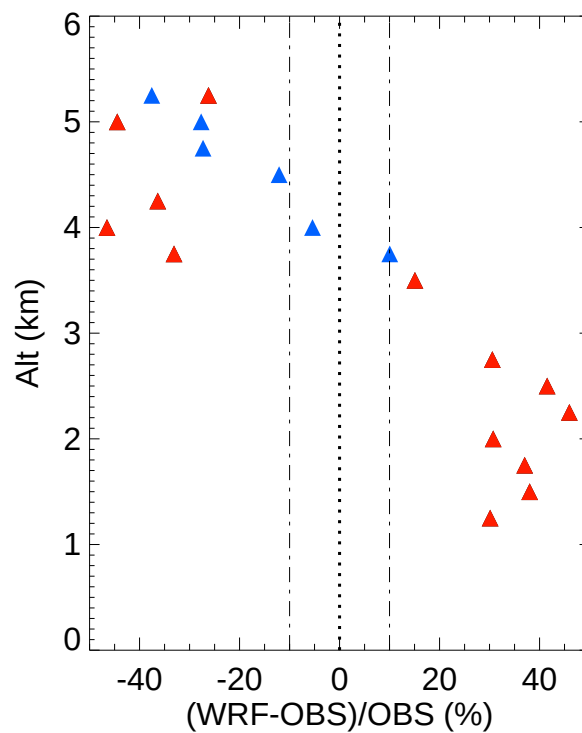
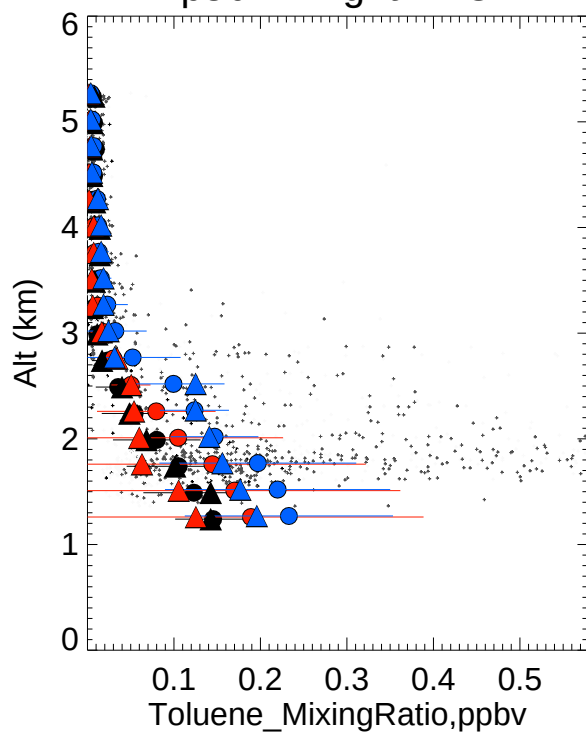
p3b All flight FortCollins



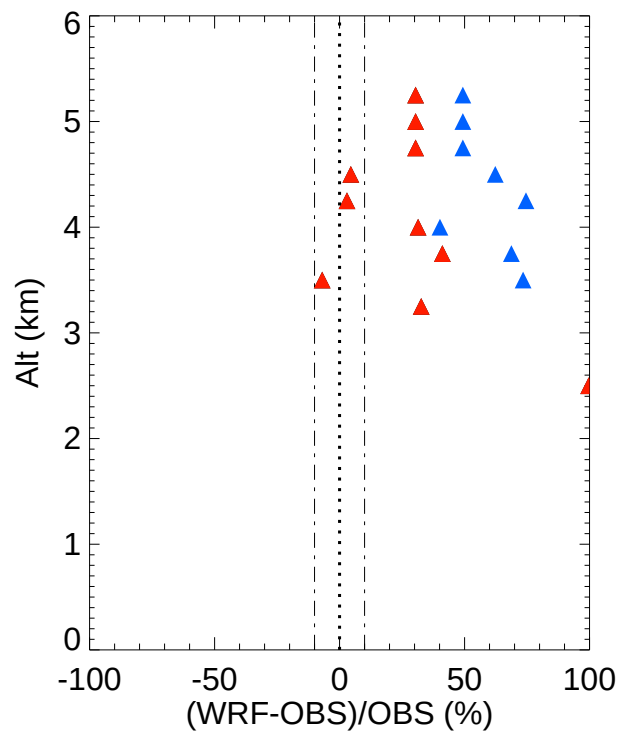
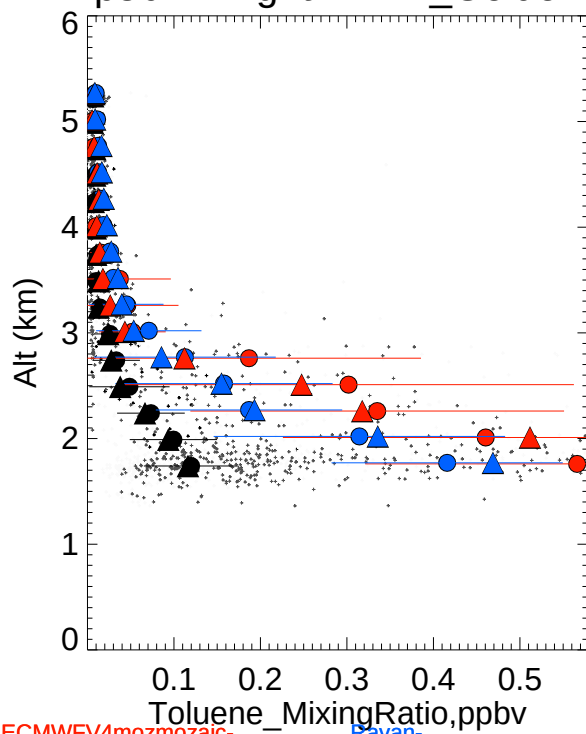
p3b All flight Platteville



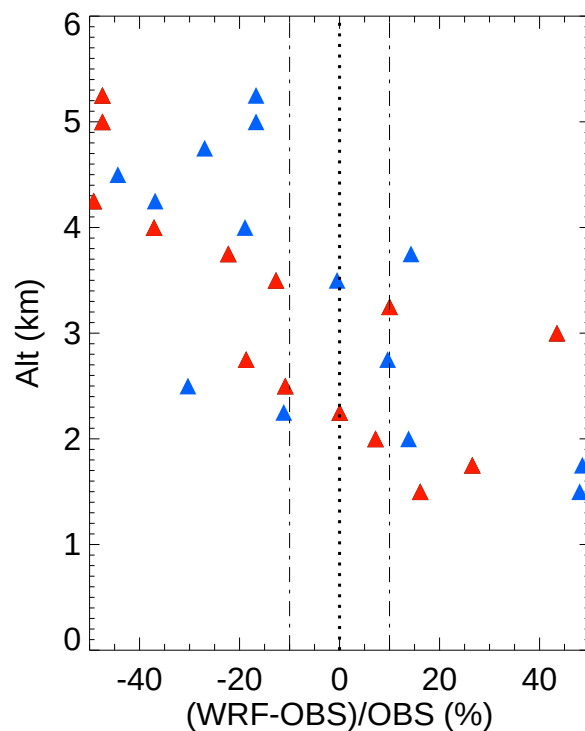
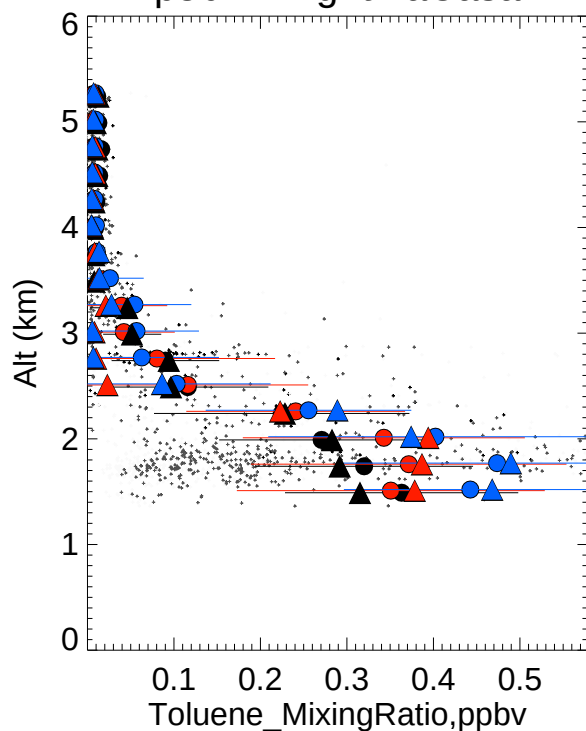
p3b All flight BAO



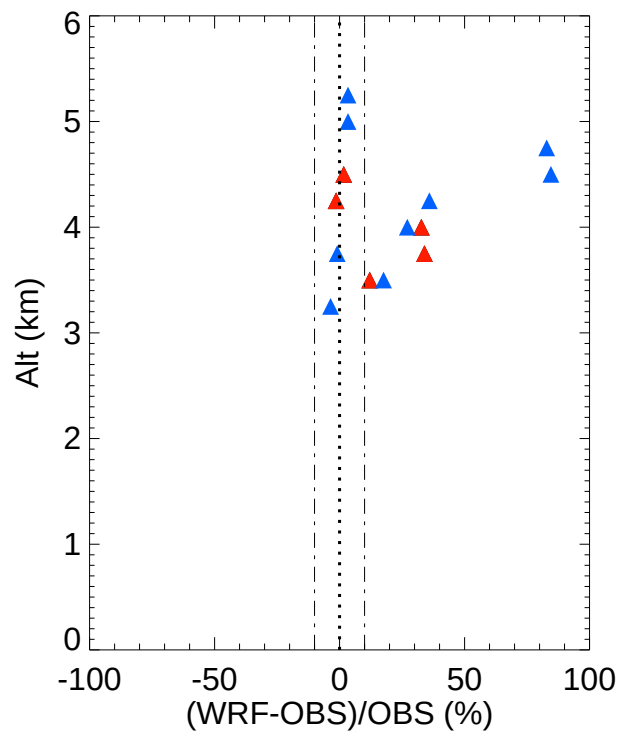
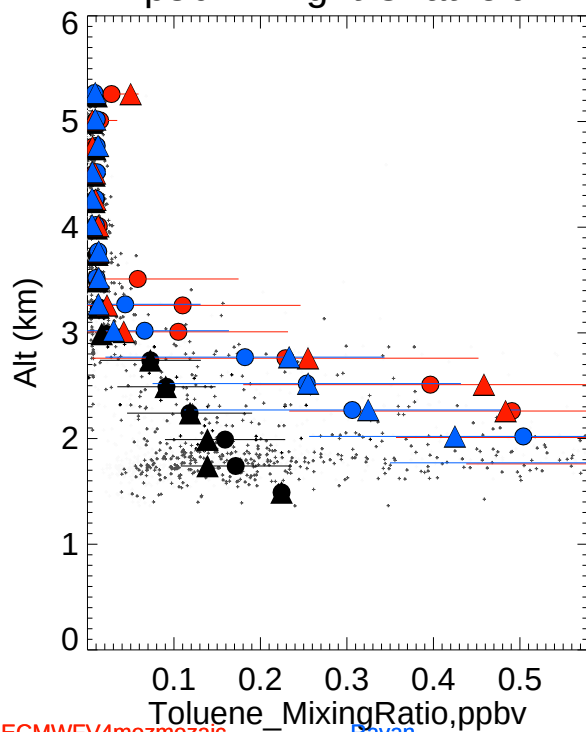
p3b All flight NREL_Golden



