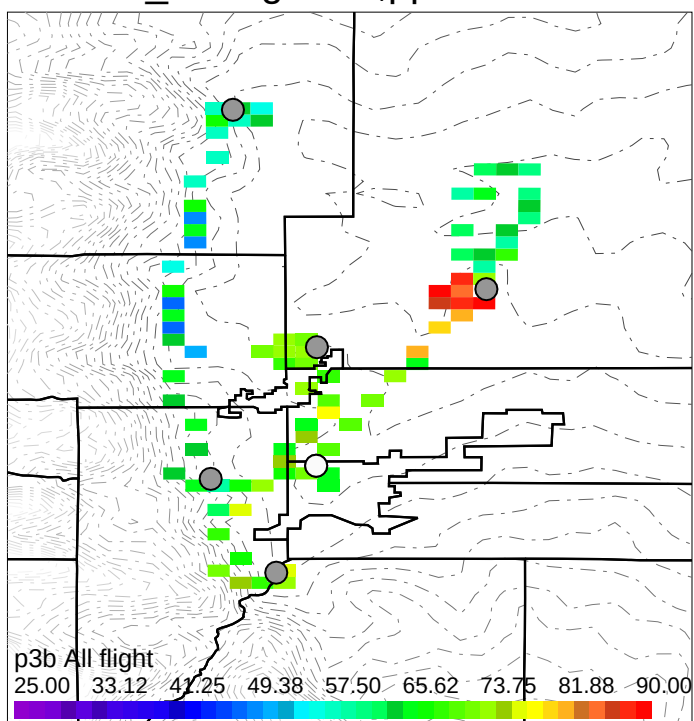
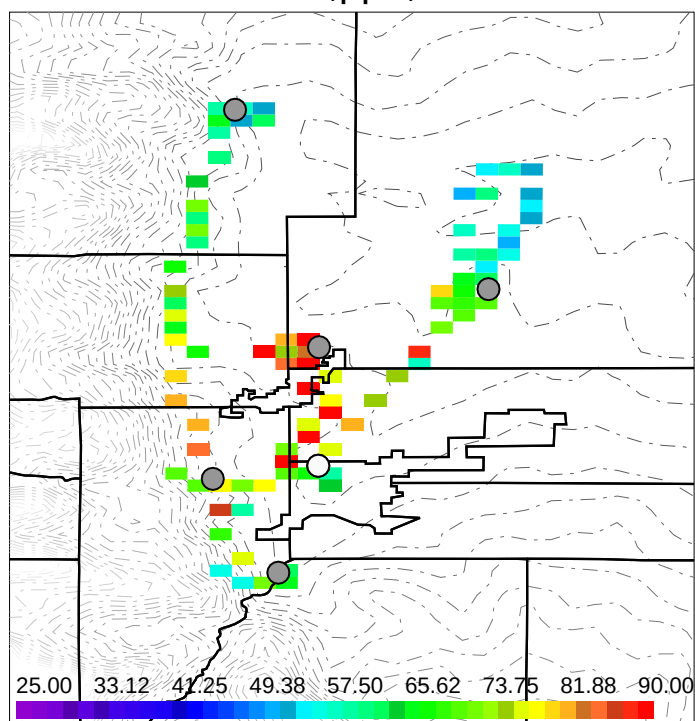


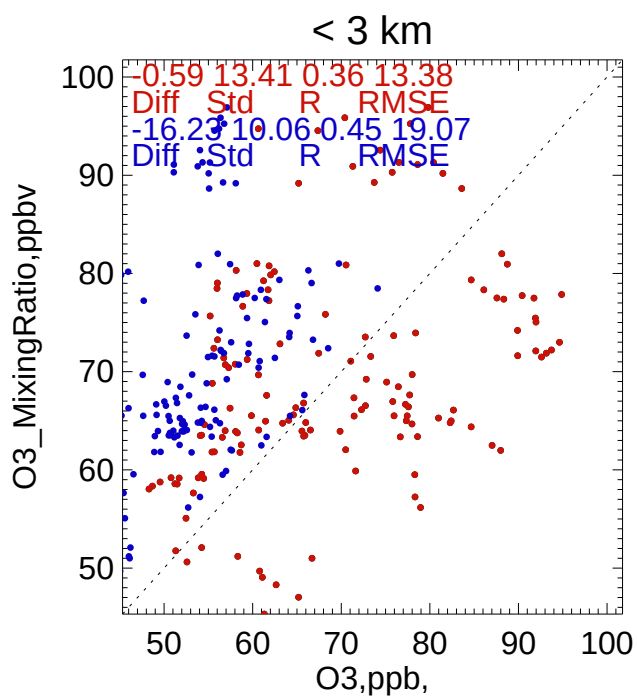
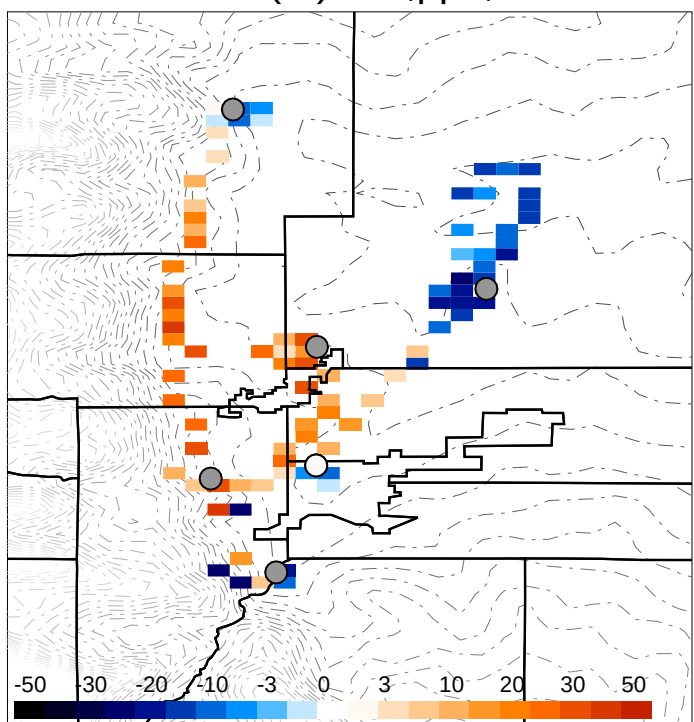
O3_MixingRatio,ppbv < 3 km



Model O3,ppb, < 3 km



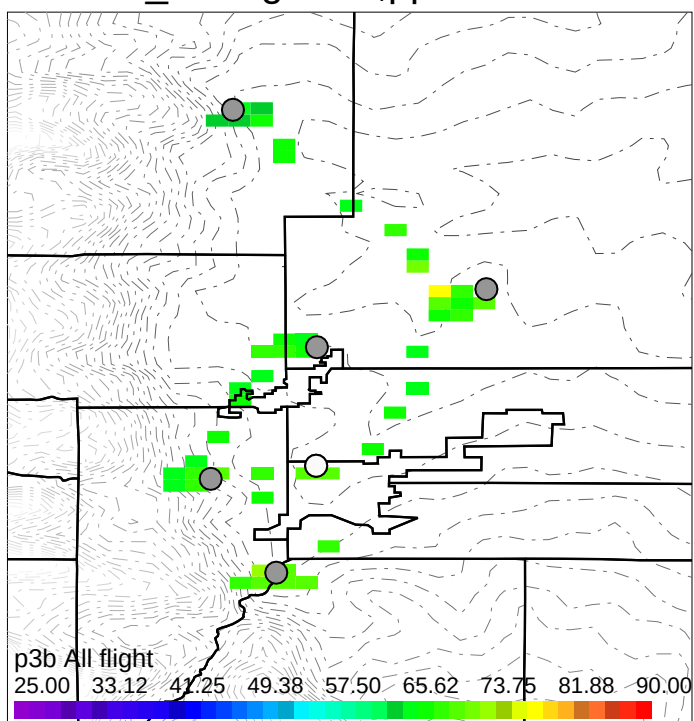
Model-Obs(%) O3,ppb, < 3 km



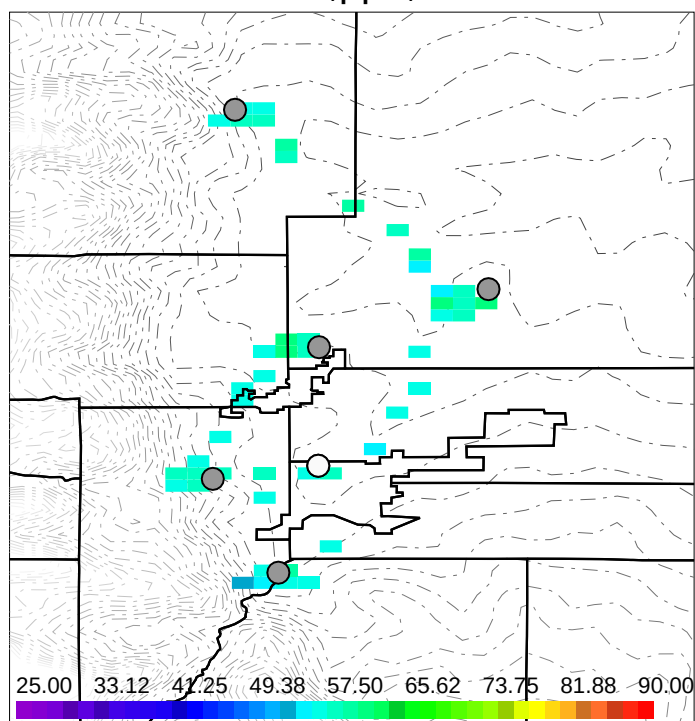
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

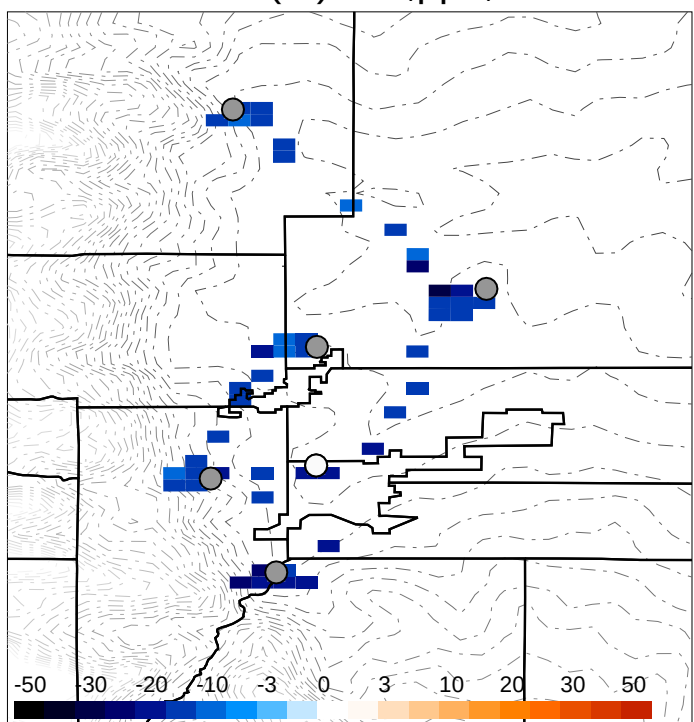
O3_MixingRatio,ppbv > 3 km



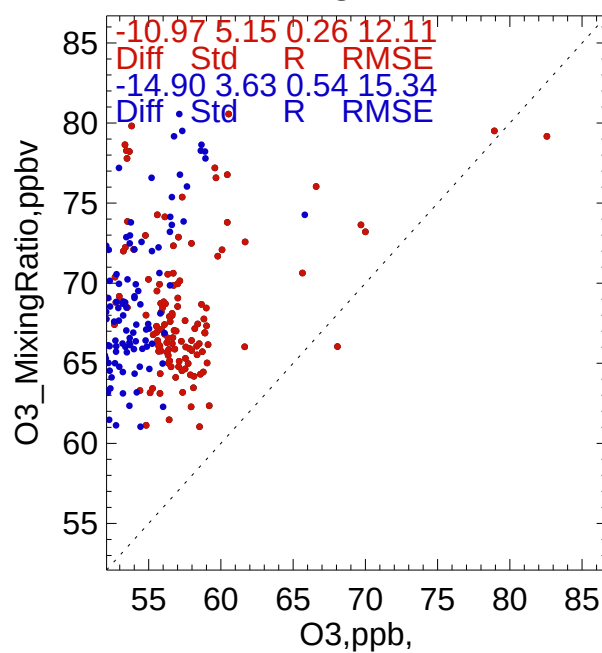
Model O3,ppb, > 3 km



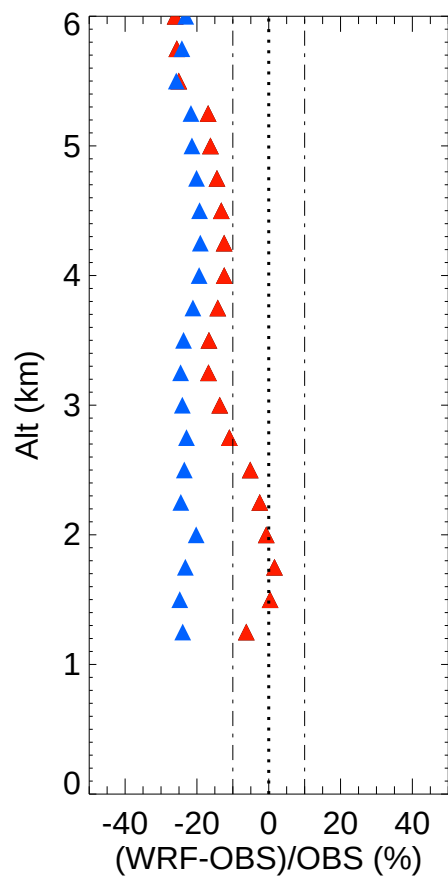
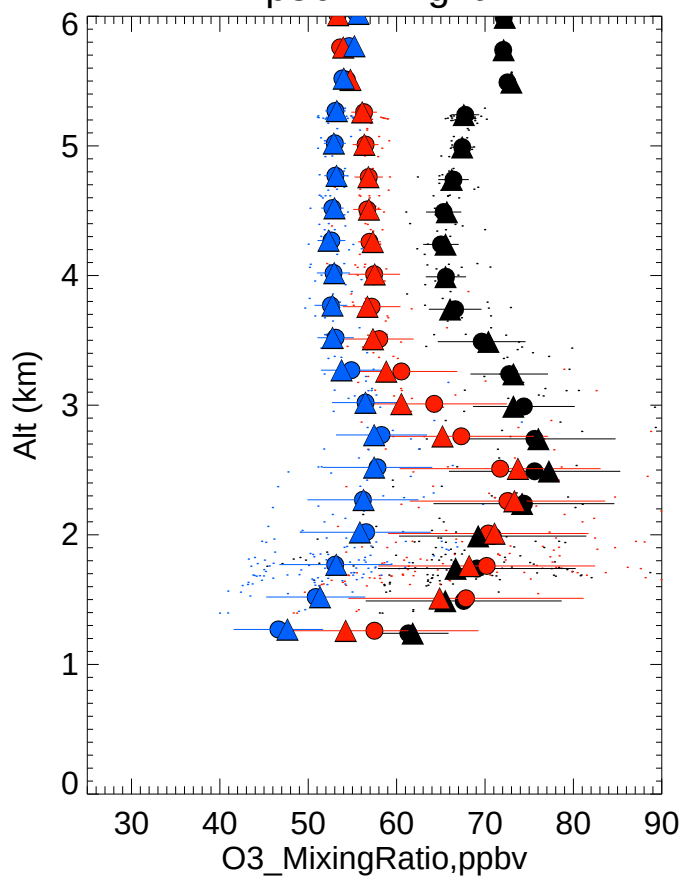
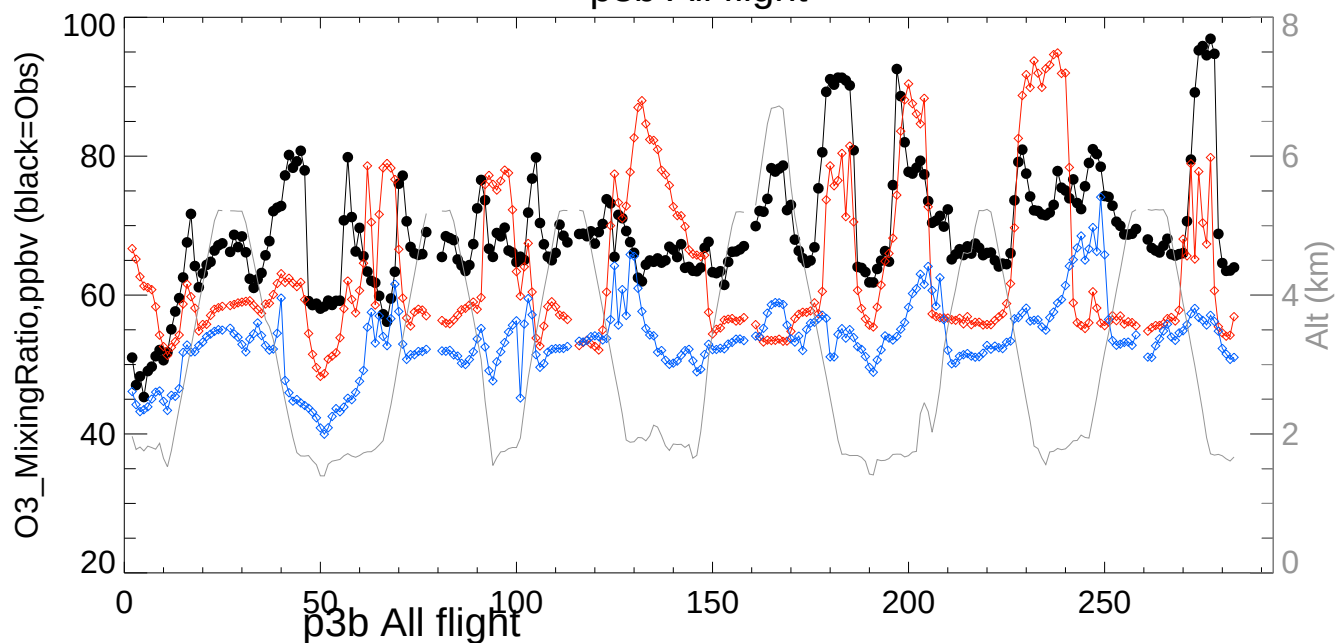
Model-Obs(%) O3,ppb, > 3 km



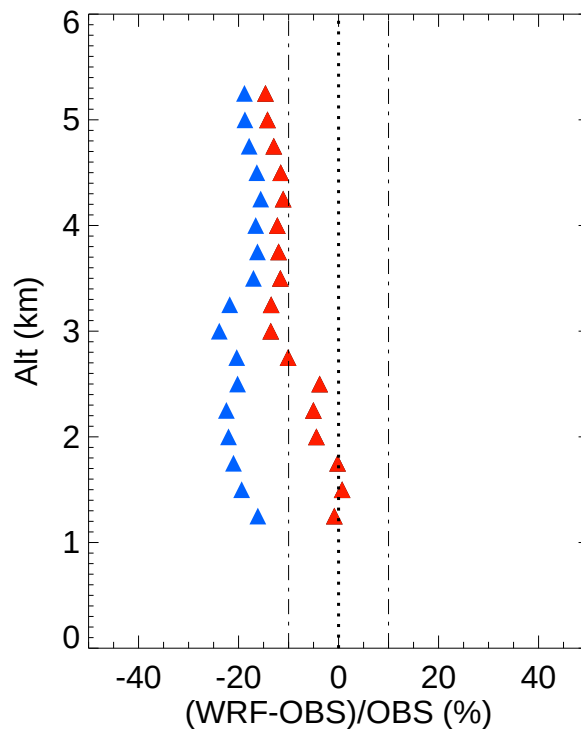
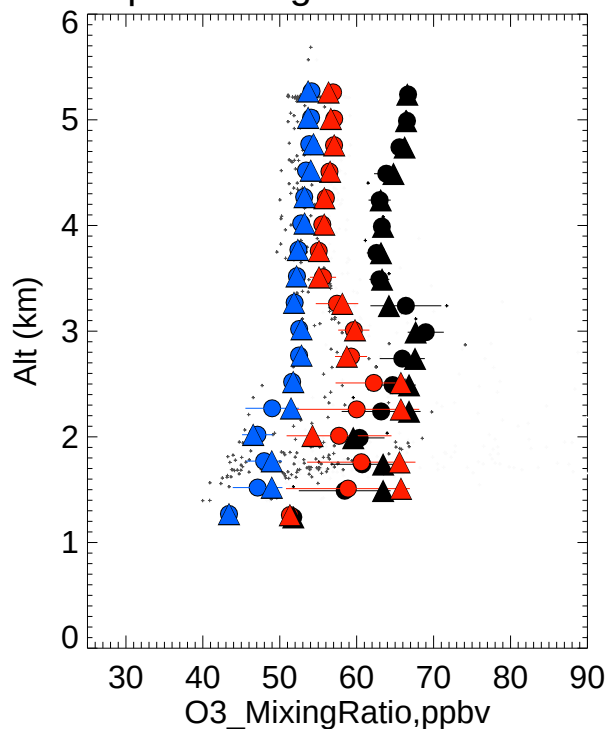
> 3 km



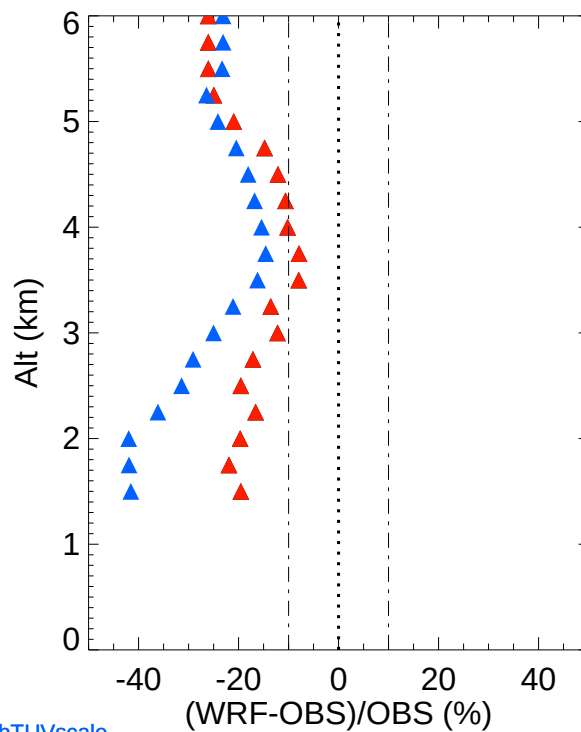
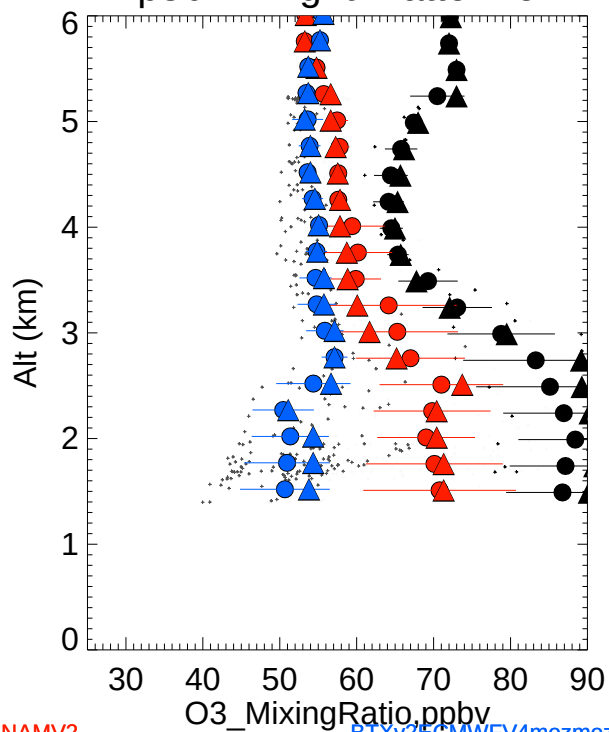
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight



p3b All flight FortCollins

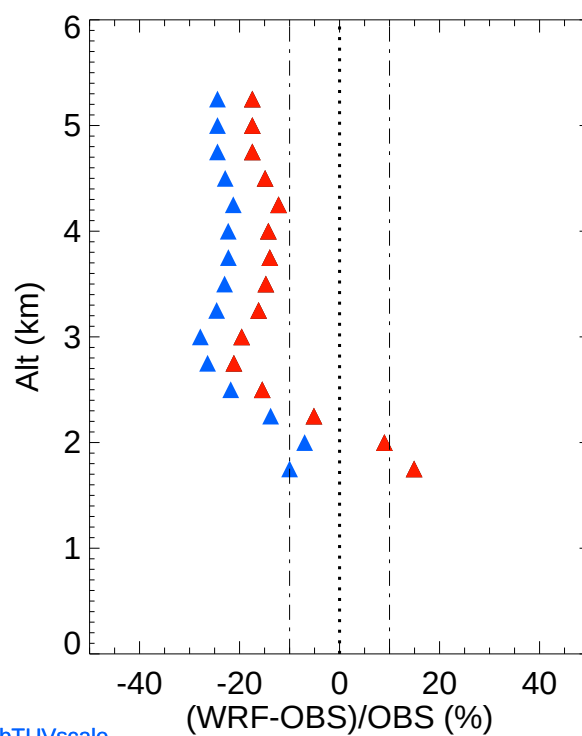
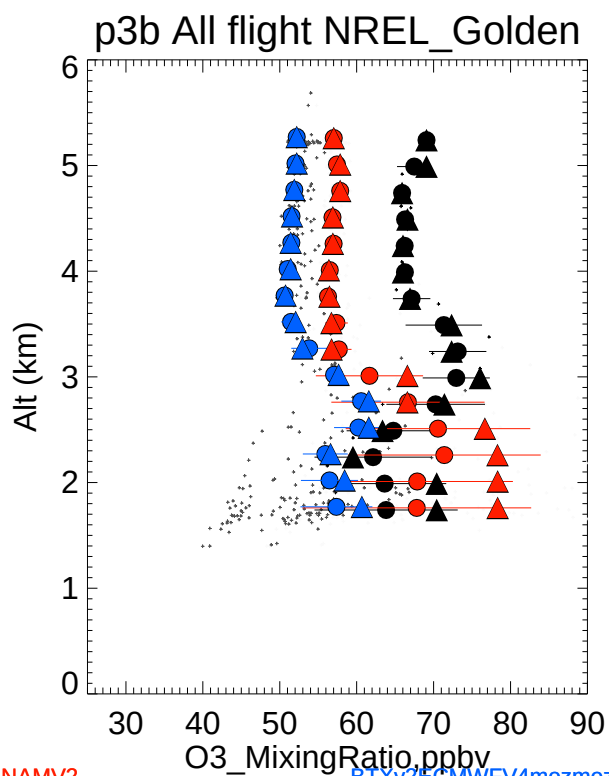
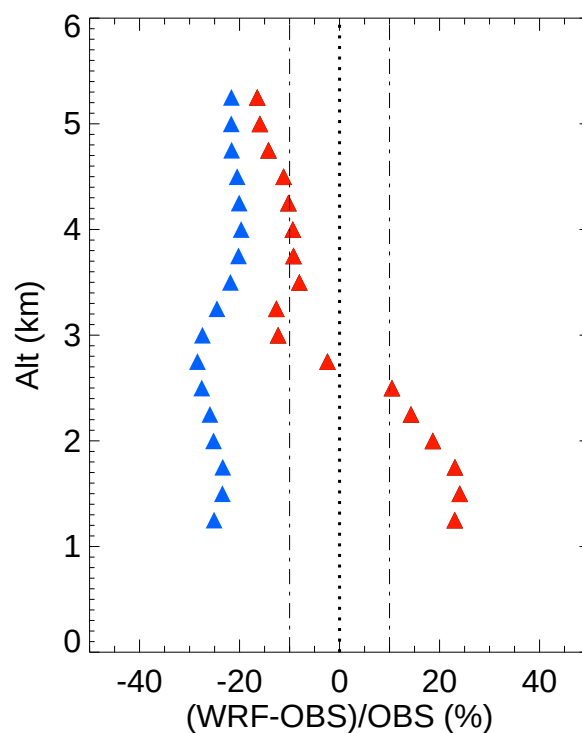
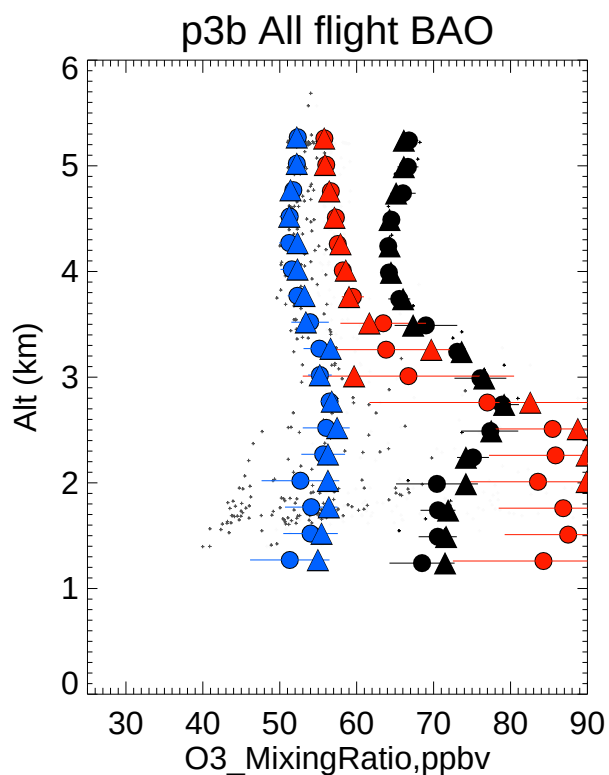


p3b All flight Platteville



BTXv2NAMV2-

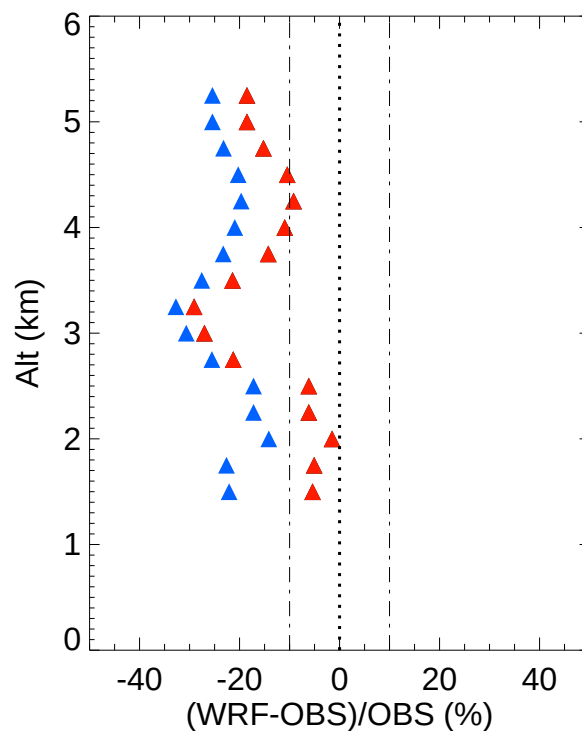
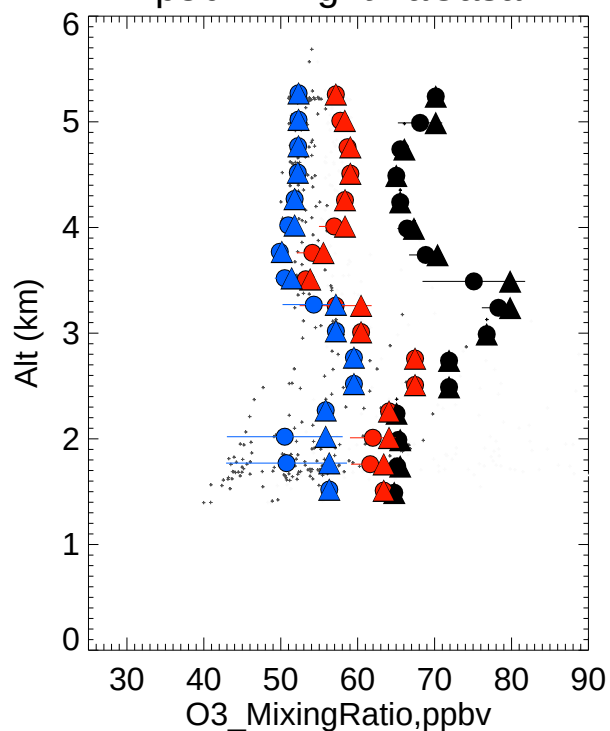
BTXv2ECMWFV4mozaicRedMobTUVscale-



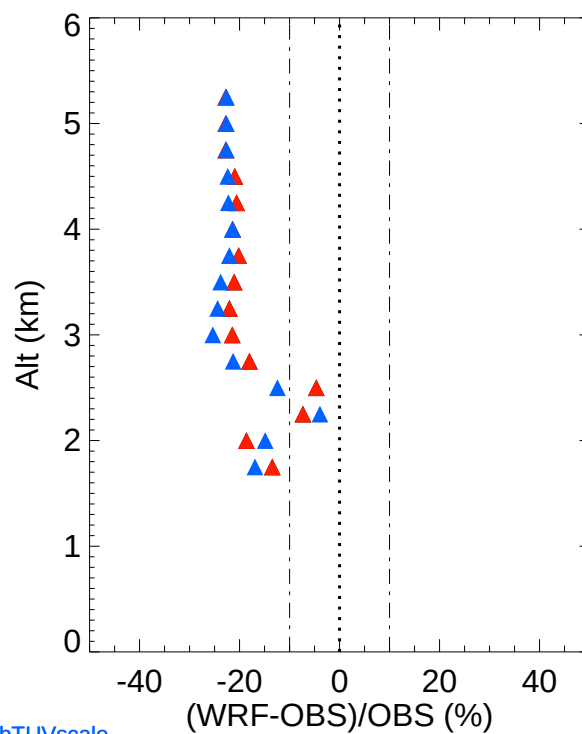
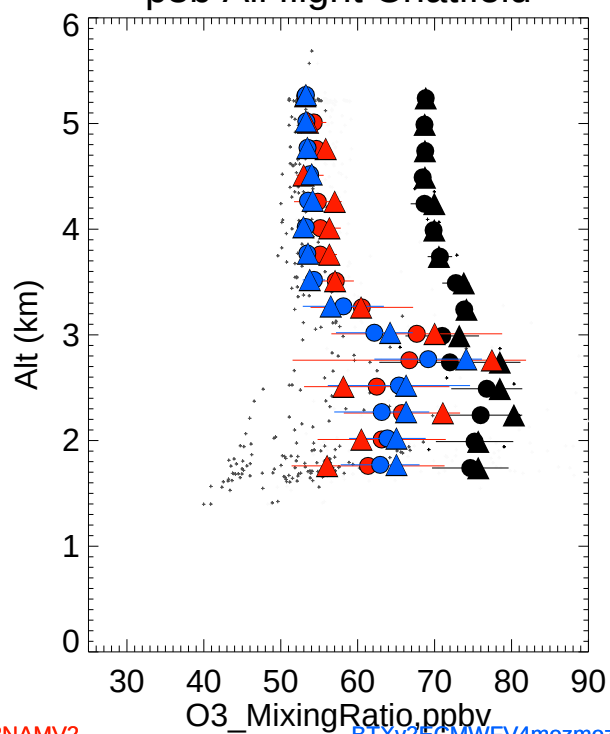
BTXv2NAMV2-

BTXv2ECMWFV4mozmosaicRedMobTUVscale-

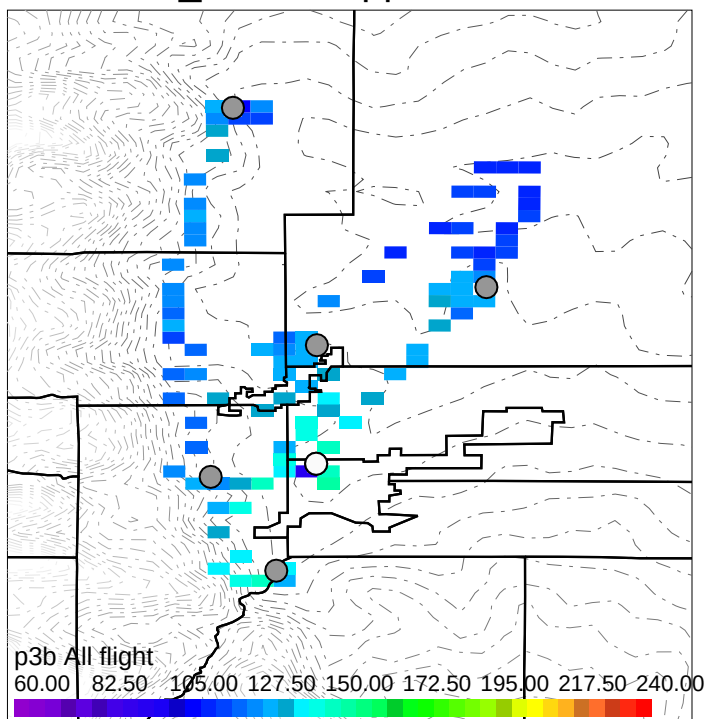
p3b All flight LaCasa



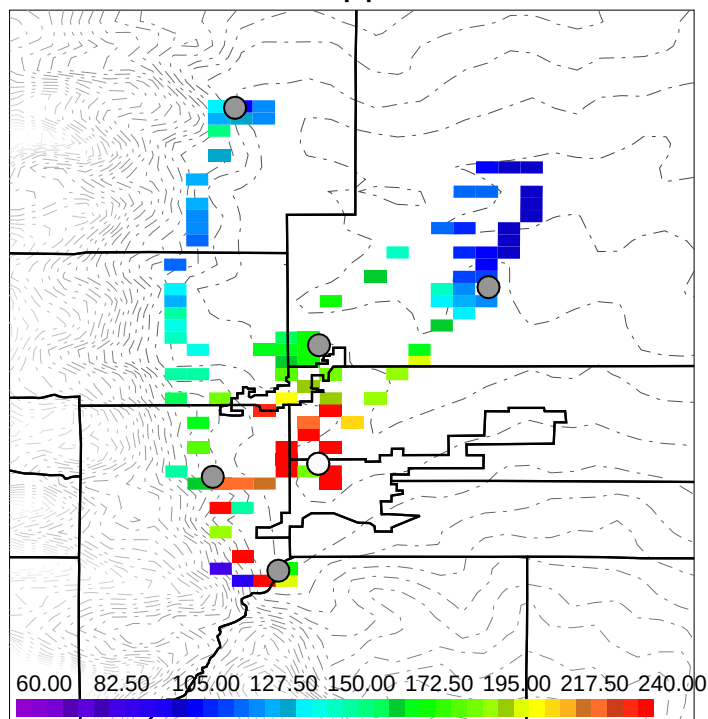
p3b All flight Chatfield



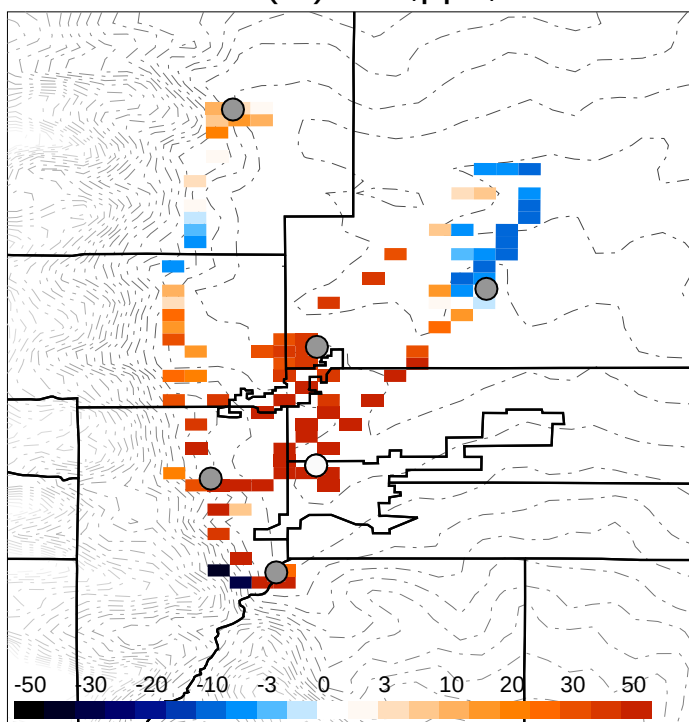
CO_DACOM,ppbv < 3 km



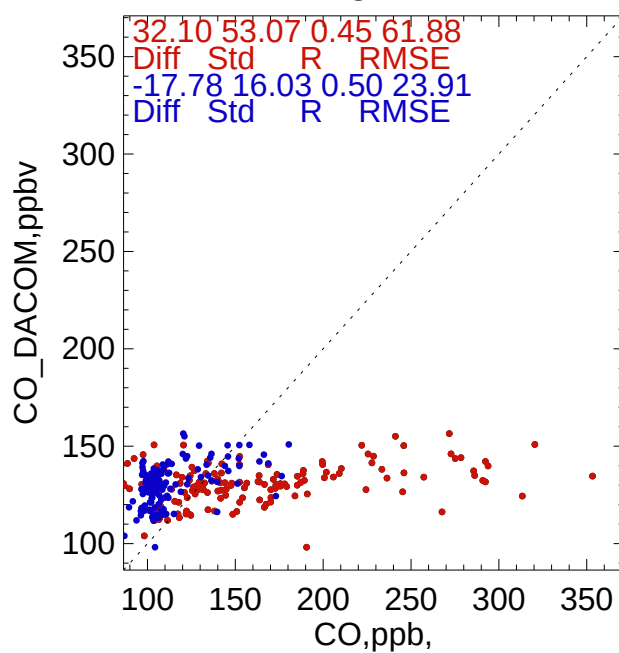
Model CO,ppb, < 3 km



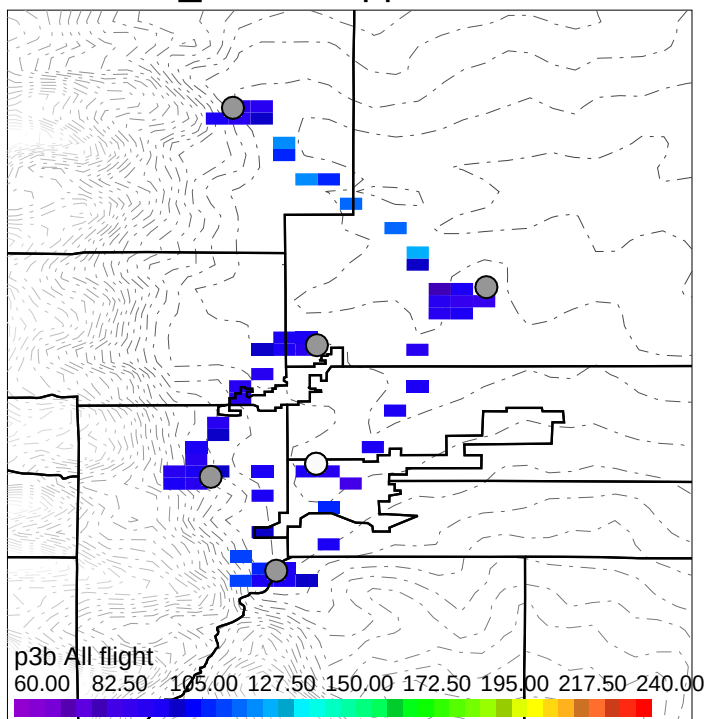
Model-Obs(%) CO,ppb, < 3 km



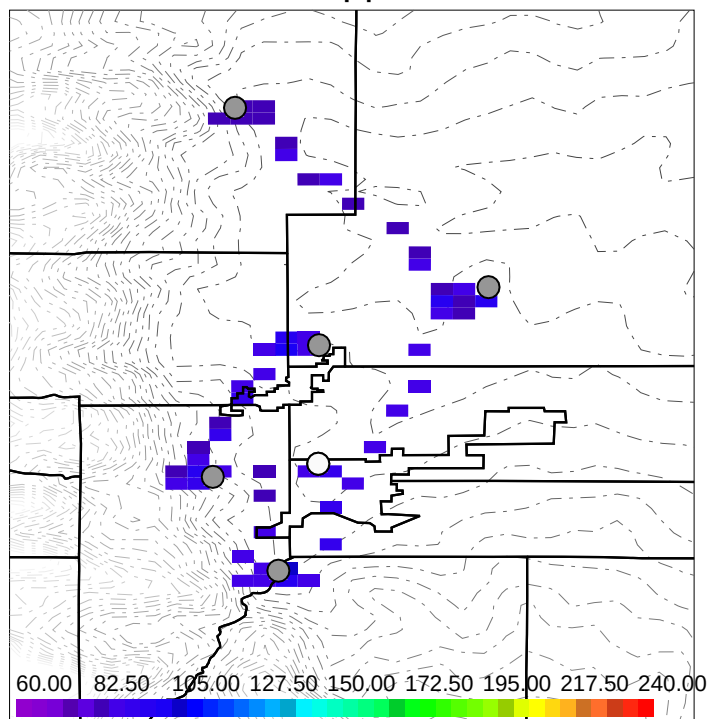
< 3 km



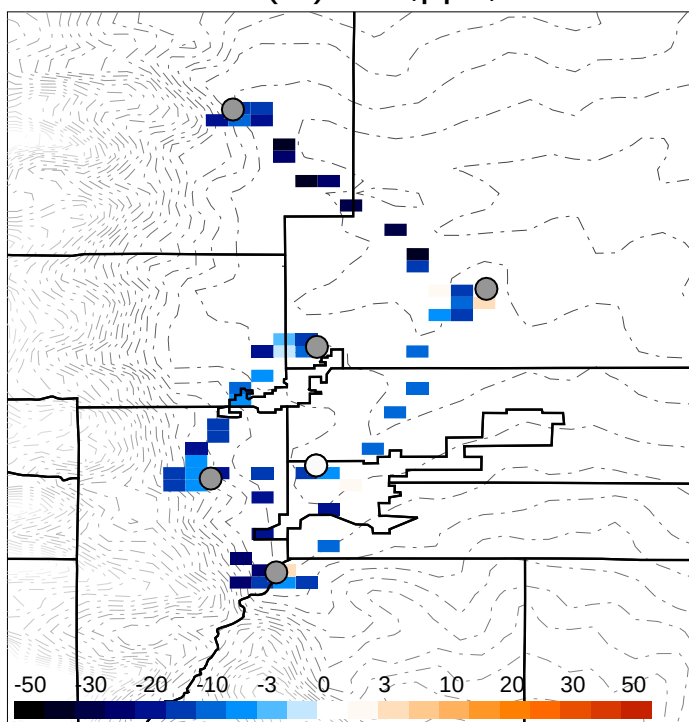
CO_DACOM,ppbv > 3 km



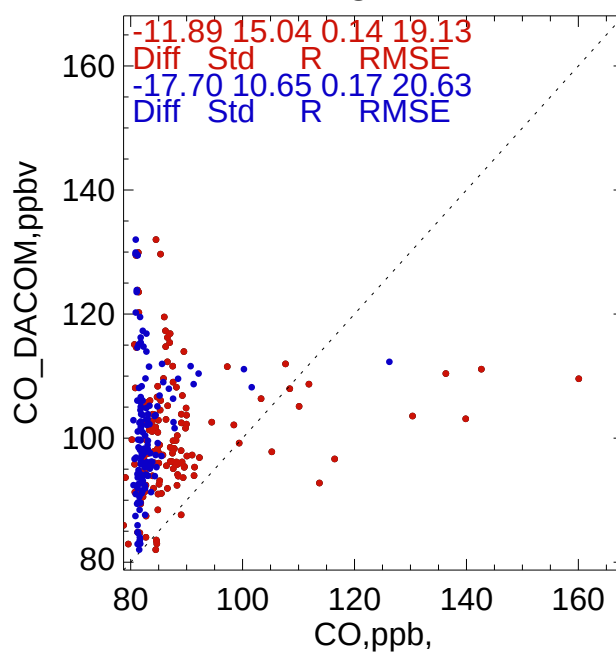
Model CO,ppb, > 3 km



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



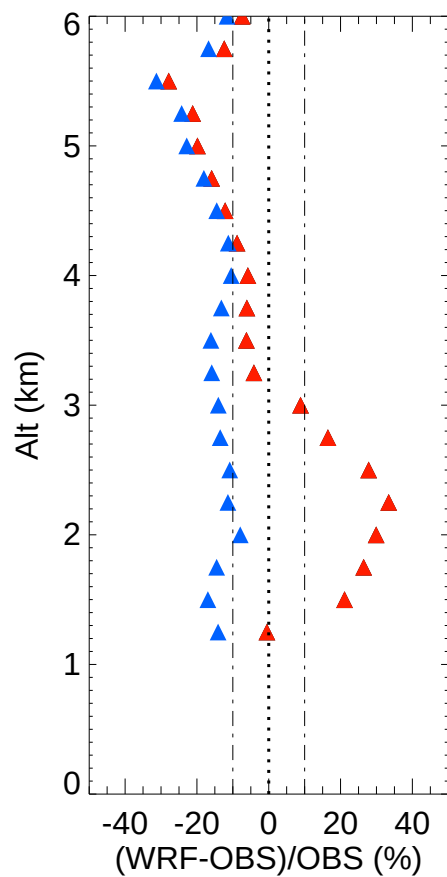
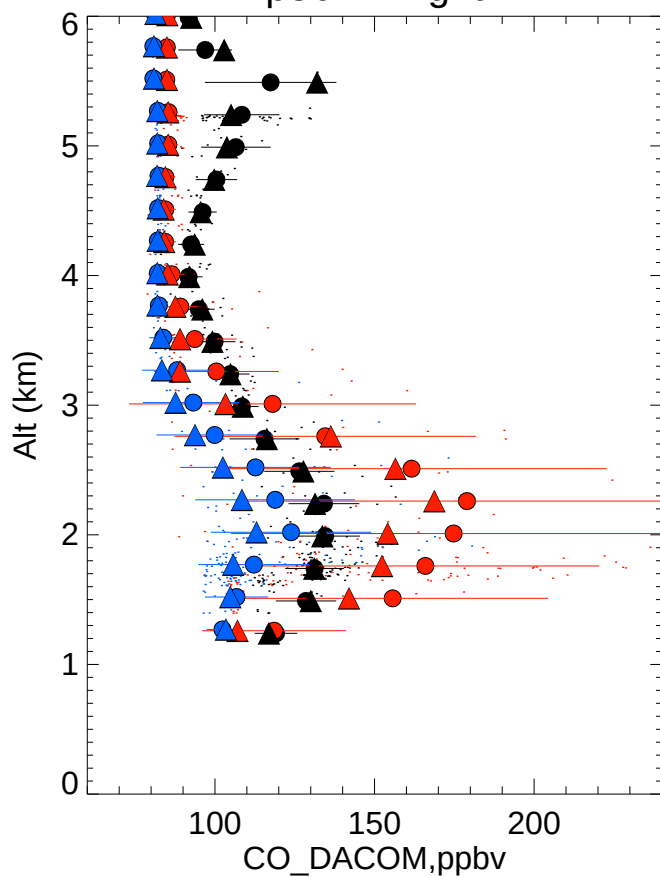
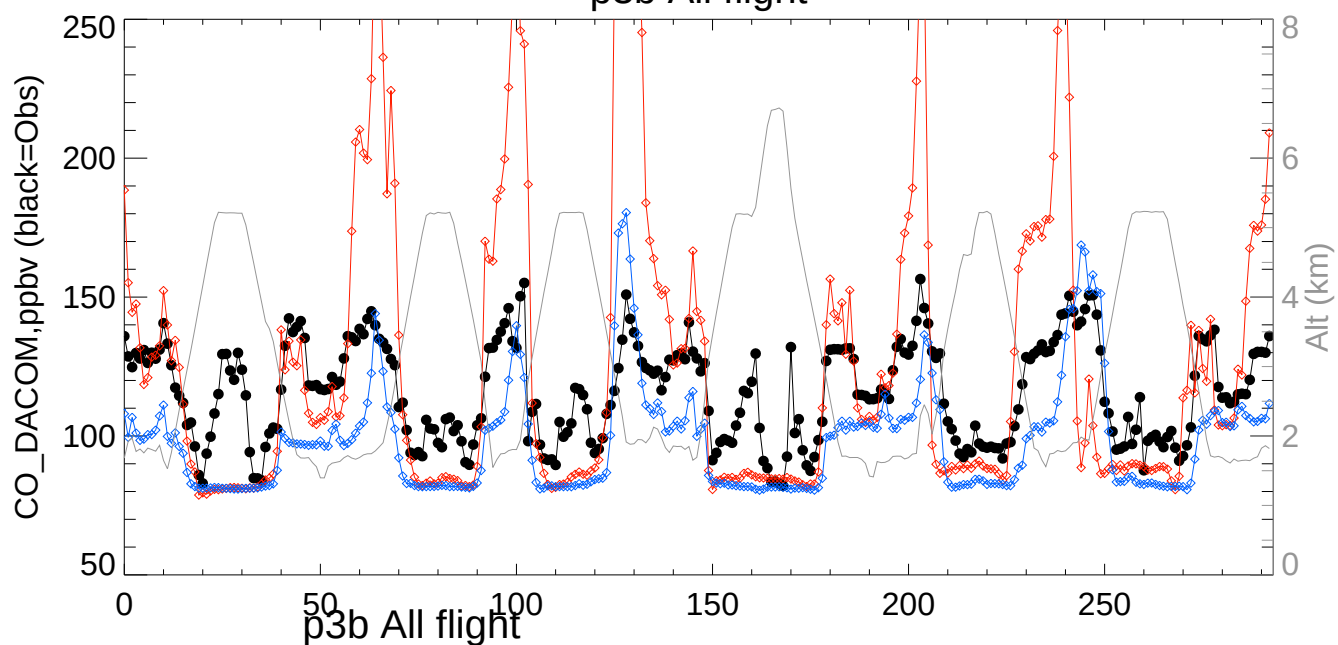
> 3 km



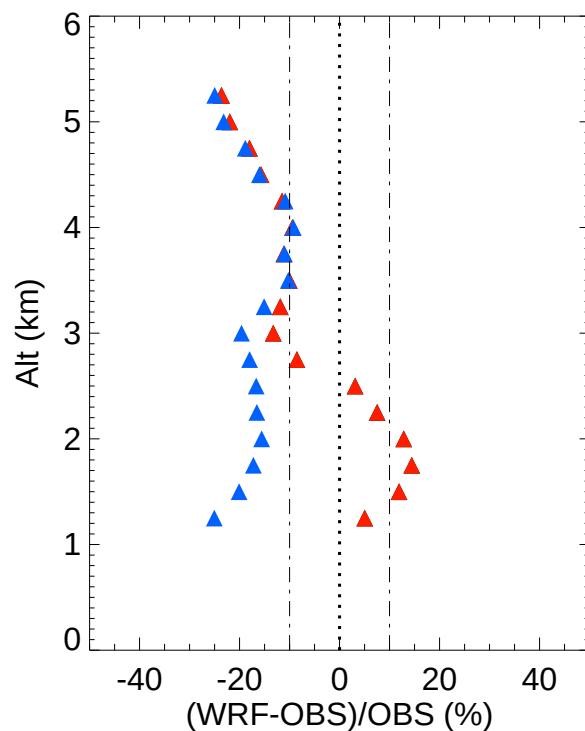
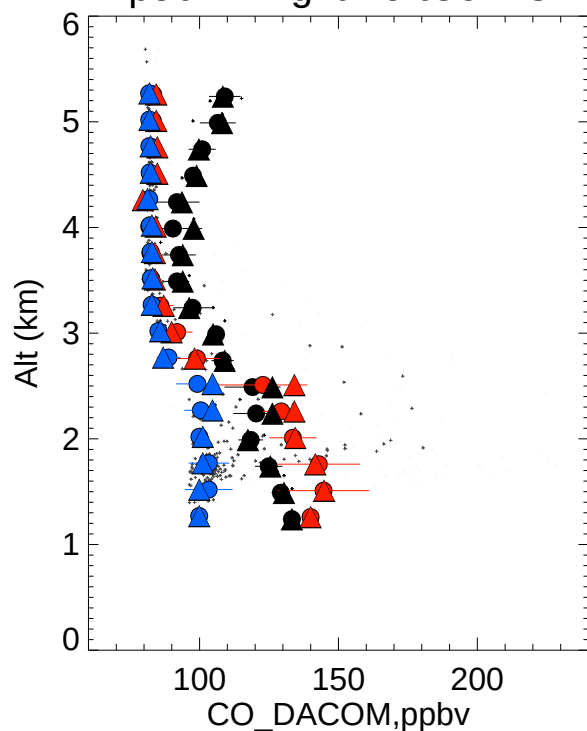
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

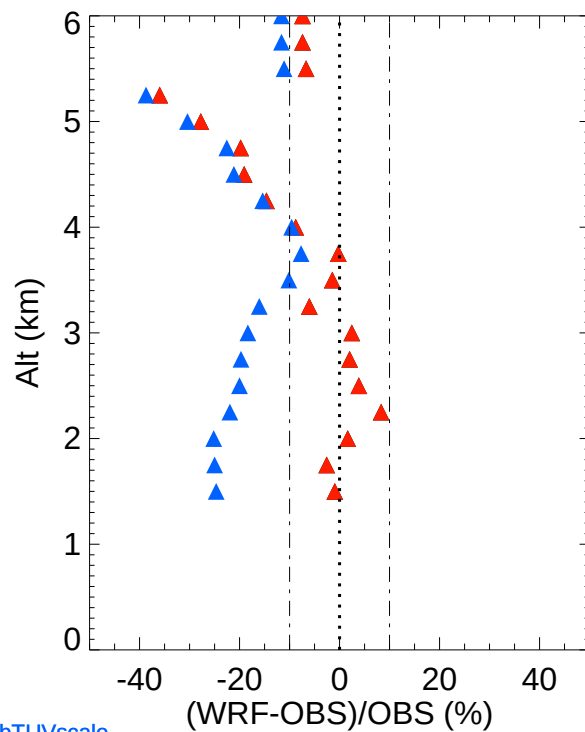
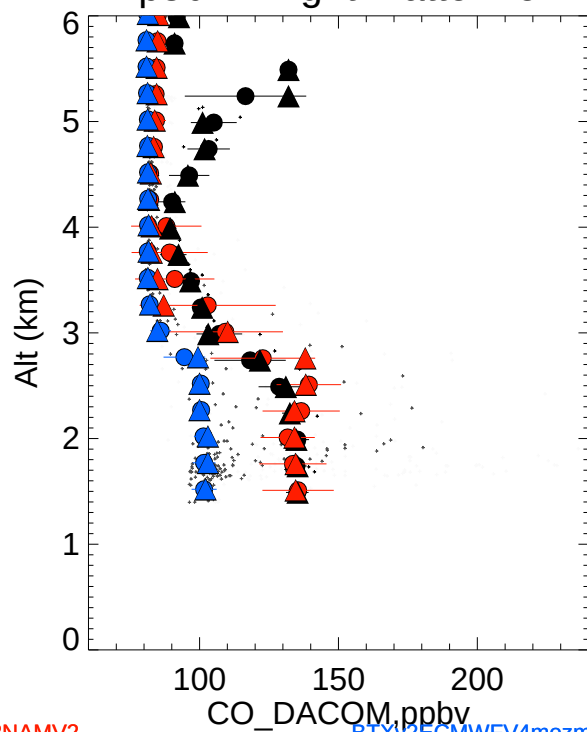
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight

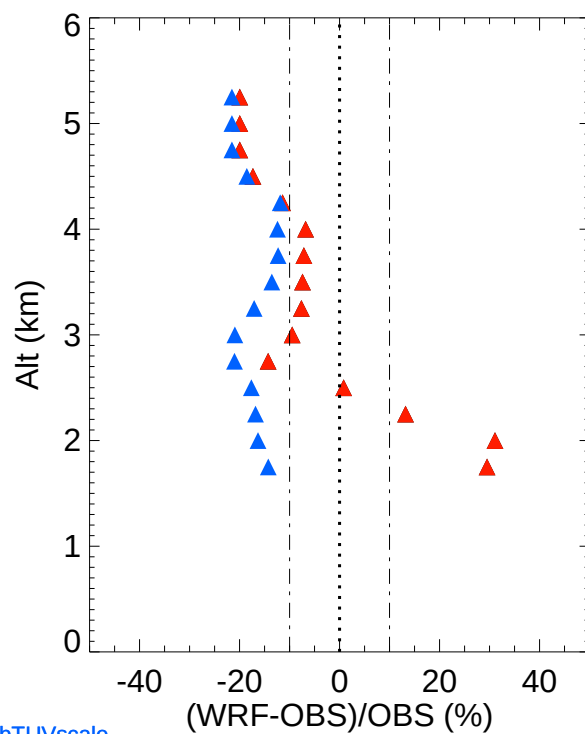
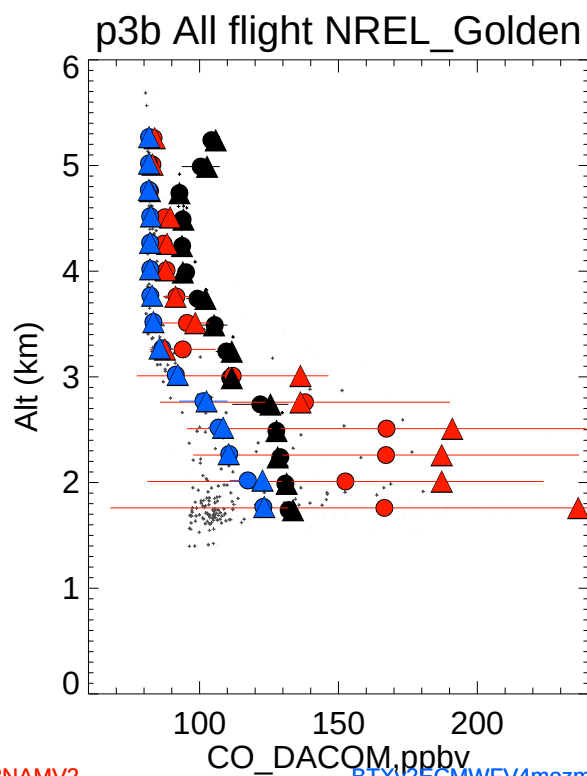
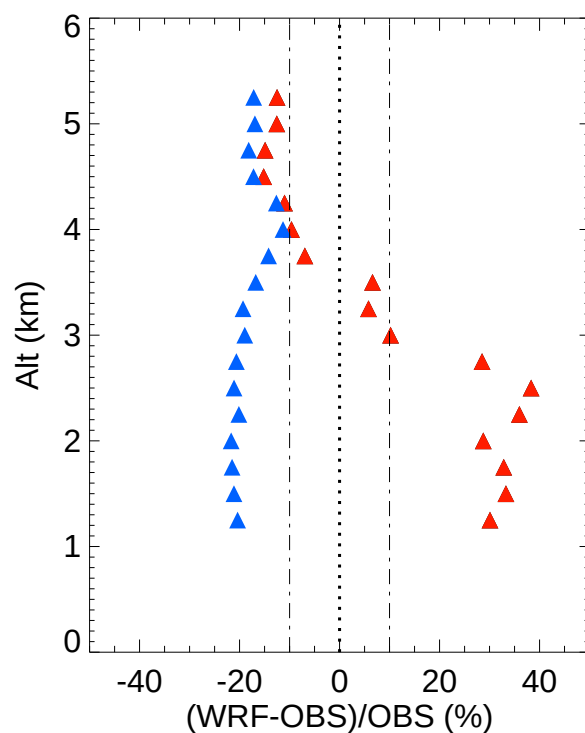
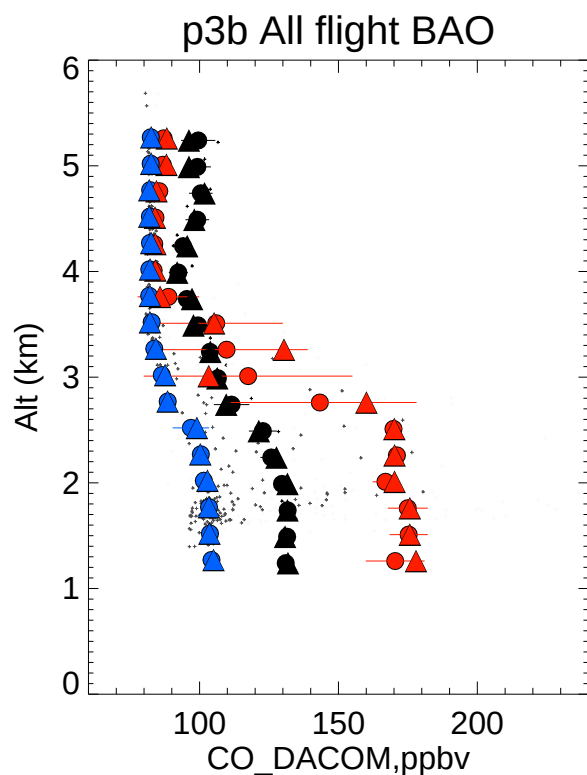


p3b All flight FortCollins



p3b All flight Platteville

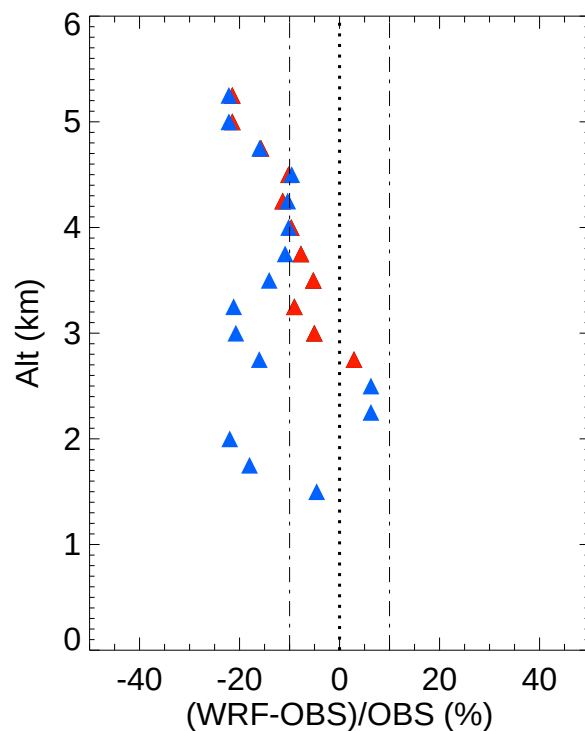
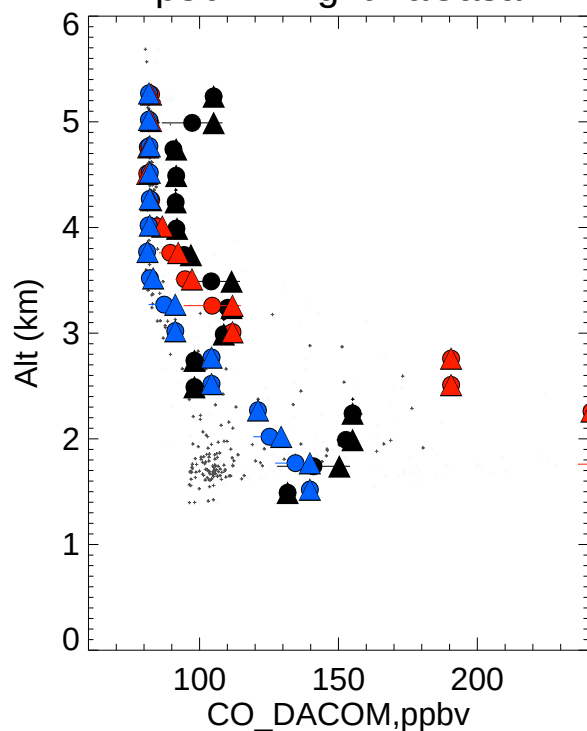




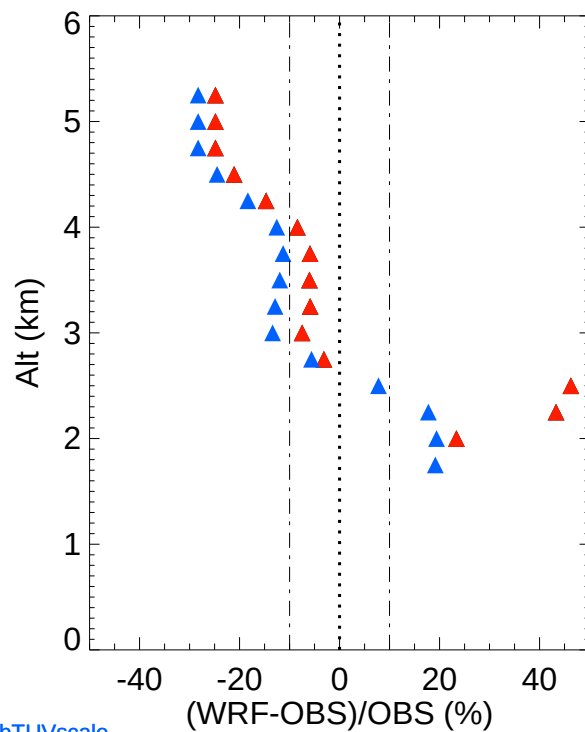
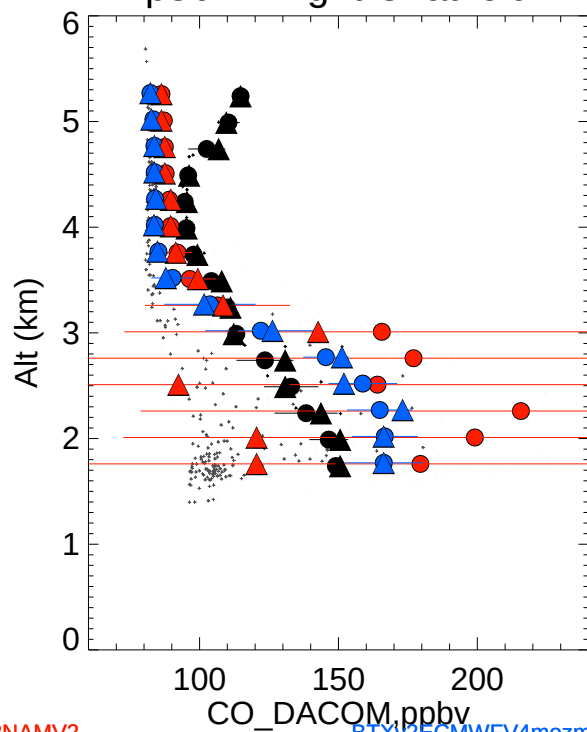
BTXv2NAMV2-

BTXv2ECMWFV4mozm

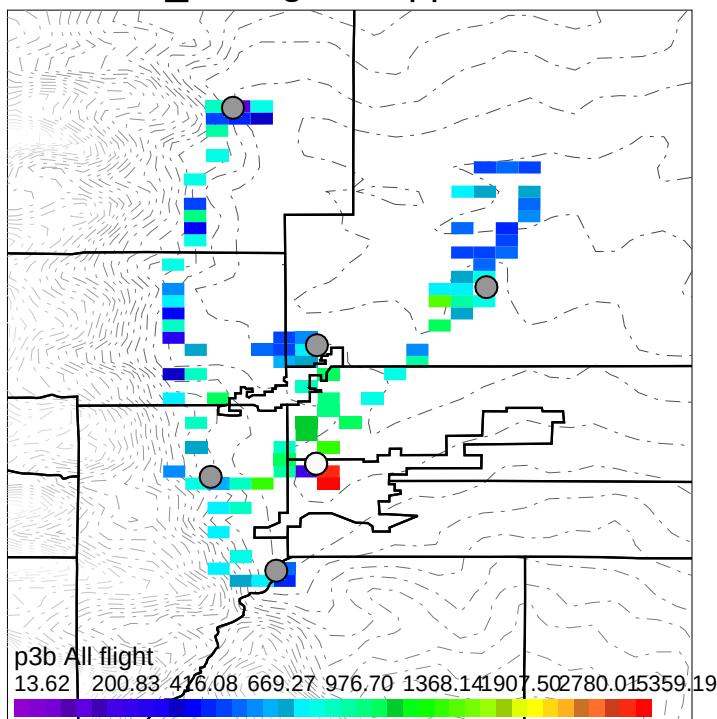
p3b All flight LaCasa



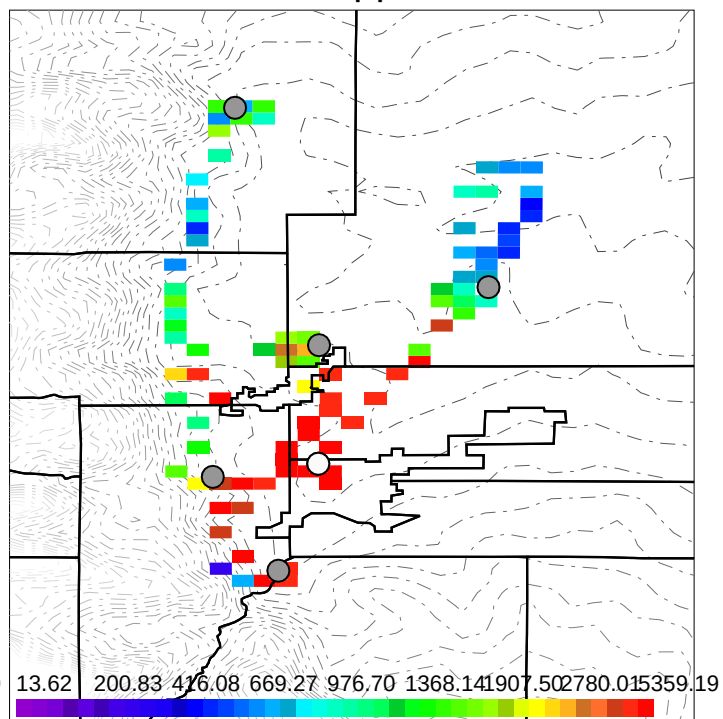
p3b All flight Chatfield



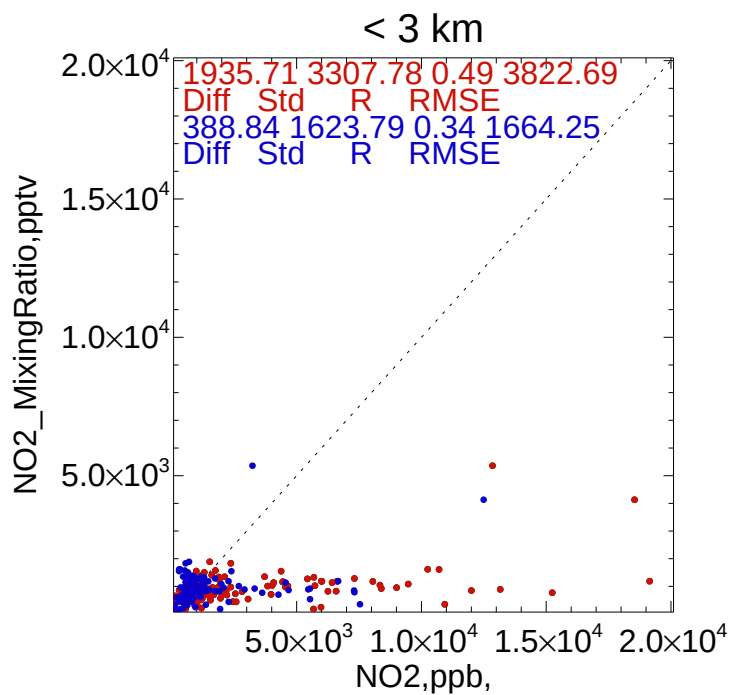
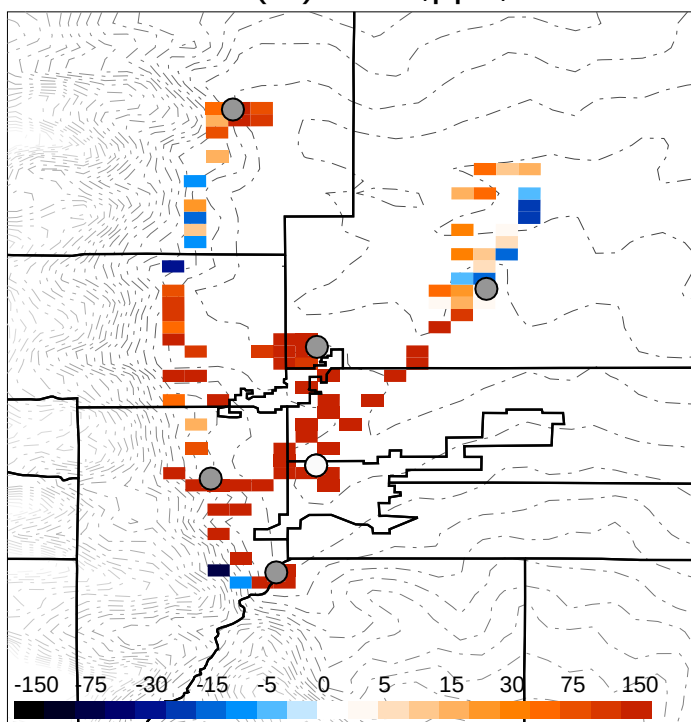
NO2_MixingRatio,pptv < 3 km



Model NO2,ppb, < 3 km



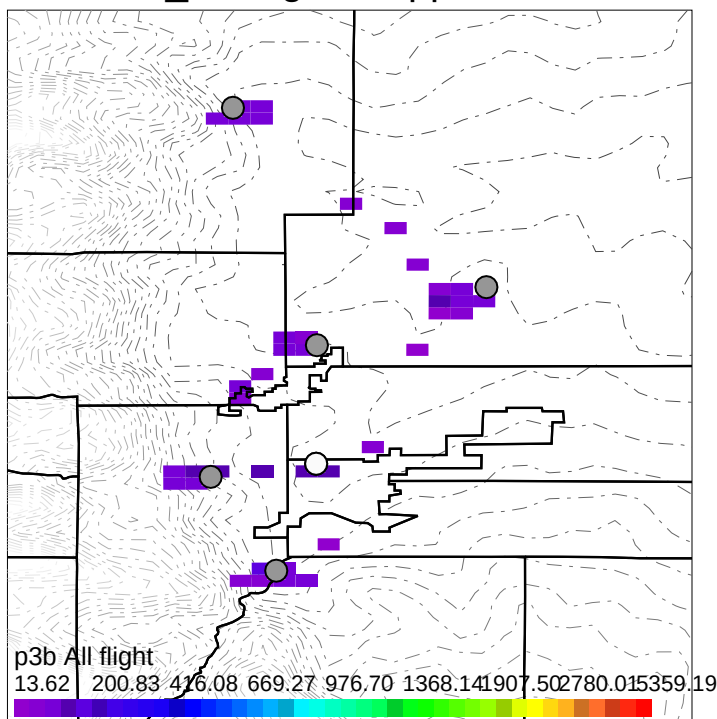
Model-Obs(%) NO2,ppb, < 3 km



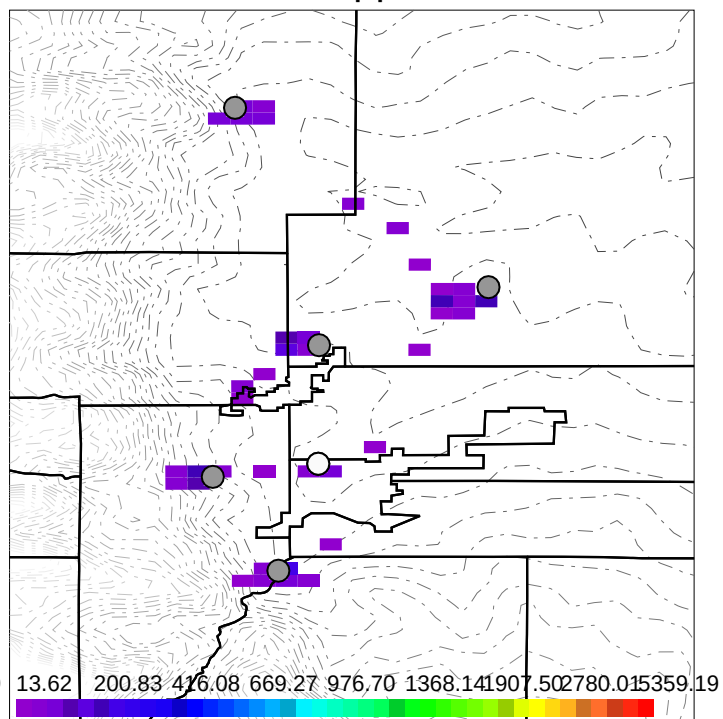
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

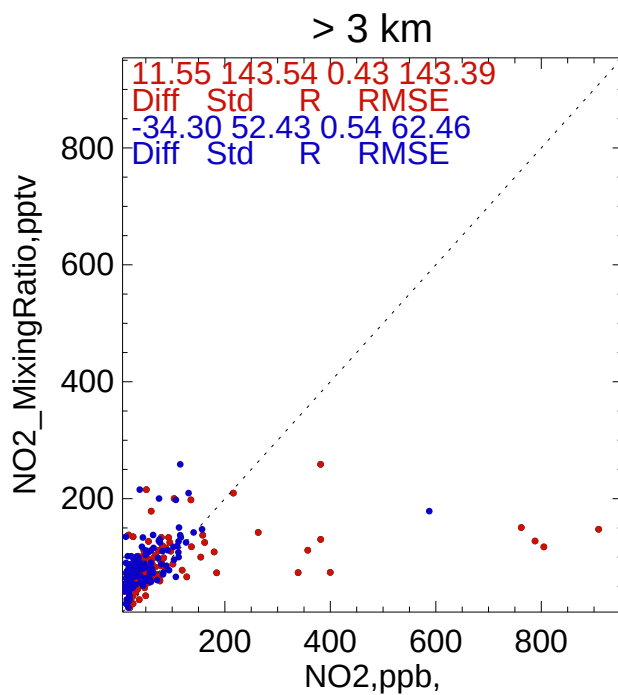
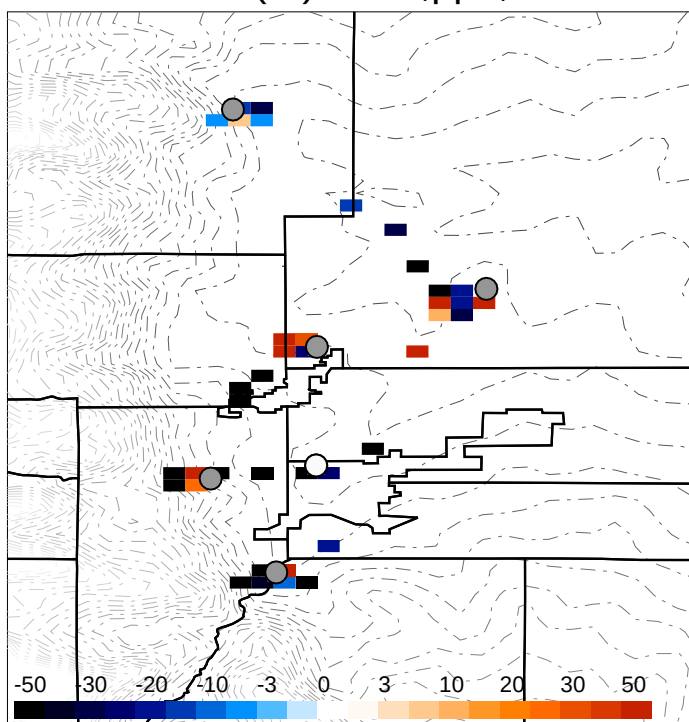
NO2_MixingRatio,pptv > 3 km



Model NO2,ppb, > 3 km

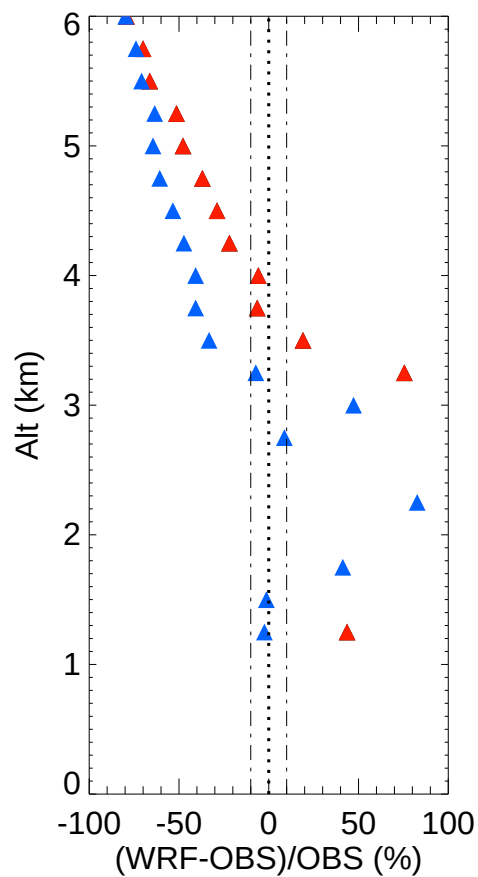
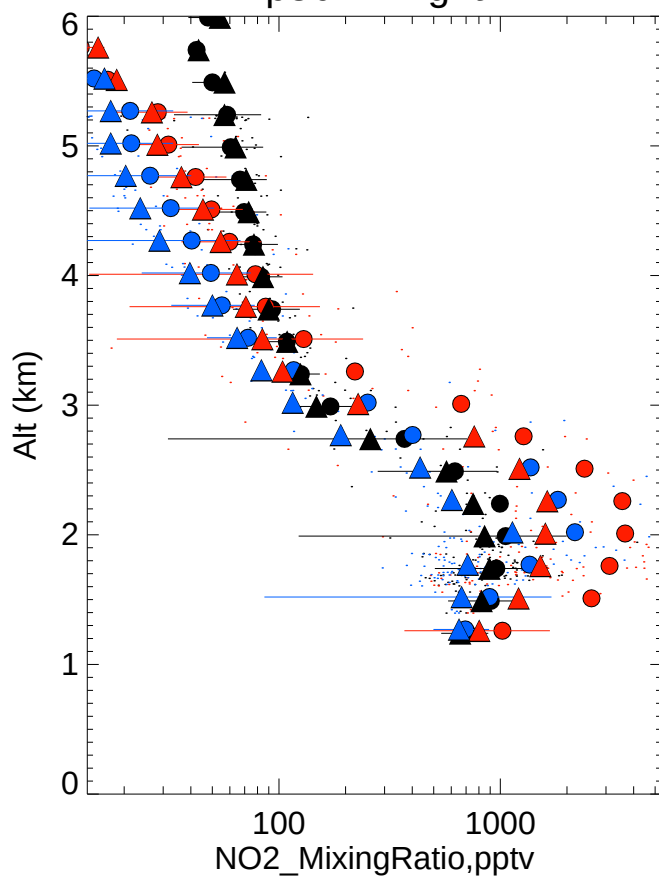
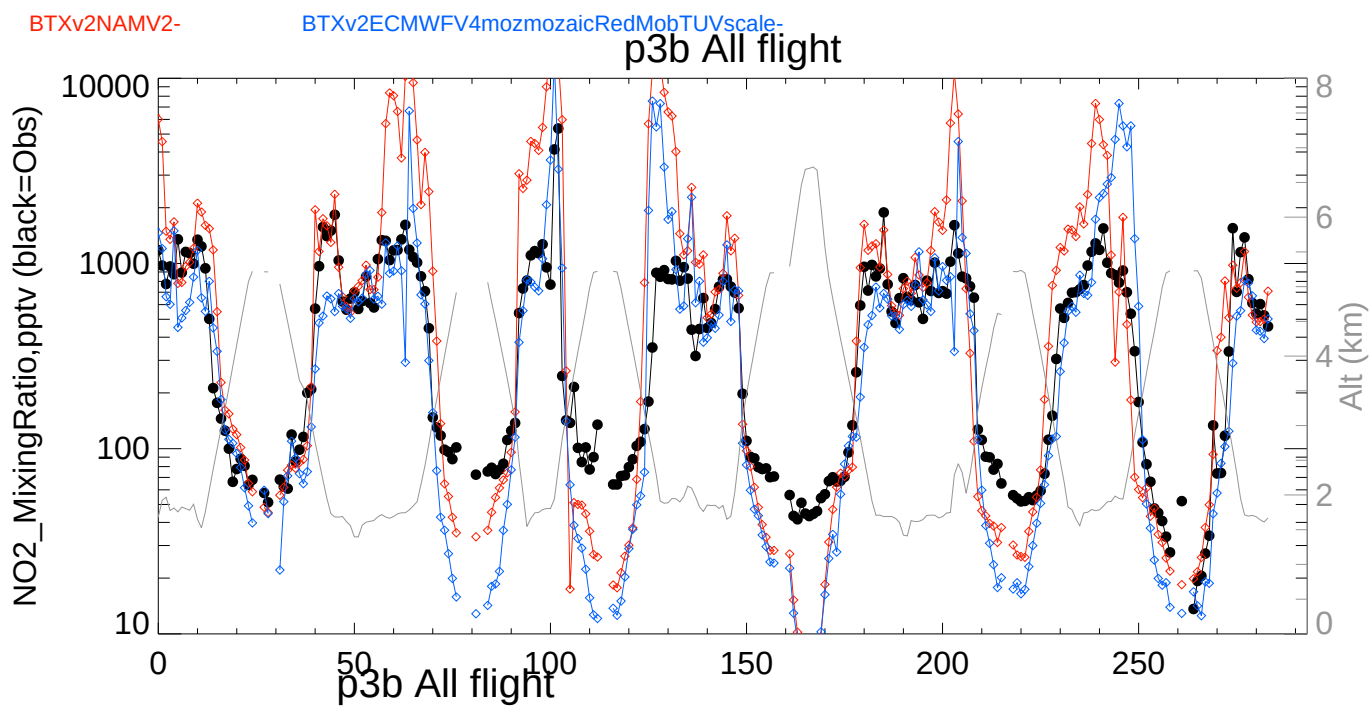


Model-Obs(%) NO2,ppb, > 3 km

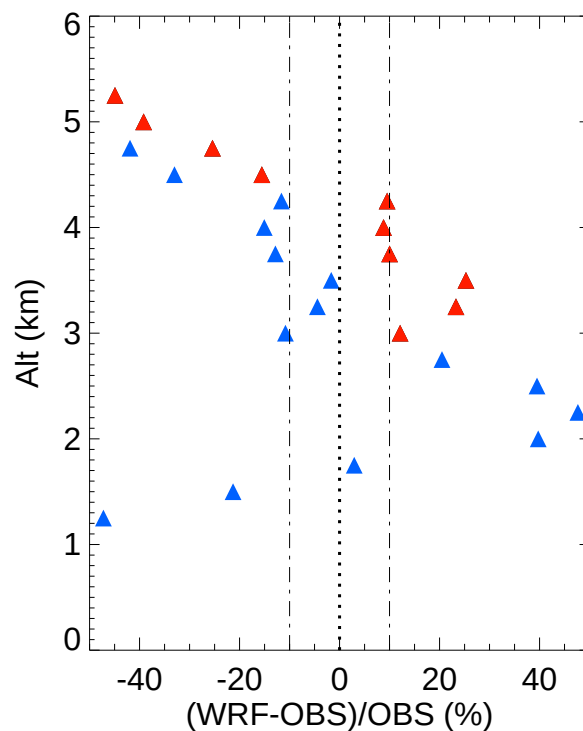
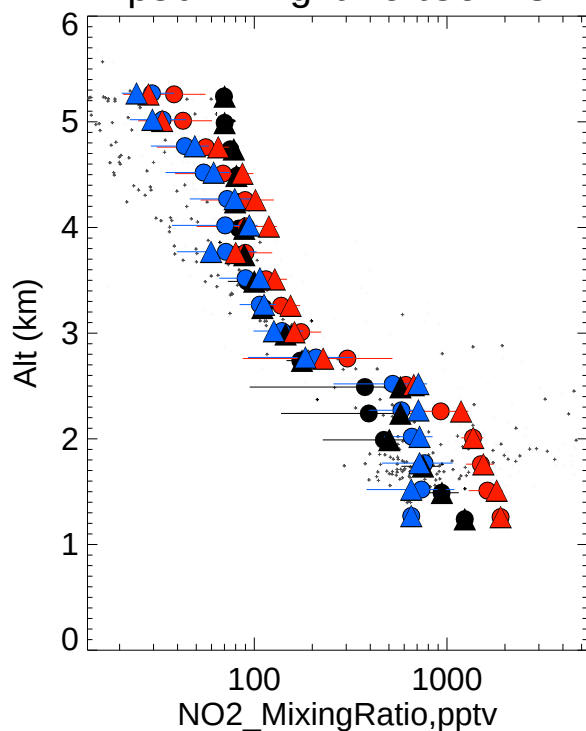