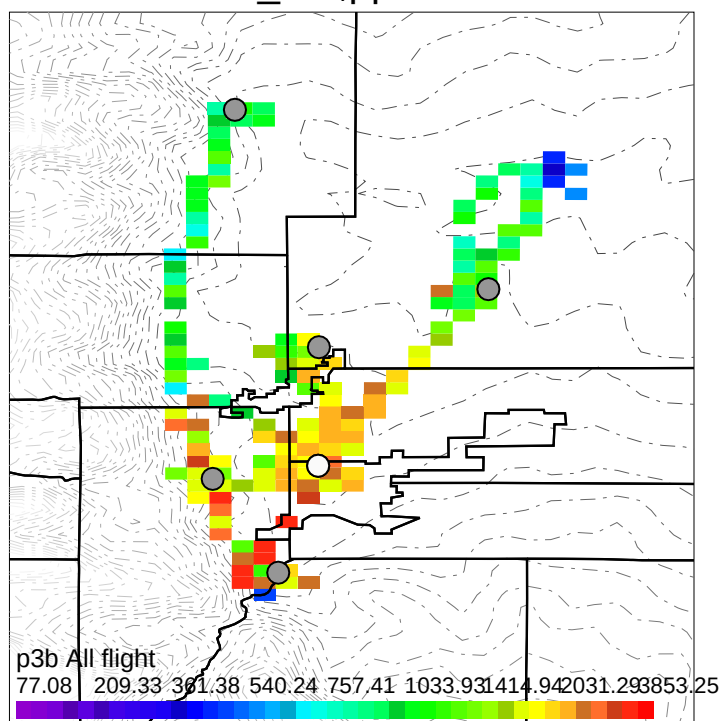
p3b All flight LaCasa



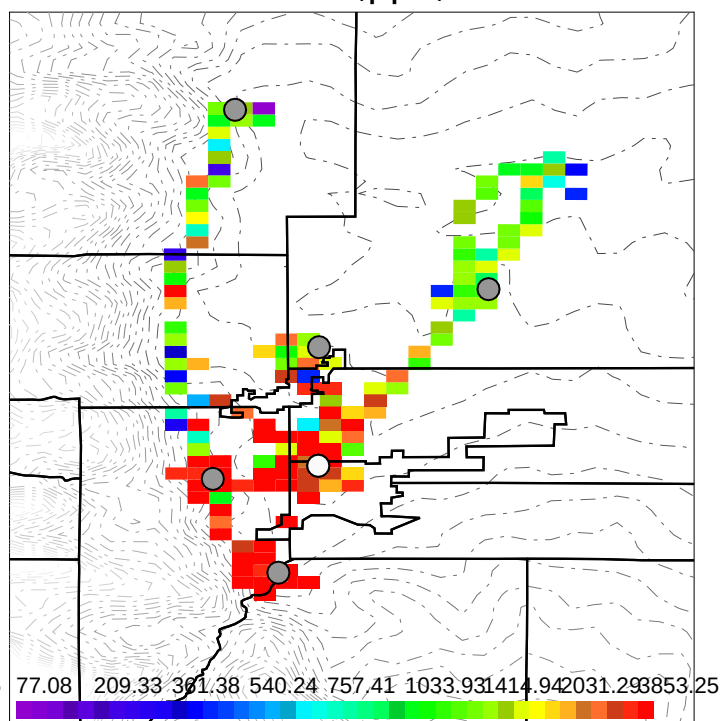
p3b All flight Chatfield



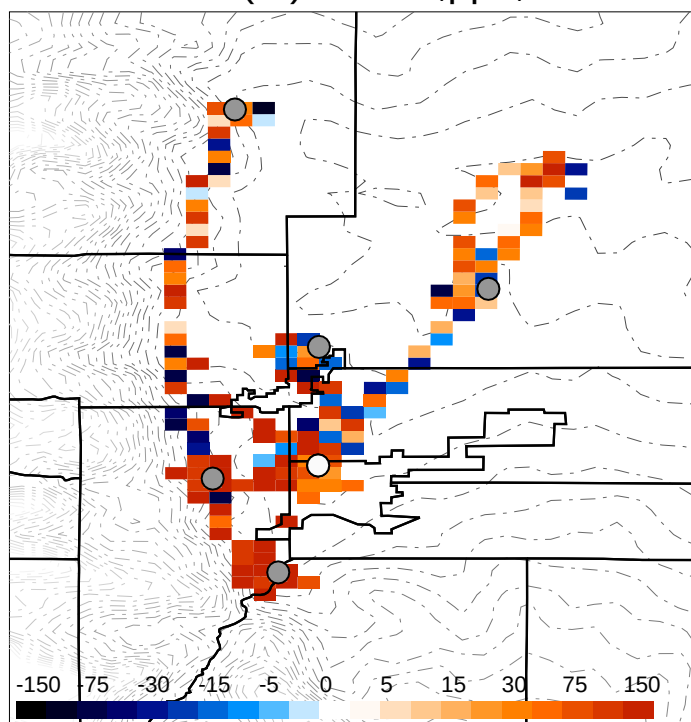
HNO₃_LIF, pptv < 3 km



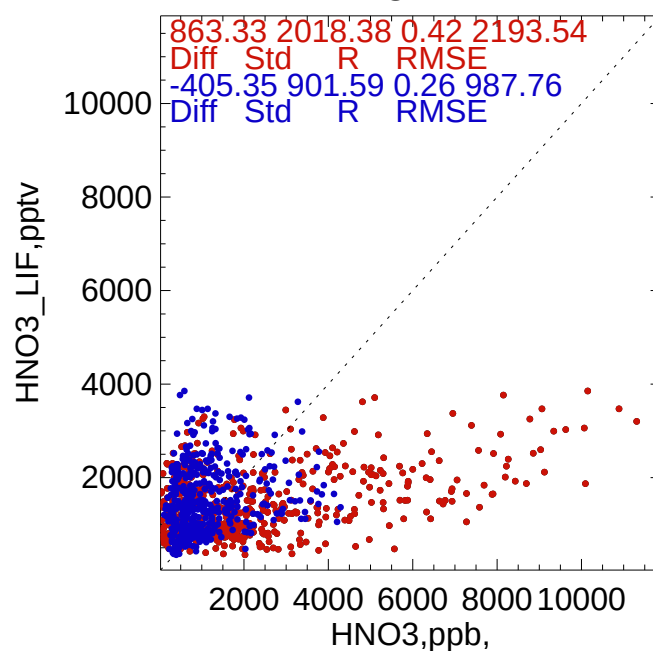
Model HNO₃, ppb, < 3 km



Model-Obs(%) HNO₃, ppb, < 3 km



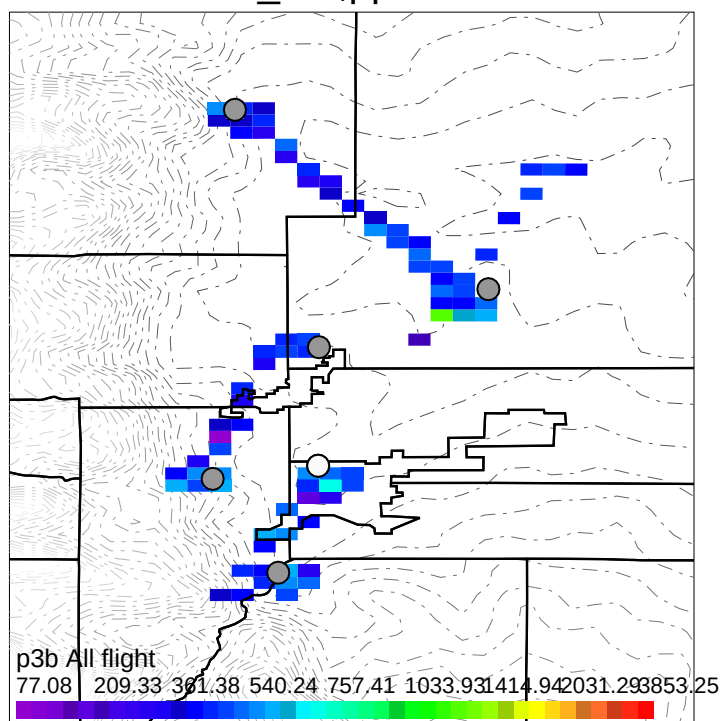
< 3 km