BTXv2NAMV2-

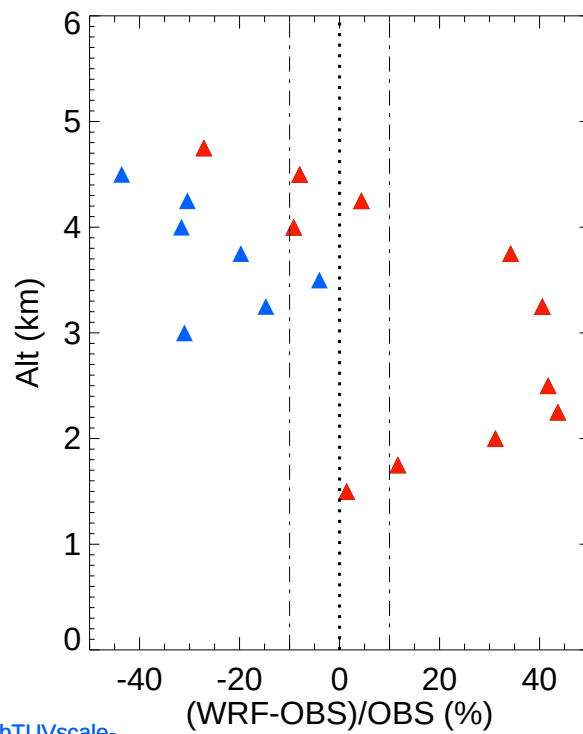
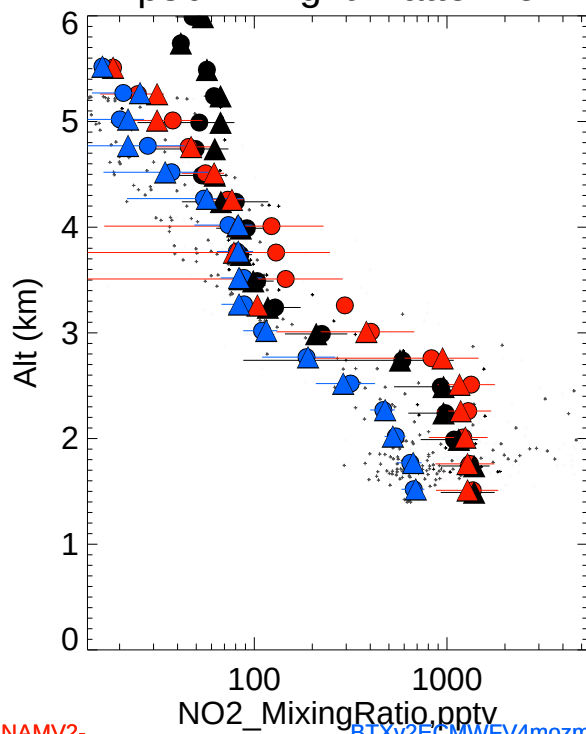
BTXv2ECMWFV4mozmoz

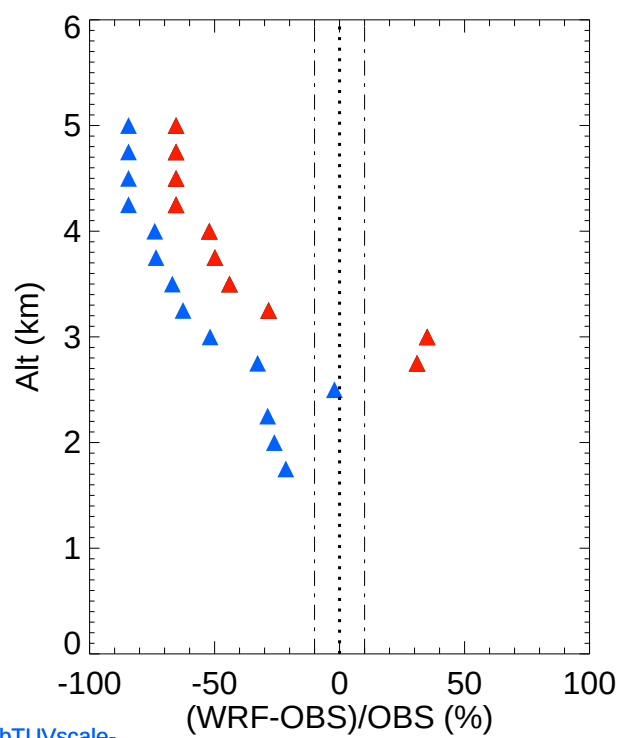
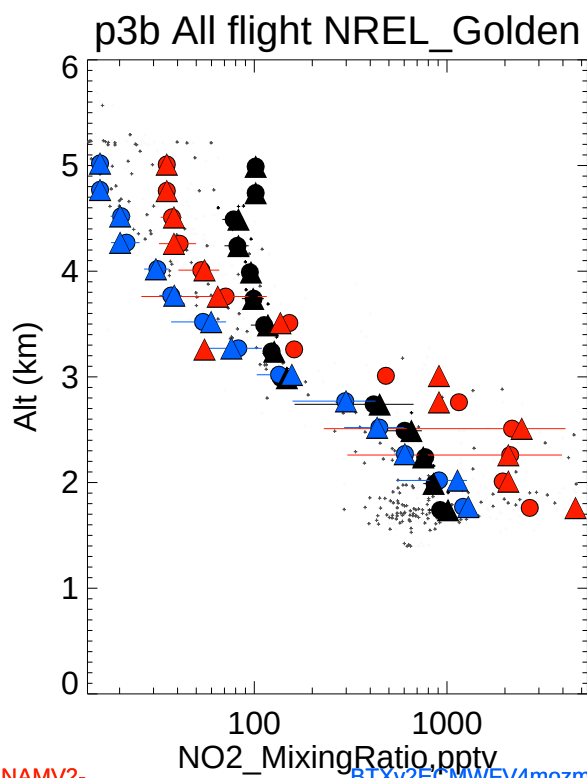
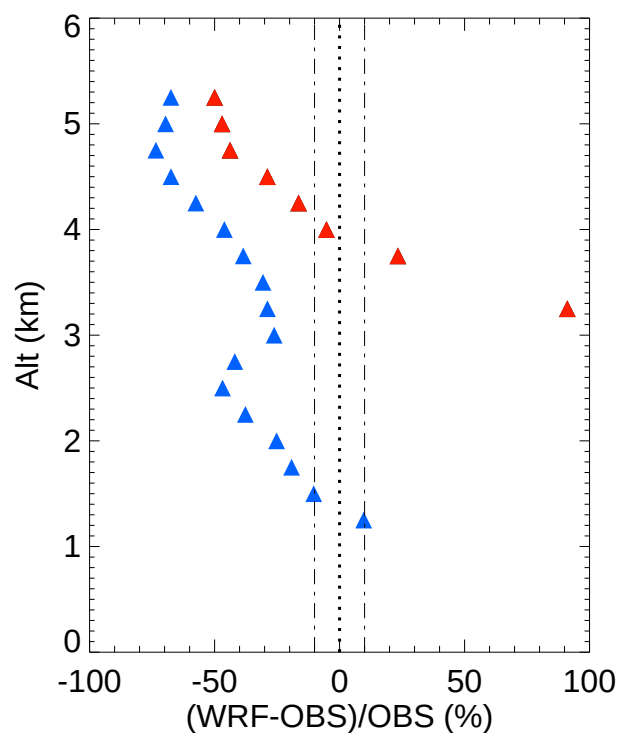
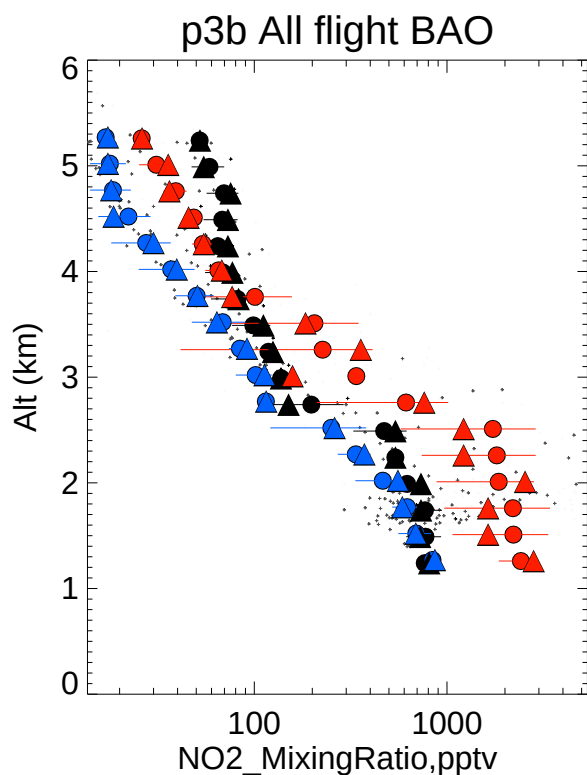


p3b All flight FortCollins



p3b All flight Platteville

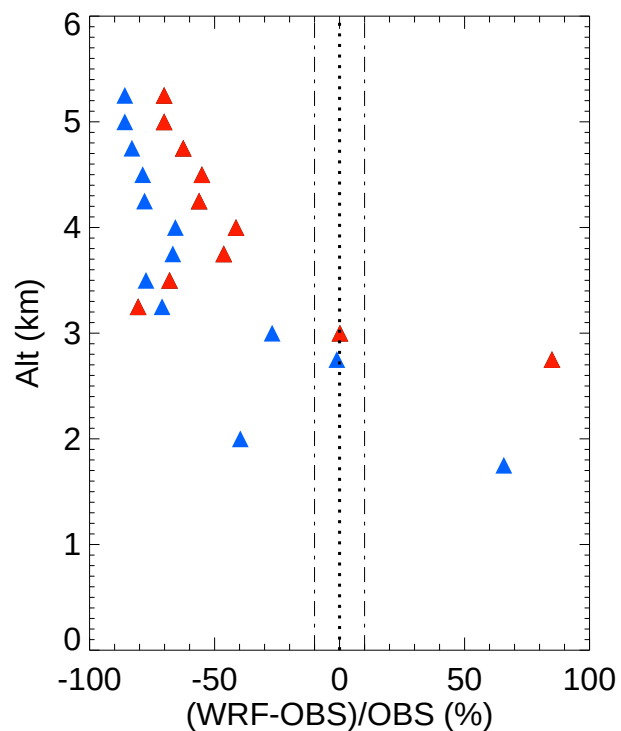
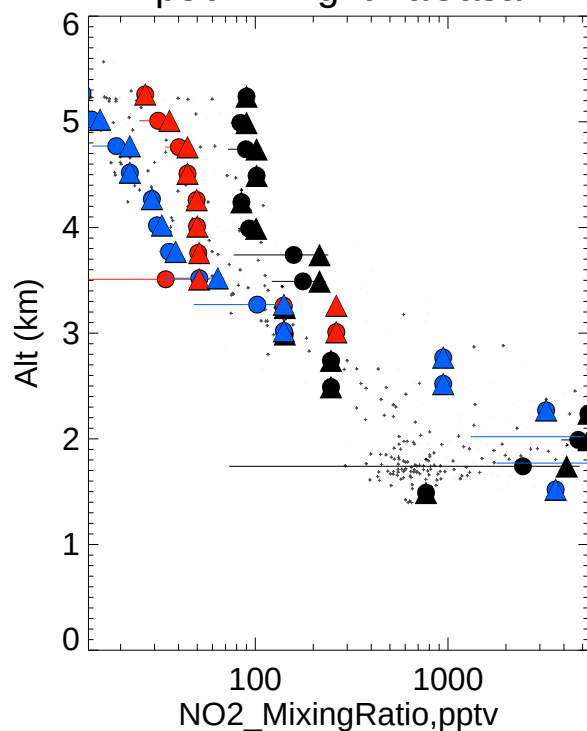




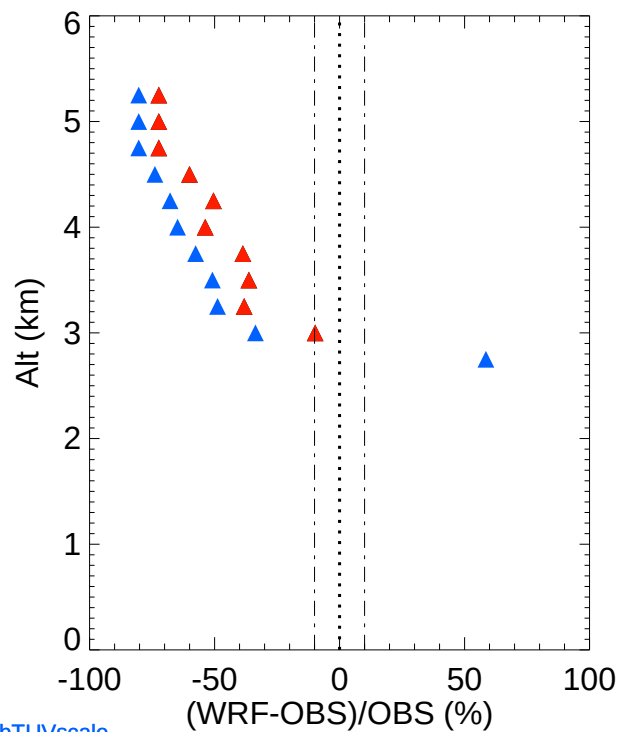
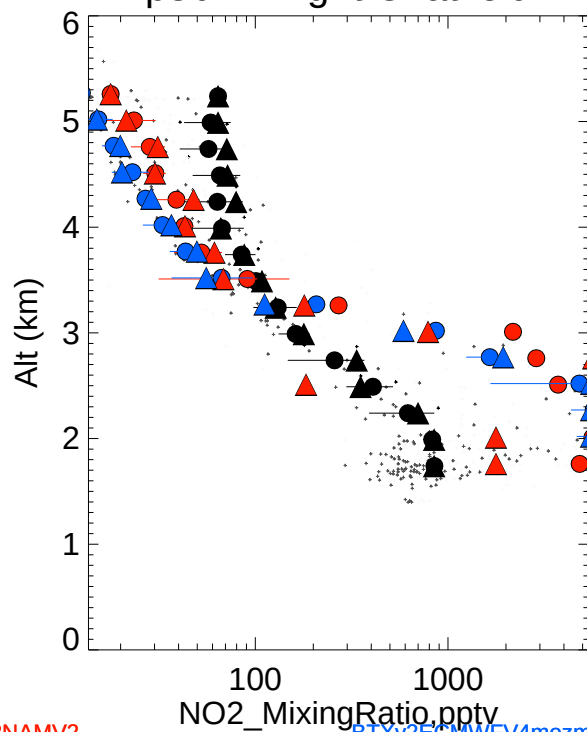
BTXv2NAMV2-

BTXv2ECMWFV4mozmozaicRedMobTUVscale-

p3b All flight LaCasa



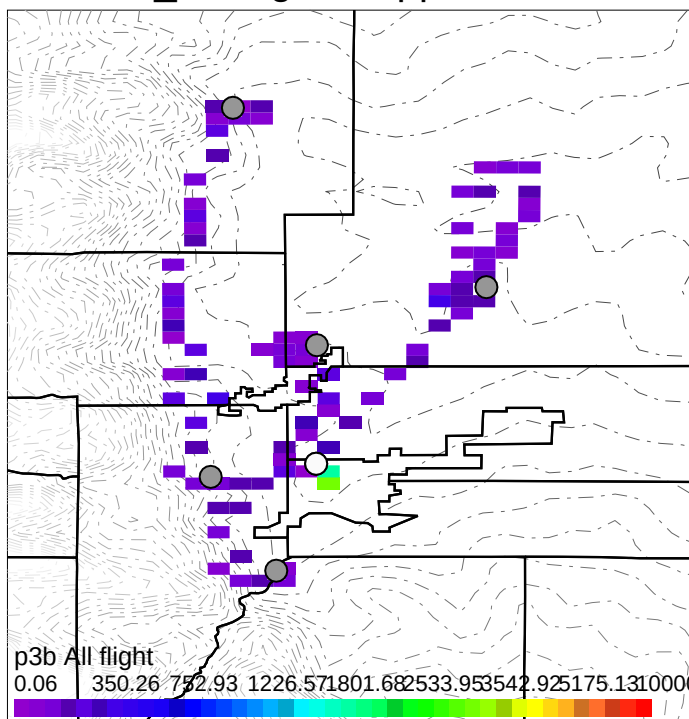
p3b All flight Chatfield



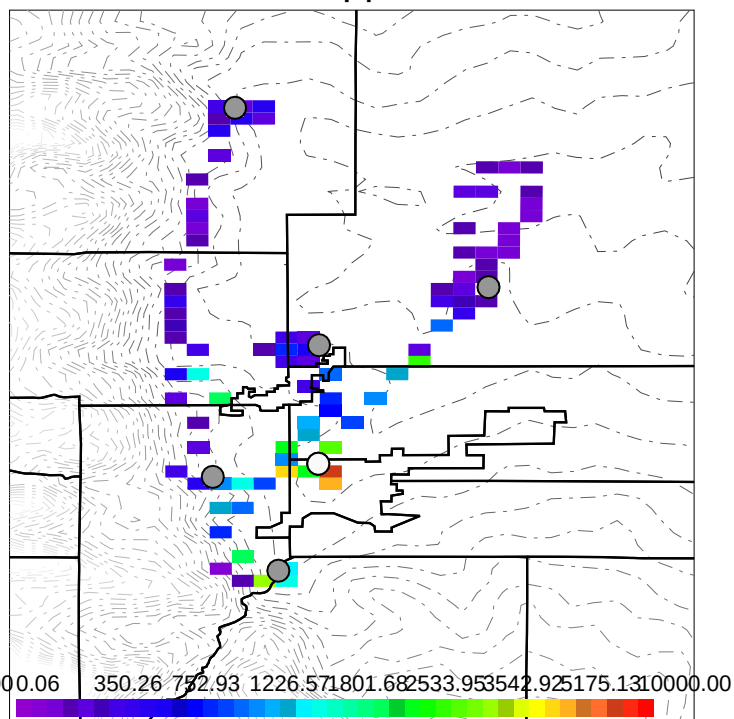
BTXv2NAMV2-

BTXv2ECMWFV4mozmozaicRedMobTUVscale-

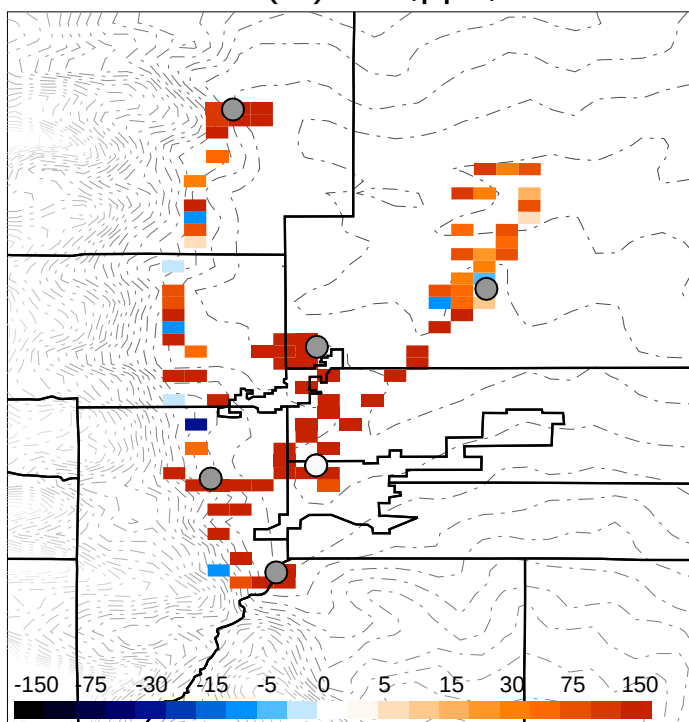
NO_MixingRatio,pptv < 3 km



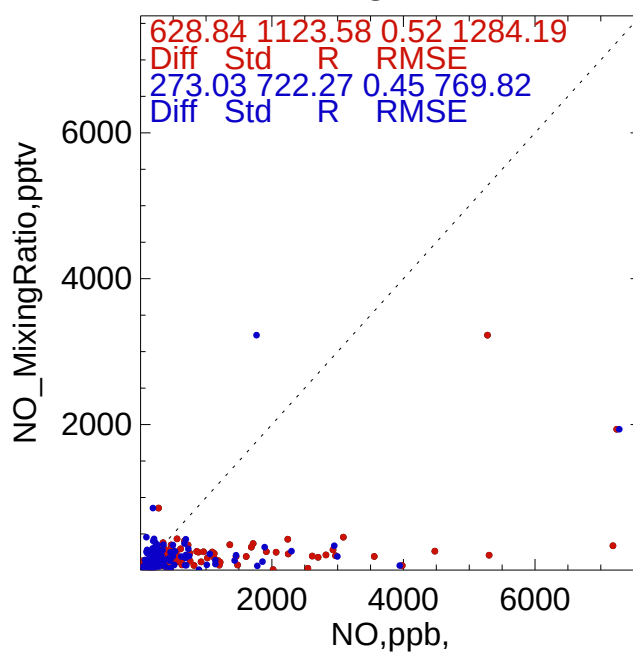
Model NO,ppb, < 3 km



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



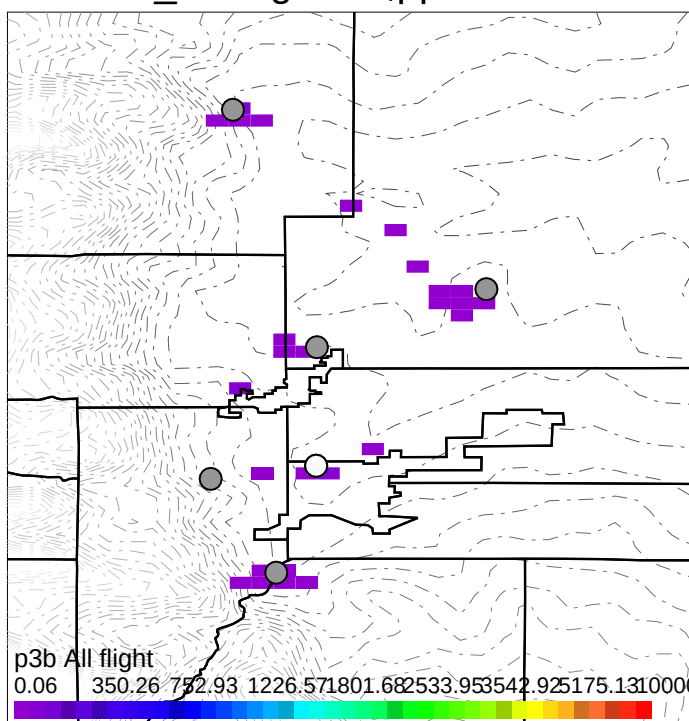
< 3 km



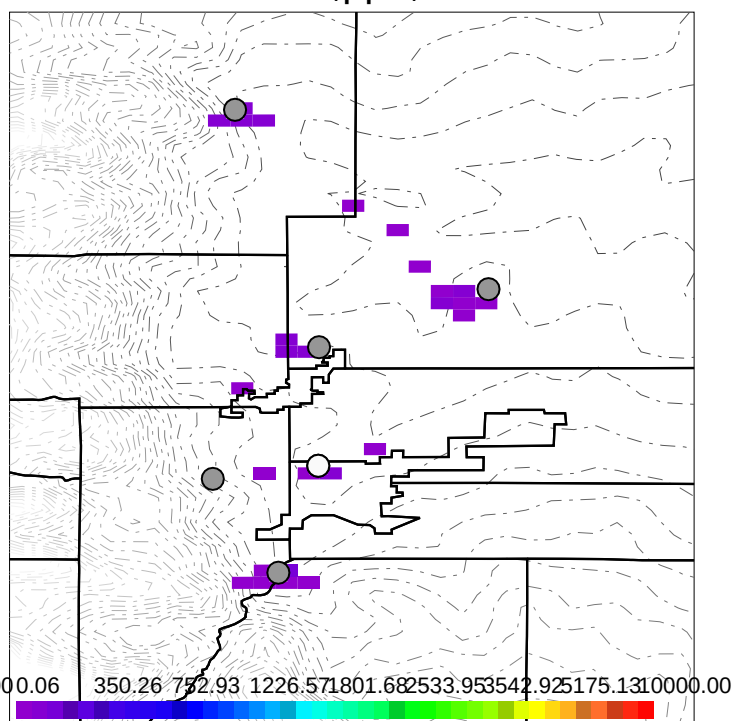
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

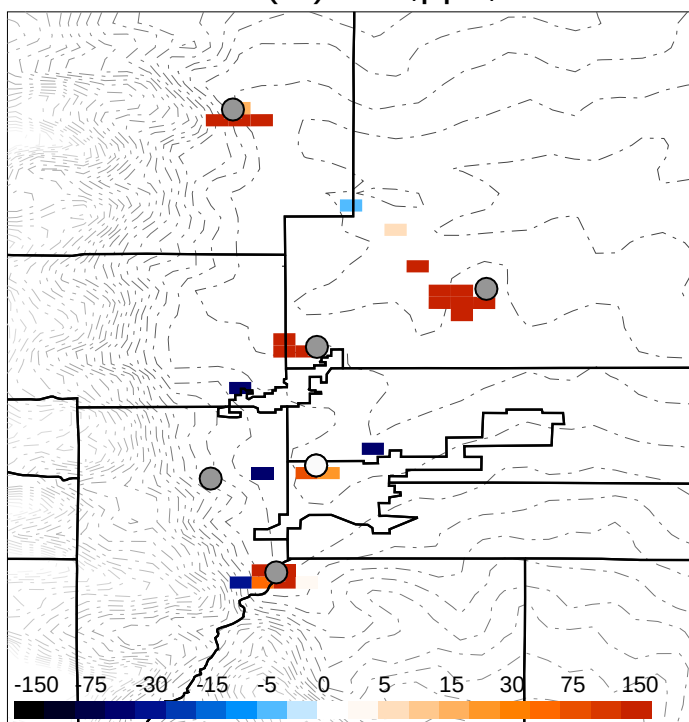
NO_MixingRatio,pptv > 3 km



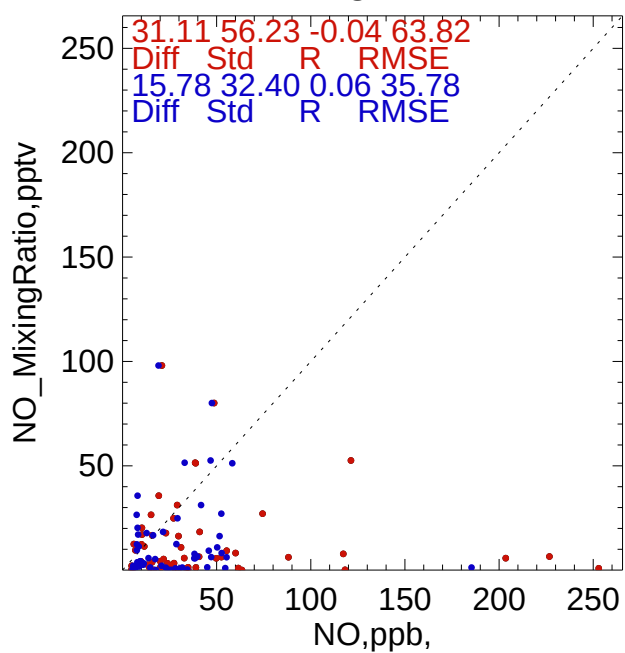
Model NO,ppb, > 3 km



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

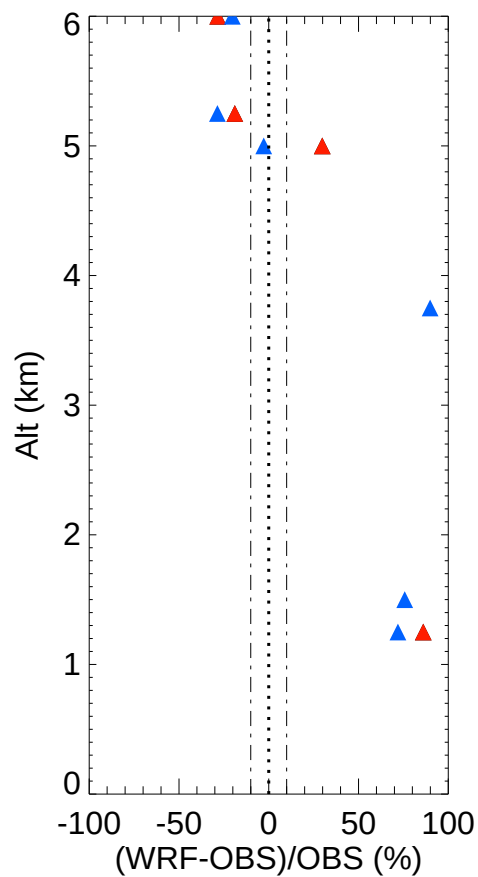
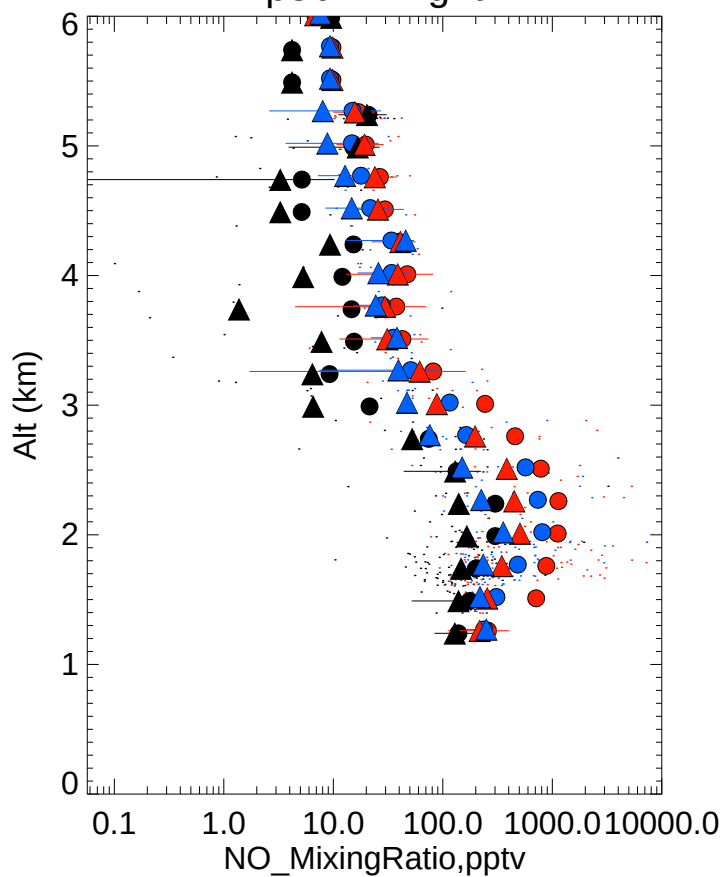
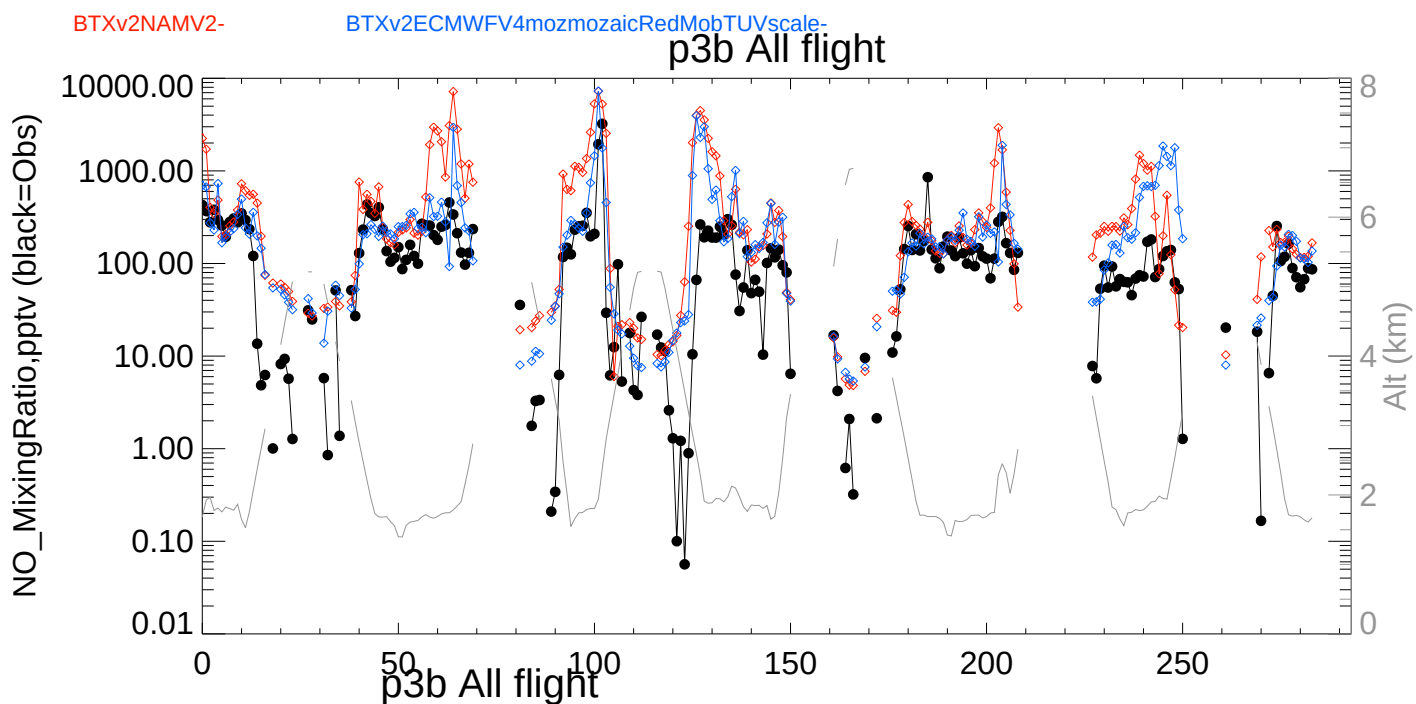


> 3 km

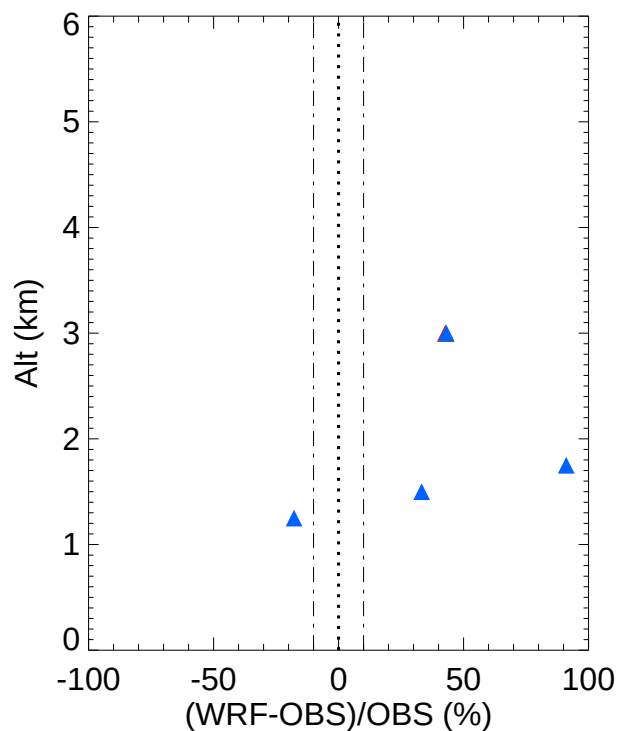
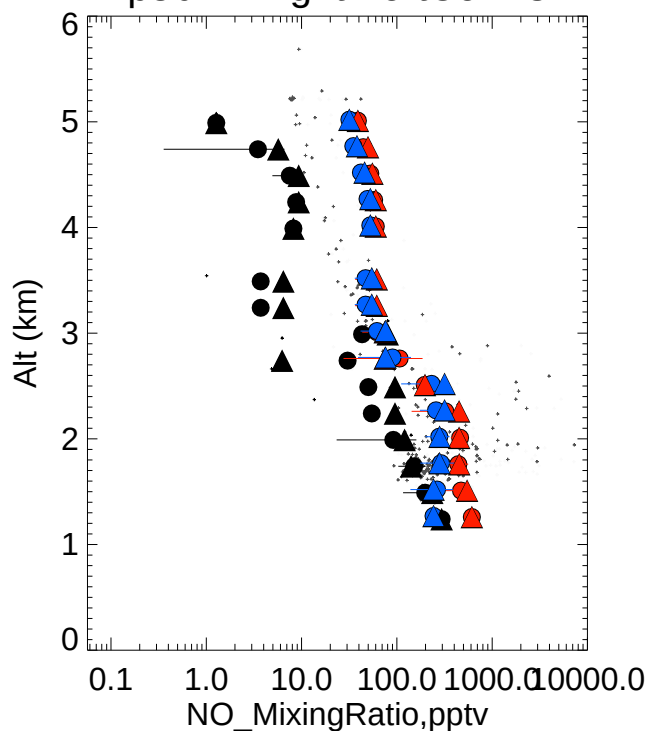


BTXv2NAMV2-

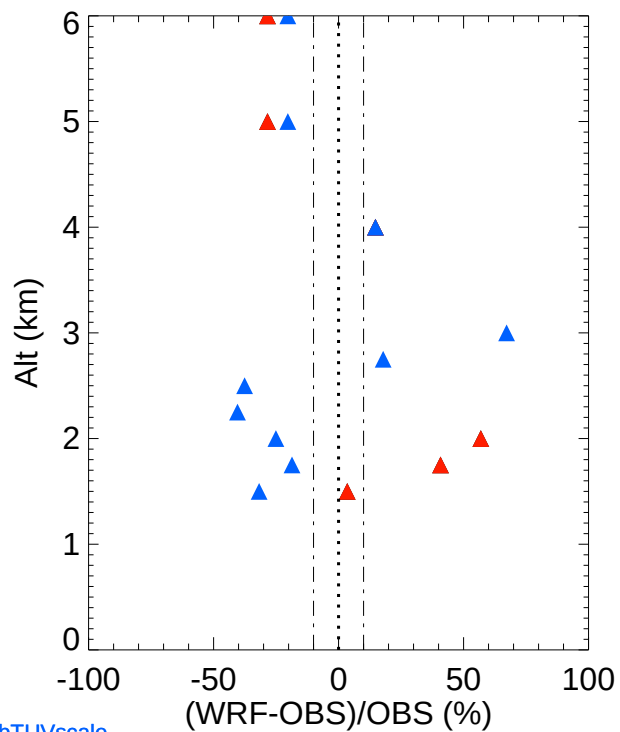
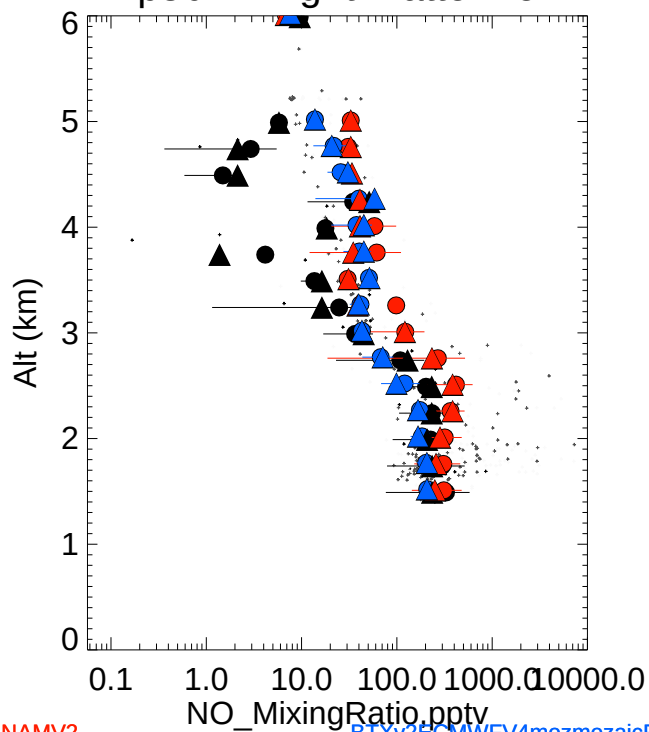
BTXv2ECMWFV4mozmoz



p3b All flight FortCollins

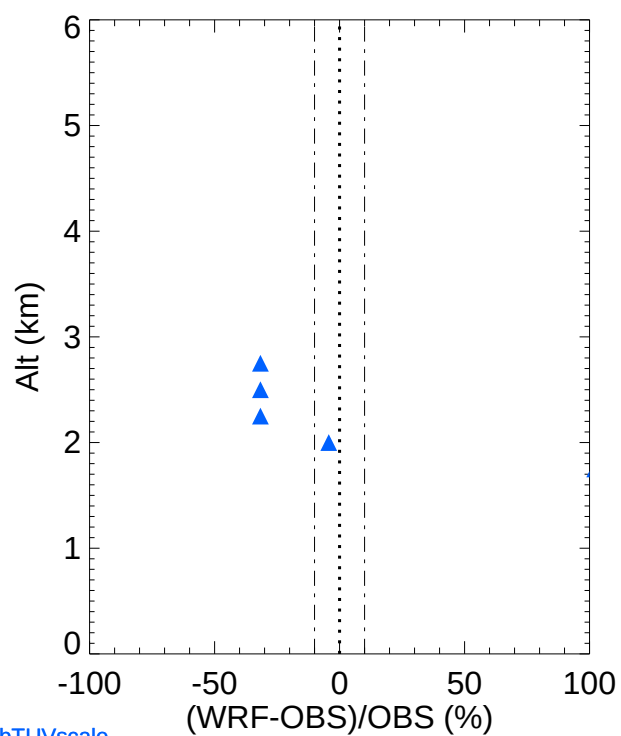
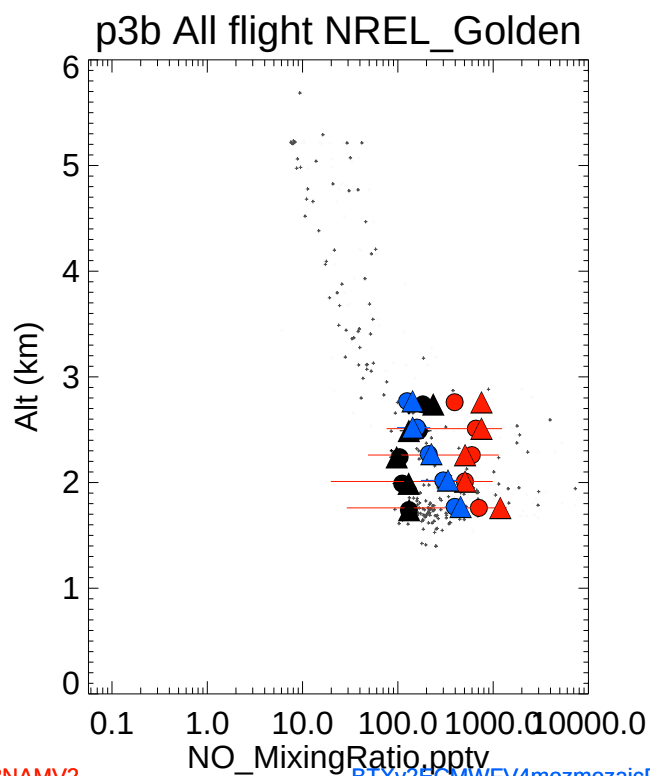
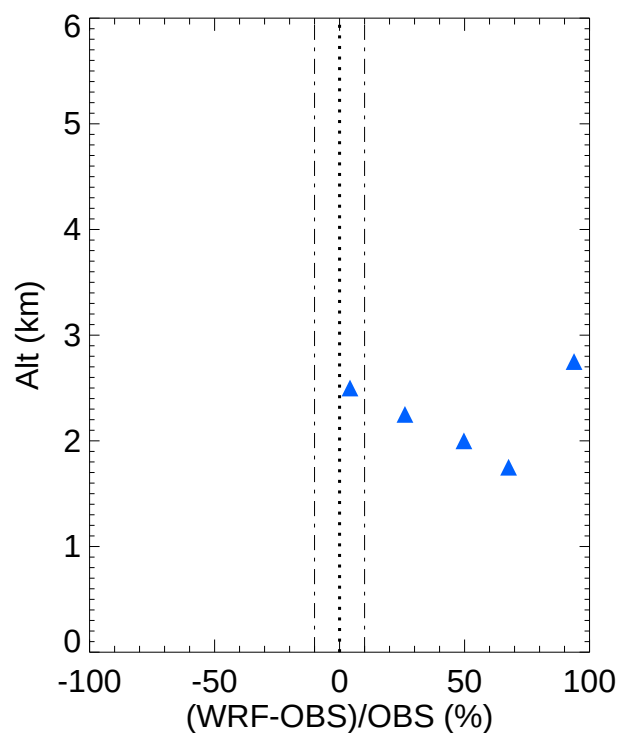
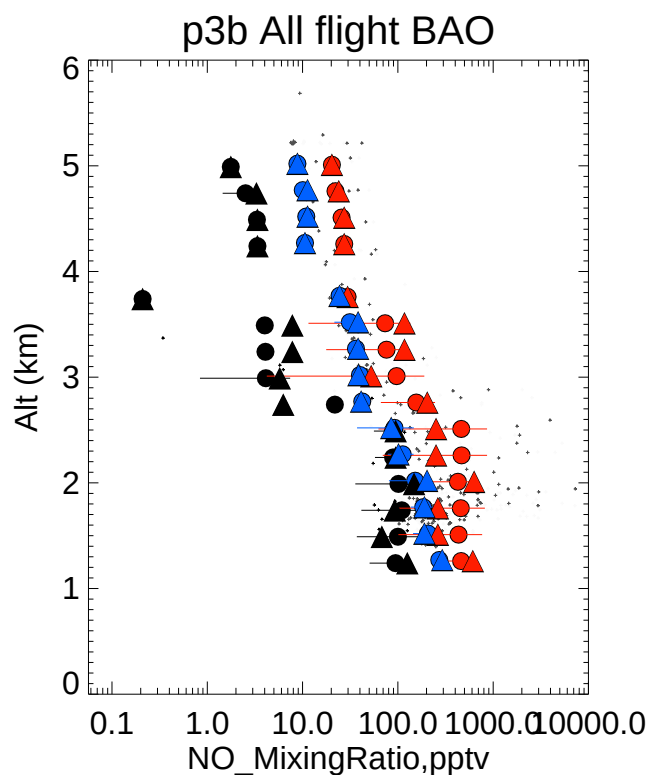


p3b All flight Platteville



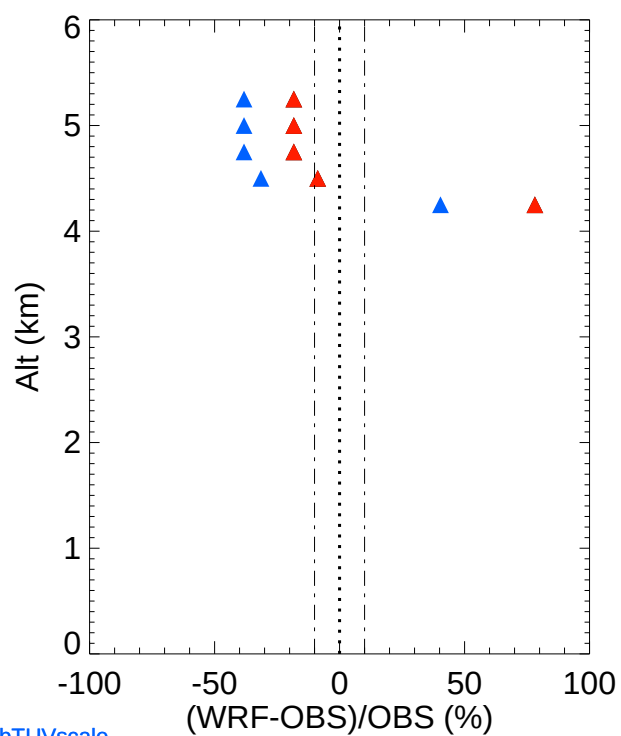
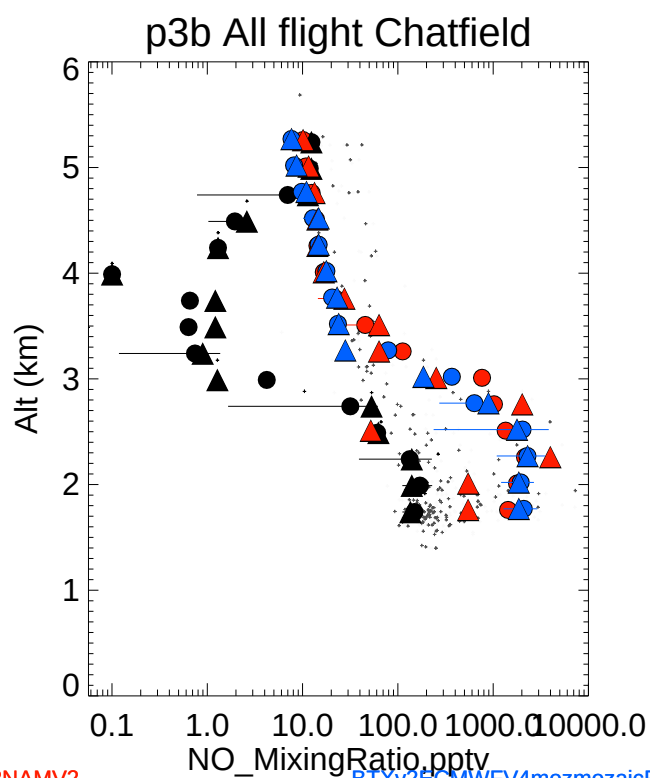
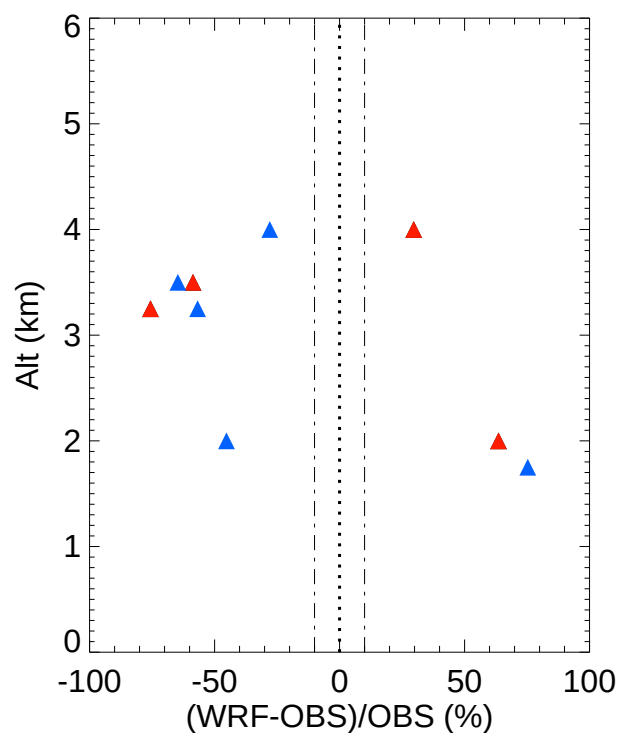
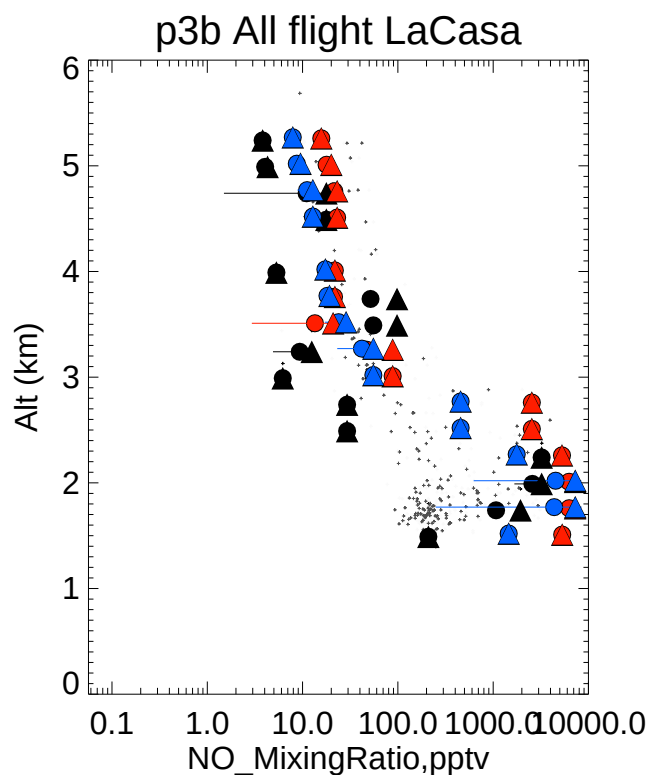
BTXv2NAMV2-

BTXv2ECMWFV4mozmozaicRedMobTUVscale-



BTXv2NAMV2-

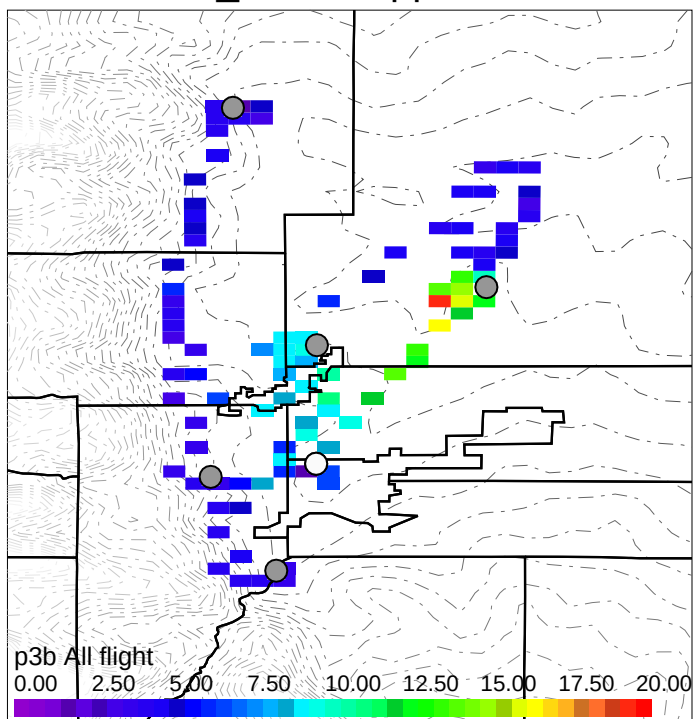
BTXv2ECMWFV4mozmosaicRedMobTUVscale-



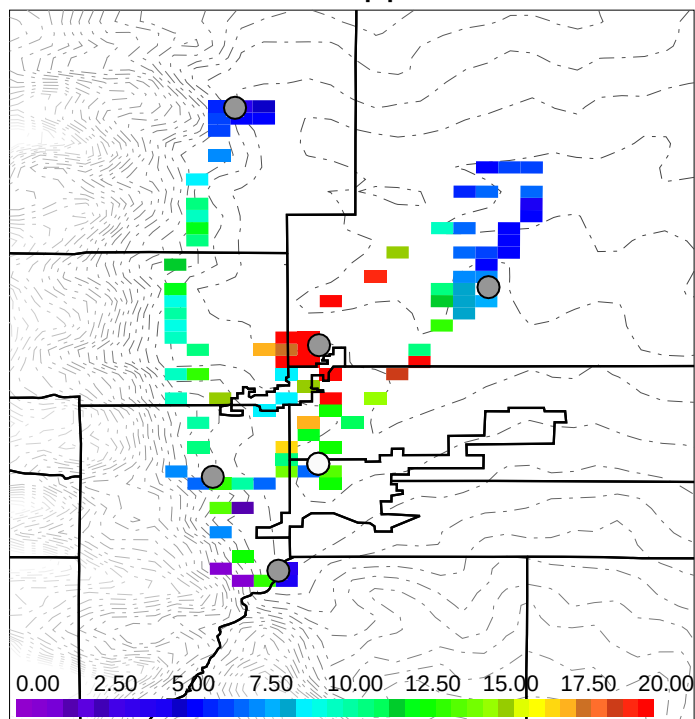
BTXv2NAMV2-

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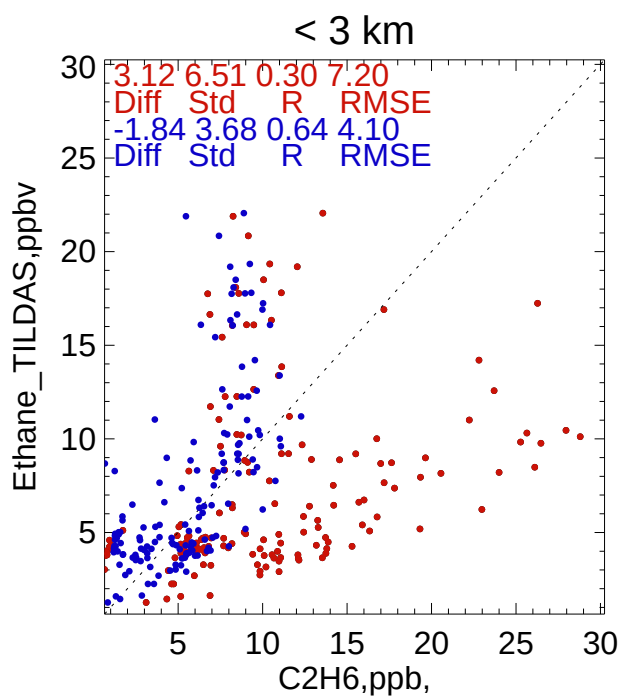
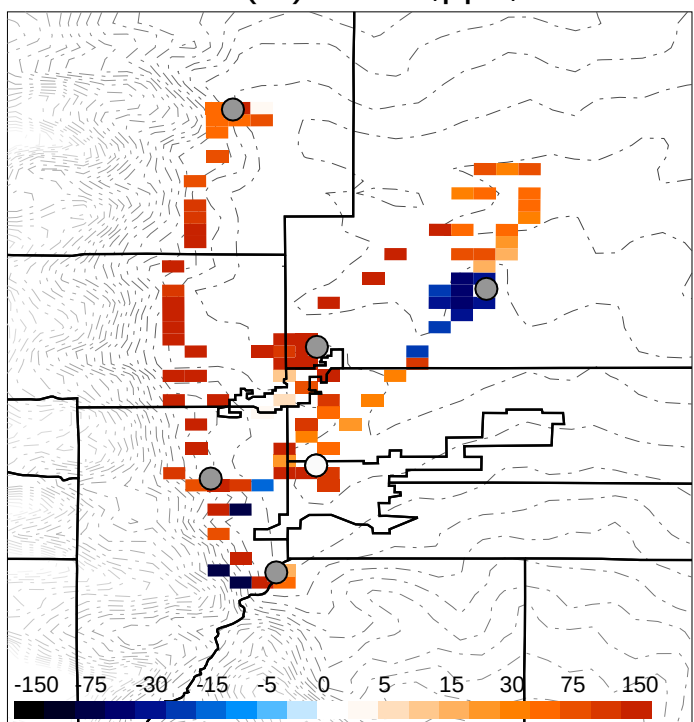
Ethane_TILDAS,ppbv < 3 km



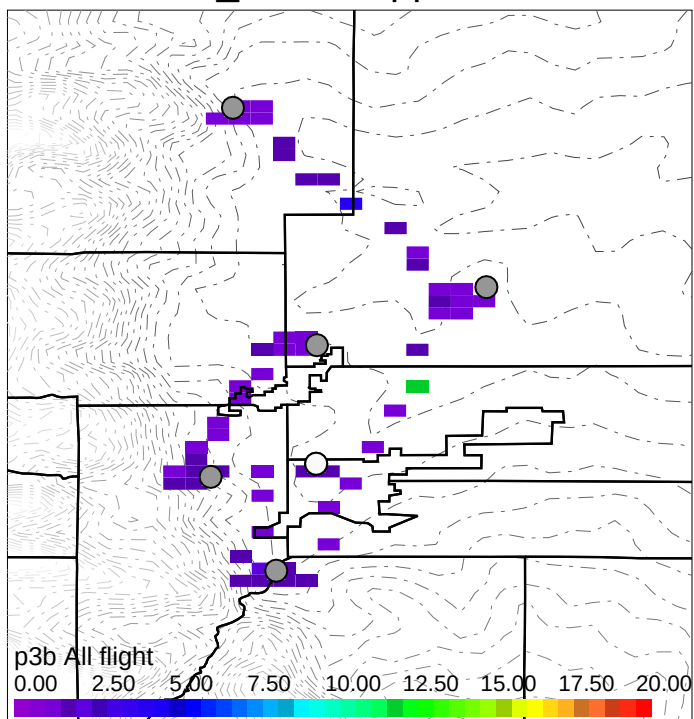
Model C2H6,ppb, < 3 km



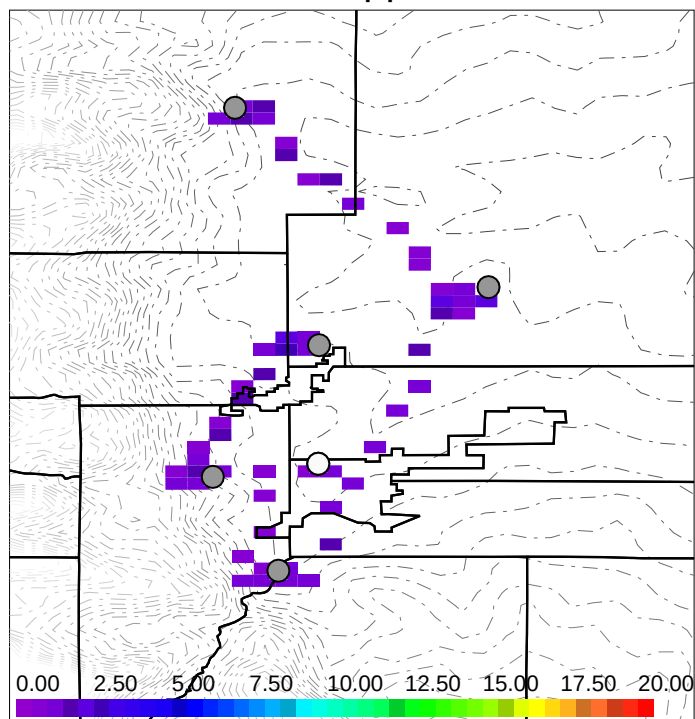
Model-Obs(%) C2H6,ppb, < 3 km



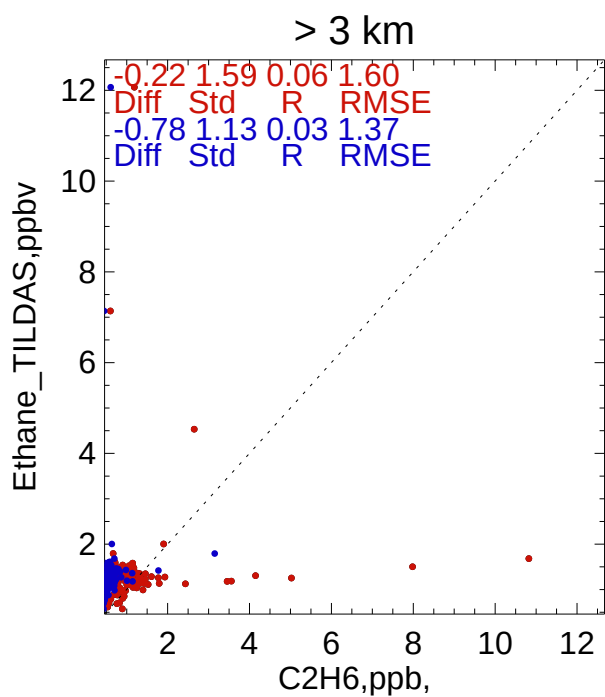
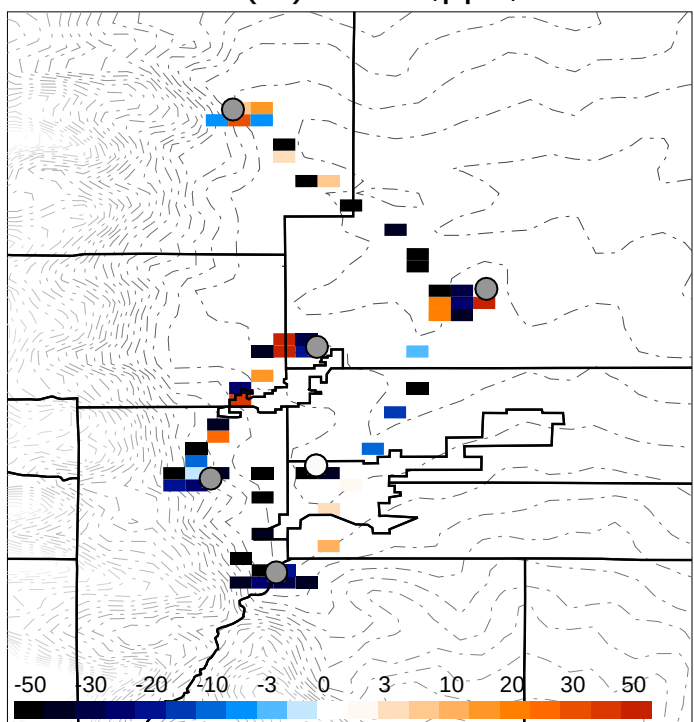
Ethane_TILDAS,ppbv > 3 km



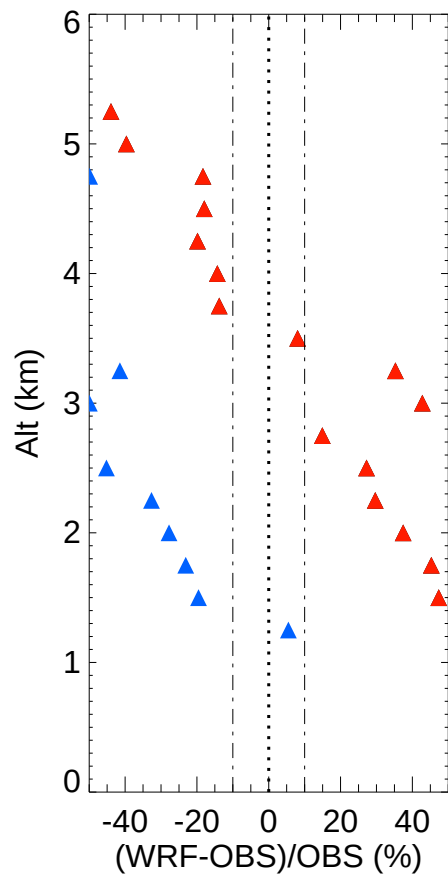
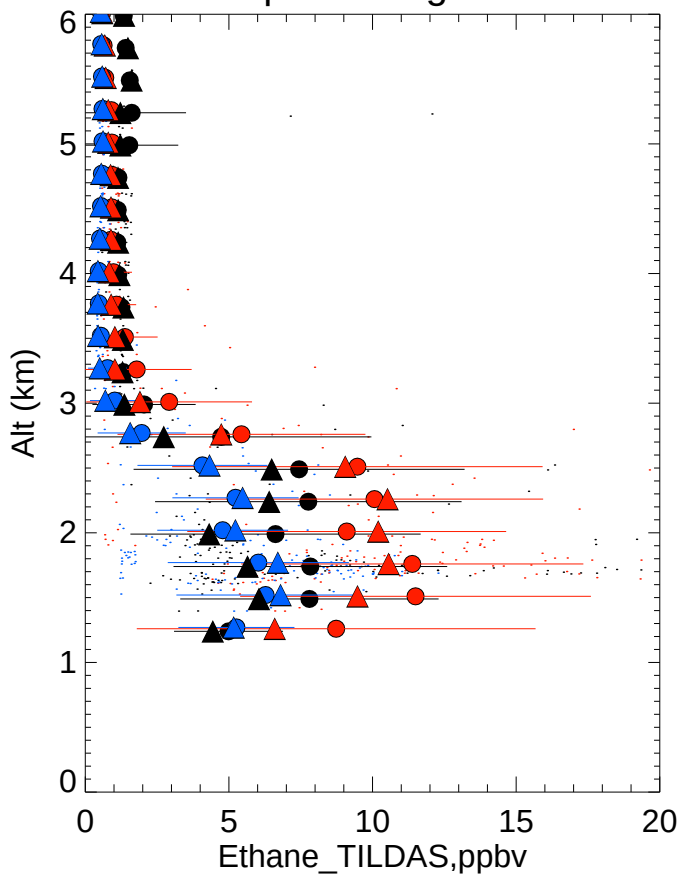
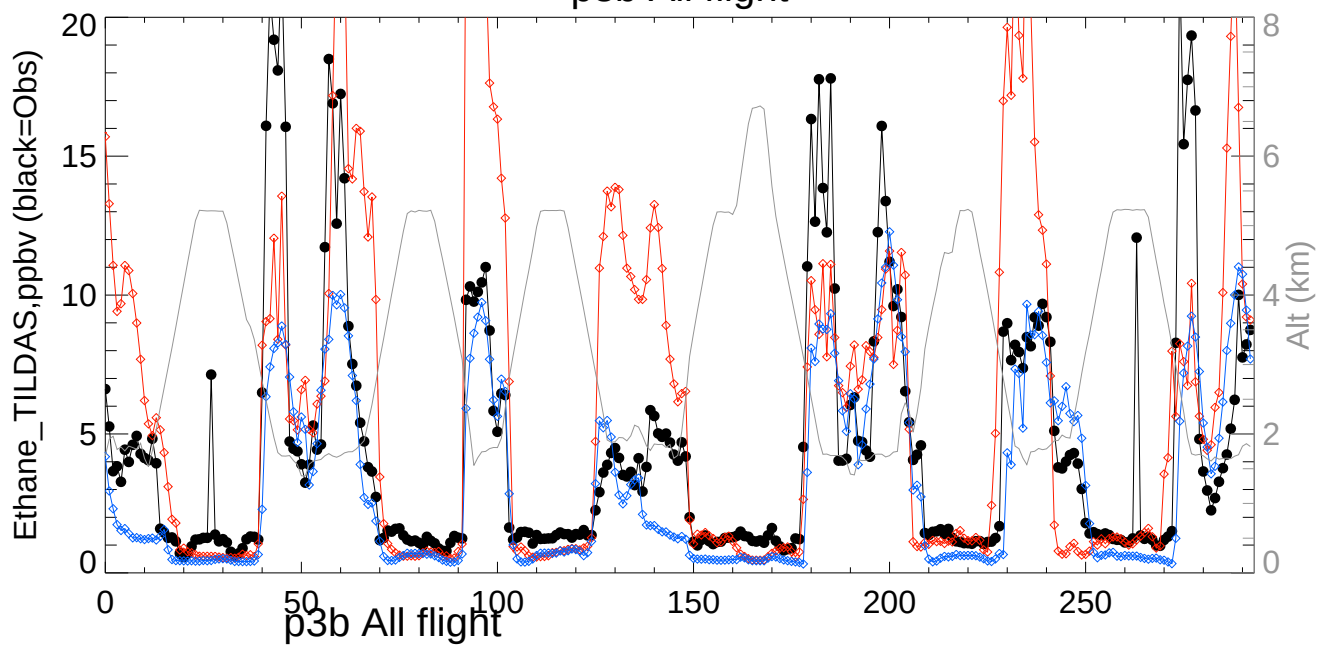
Model C2H6,ppb, > 3 km



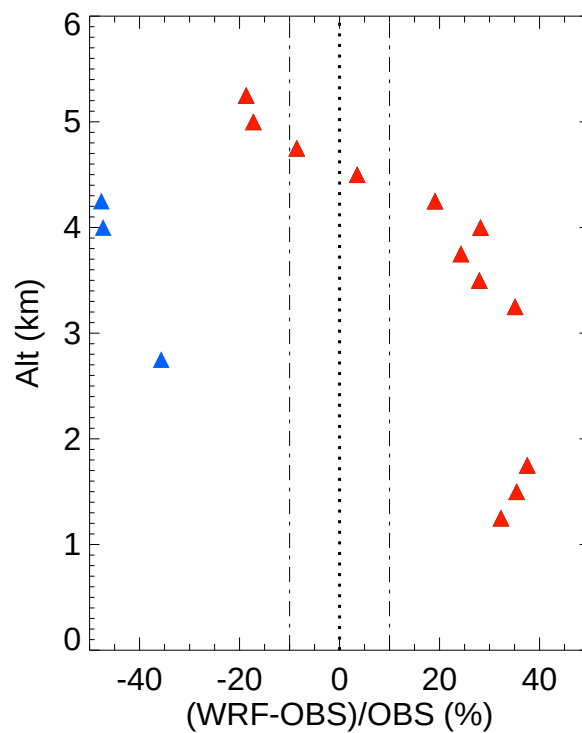
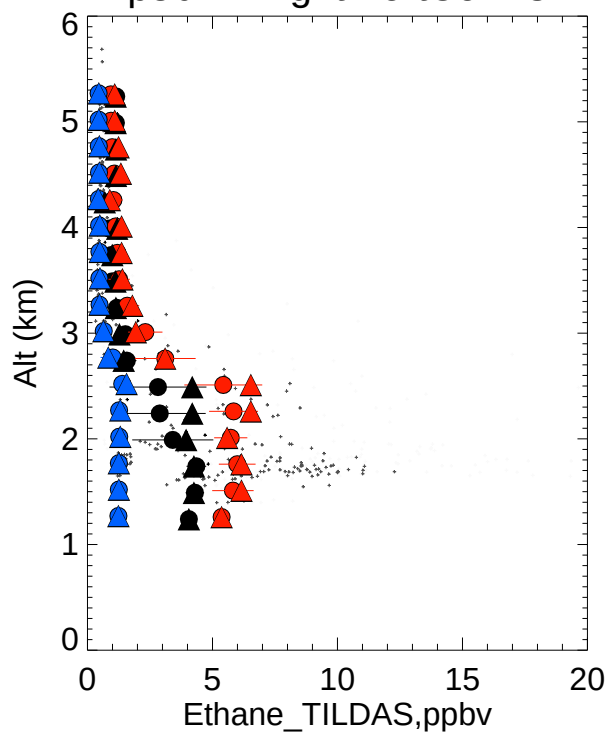
Model-Obs(%) C2H6,ppb, > 3 km



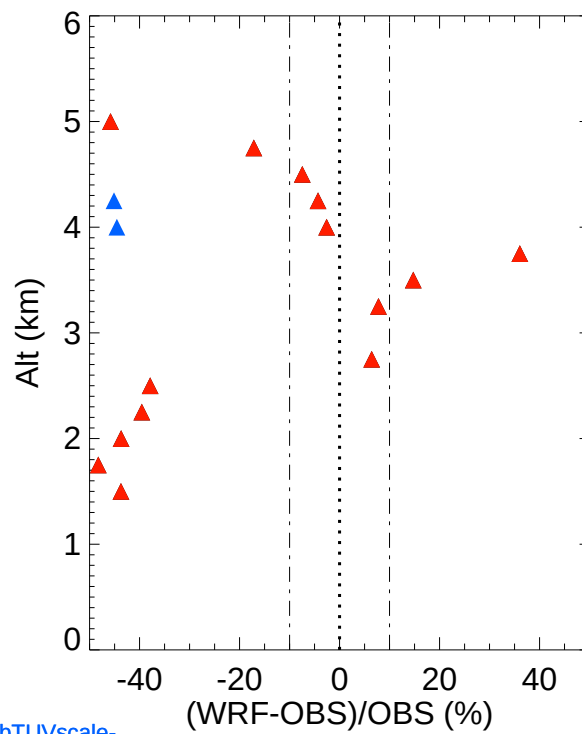
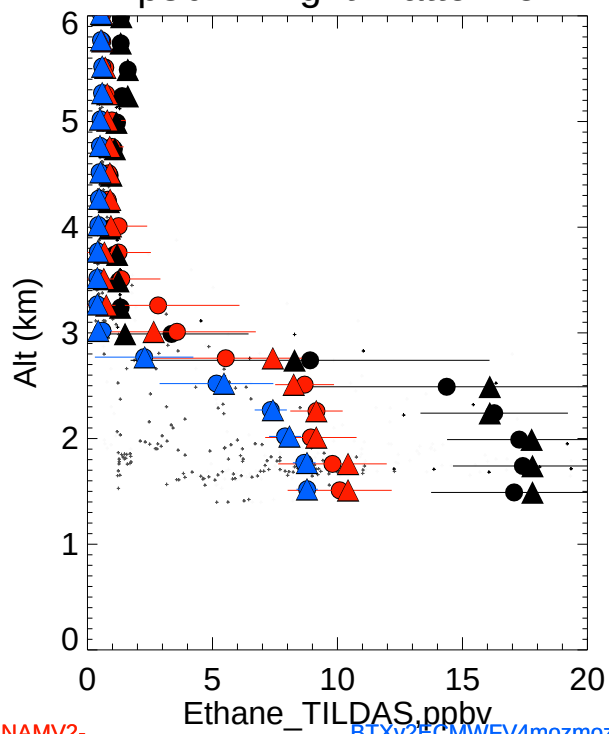
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight



p3b All flight FortCollins

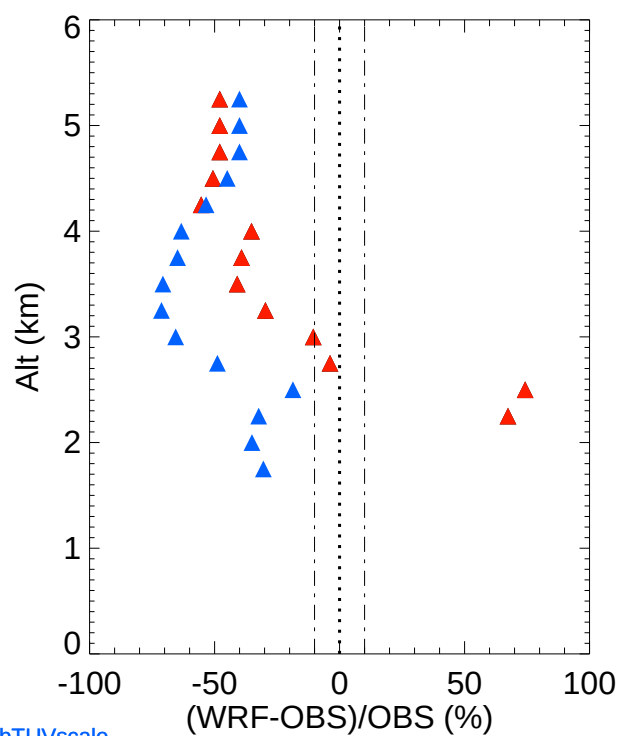
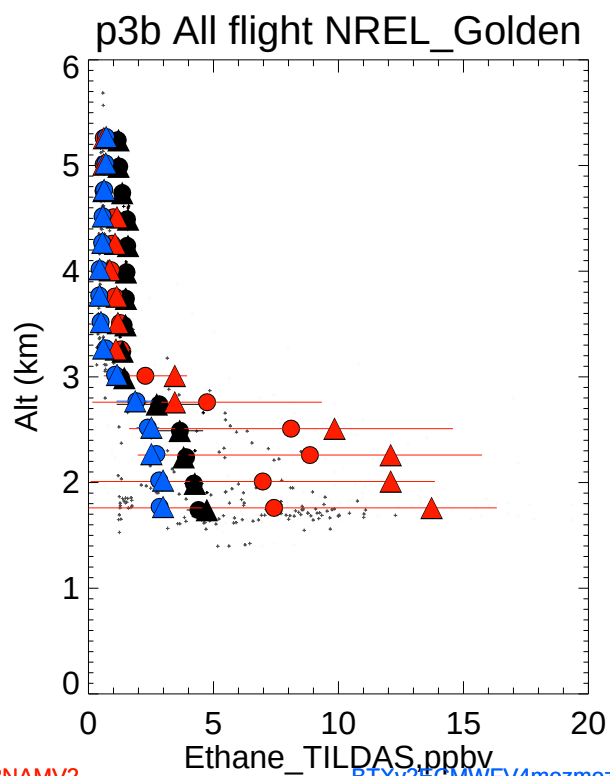
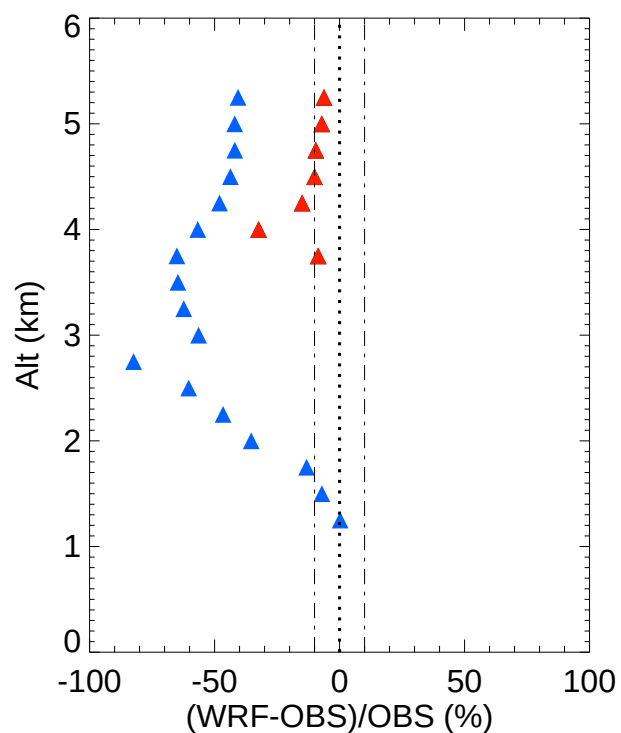
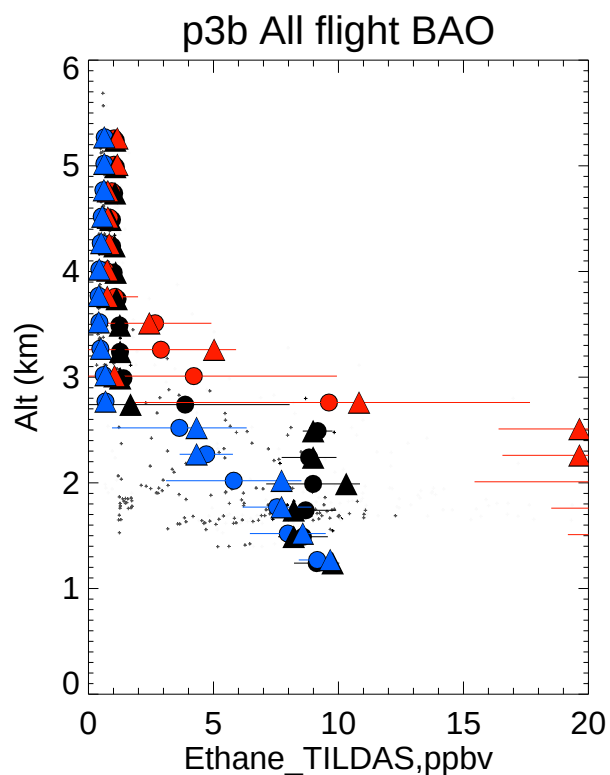


p3b All flight Platteville



BTXv2NAMV2-

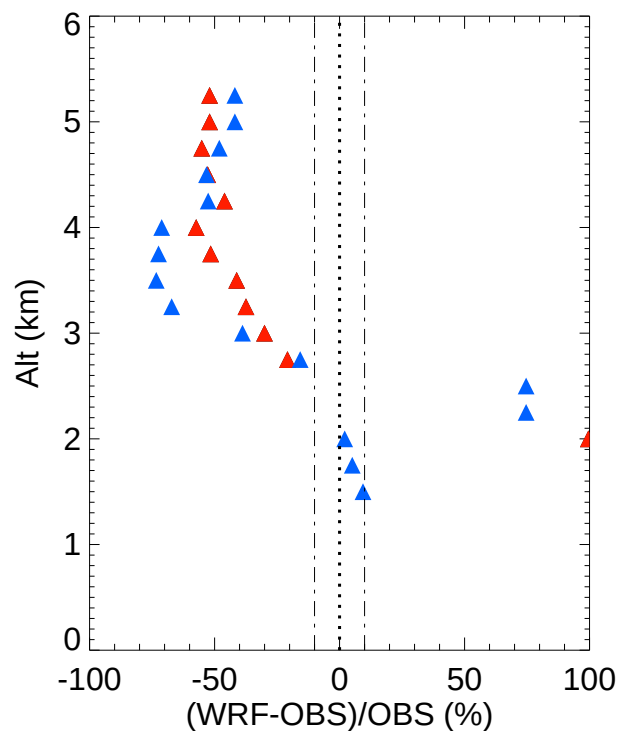
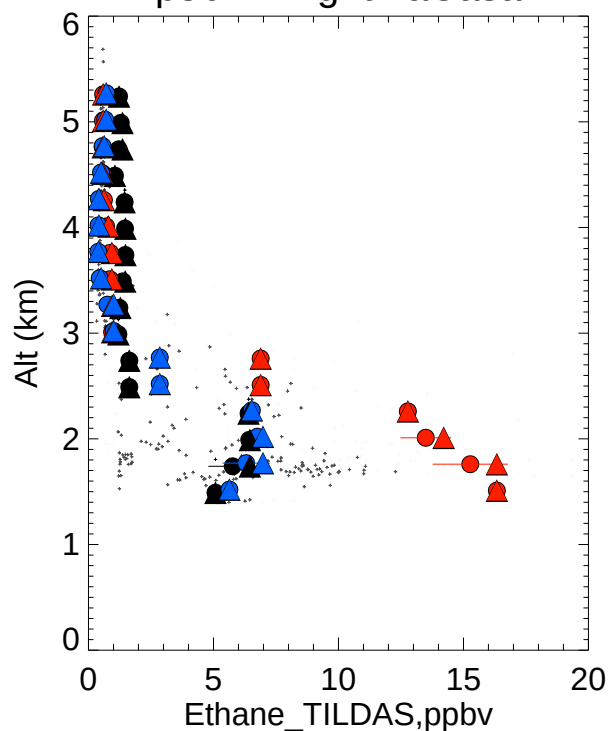
BTXv2ECMWFV4mozmozaicRedMobTUVscale-



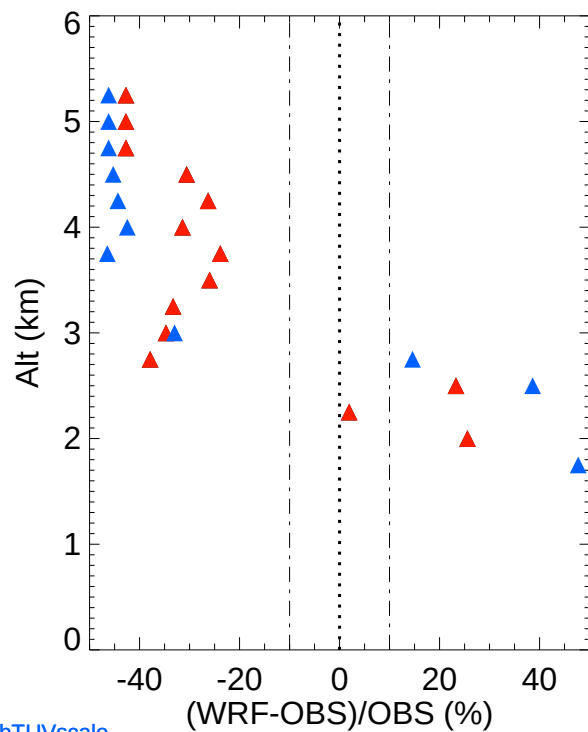
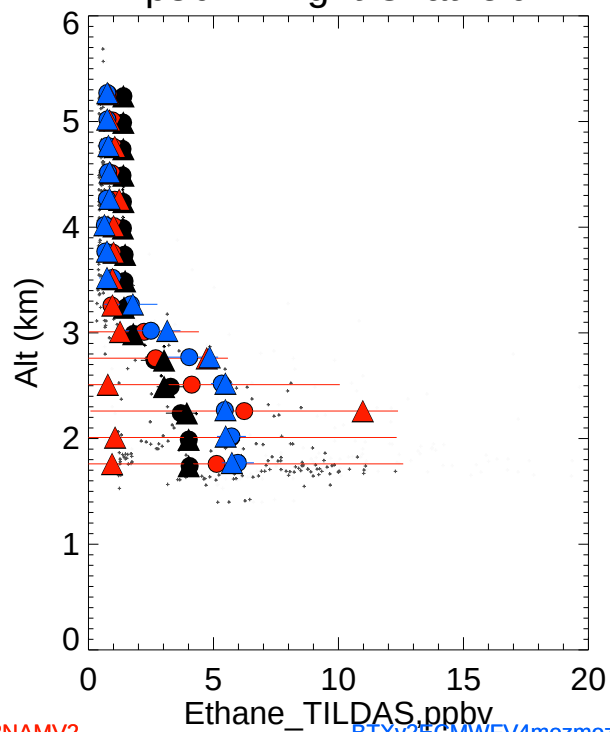
BTXv2NAMV2-