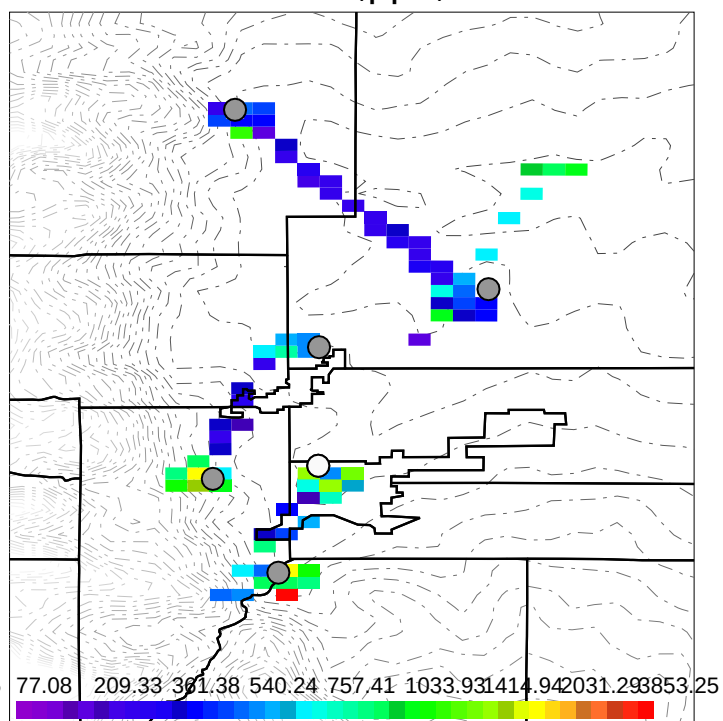
BTXv2ECMWFV4mozmozaic-

Ravan-

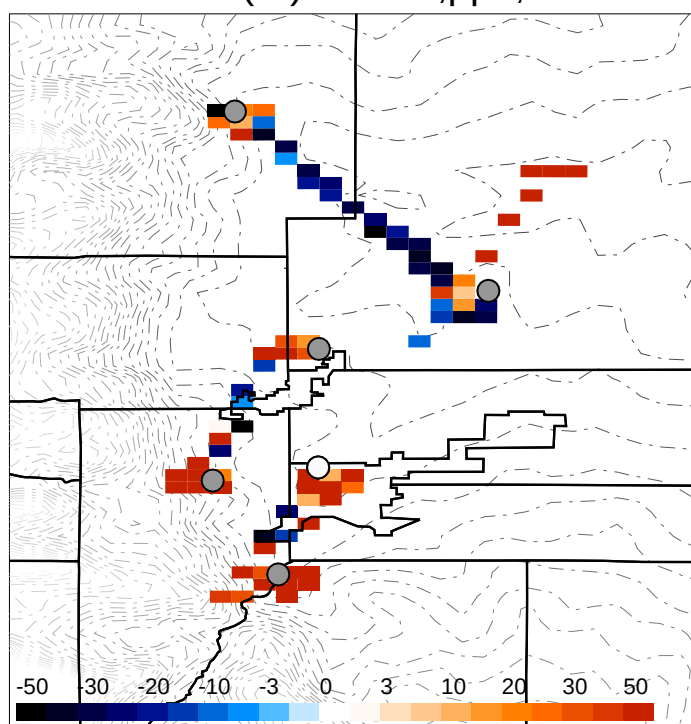
HNO3_LIF,pptv > 3 km



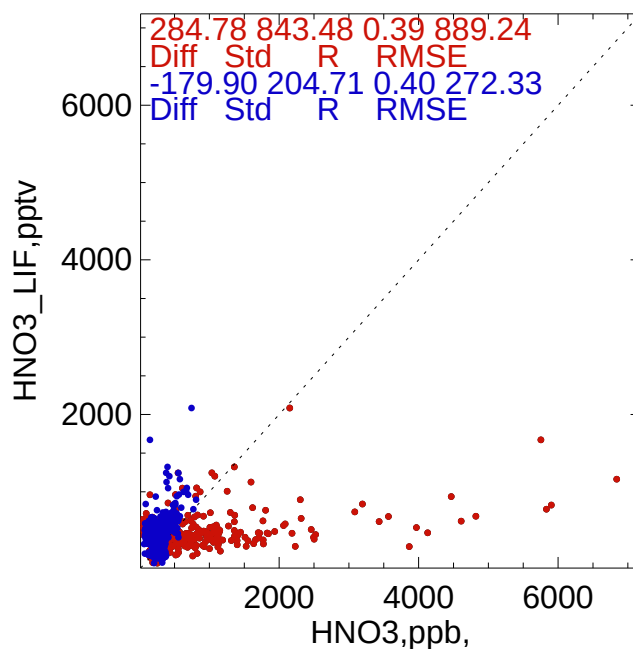
Model HNO3,ppb, > 3 km



Model-Obs(%) HNO3,ppb, > 3 km



> 3 km

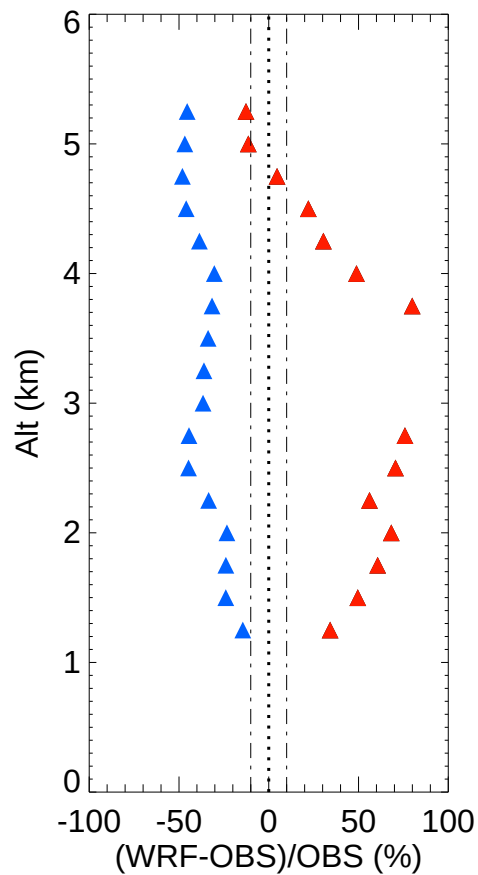
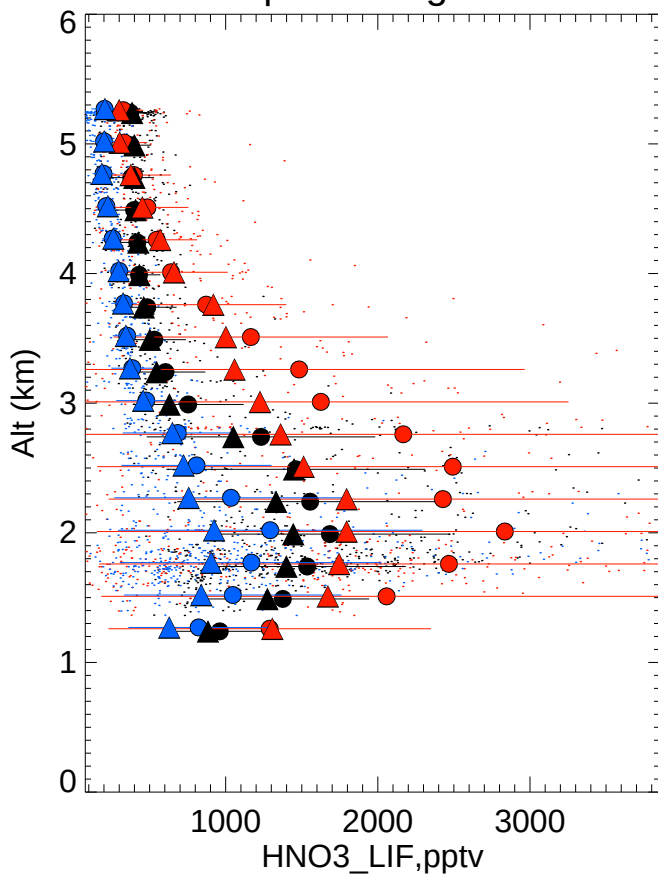
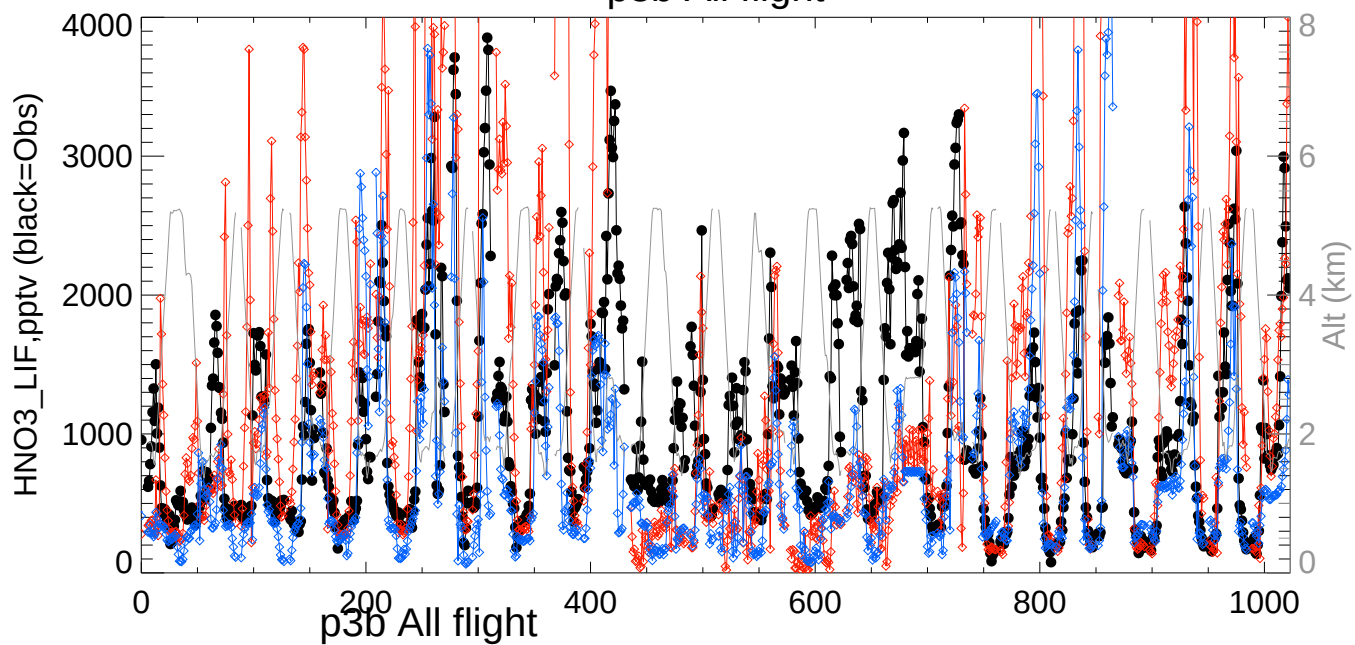