BTXv2ECMWFV4mozmozaicRedMobTUVscale-

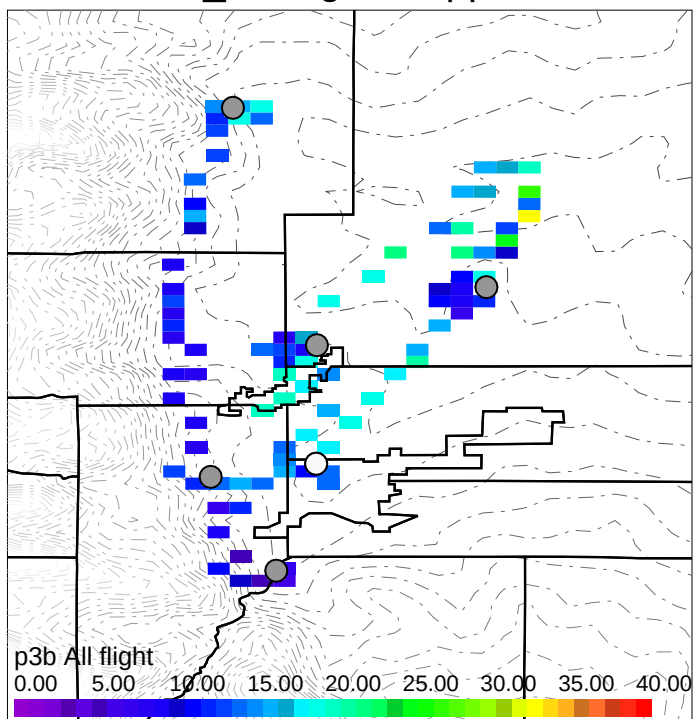
p3b All flight LaCasa



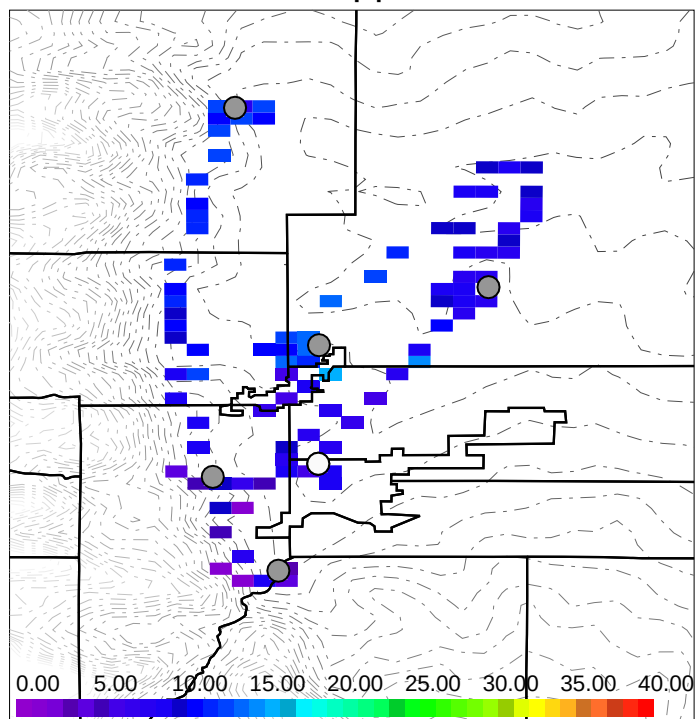
p3b All flight Chatfield



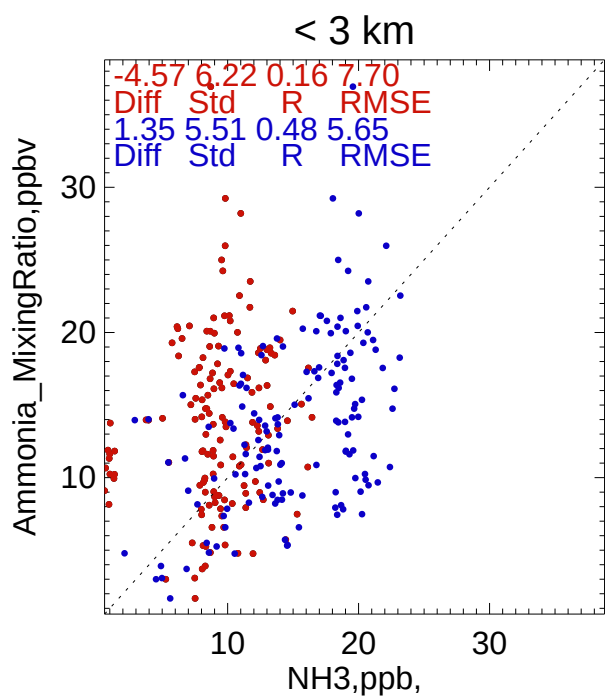
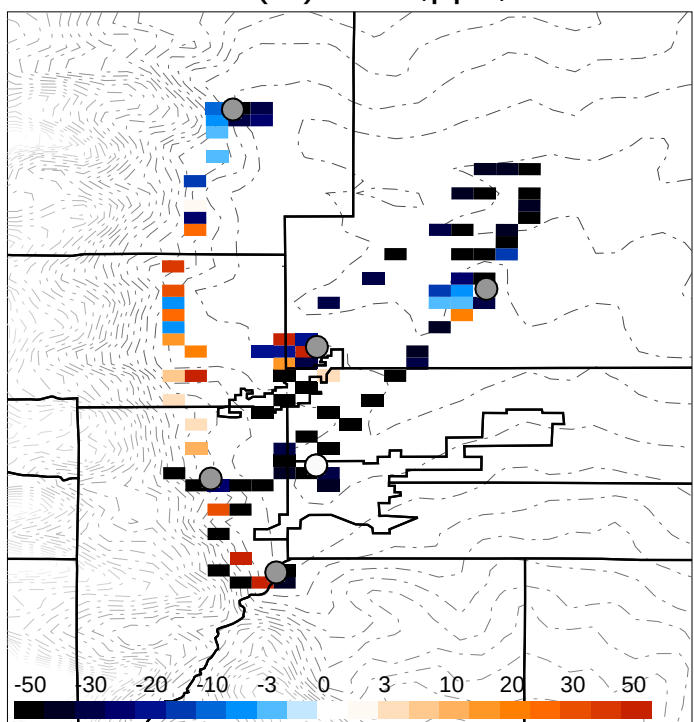
Ammonia_MixingRatio,ppbv < 3 km



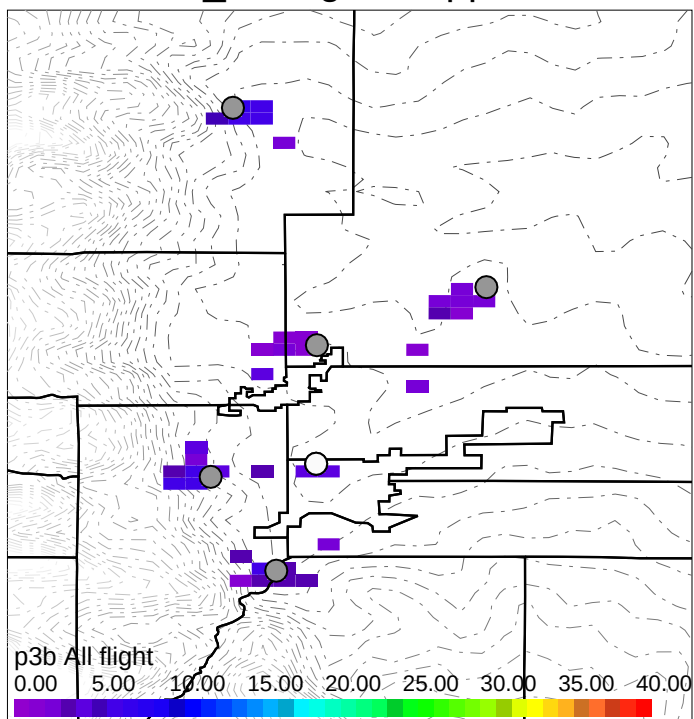
Model NH3,ppb, < 3 km



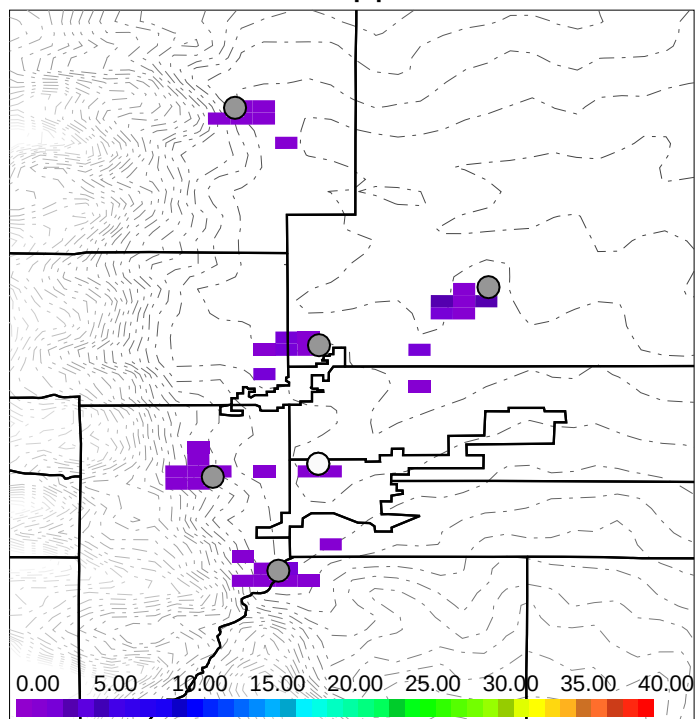
Model-Obs(%) NH3,ppb, < 3 km



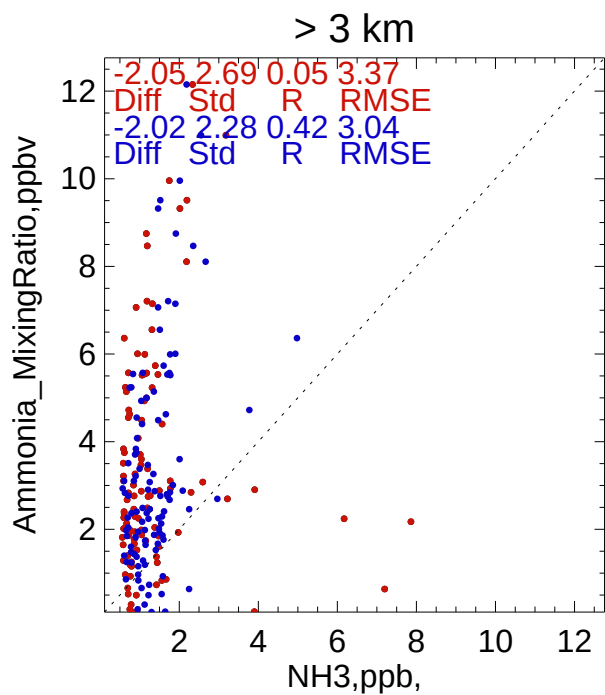
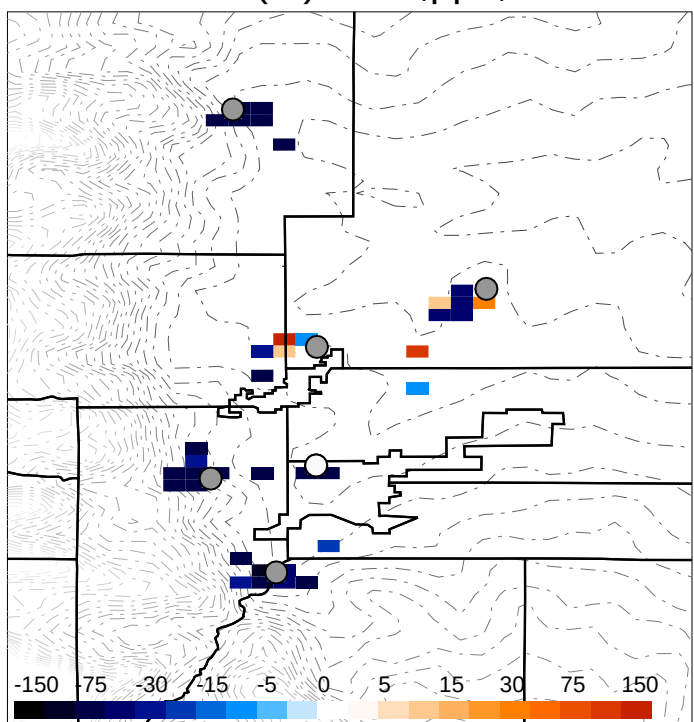
Ammonia_MixingRatio,ppbv > 3 km



Model NH3,ppb, > 3 km



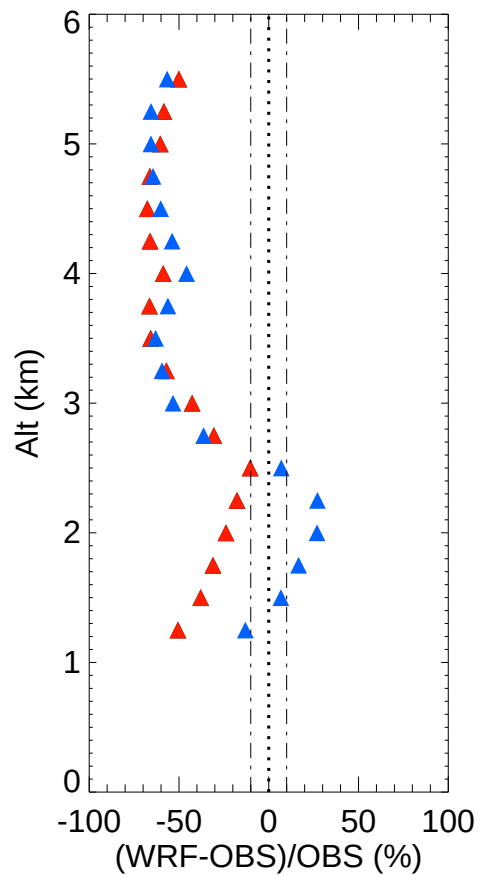
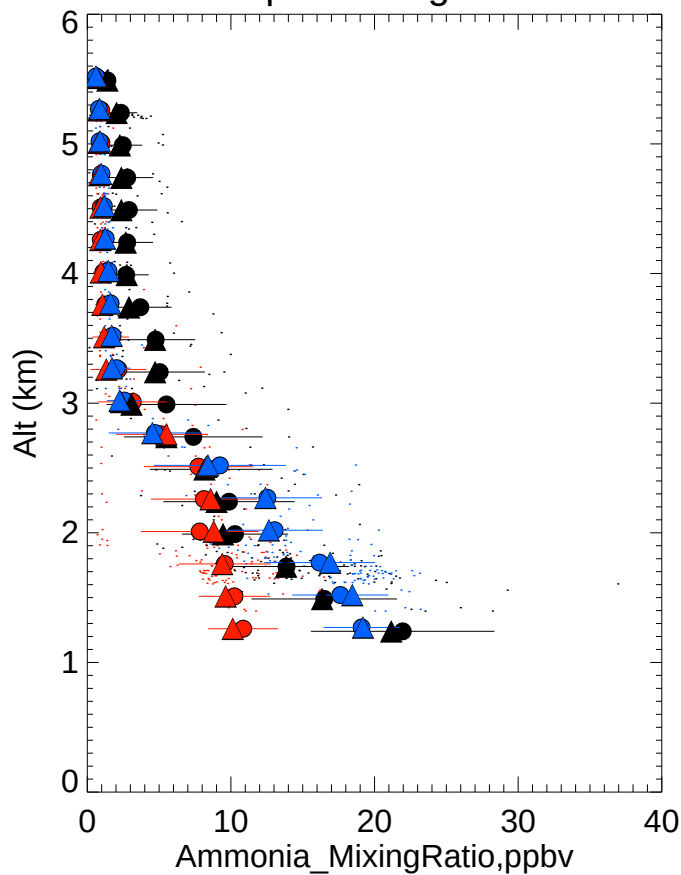
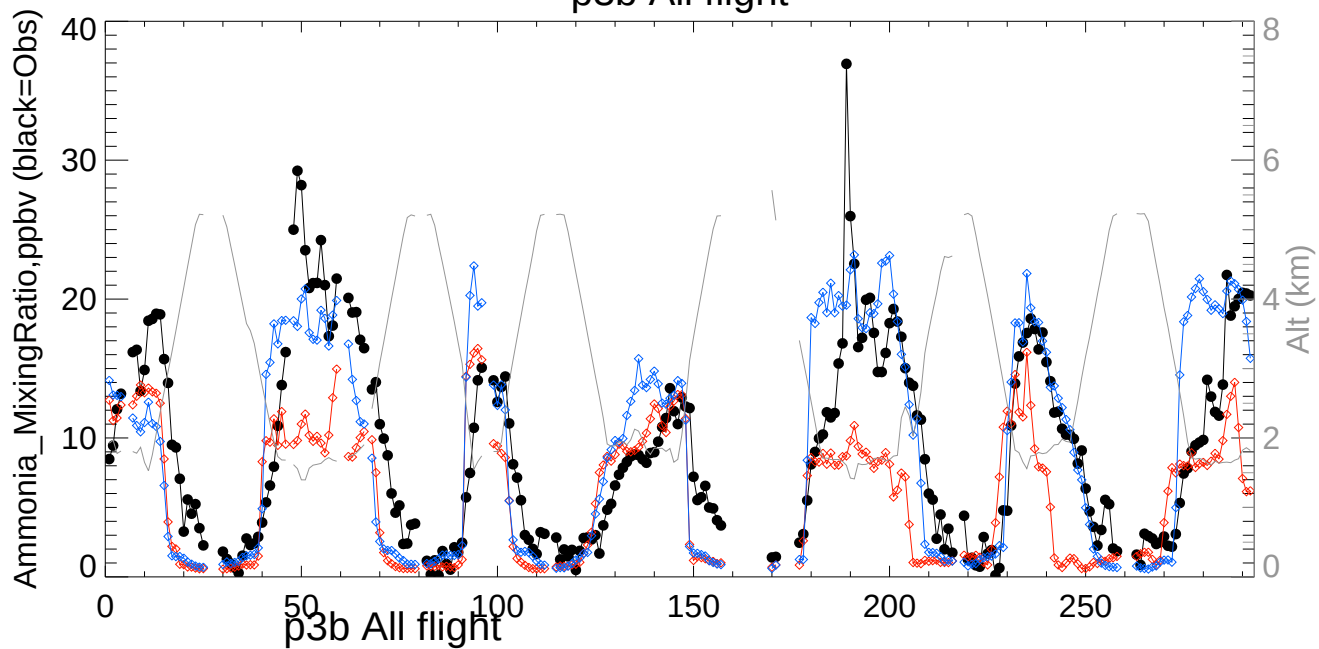
Model-Obs(%) NH3,ppb, > 3 km



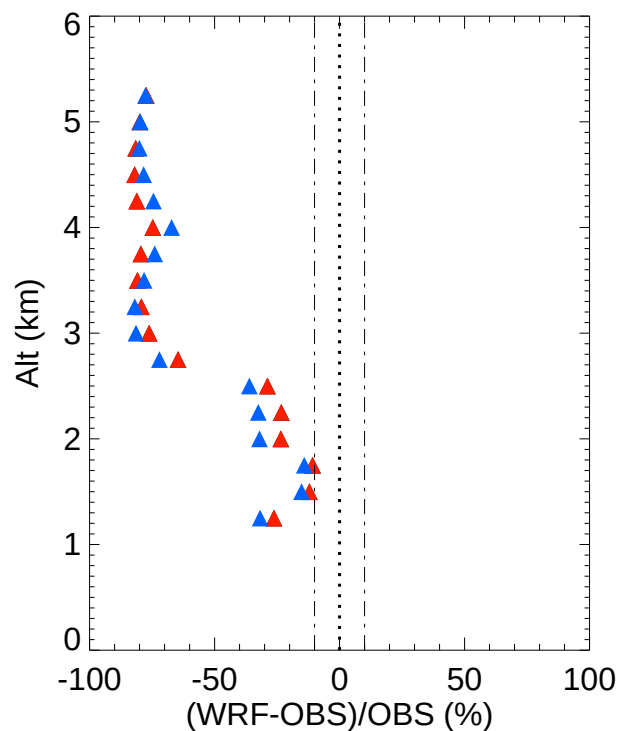
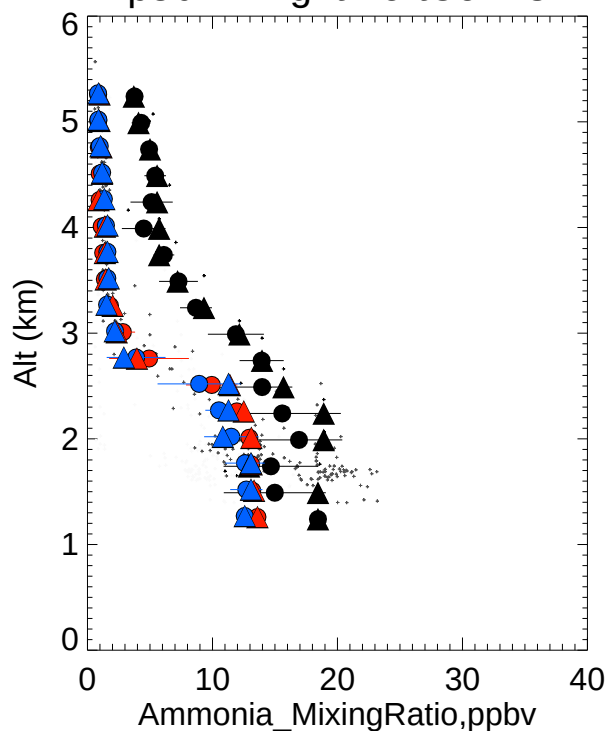
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

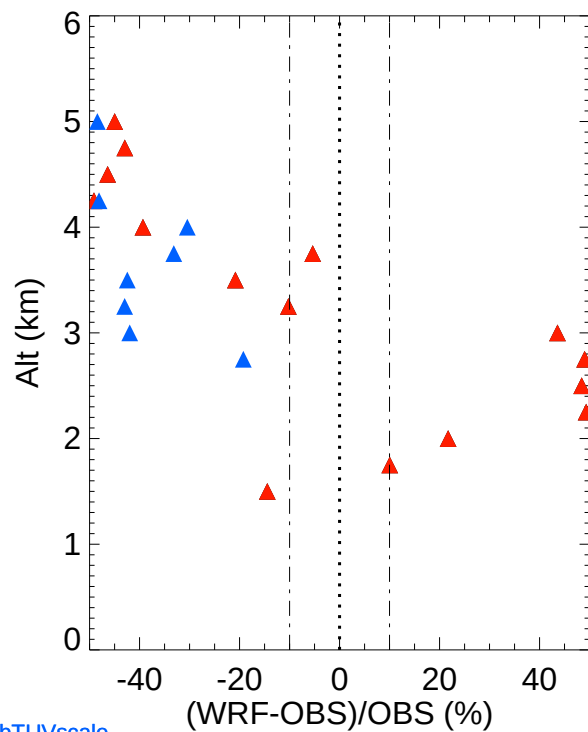
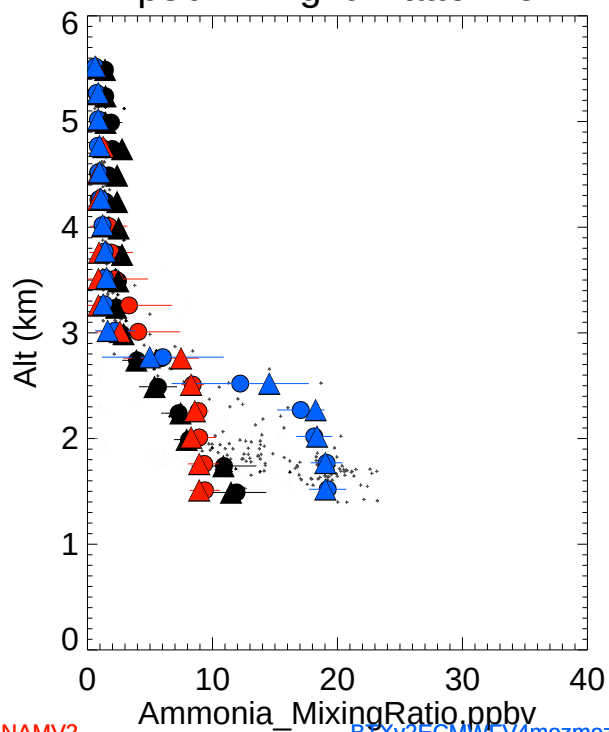
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight



p3b All flight FortCollins

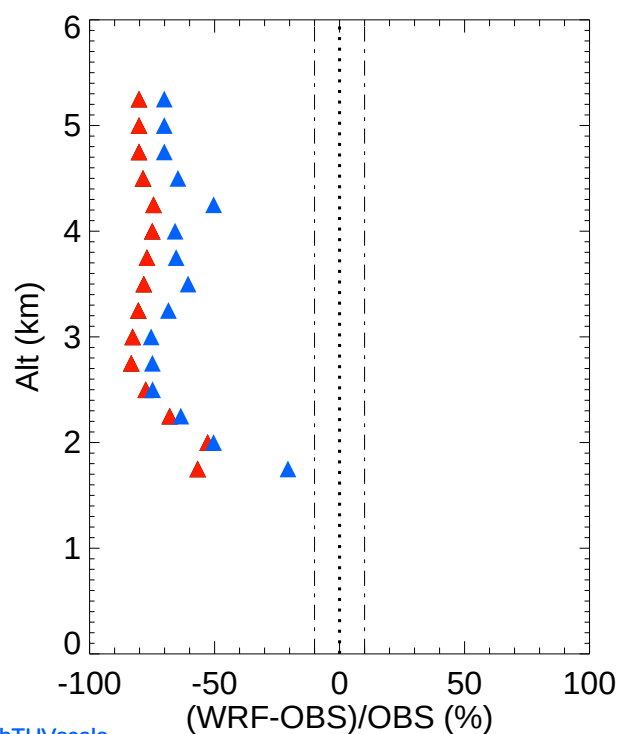
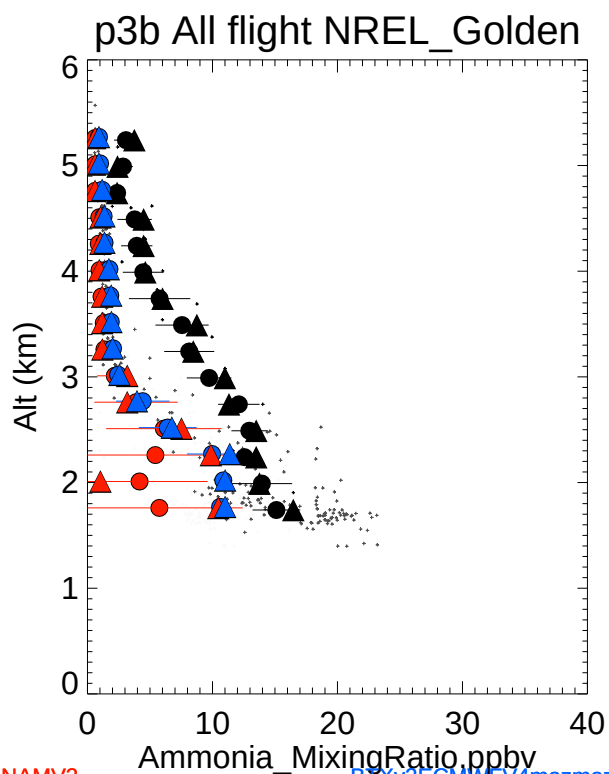
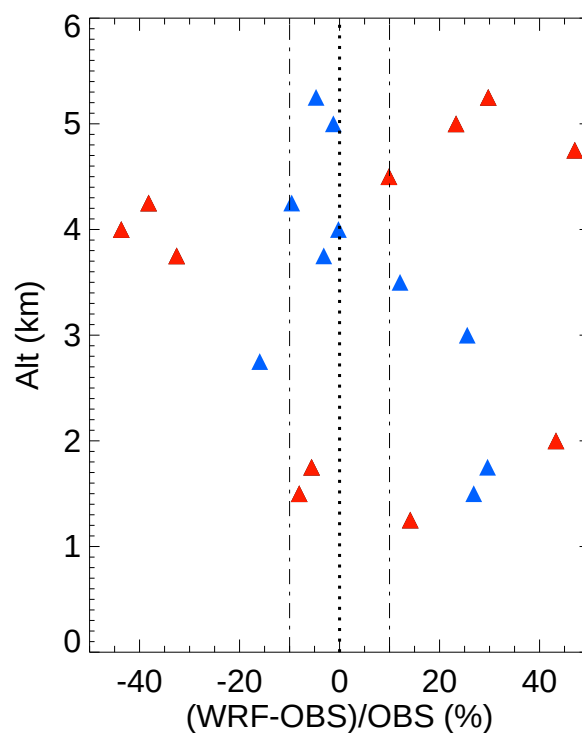
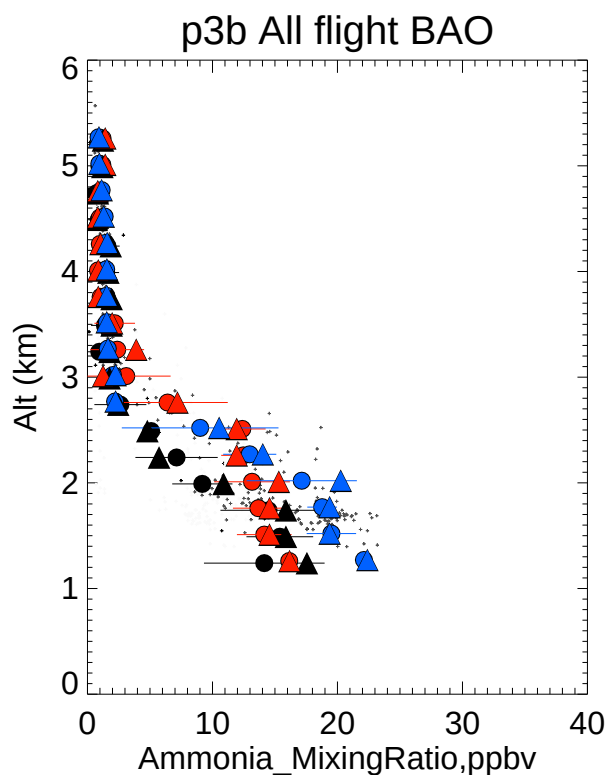


p3b All flight Platteville



BTXv2NAMV2-

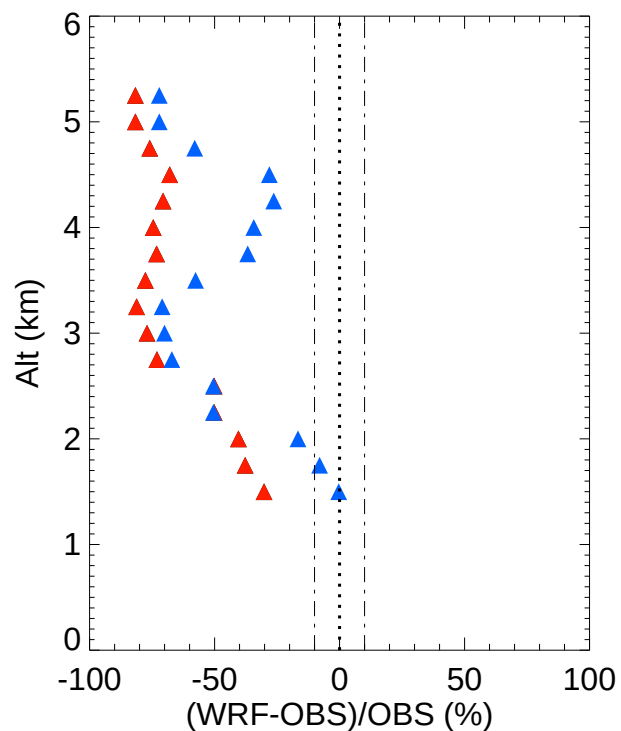
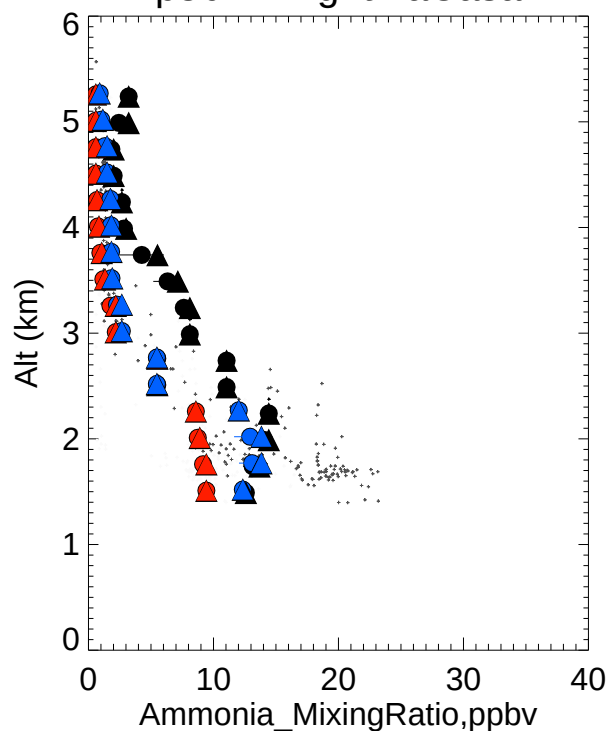
BTXv2ECMWFV4mozmozaicRedMobTUVscale-



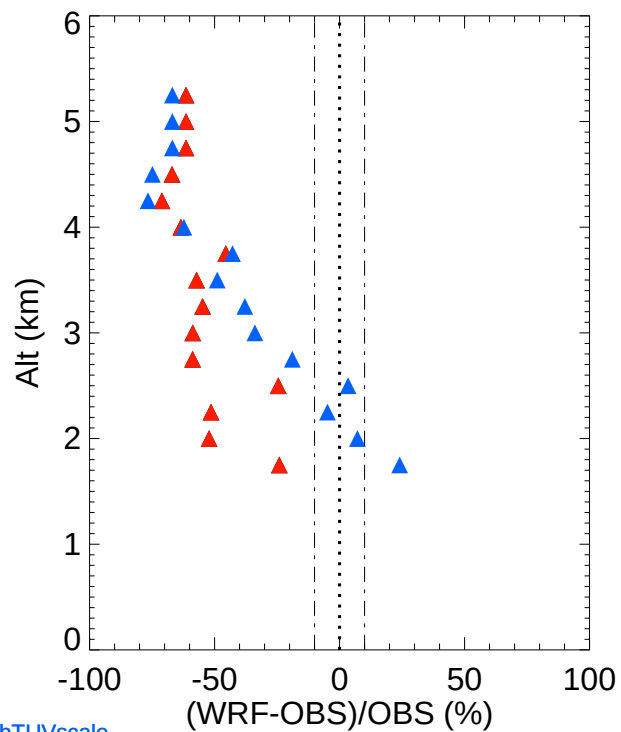
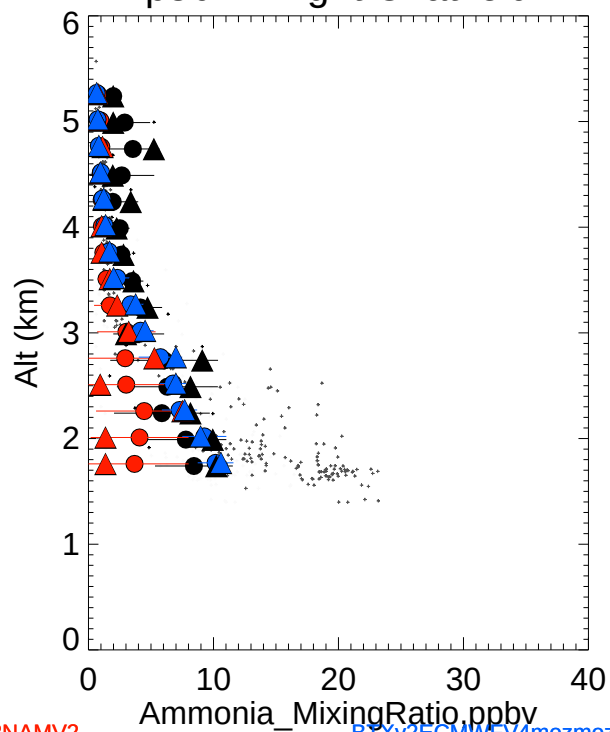
BTXv2NAMV2-

BTXv2ECMWFV4mo
mozaicRedMobTUVscale-

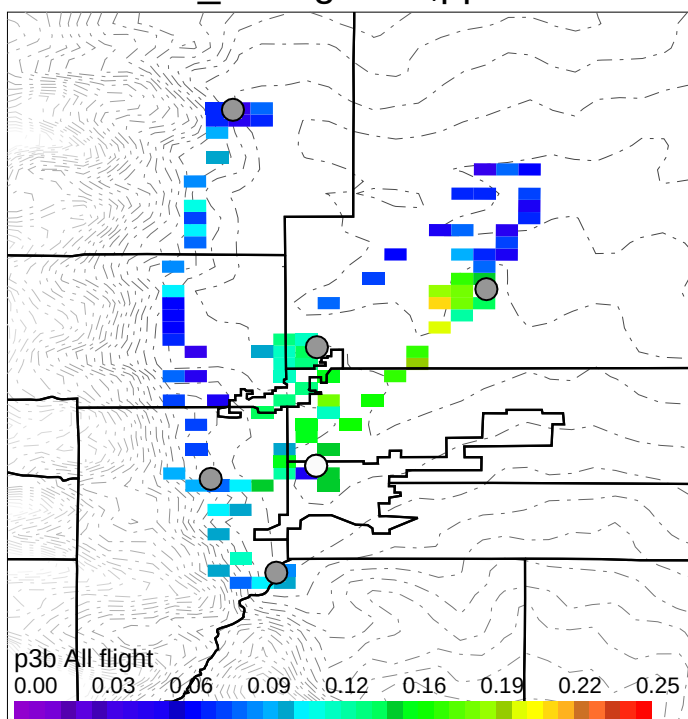
p3b All flight LaCasa



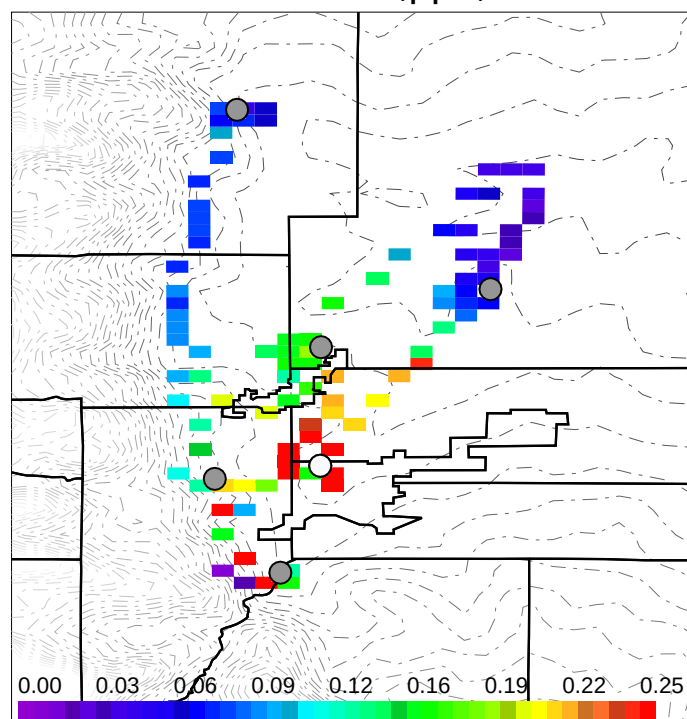
p3b All flight Chatfield



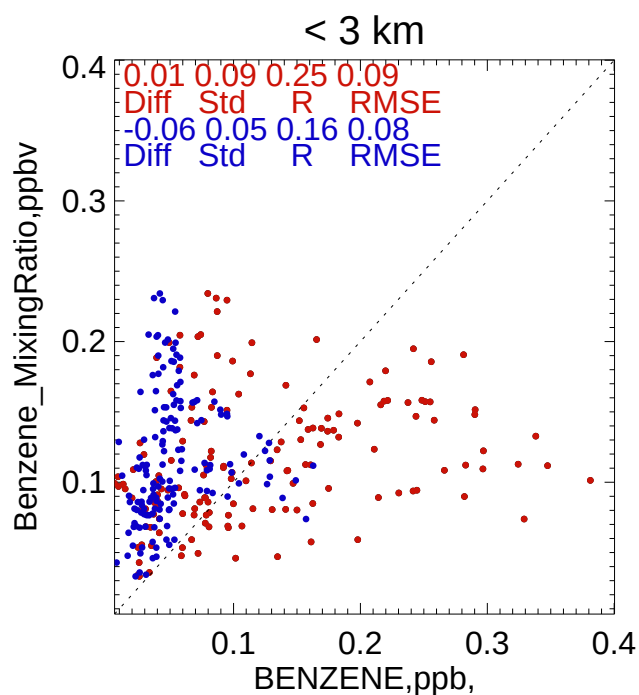
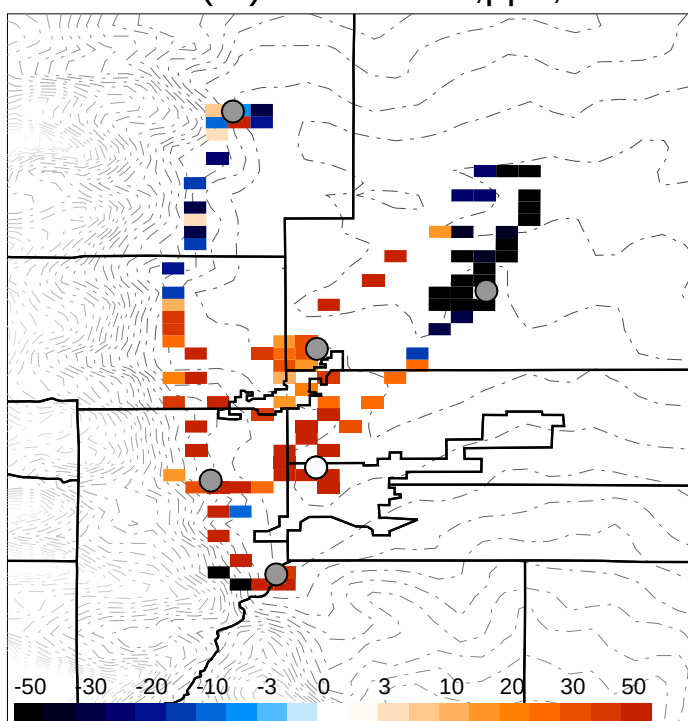
Benzene_MixingRatio,ppbv < 3 km



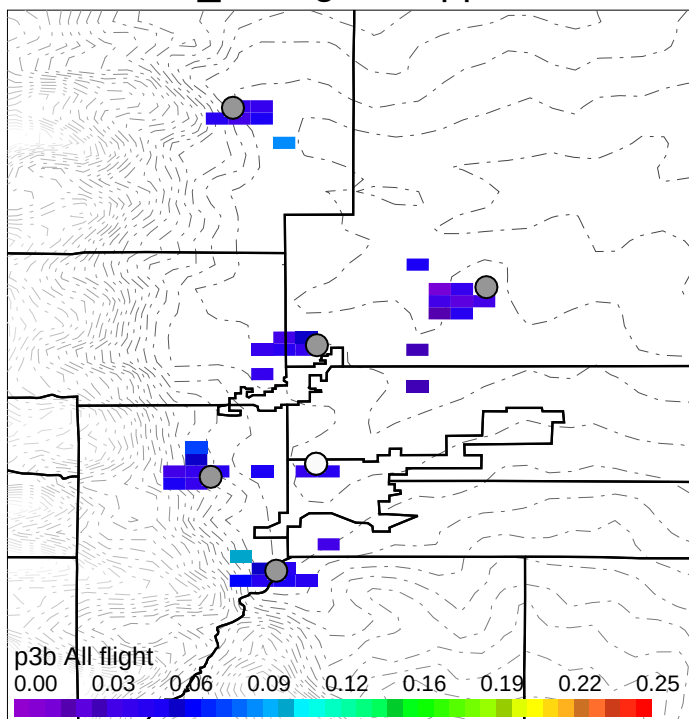
Model BENZENE,ppb, < 3 km



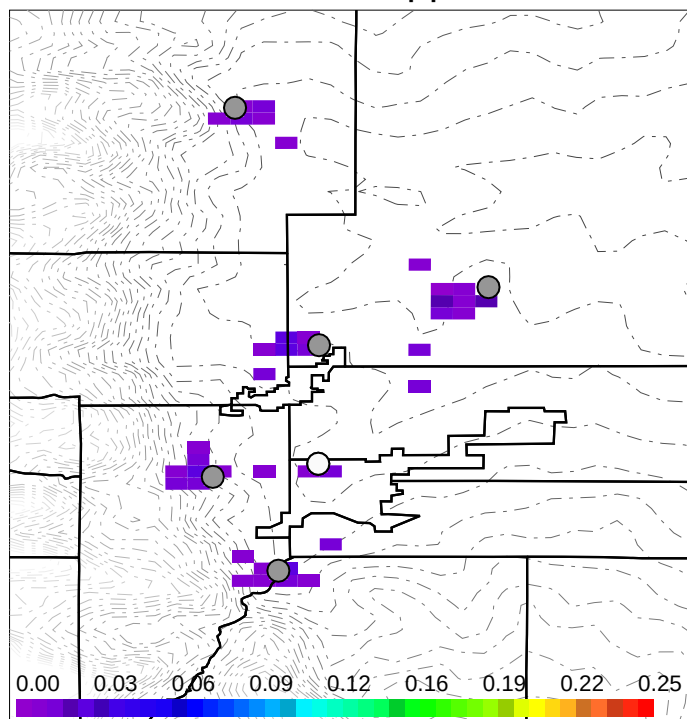
Model-Obs(%) BENZENE,ppb, < 3 km



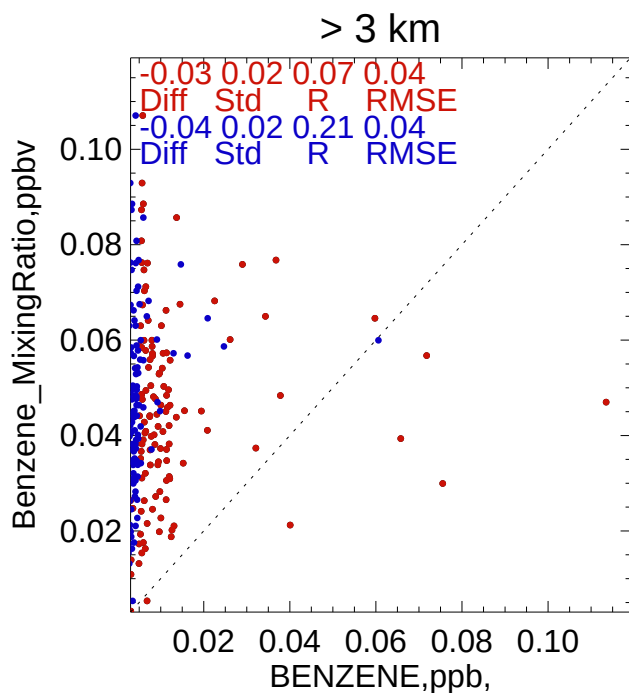
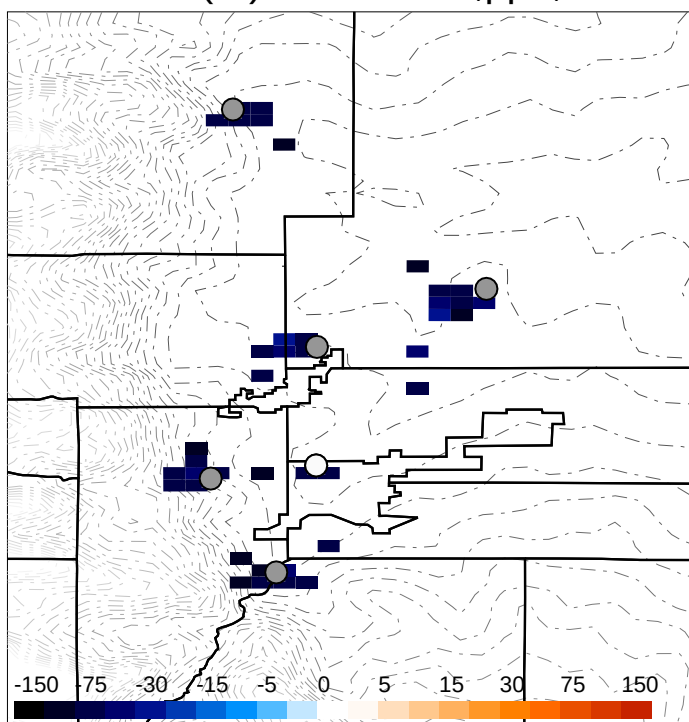
Benzene_MixingRatio,ppbv > 3 km