BTXv2ECMWFV4mozmozaic-

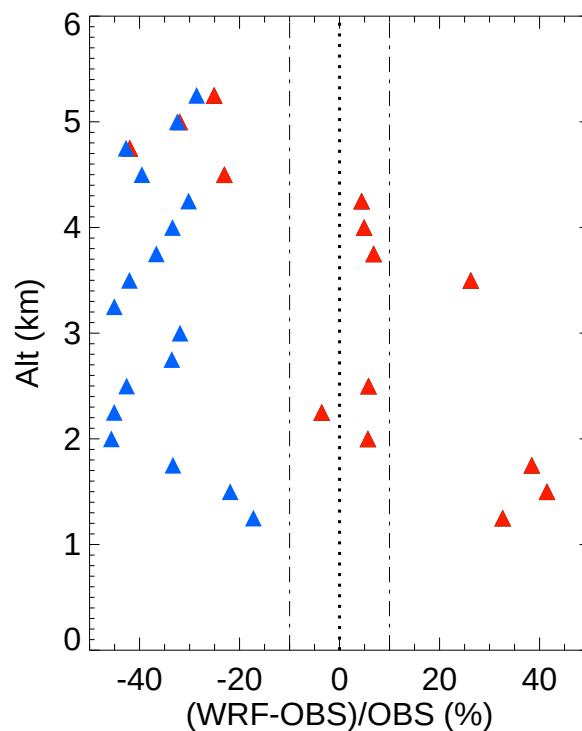
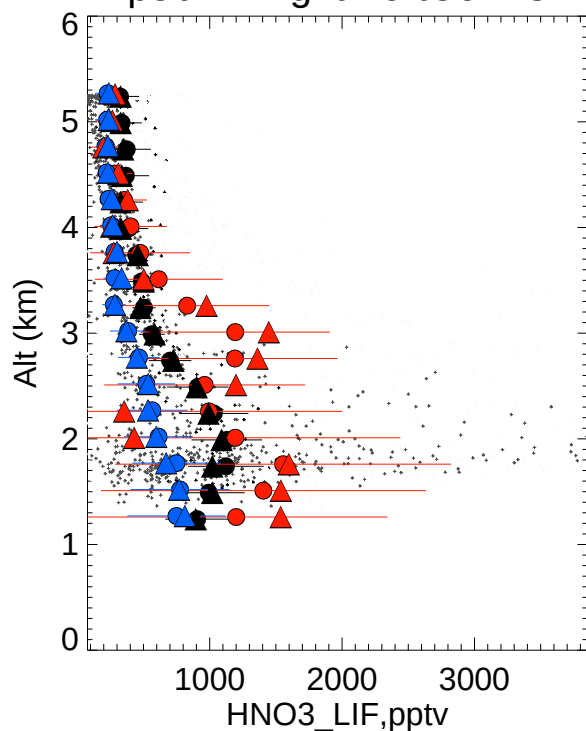
Ravan-

BTXv2ECMWFV4mozmozarRavan-

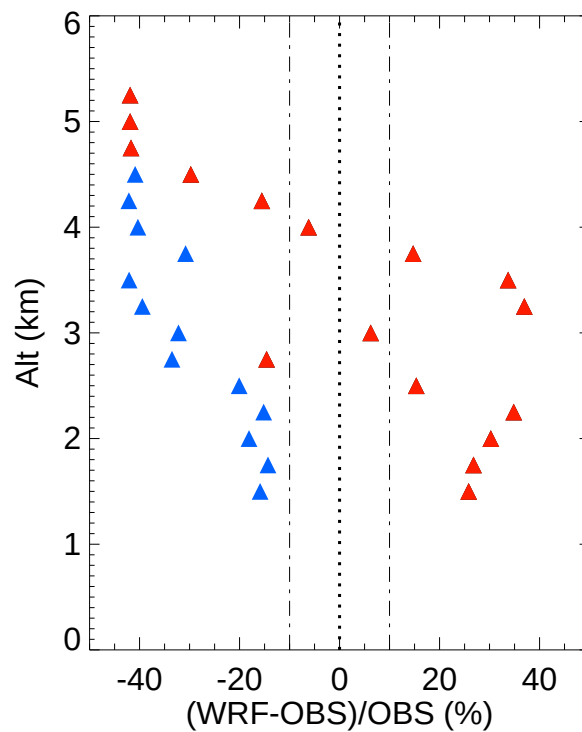
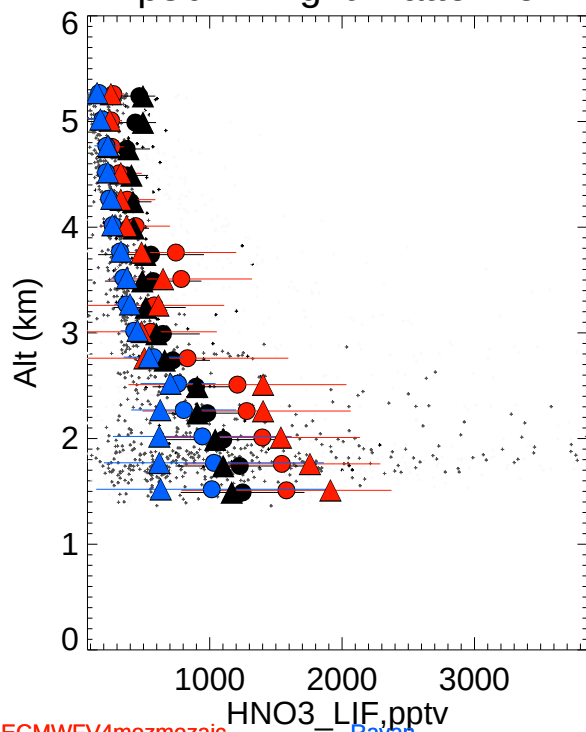
p3b All flight

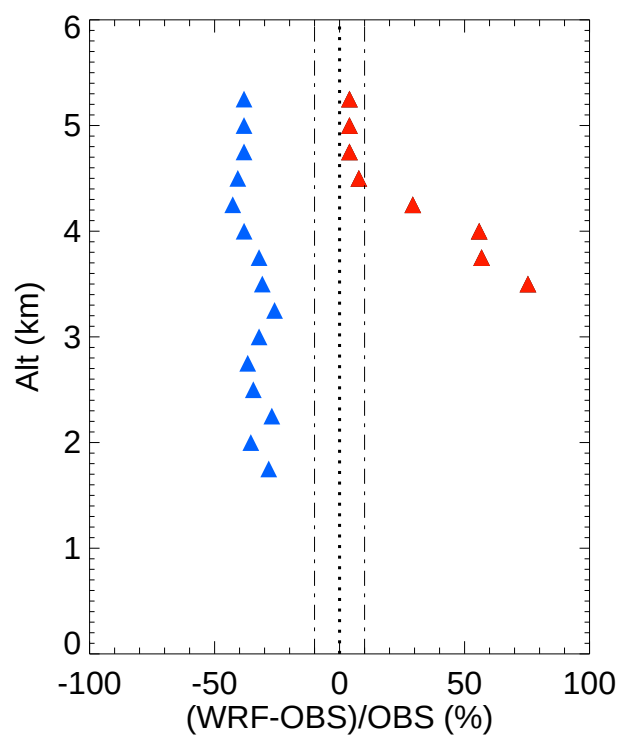
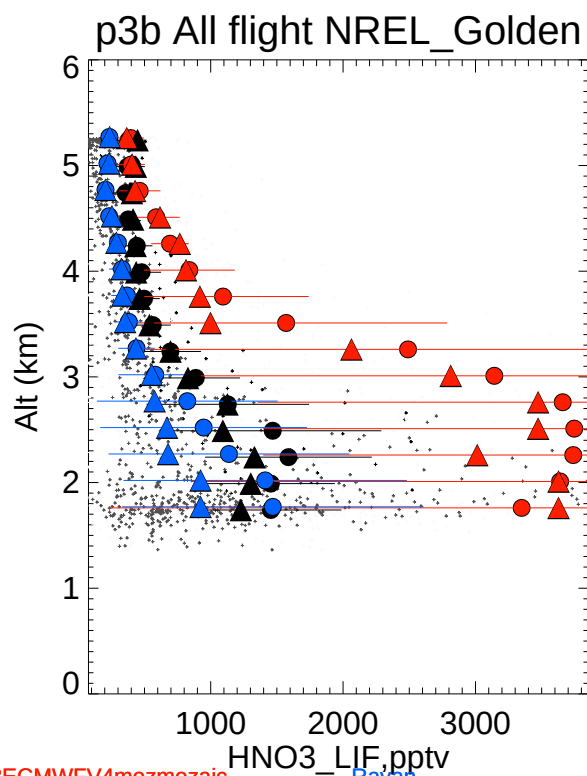
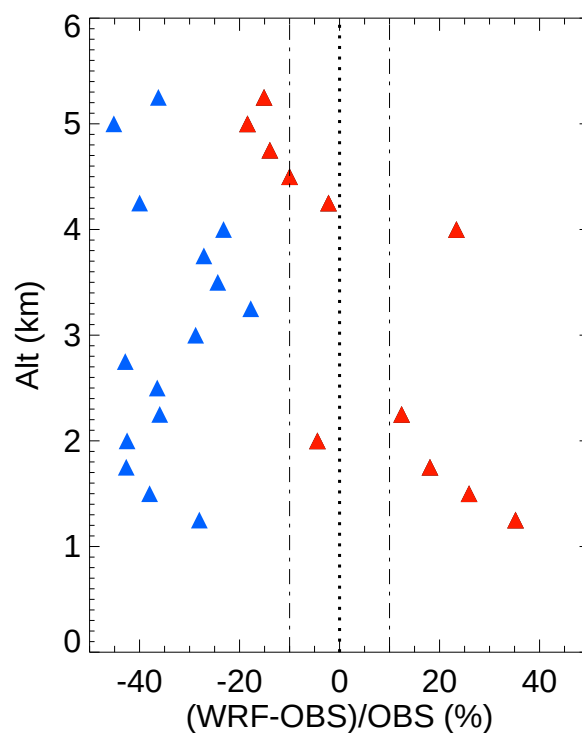
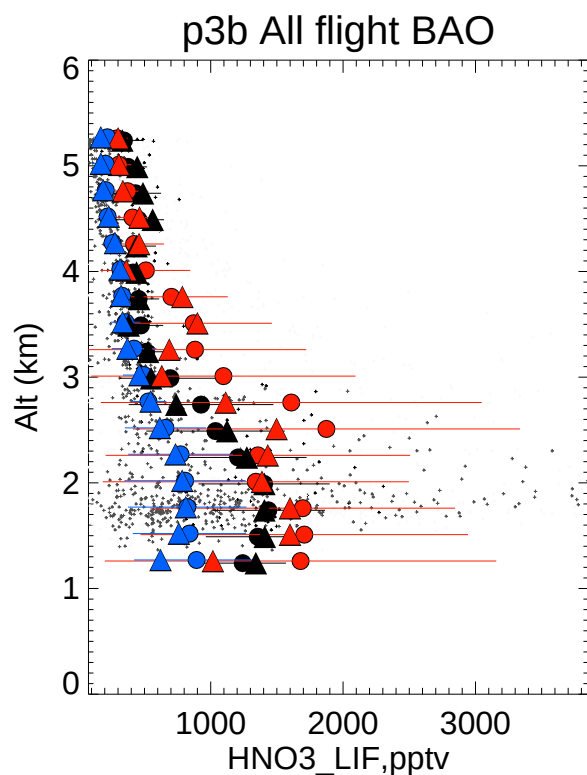