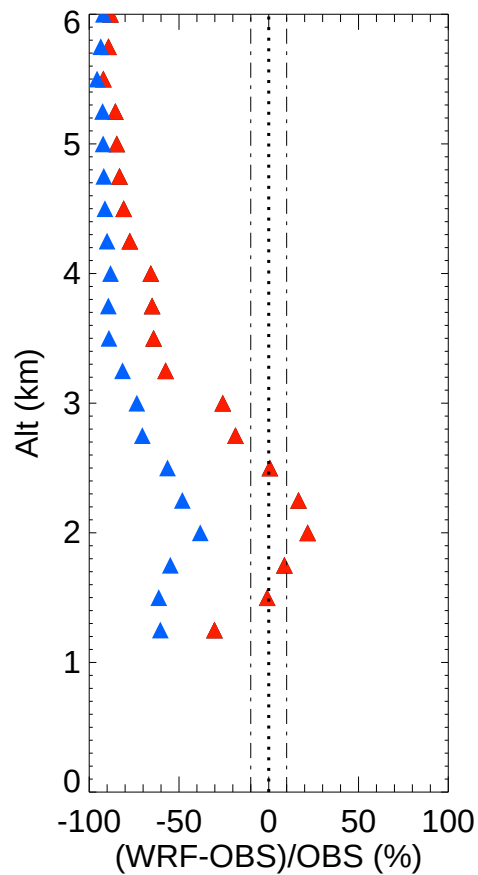
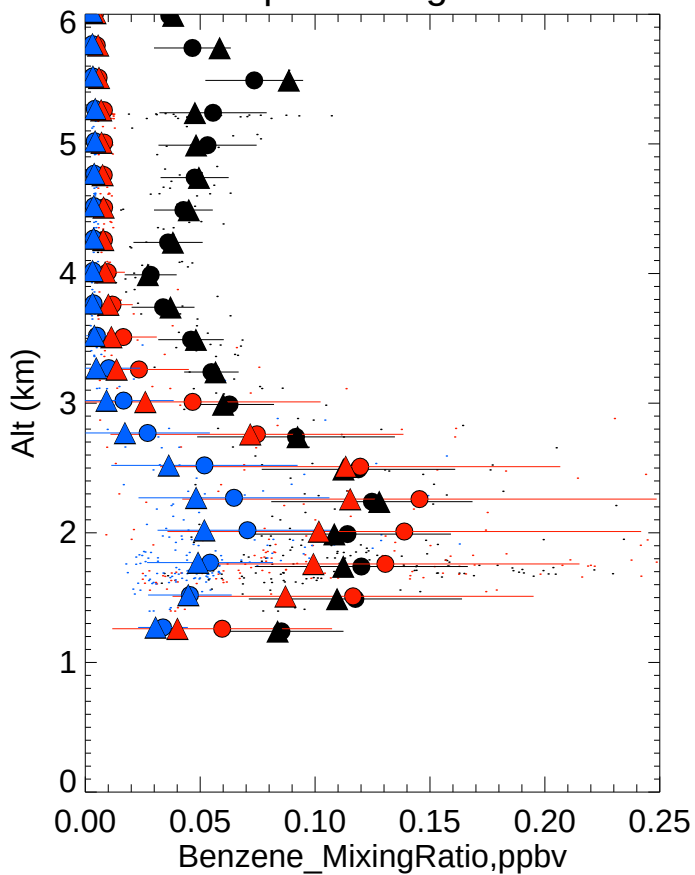
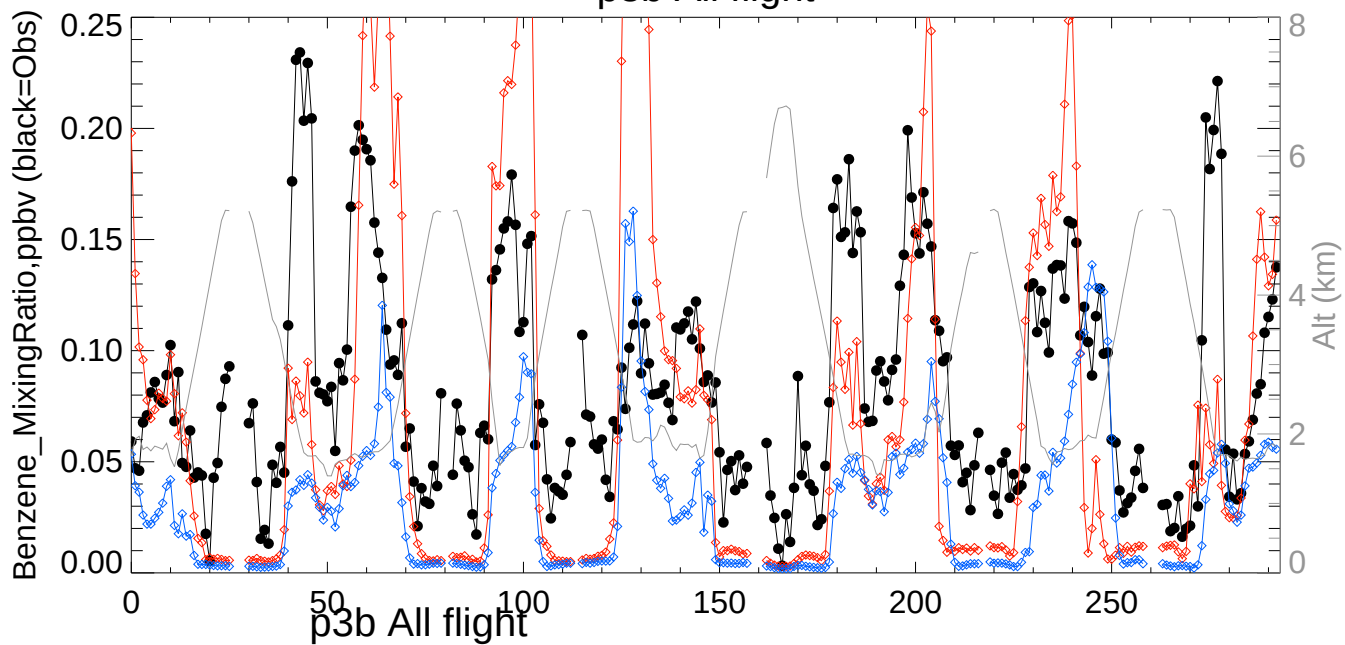
Model BENZENE,ppb, > 3 km



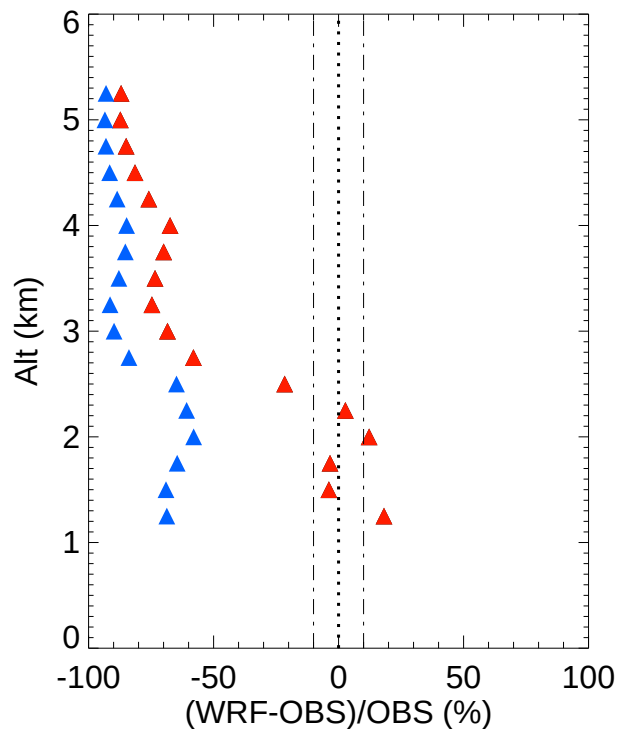
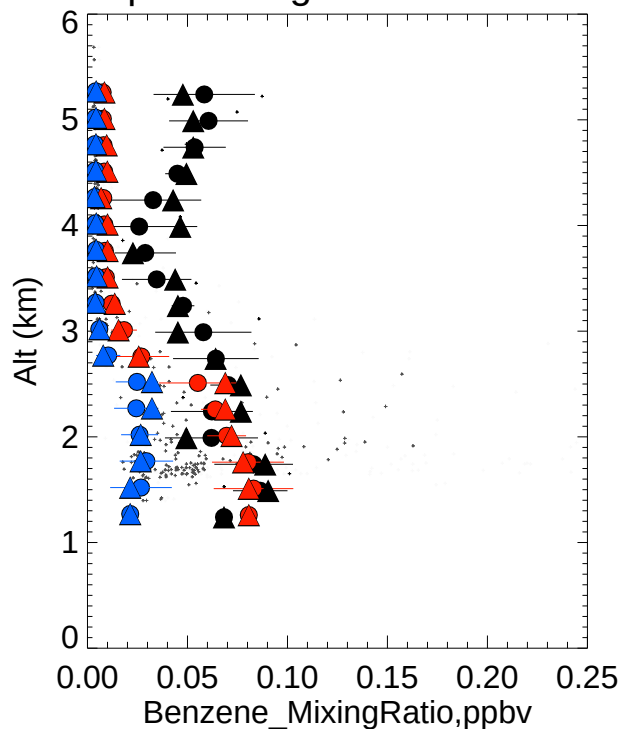
Model-Obs(%) BENZENE,ppb, > 3 km



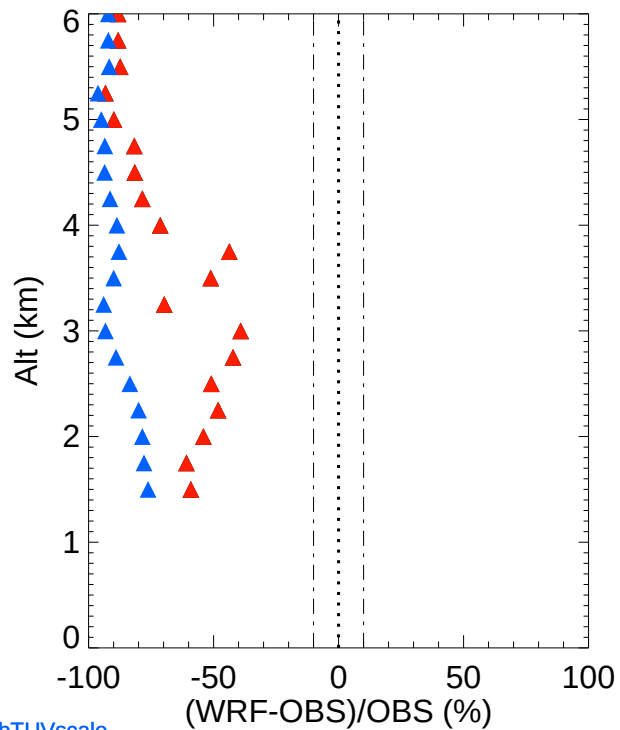
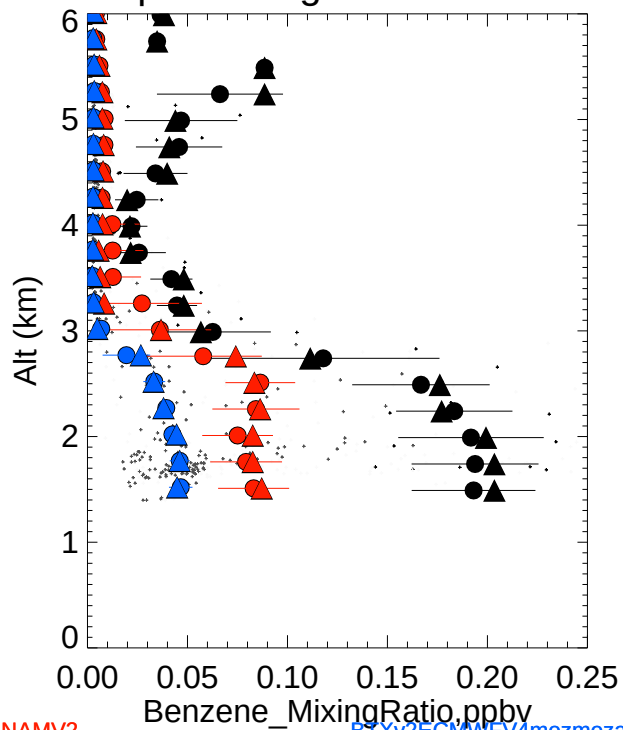
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
 p3b All flight



p3b All flight FortCollins



p3b All flight Platteville

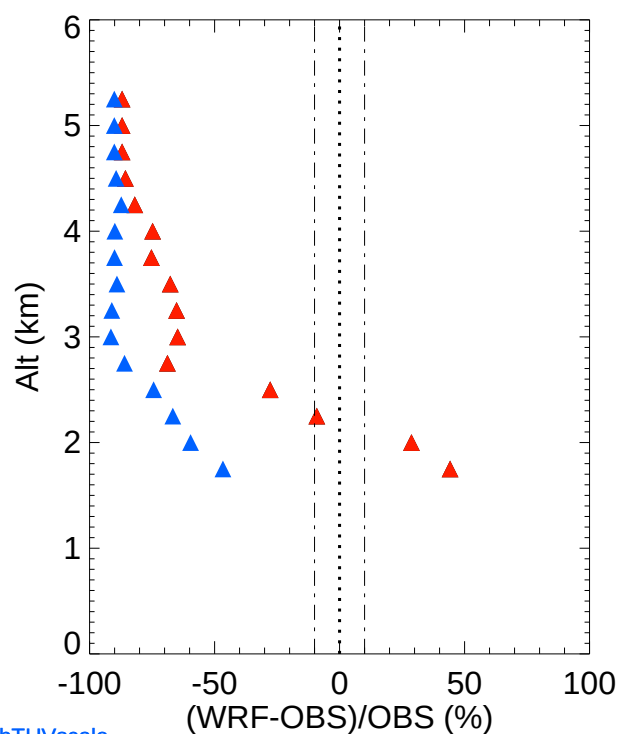
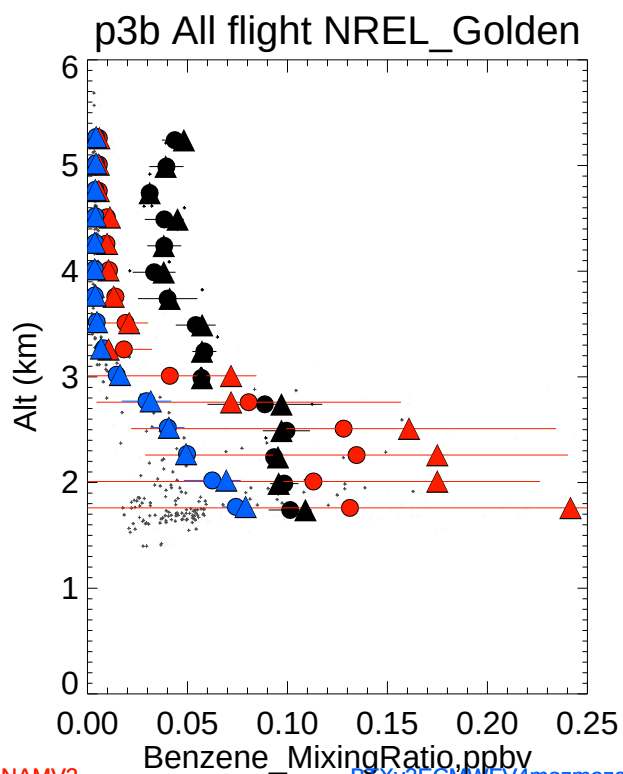
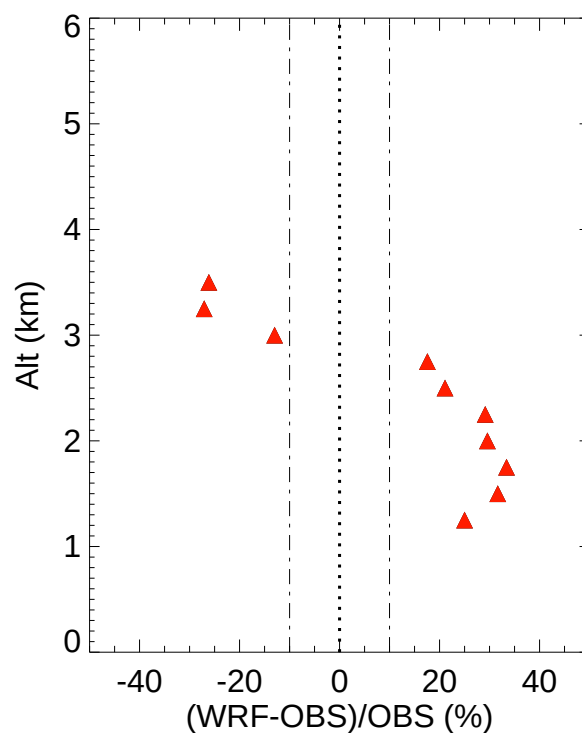
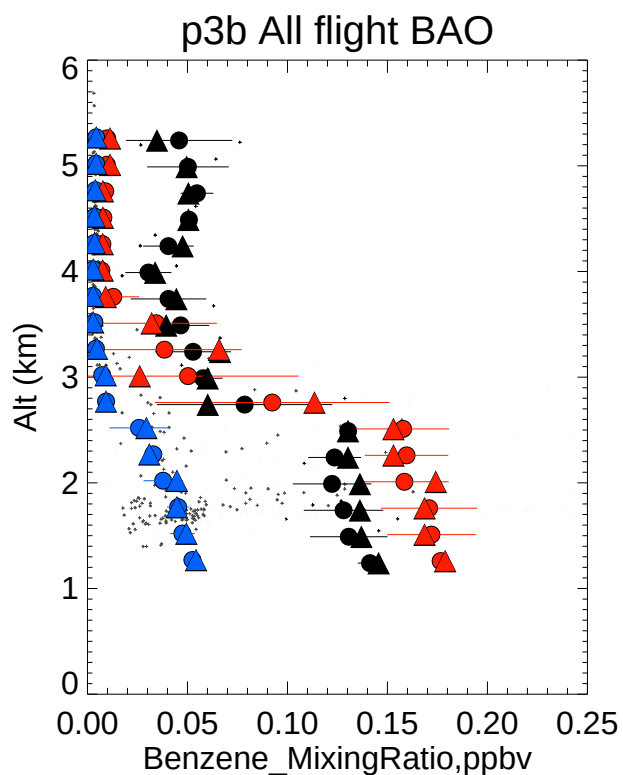


BTXv2NAMV2-

BTXv2ECMWFV4mozm

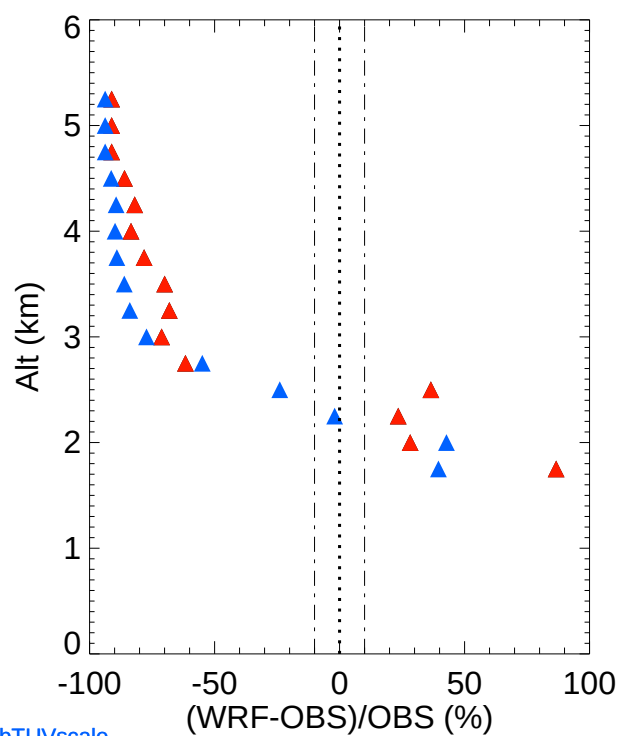
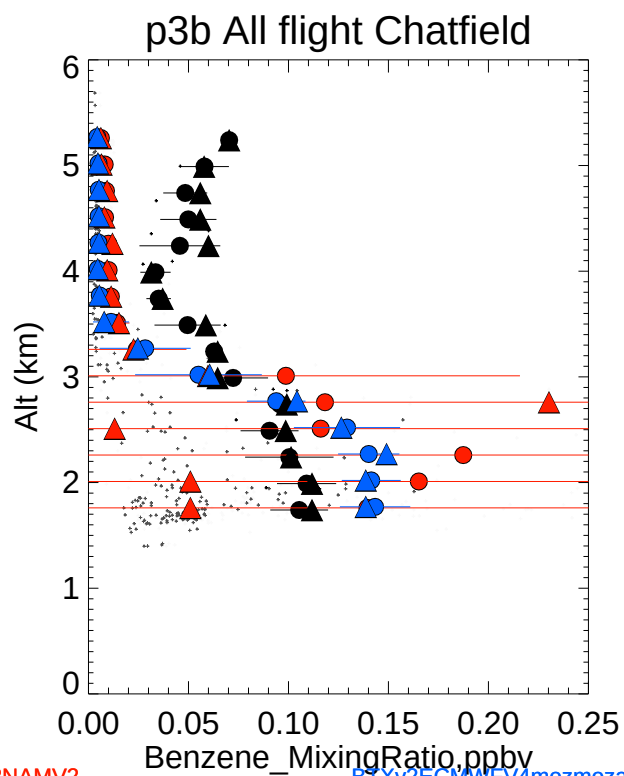
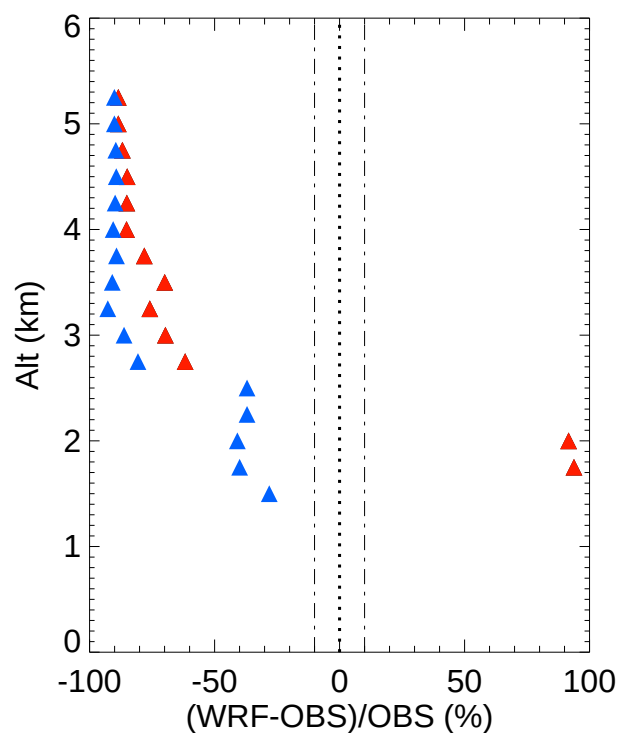
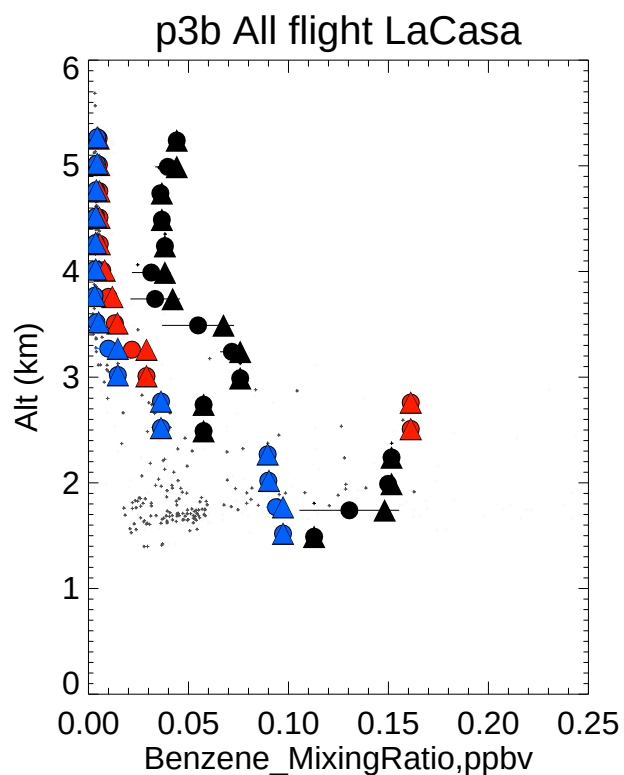
mozaic

RedMobTUVscale-



BTXv2NAMV2-

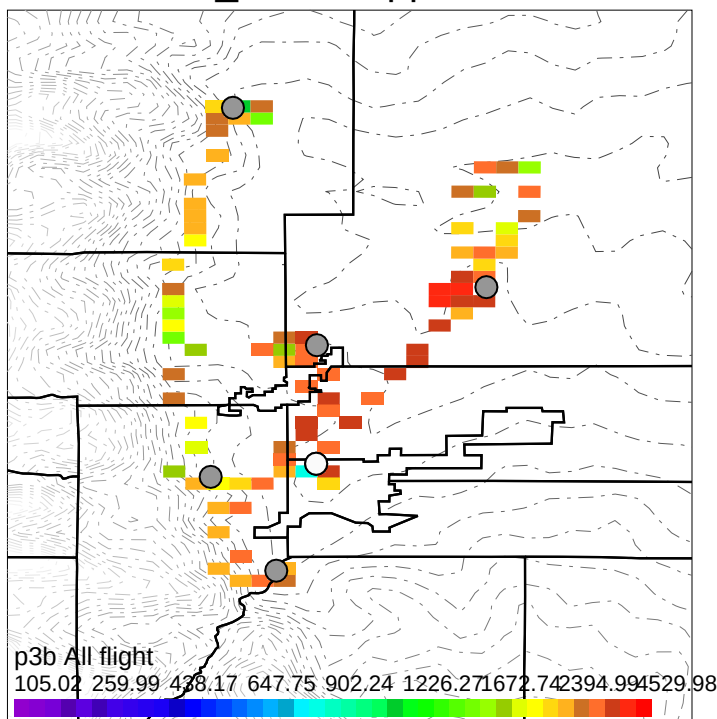
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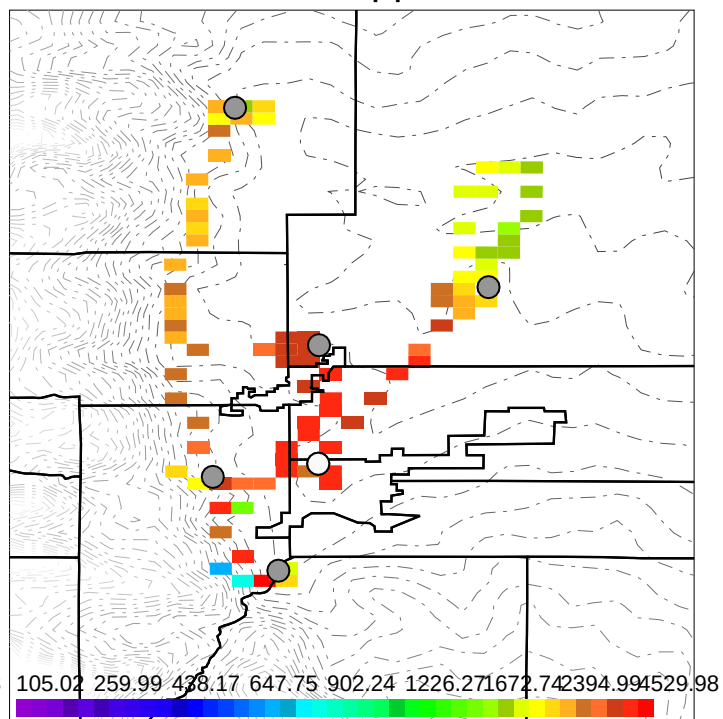
BTXv2NAMV2-

BTXv2ECMWFV4mozmzoaicRedMobTUVscale-

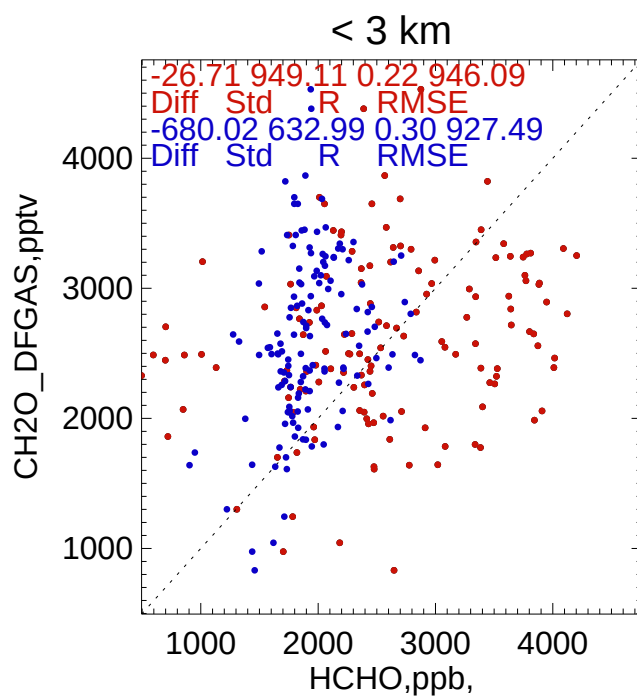
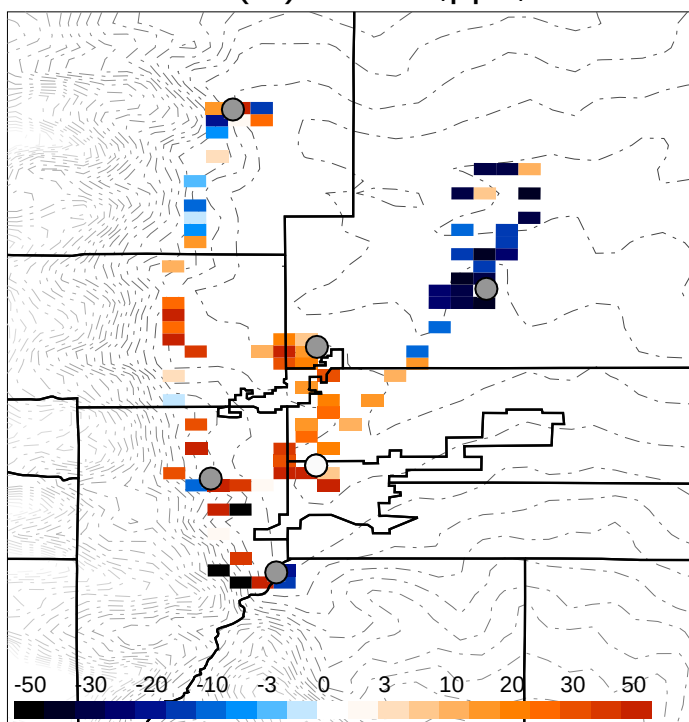
CH2O_DFGAS,pptv < 3 km



Model HCHO,ppb, < 3 km



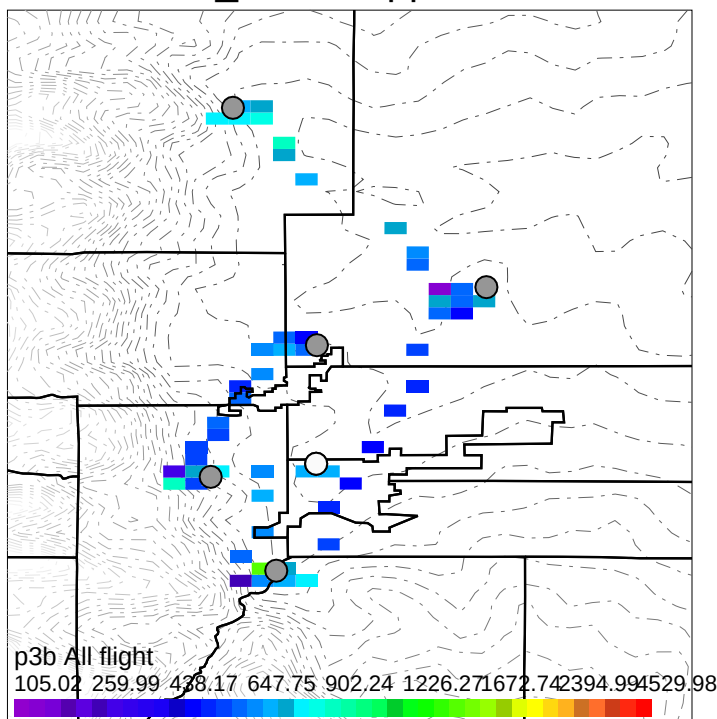
Model-Obs(%) HCHO,ppb, < 3 km



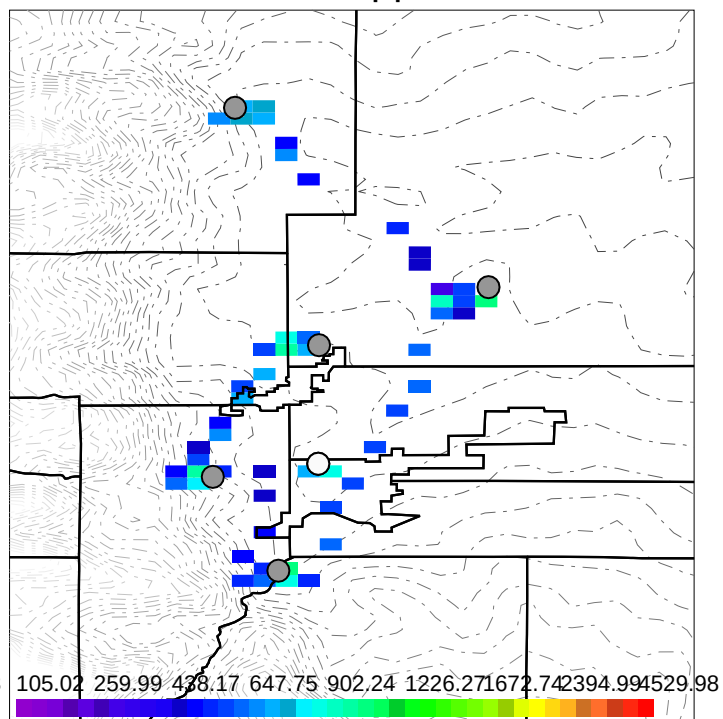
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

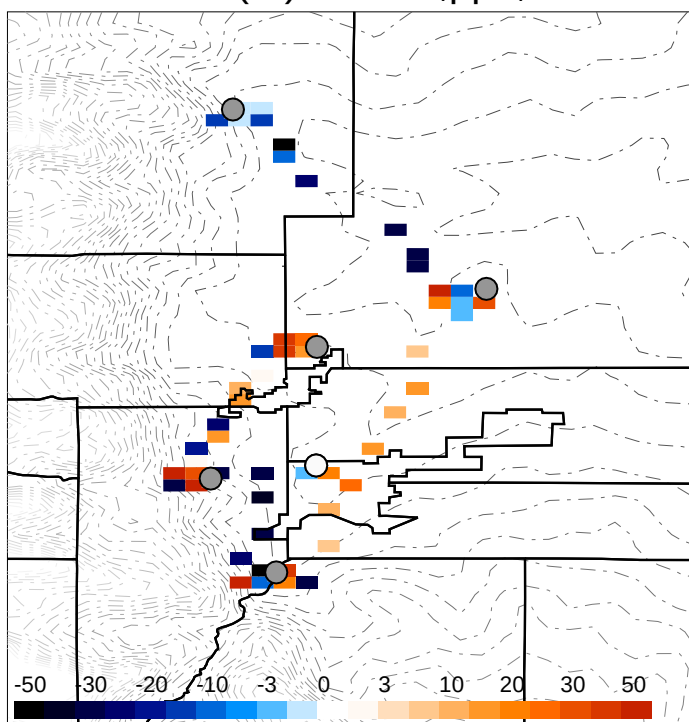
CH2O_DFGAS,pptv > 3 km



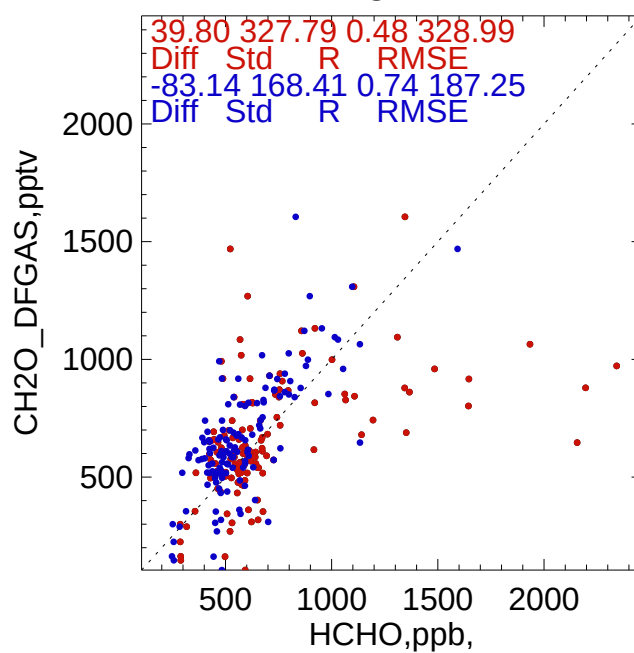
Model HCHO,ppb, > 3 km



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



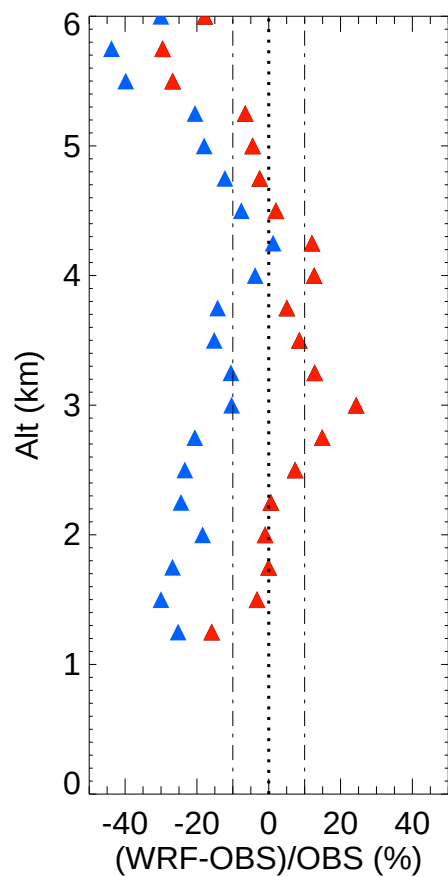
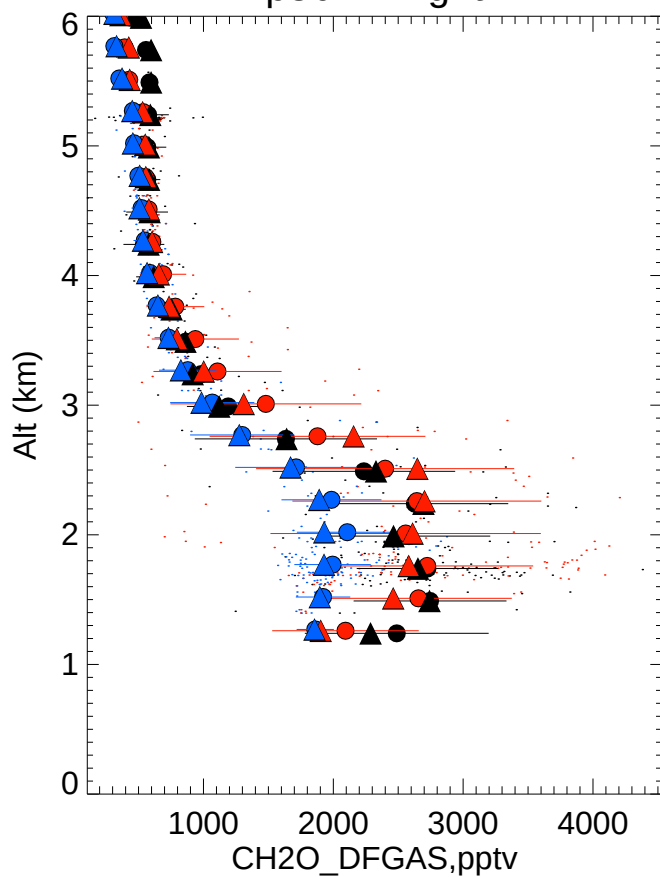
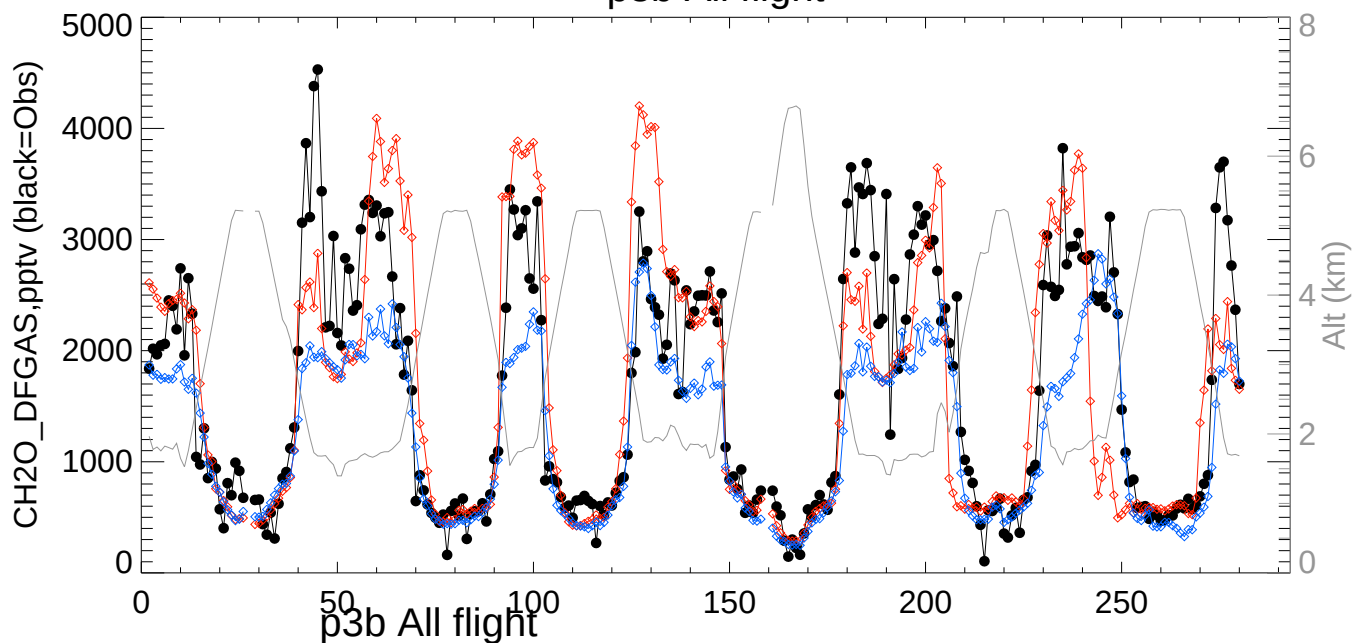
> 3 km



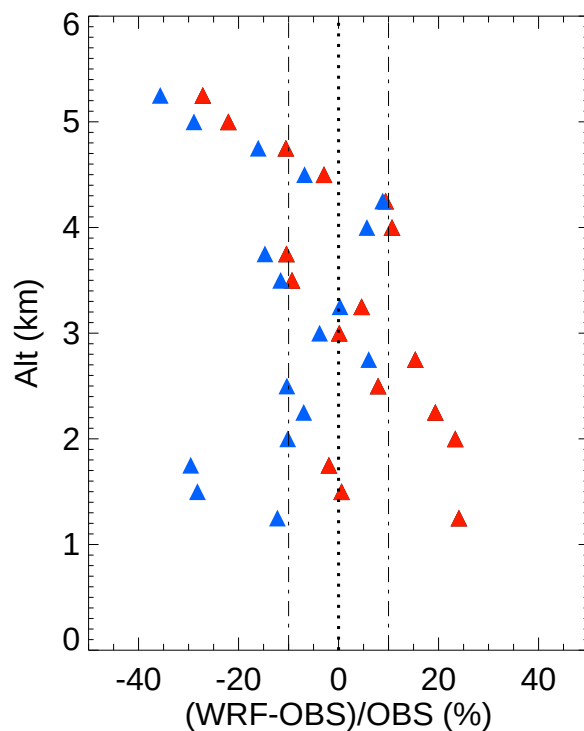
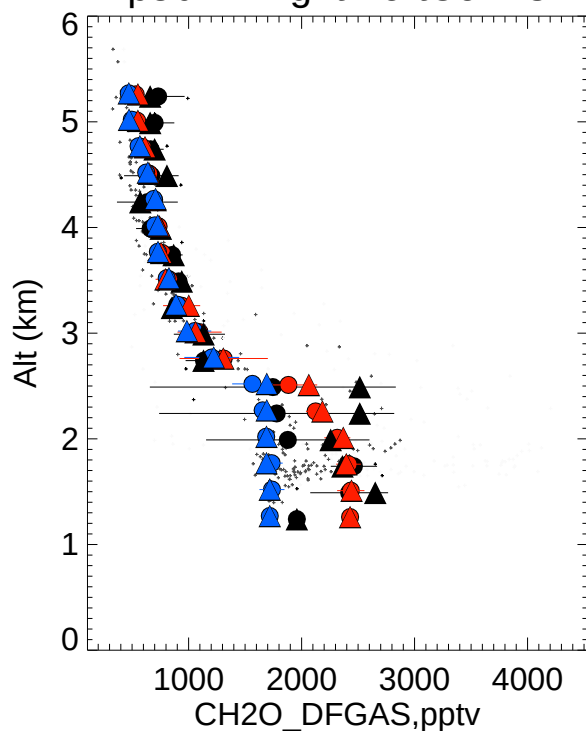
BTXv2NAMV2-