p3b All flight FortCollins

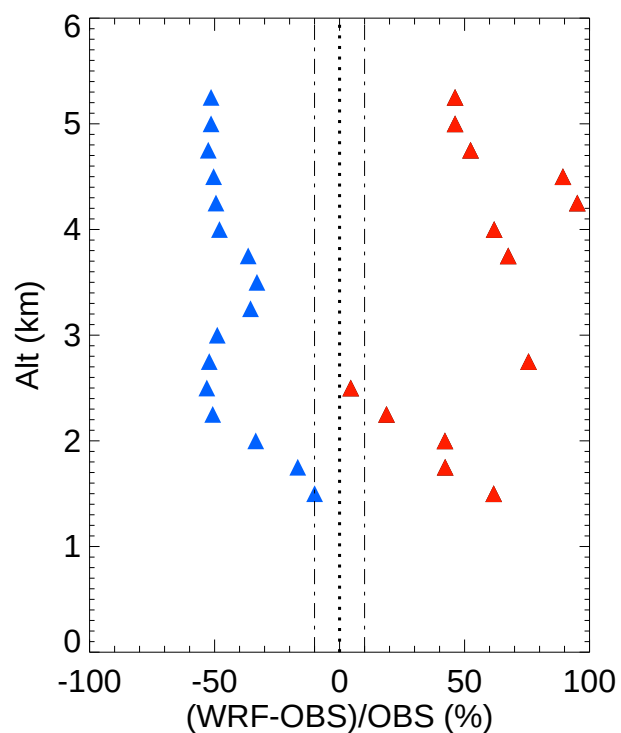
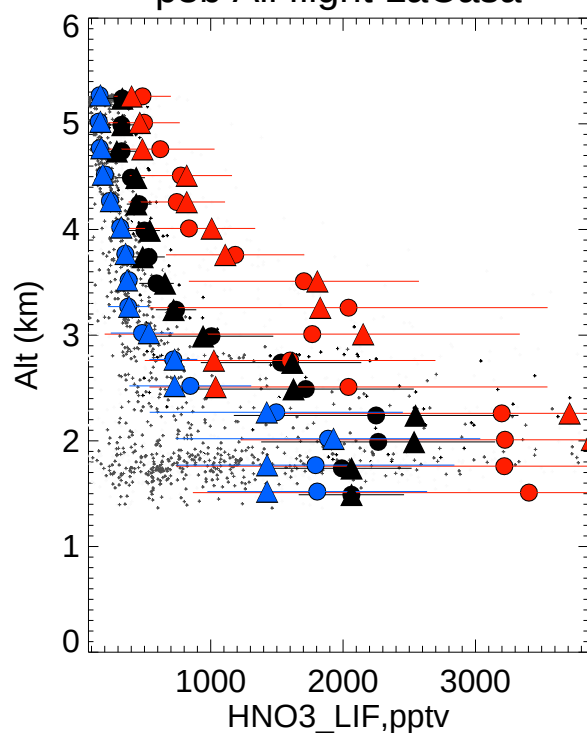


p3b All flight Platteville

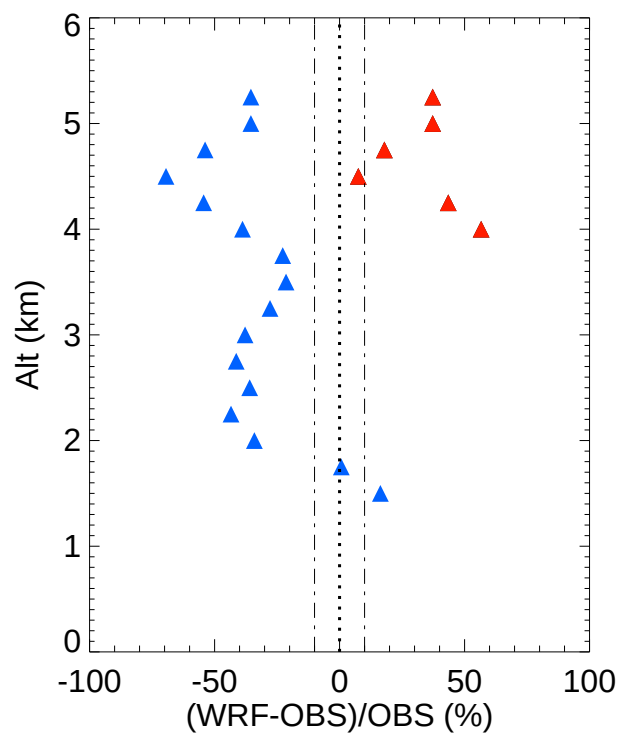
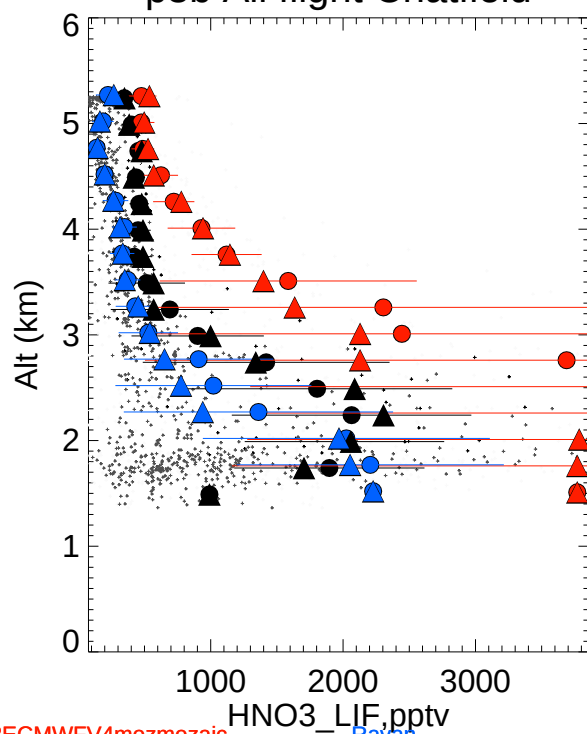