BTXv2ECMWFV4mozmoz

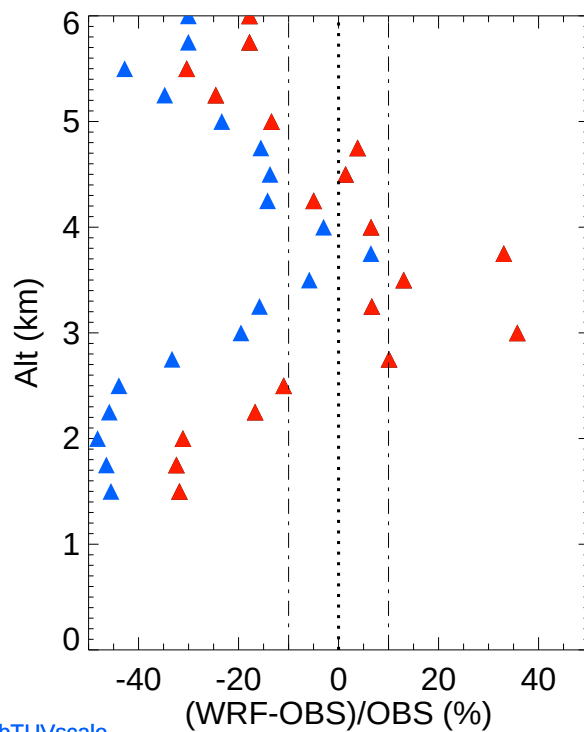
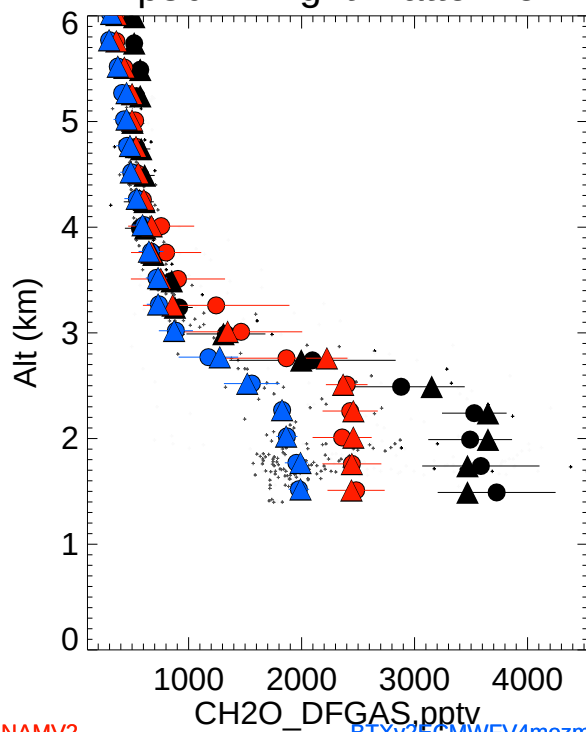
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight

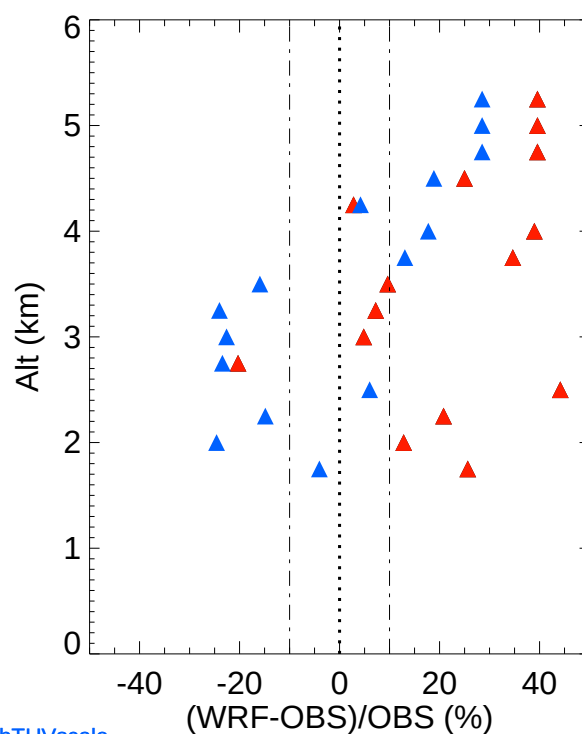
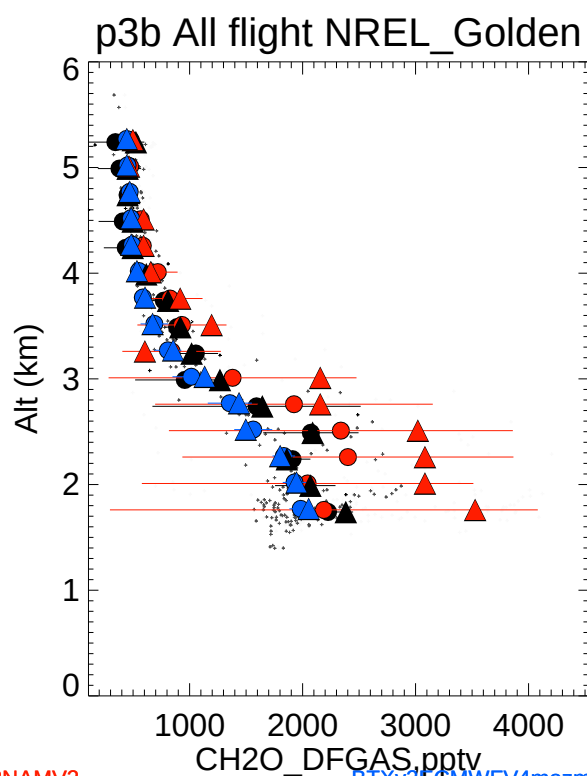
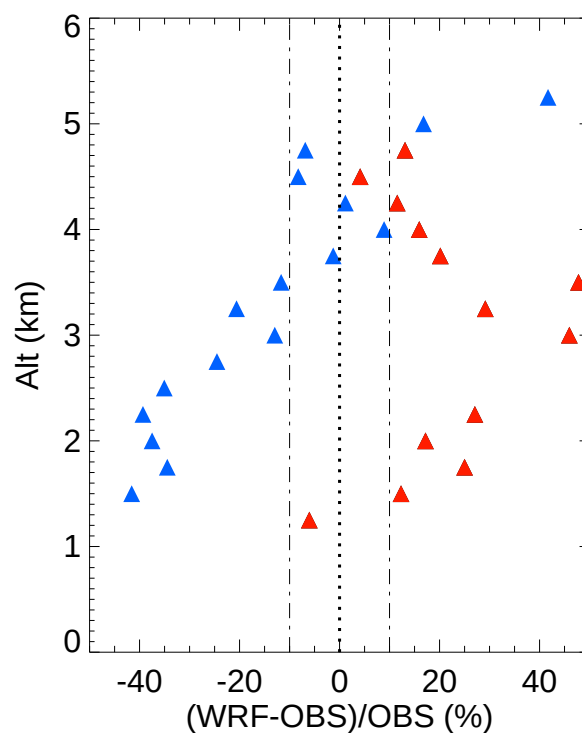
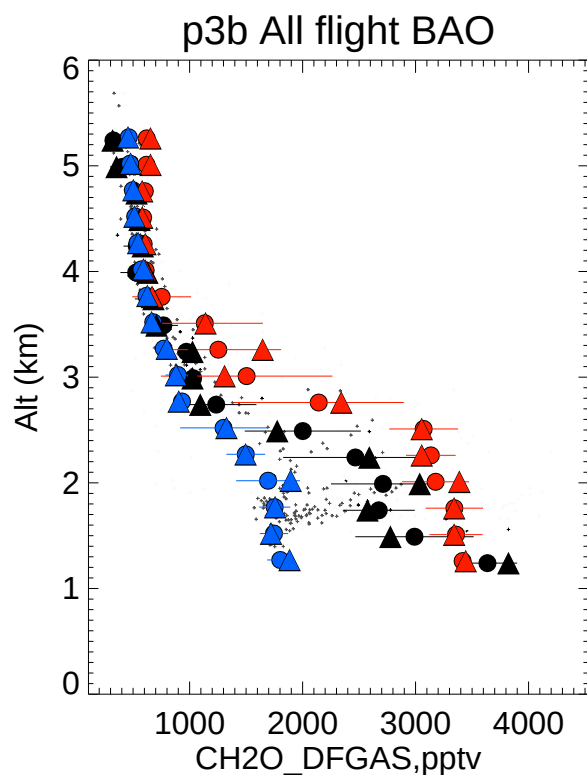


p3b All flight FortCollins



p3b All flight Platteville



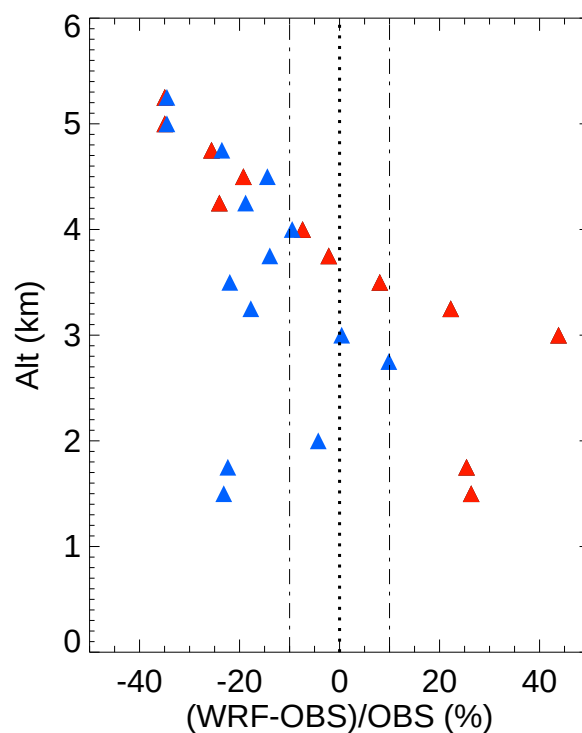
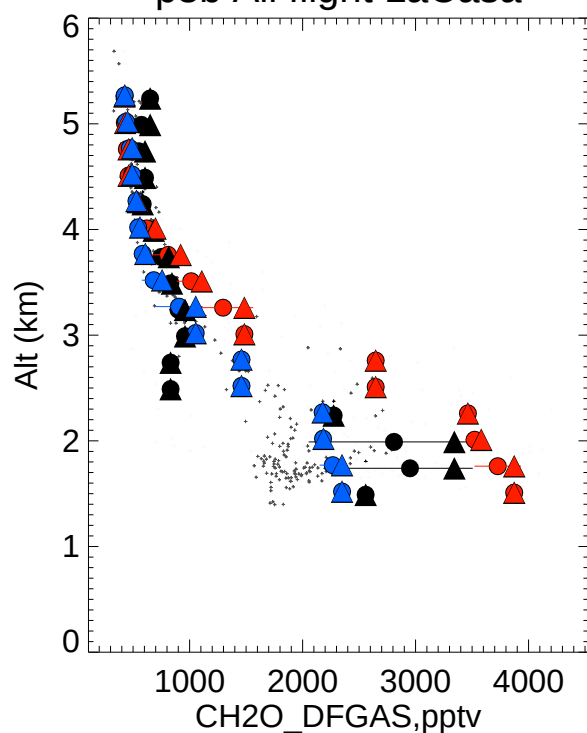


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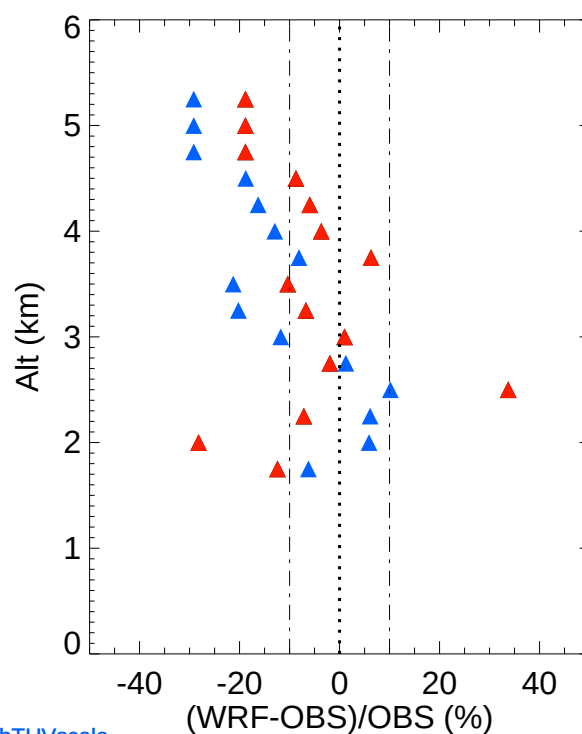
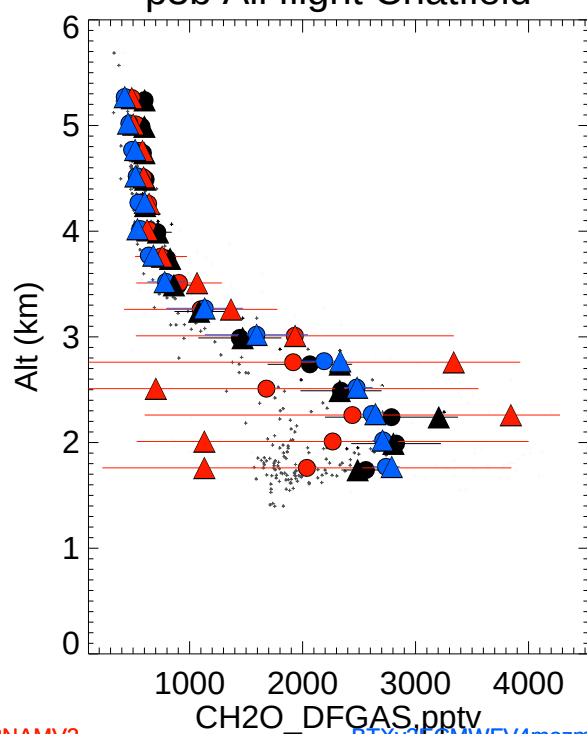
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RedMobTUVscale-

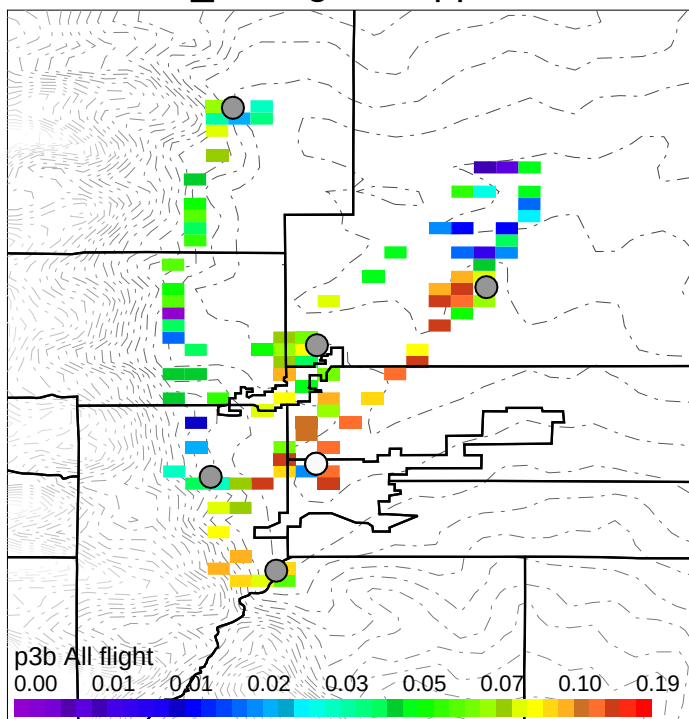
p3b All flight LaCasa



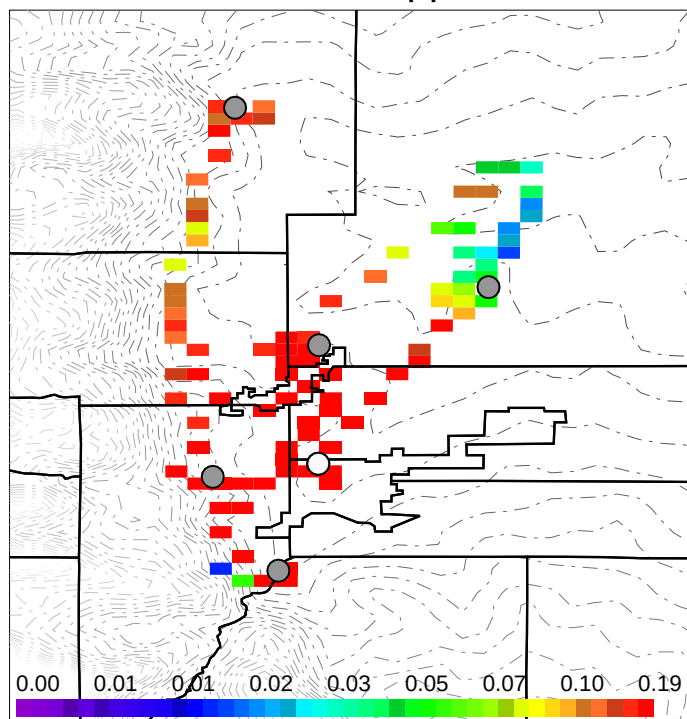
p3b All flight Chatfield



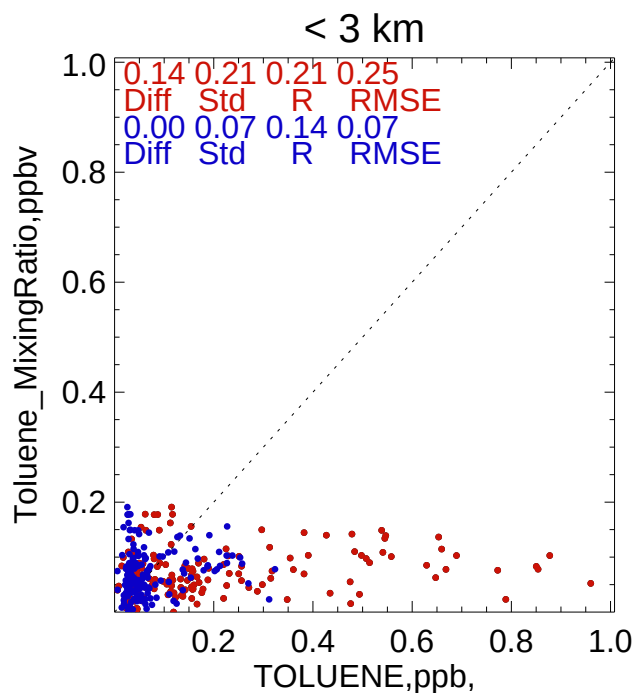
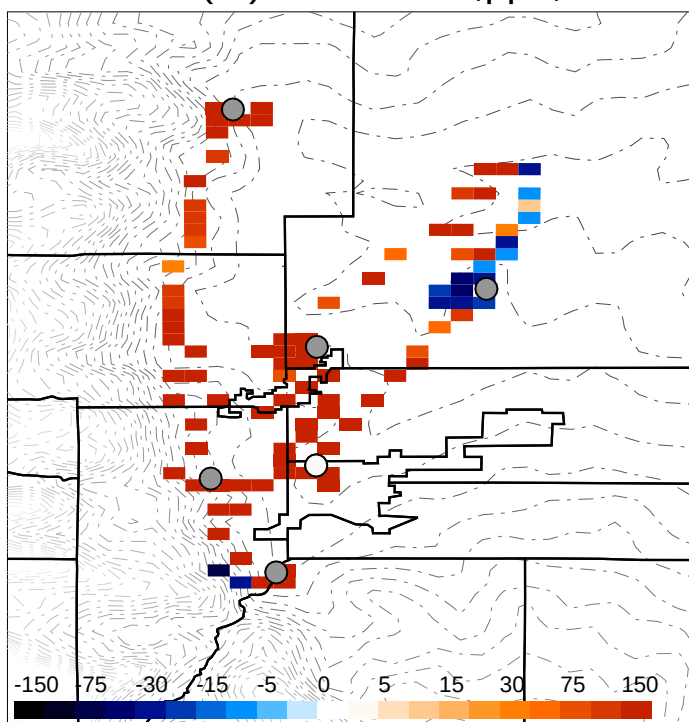
Toluene_MixingRatio,ppbv < 3 km



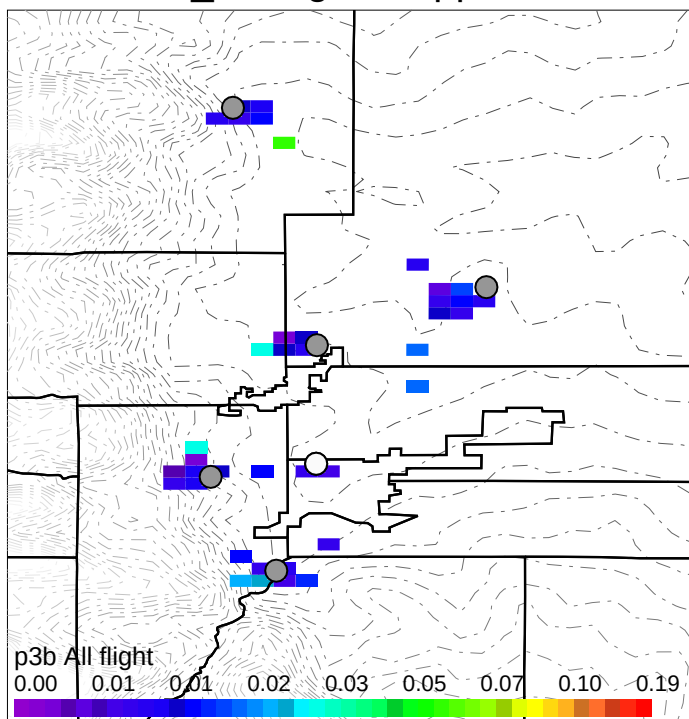
Model TOLUENE,ppb, < 3 km



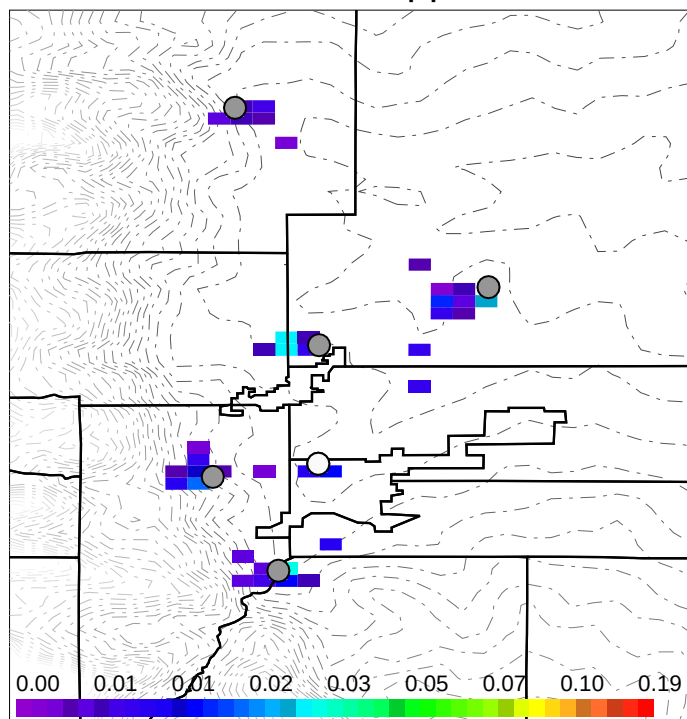
Model-Obs(%) TOLUENE,ppb, < 3 km



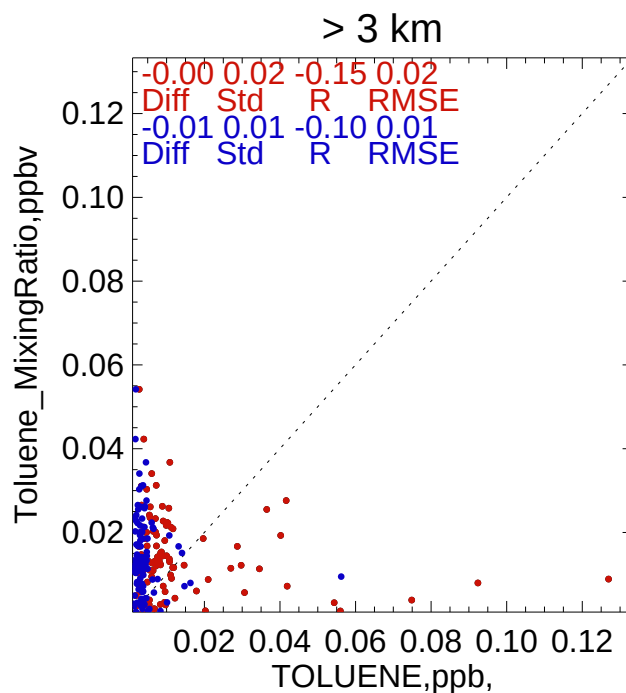
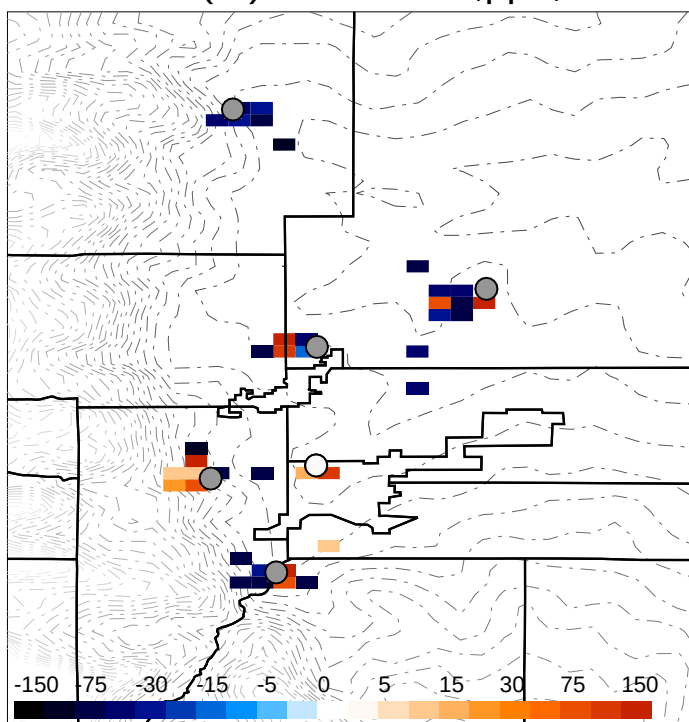
Toluene_MixingRatio,ppbv > 3 km



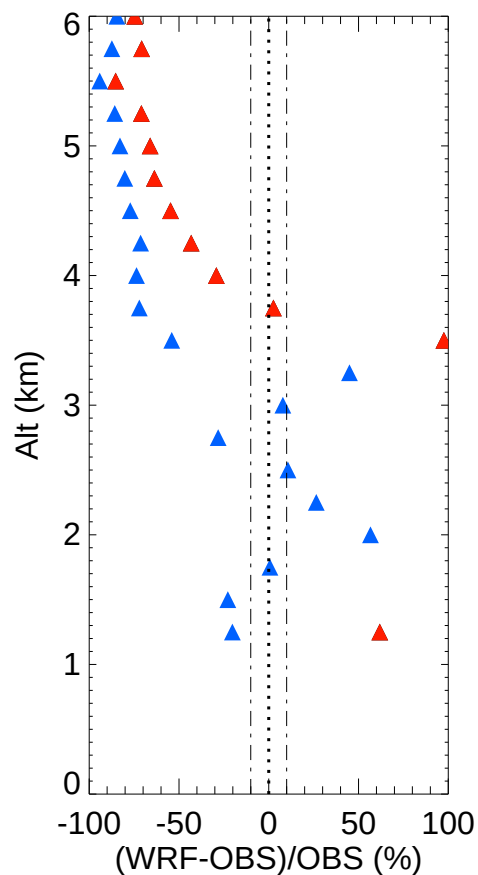
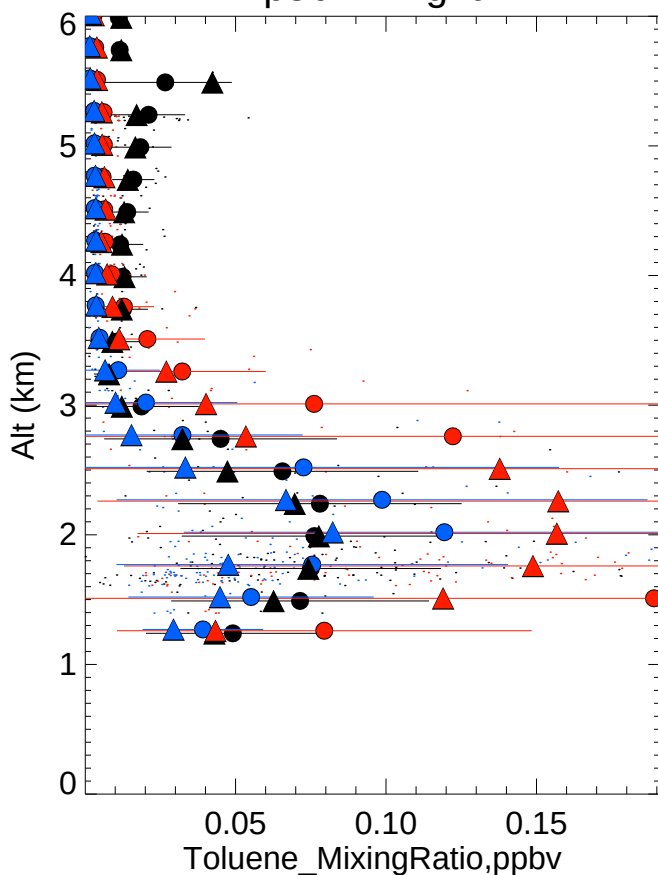
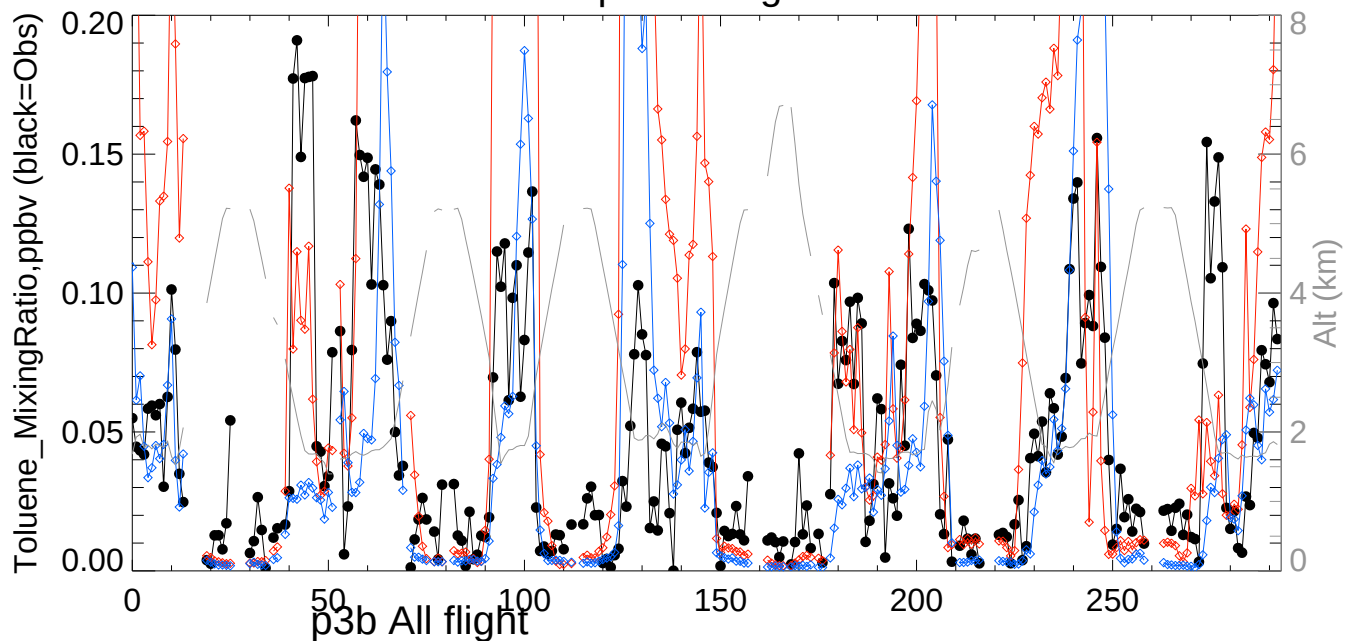
Model TOLUENE,ppb, > 3 km



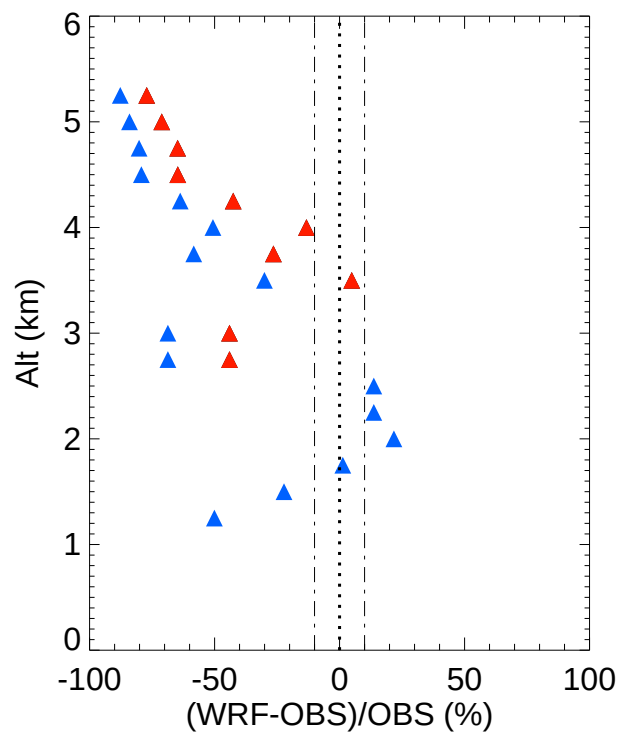
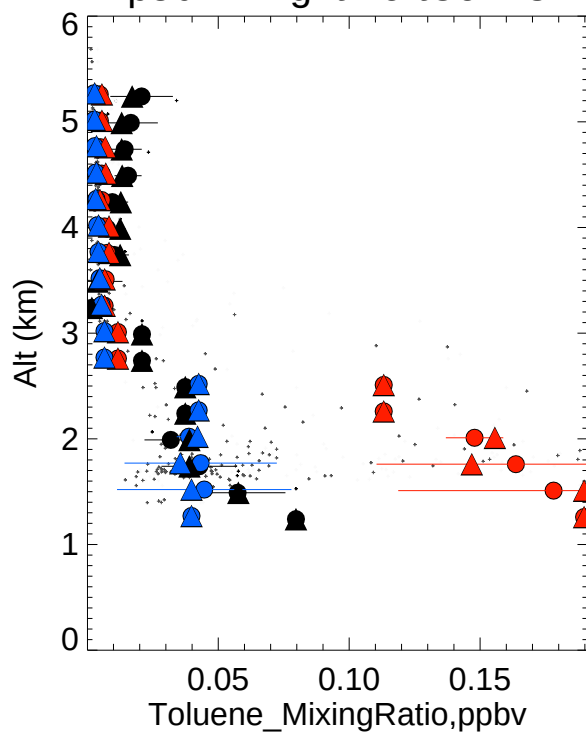
Model-Obs(%) TOLUENE,ppb, > 3 km



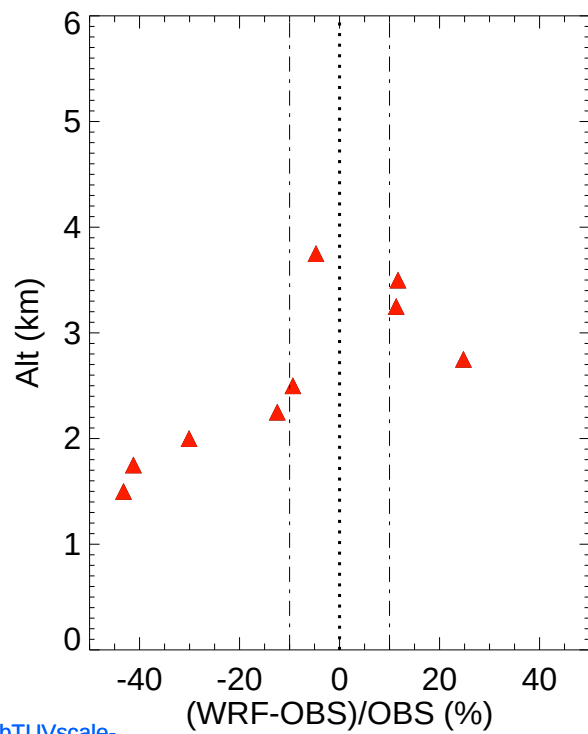
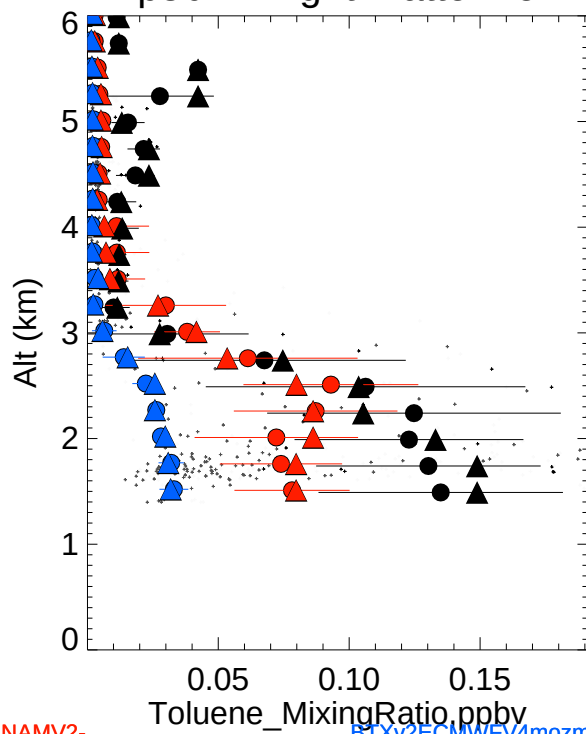
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight



p3b All flight FortCollins

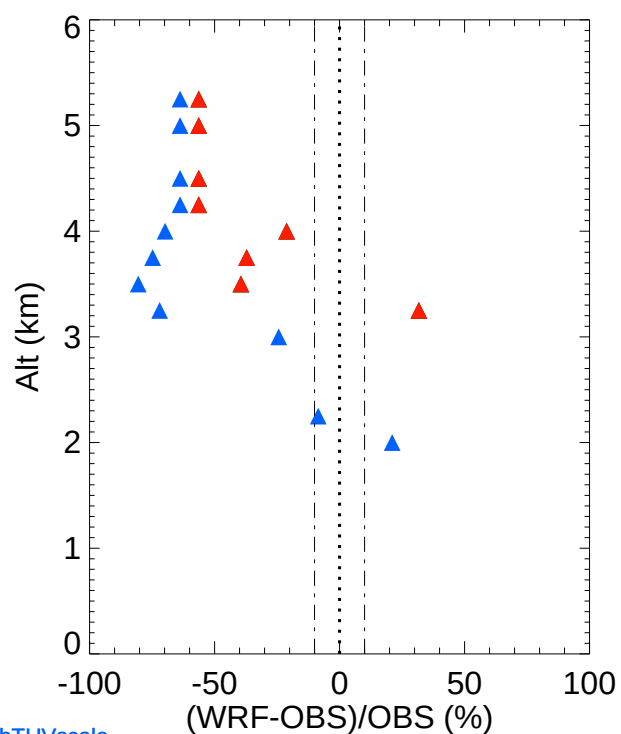
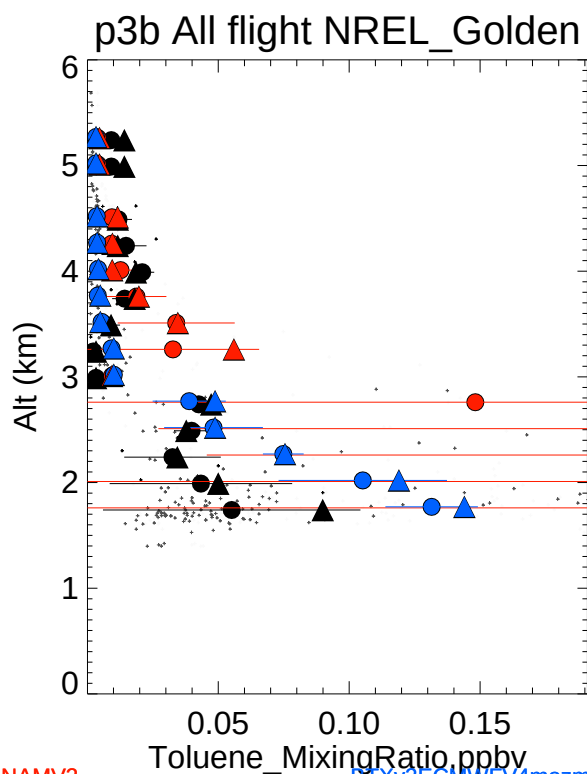
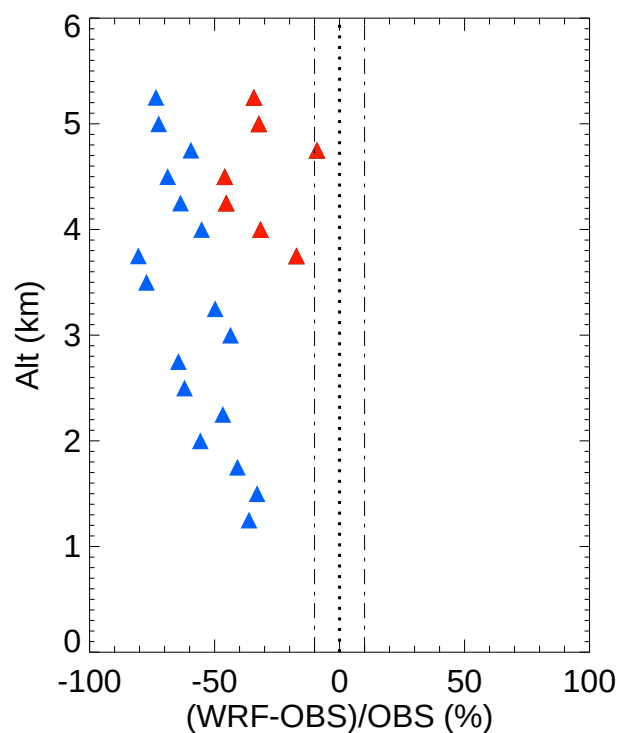
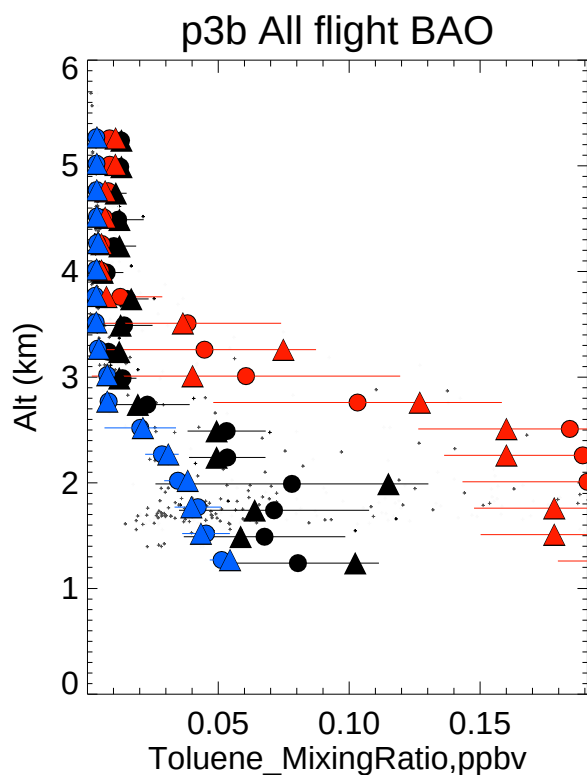


p3b All flight Platteville

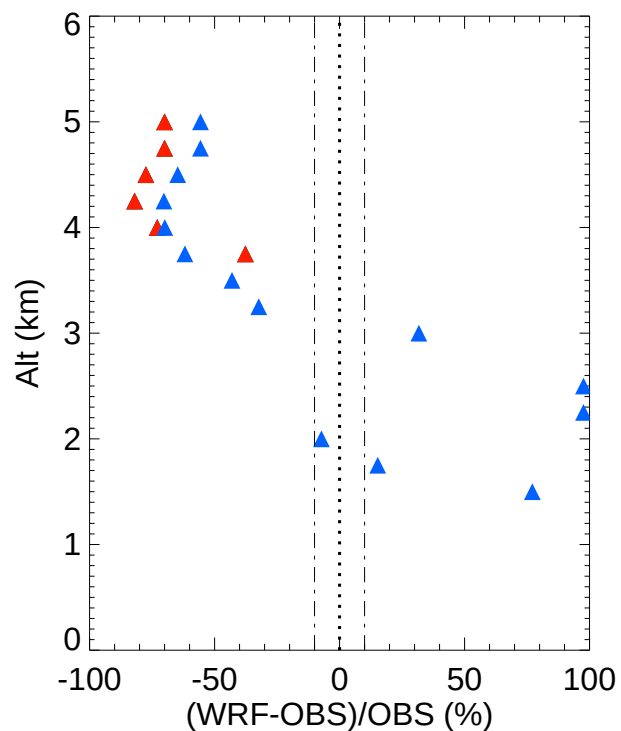
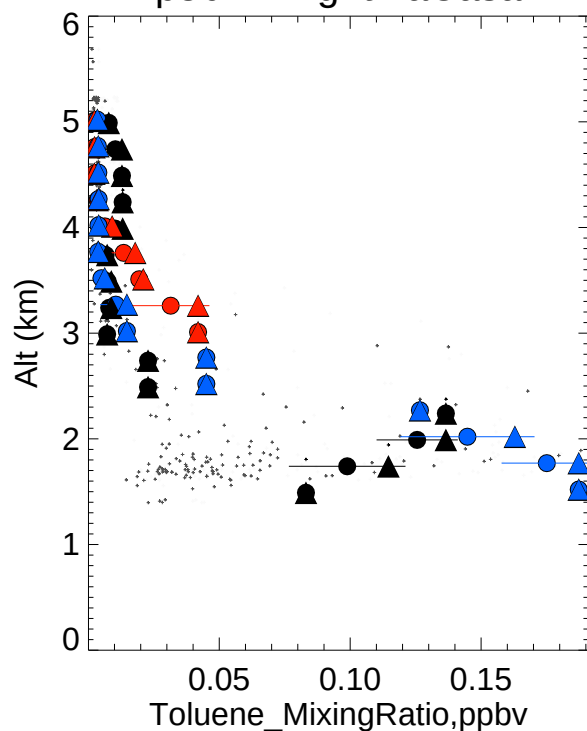