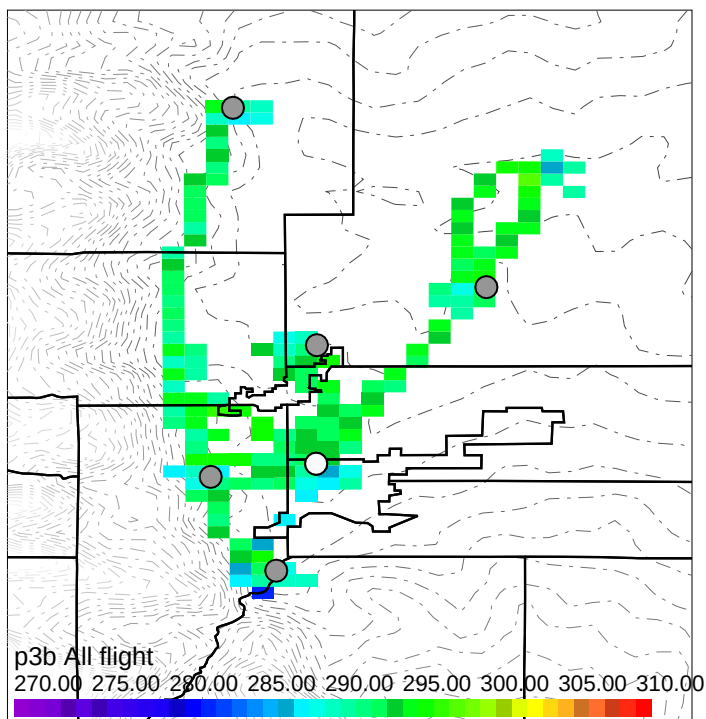
p3b All flight LaCasa



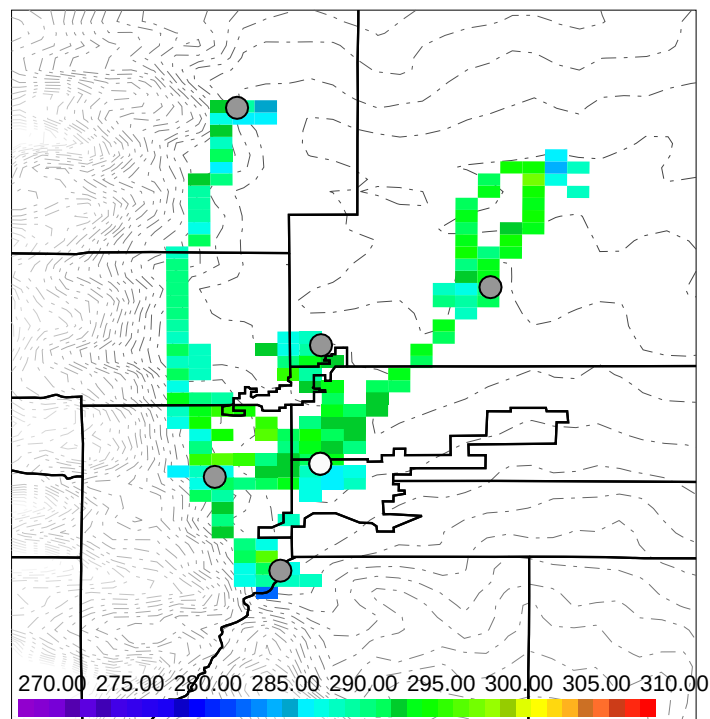
p3b All flight Chatfield



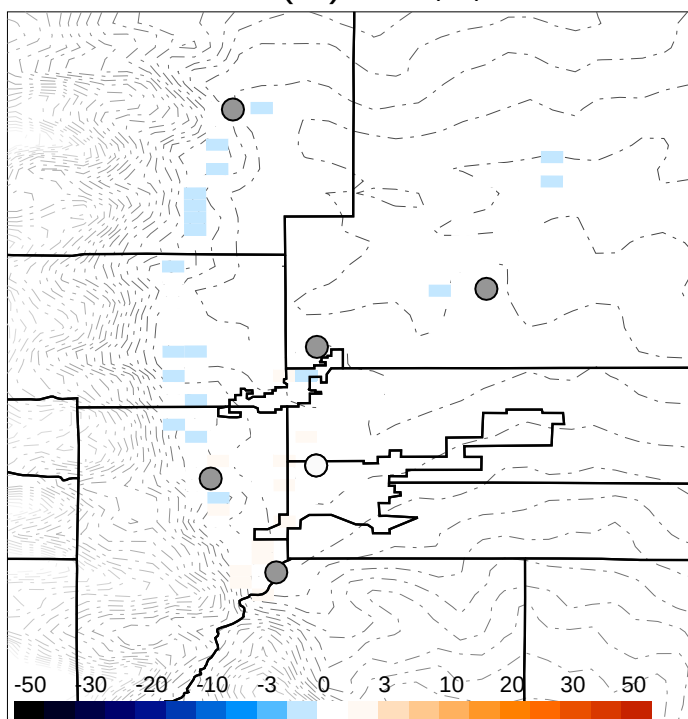
TEMPERATURE,K < 3 km



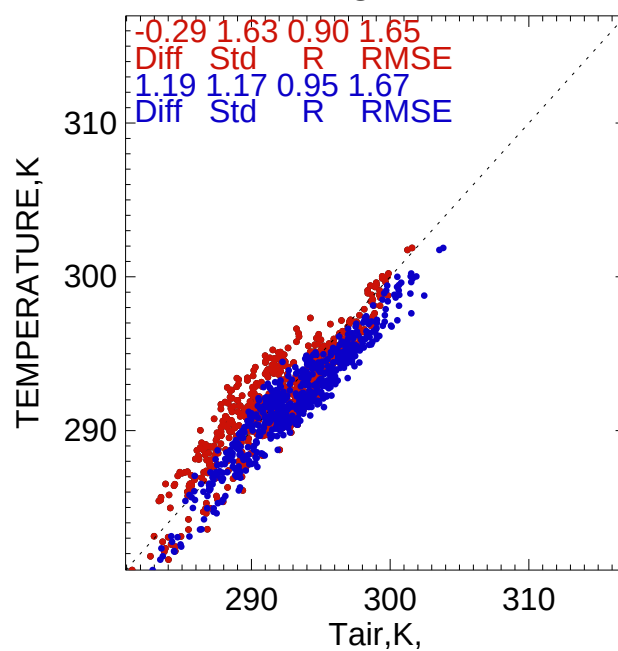
Model Tair,K, < 3 km



Model-Obs(%) Tair,K, < 3 km



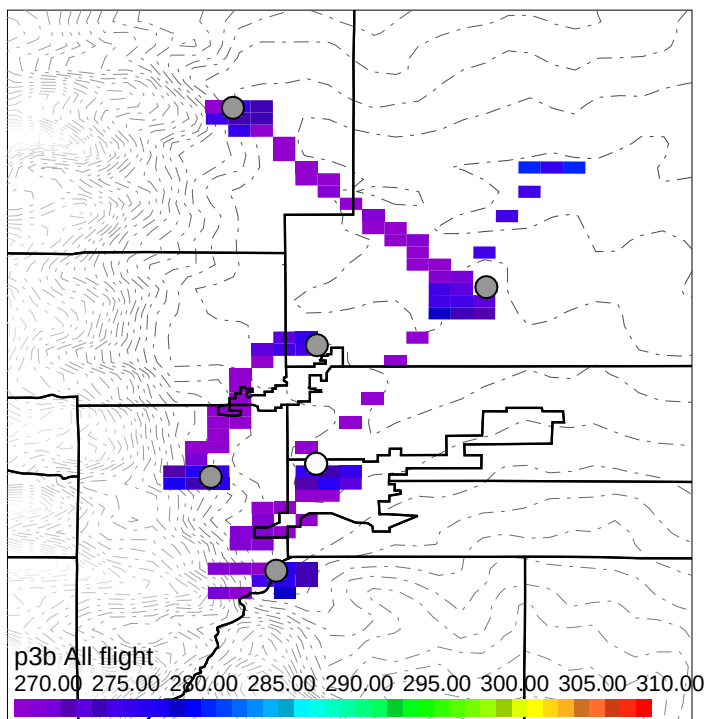
< 3 km



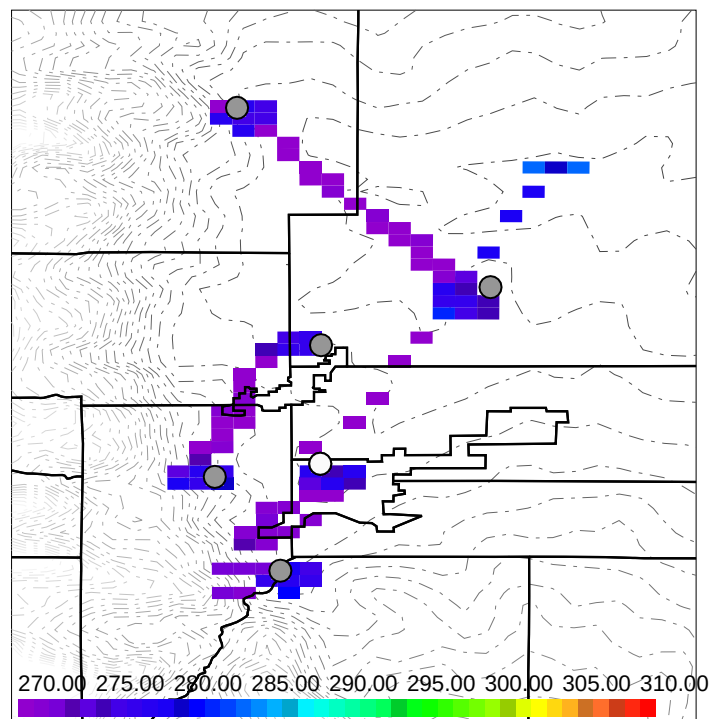
BTXv2ECMWFV4mozmozaic-

Ravan-

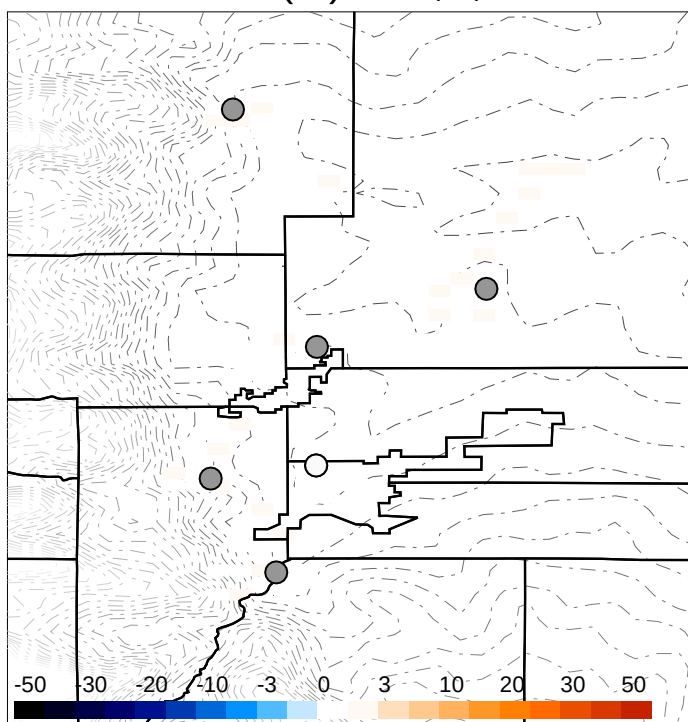
TEMPERATURE,K > 3 km



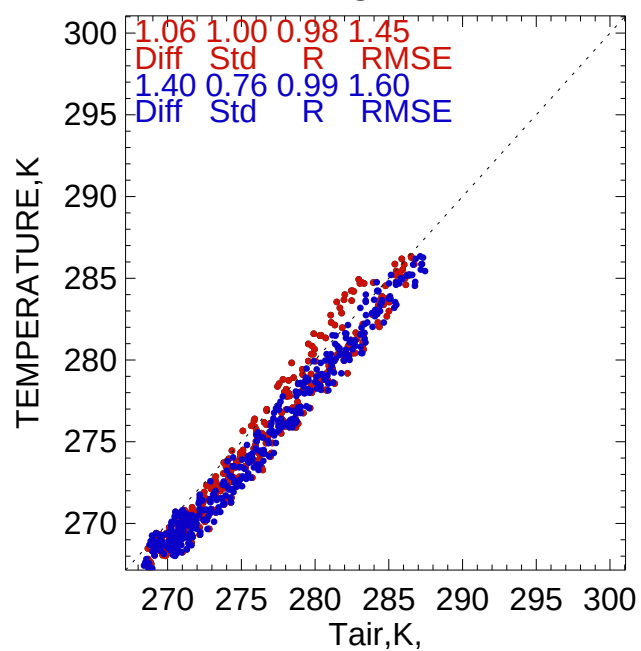
Model Tair,K, > 3 km



Model-Obs(%) Tair,K, > 3 km



> 3 km

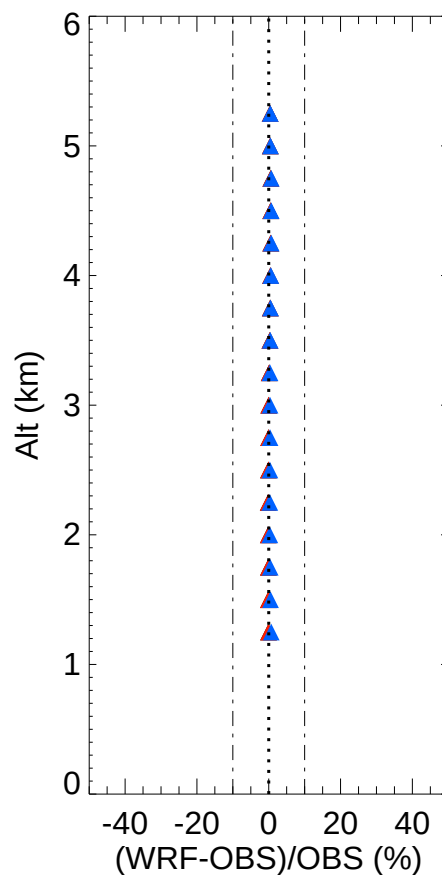
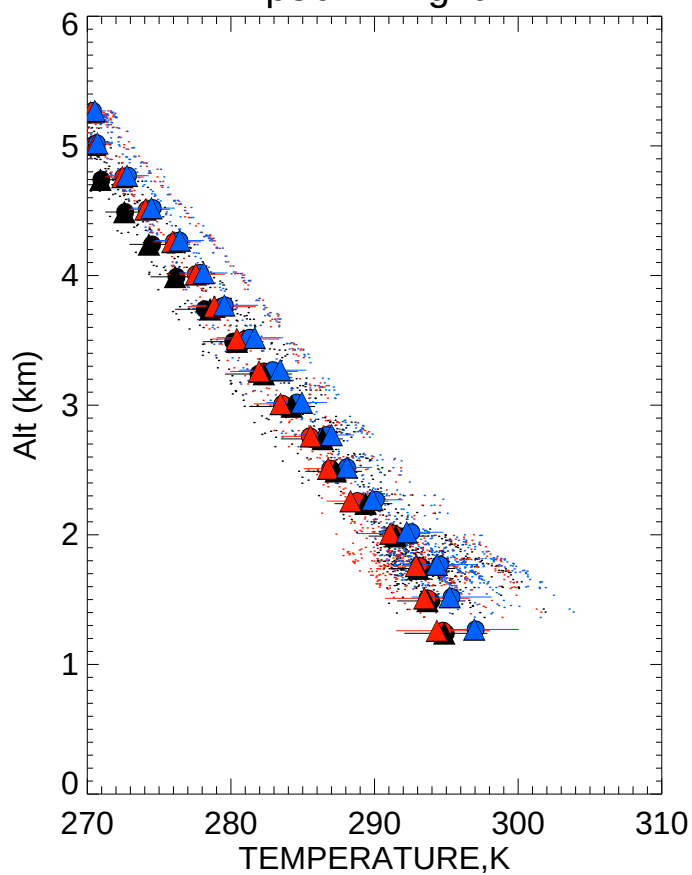
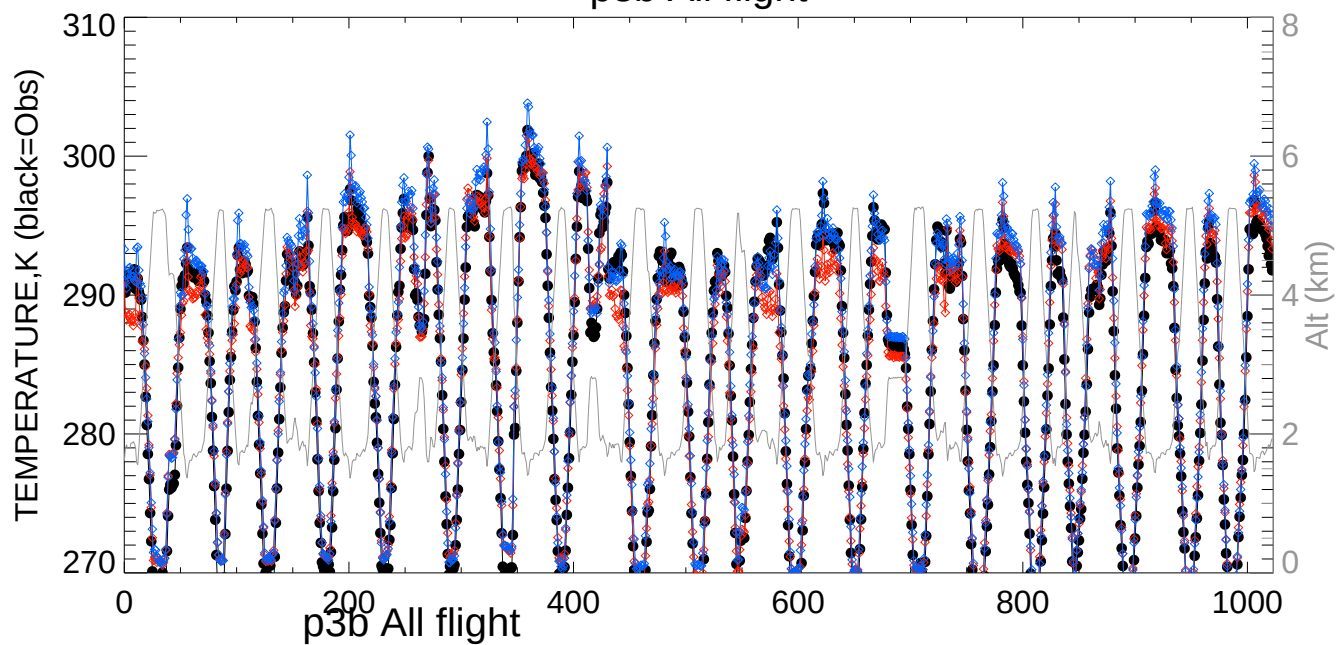


BTXv2ECMWFV4mozmozaic-

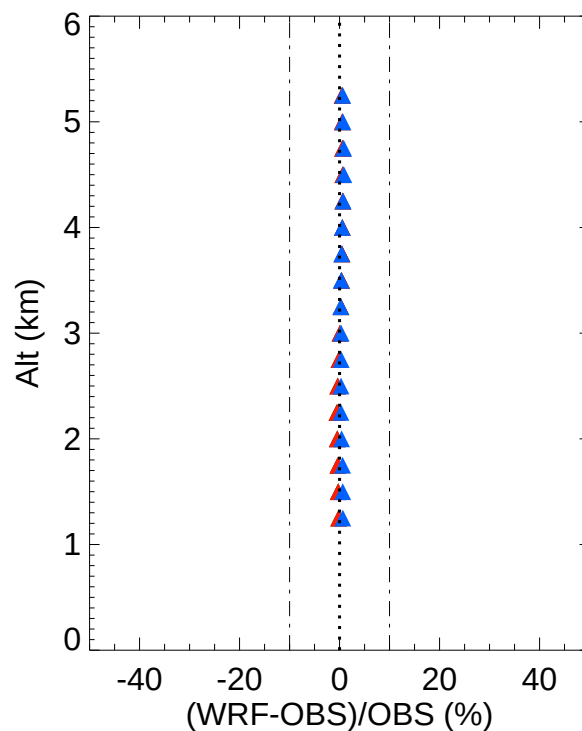
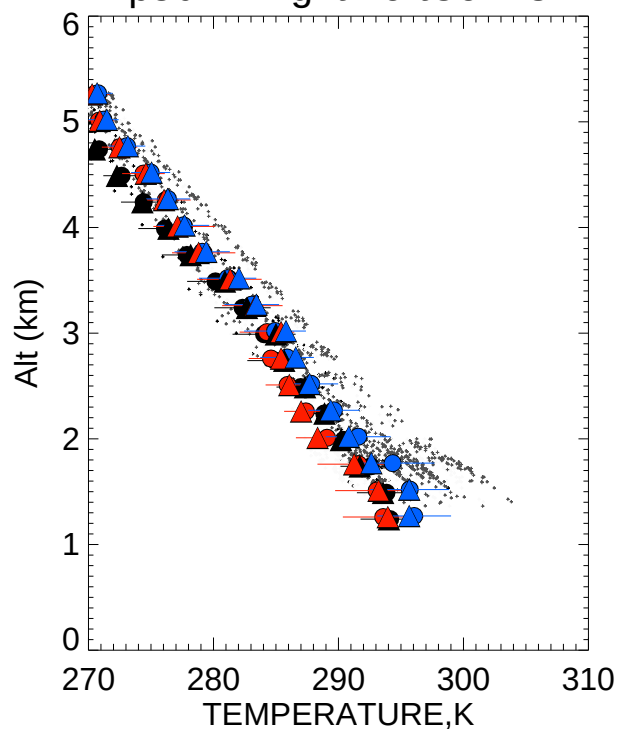
Ravan-

BTXv2ECMWFV4mozmozaRavan-

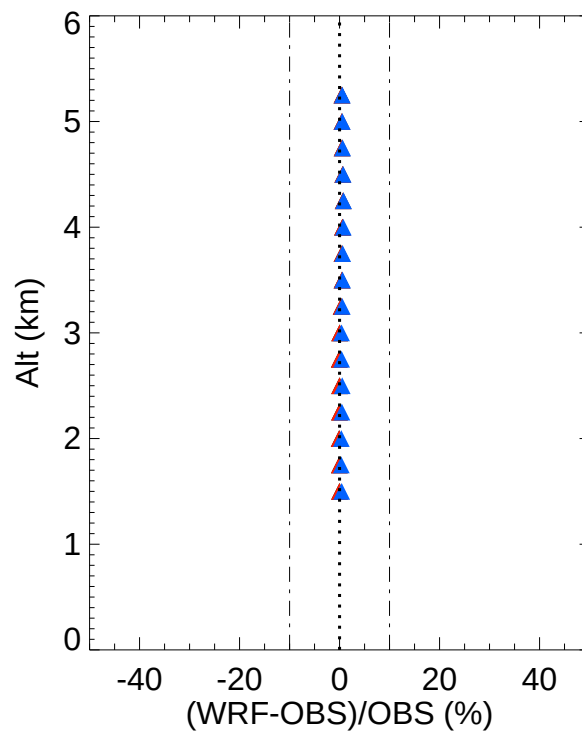
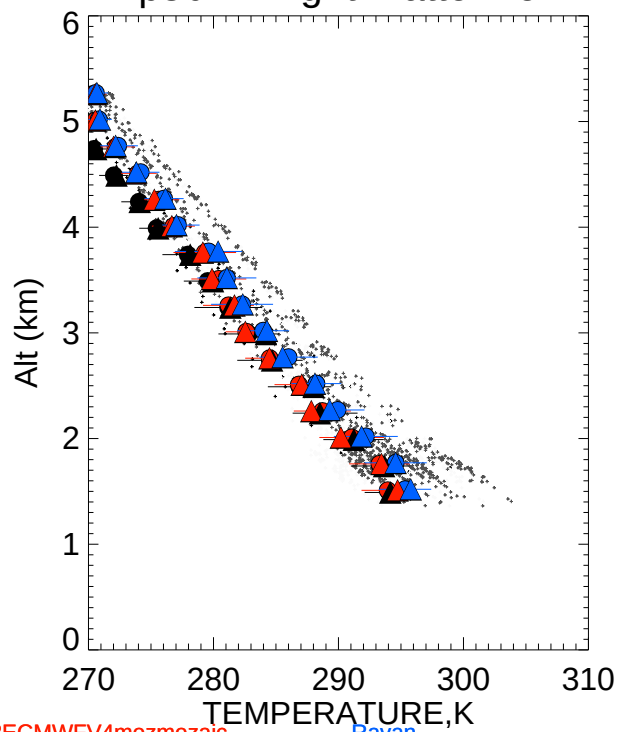
p3b All flight

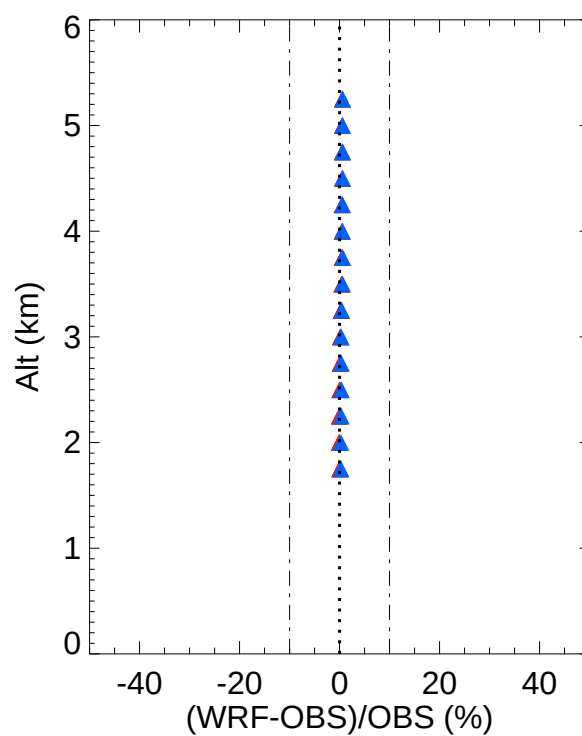
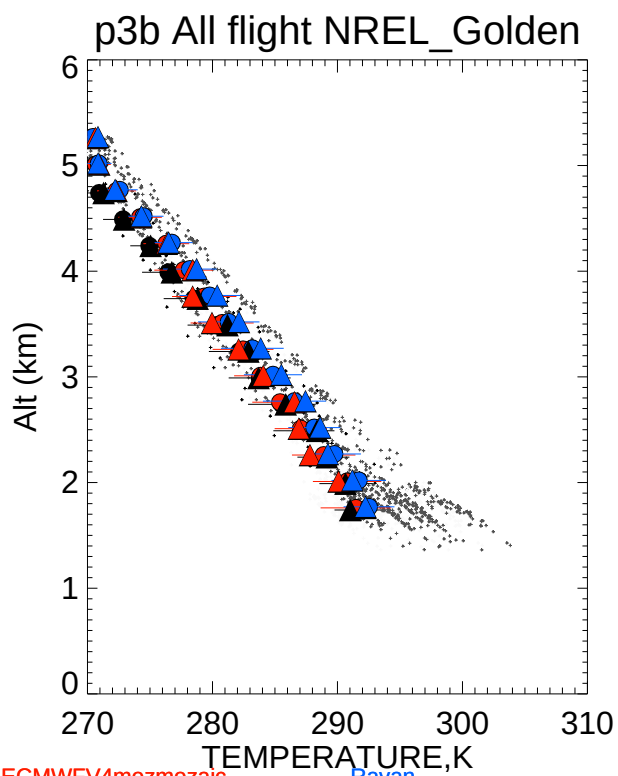
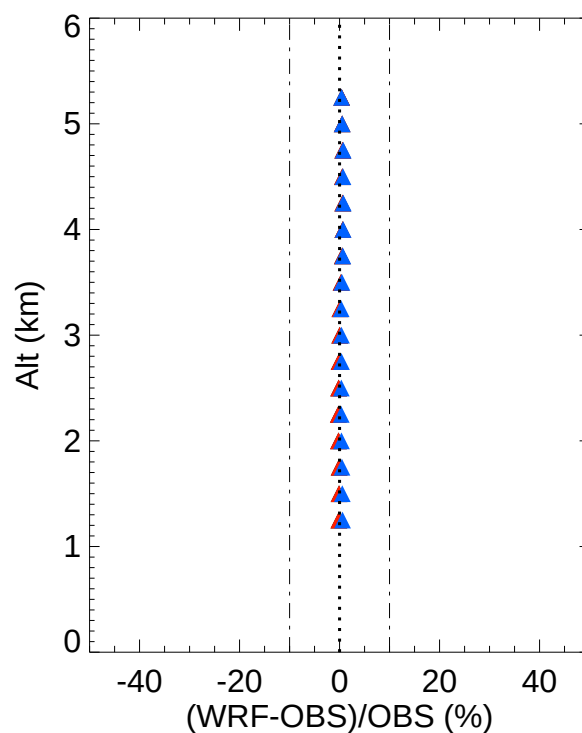
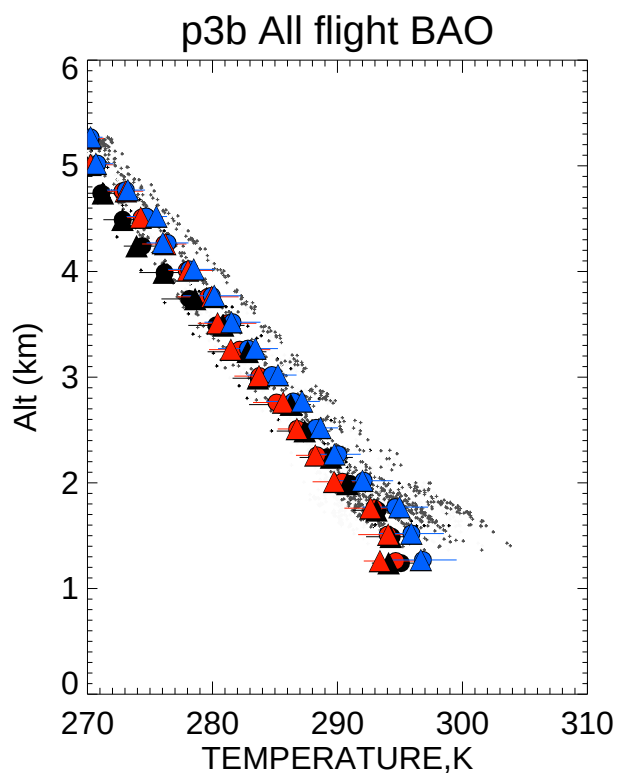


p3b All flight FortCollins

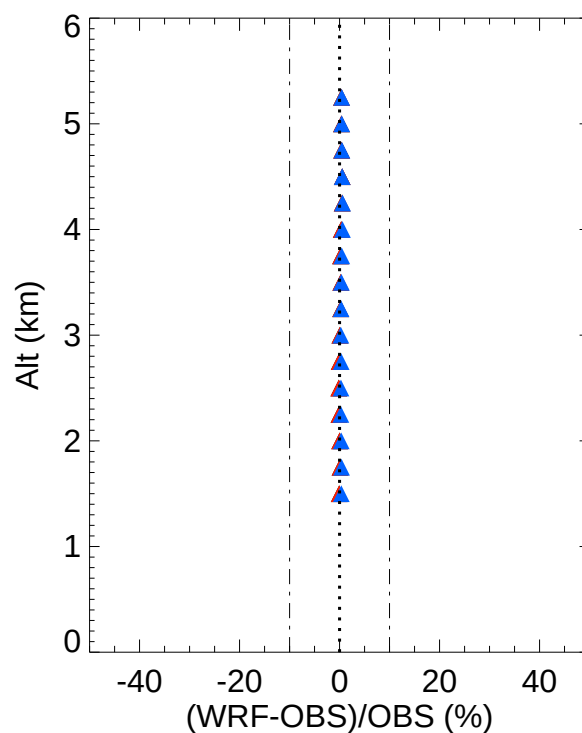
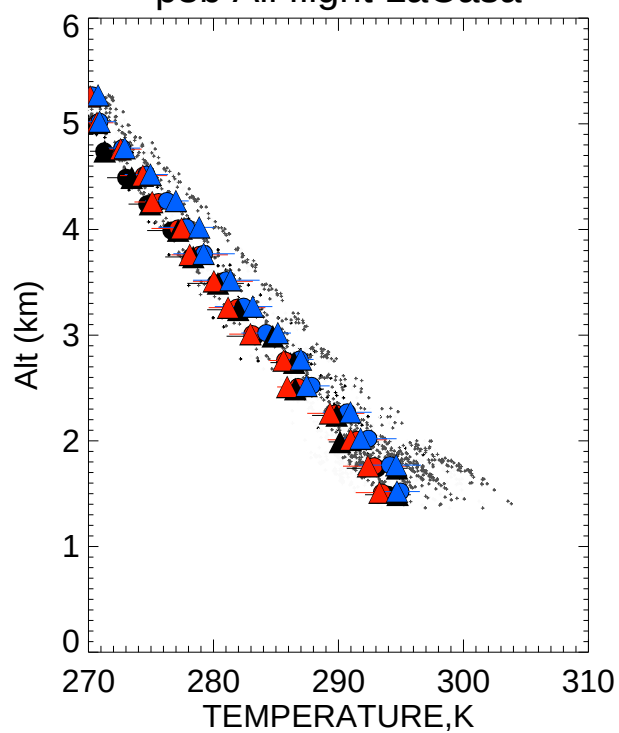


p3b All flight Platteville





p3b All flight LaCasa



p3b All flight Chatfield