BTXv2NAMV2-

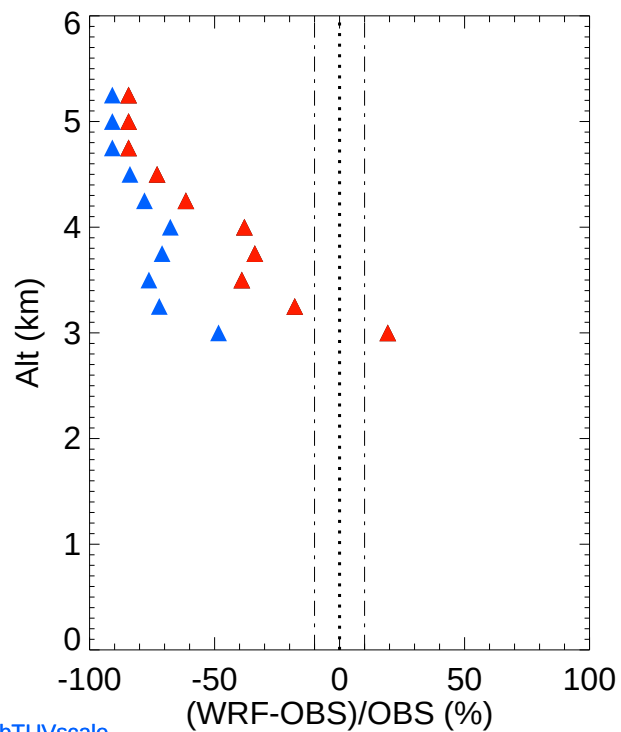
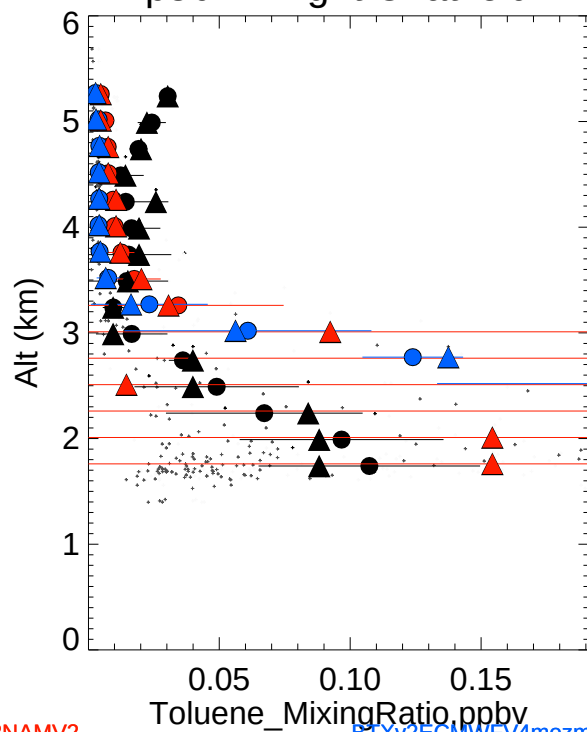
BTXv2ECMWFV4mozmRedMobTUVscale-



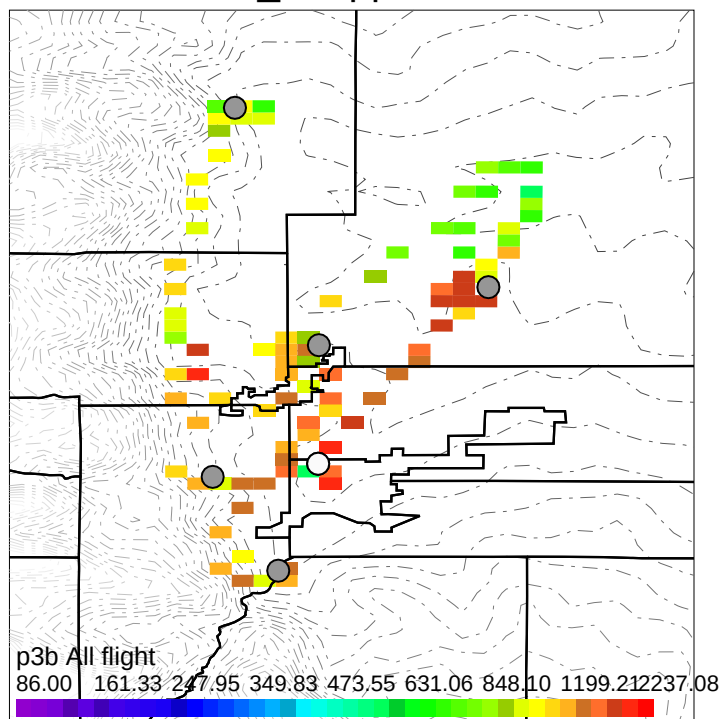
p3b All flight LaCasa



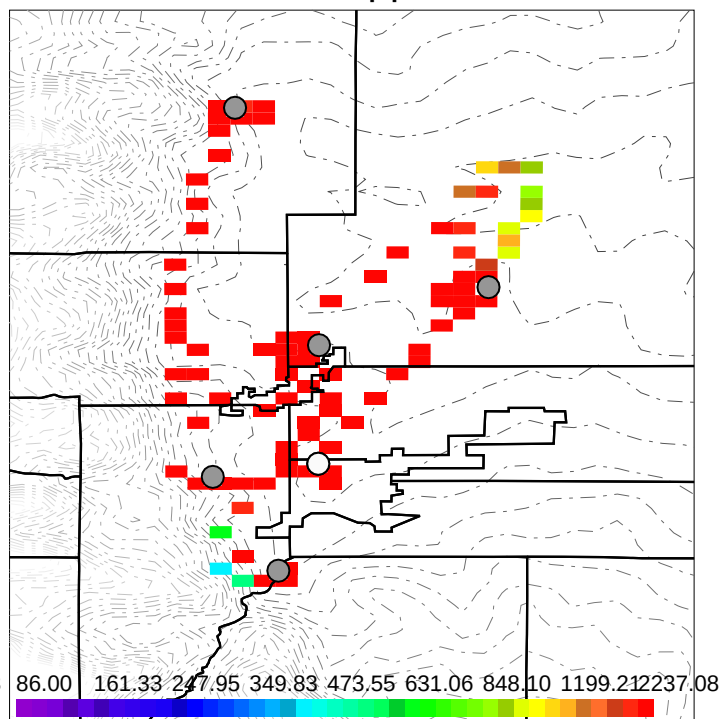
p3b All flight Chatfield



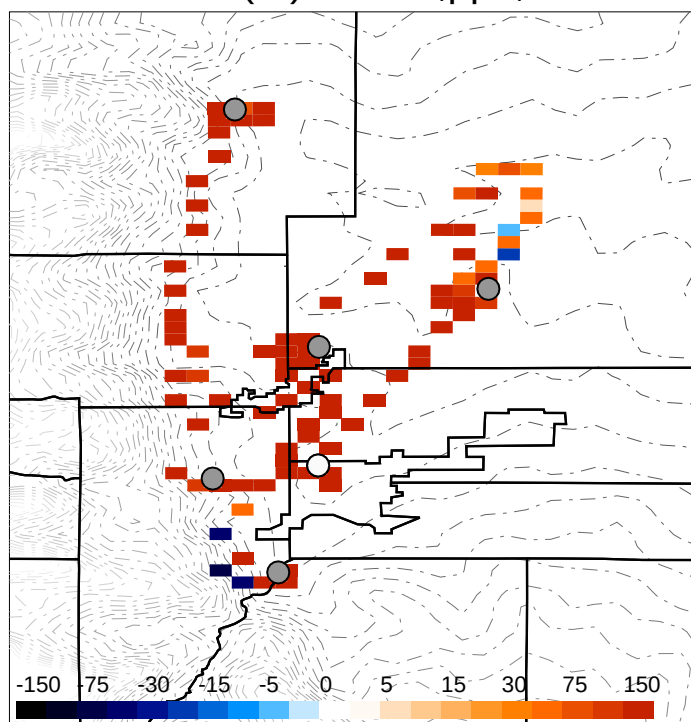
HNO₃_LIF,pptv < 3 km



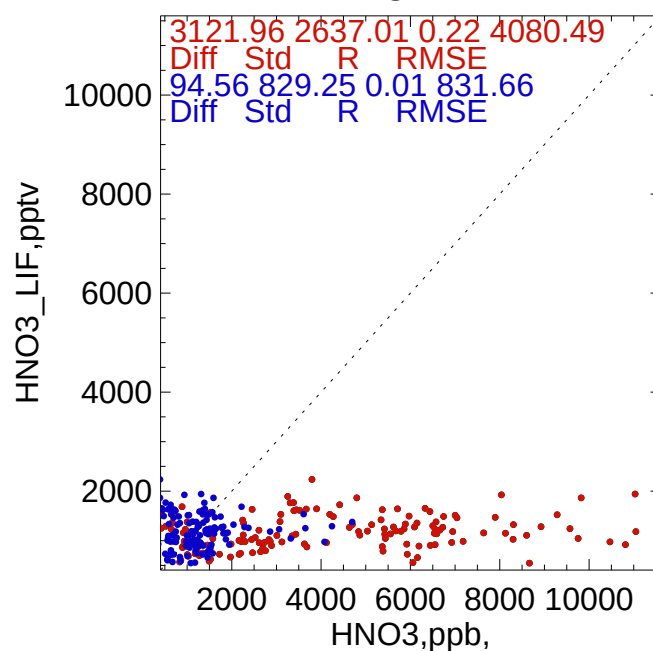
Model HNO₃,ppb, < 3 km



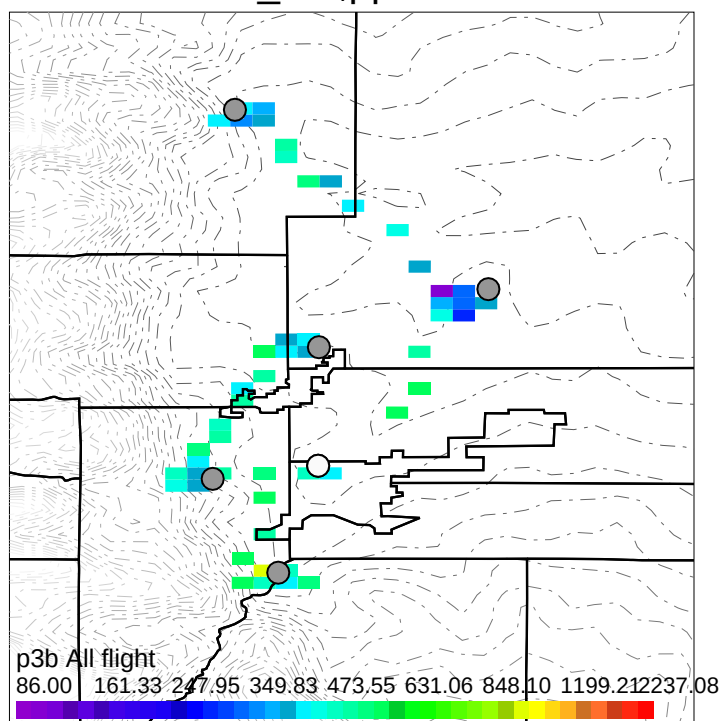
Model-Obs(%) HNO₃,ppb, < 3 km



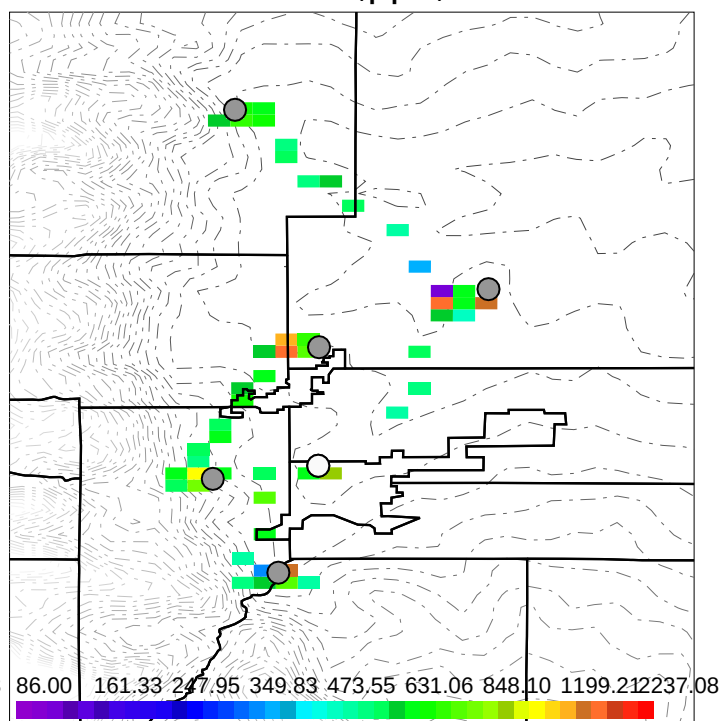
< 3 km



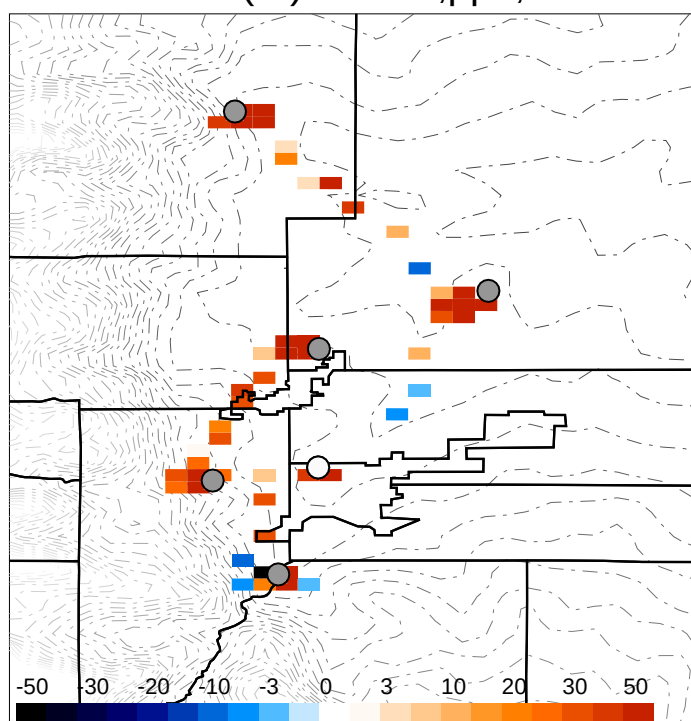
HNO3_LIF,pptv > 3 km



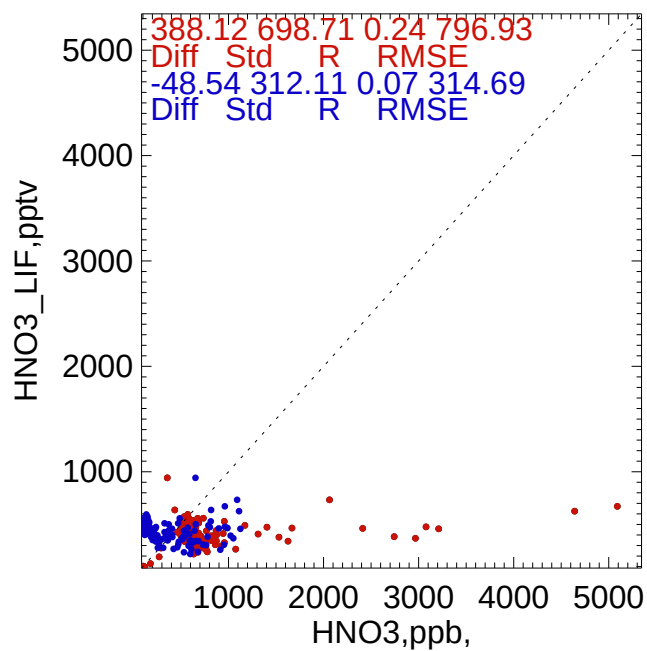
Model HNO3,ppb, > 3 km



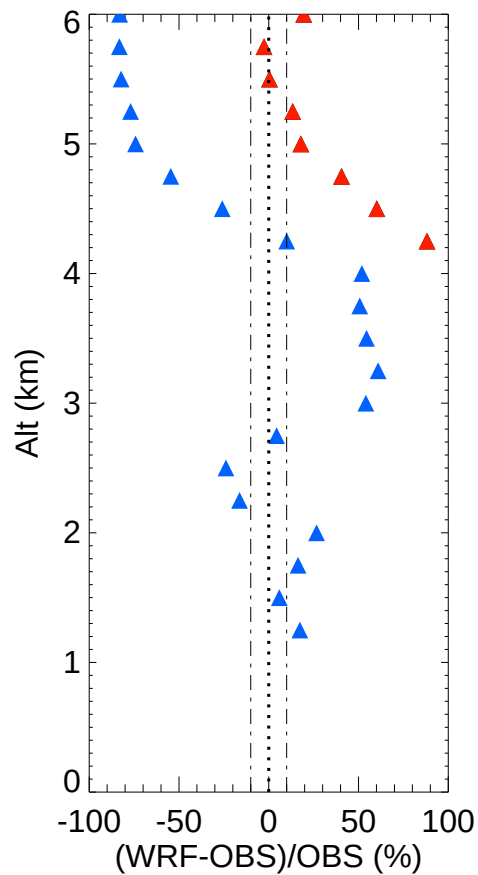
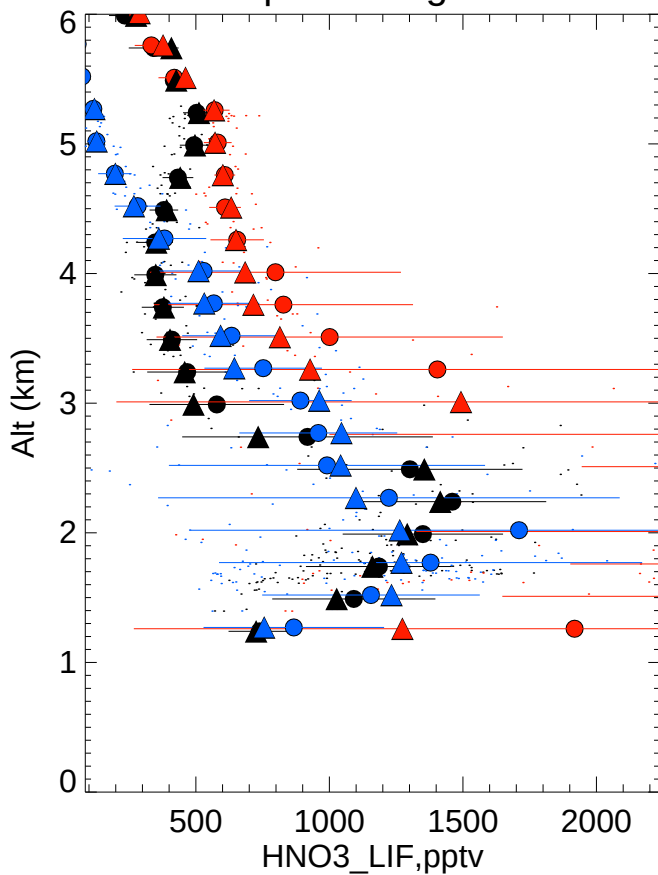
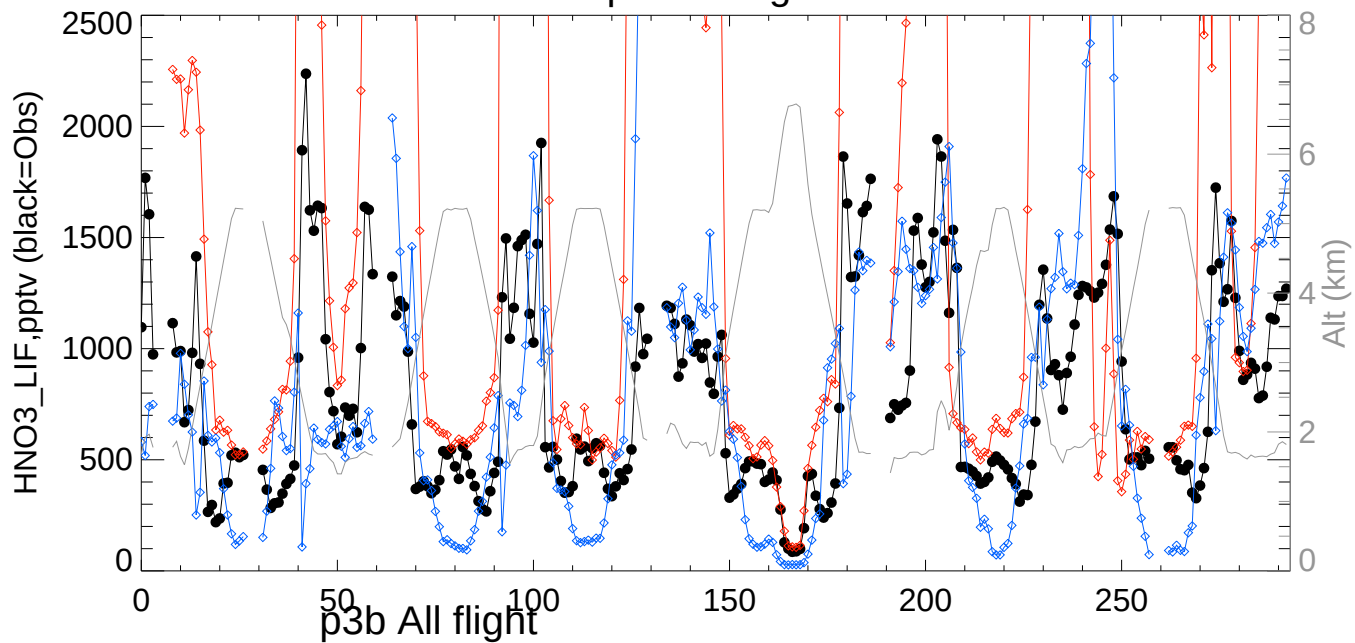
Model-Obs(%) HNO3,ppb, > 3 km



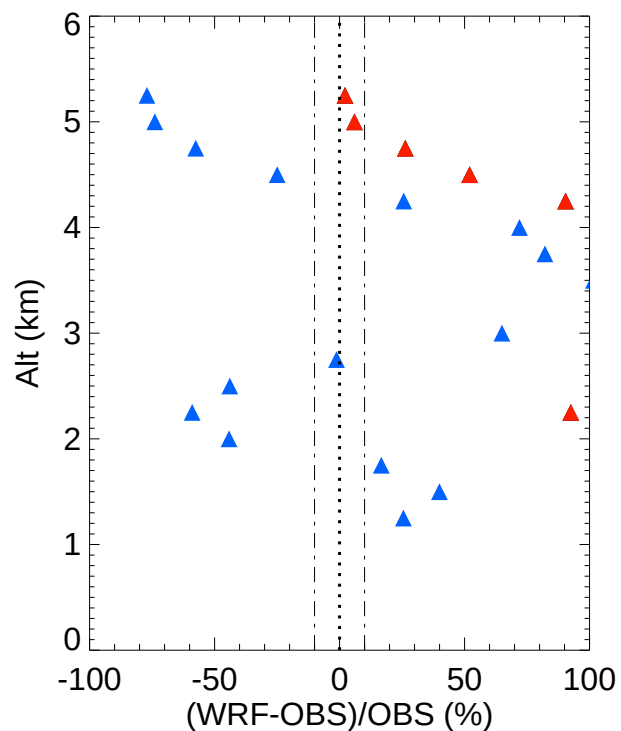
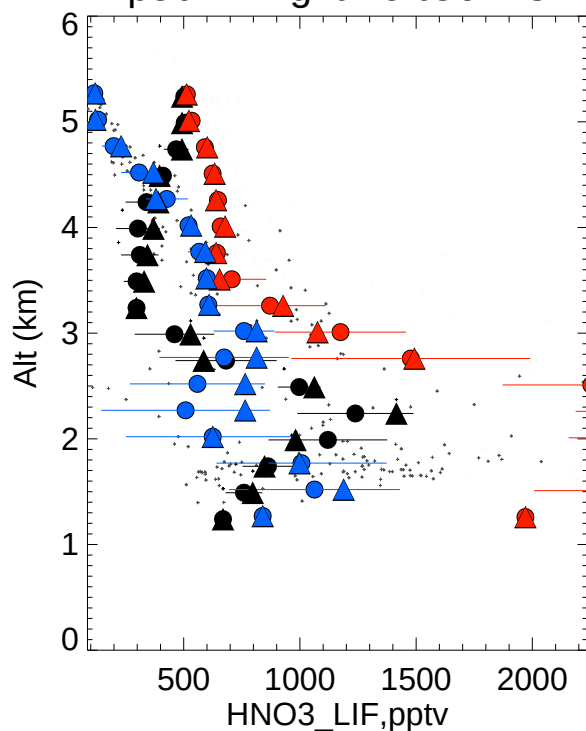
> 3 km



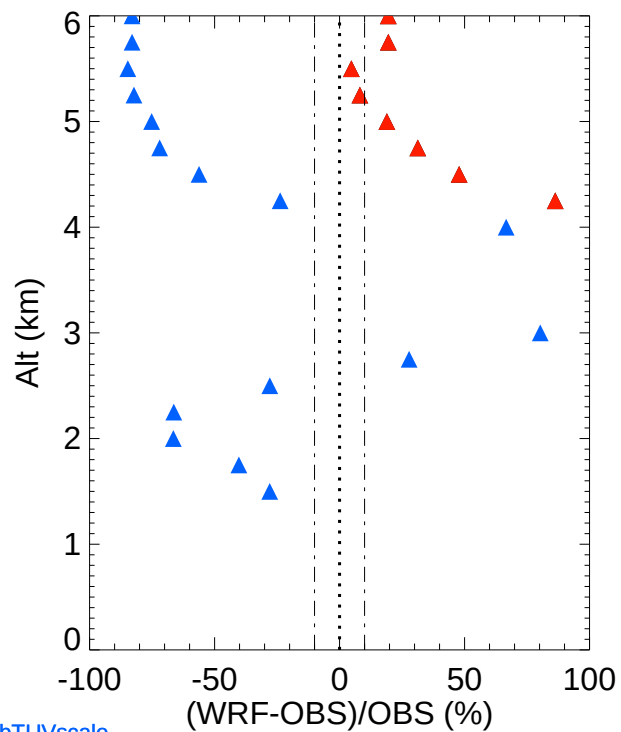
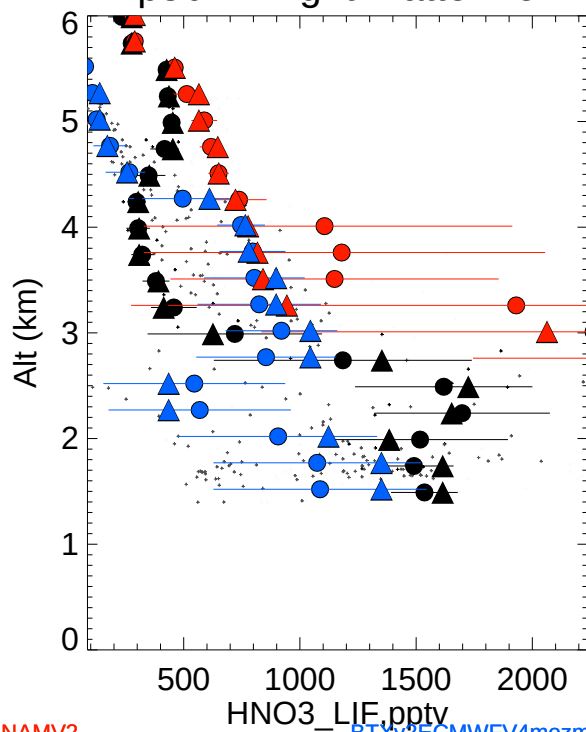
BTXv2NAMV2- BTXv2ECMWFV4mozmozaicRedMobTUVscale-
p3b All flight

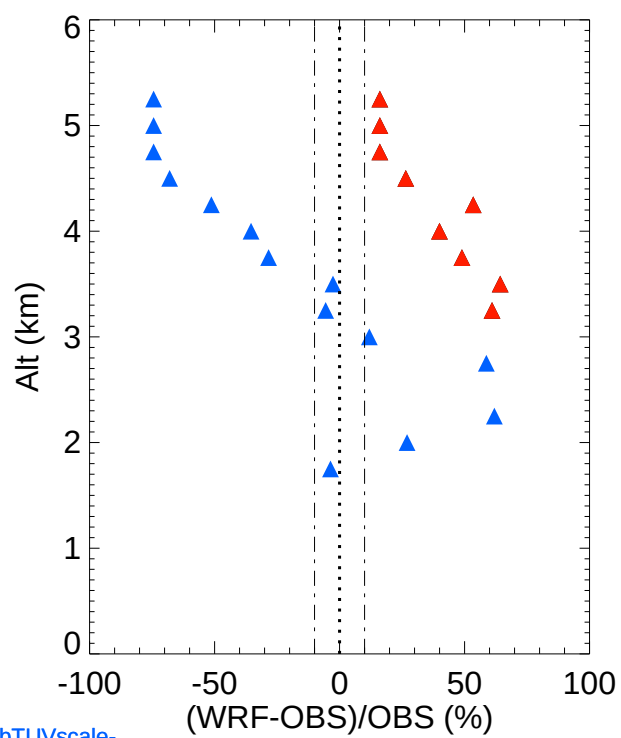
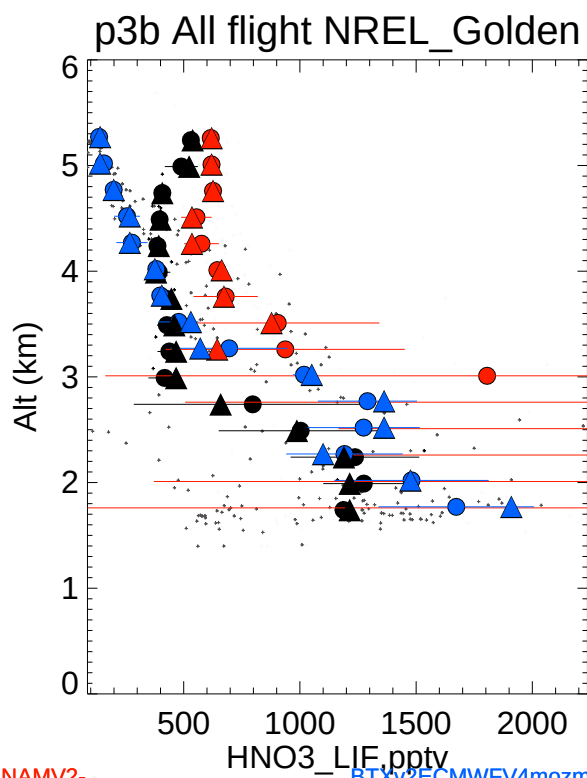
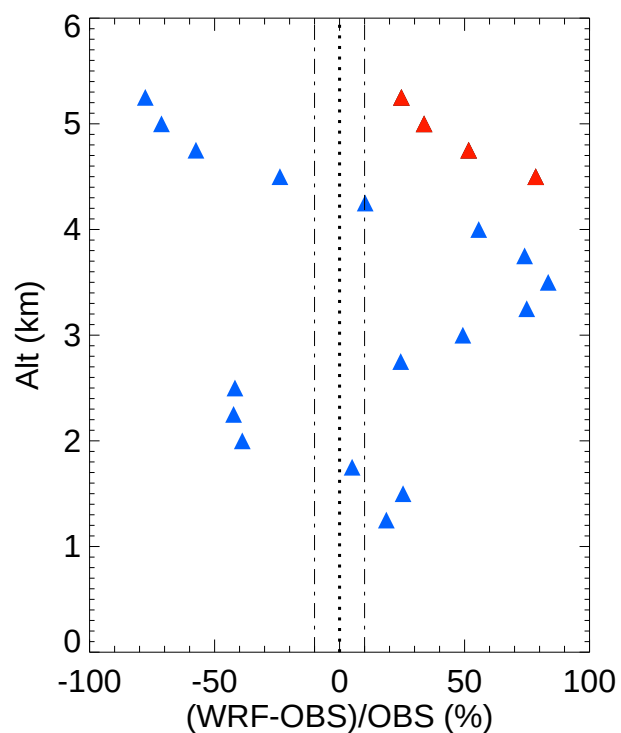
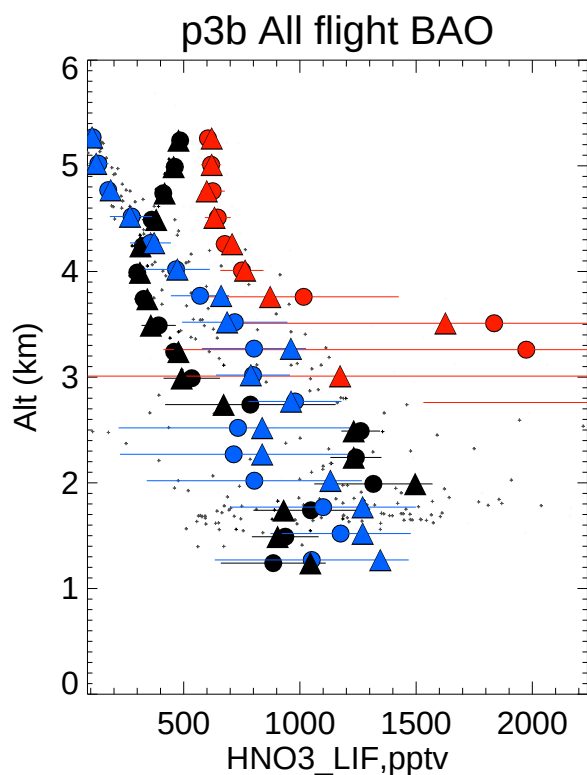


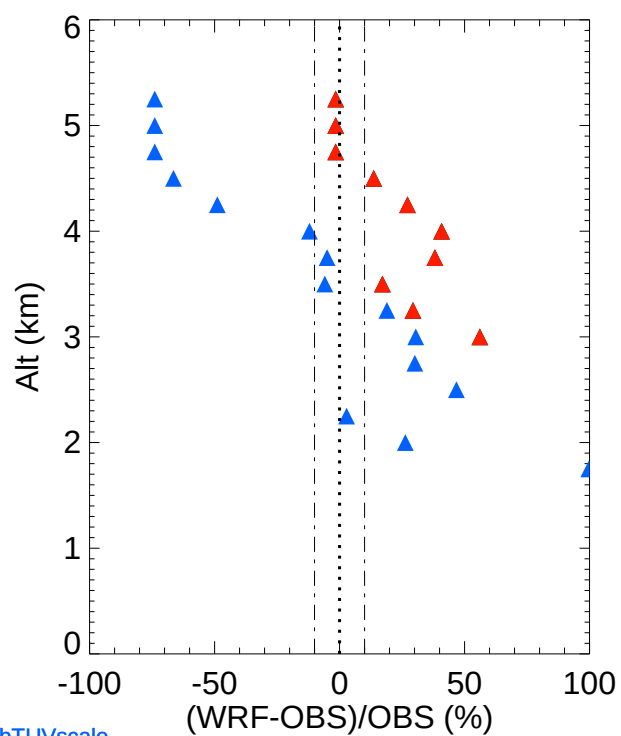
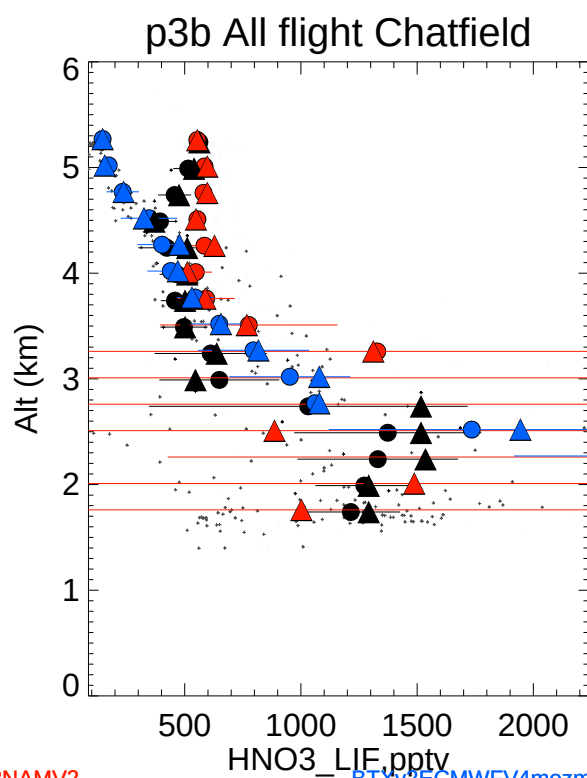
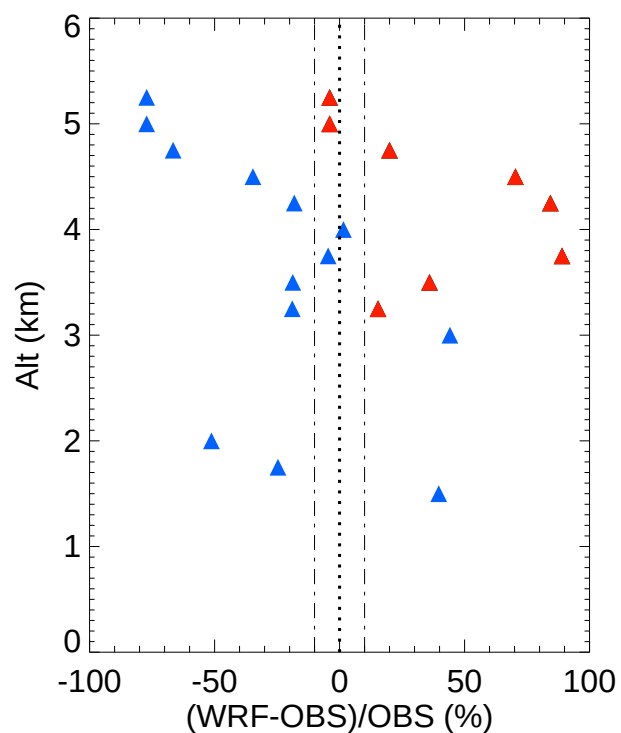
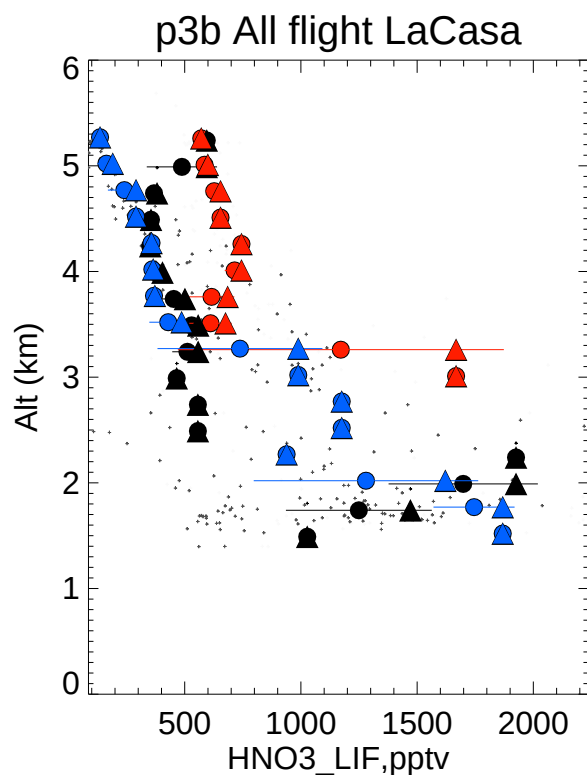
p3b All flight FortCollins



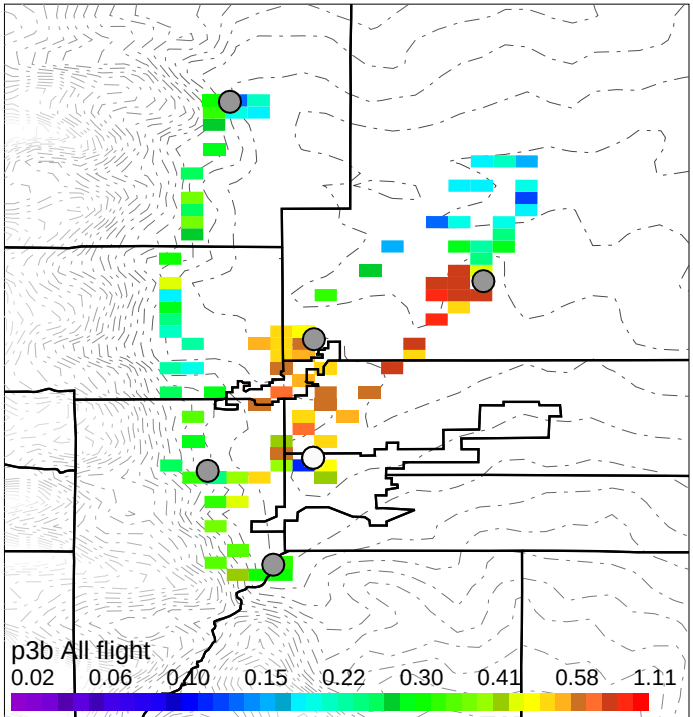
p3b All flight Platteville



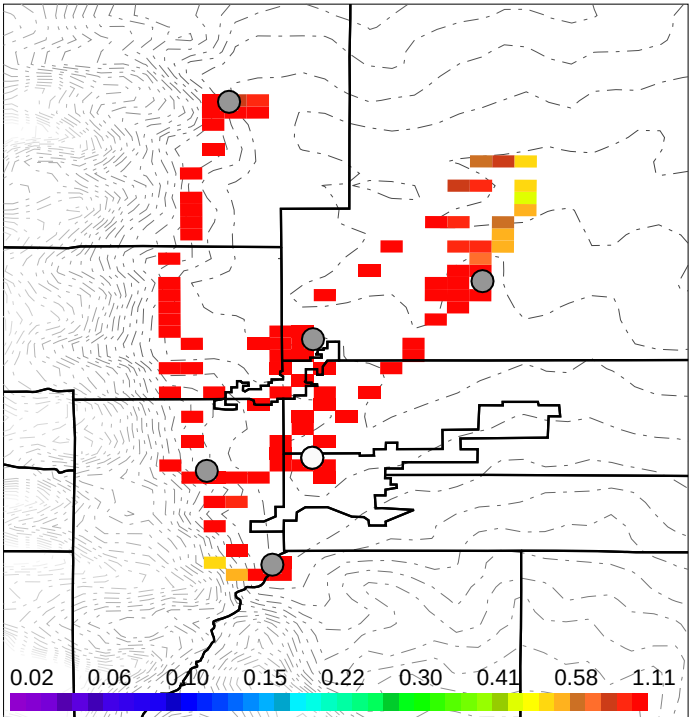




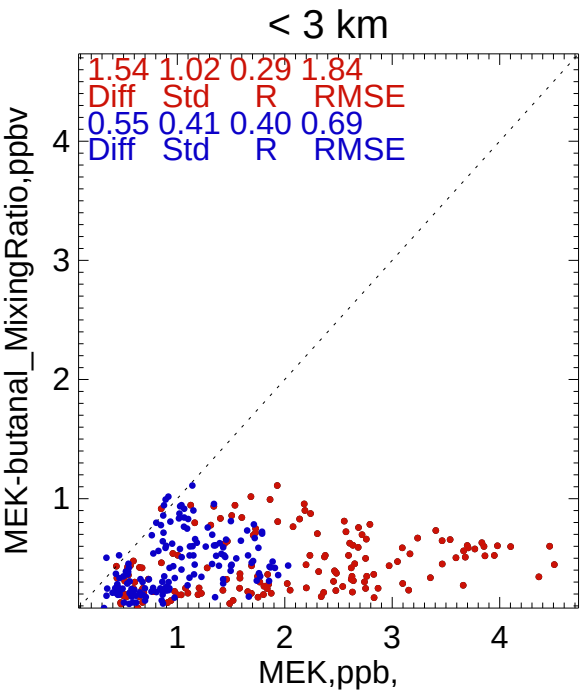
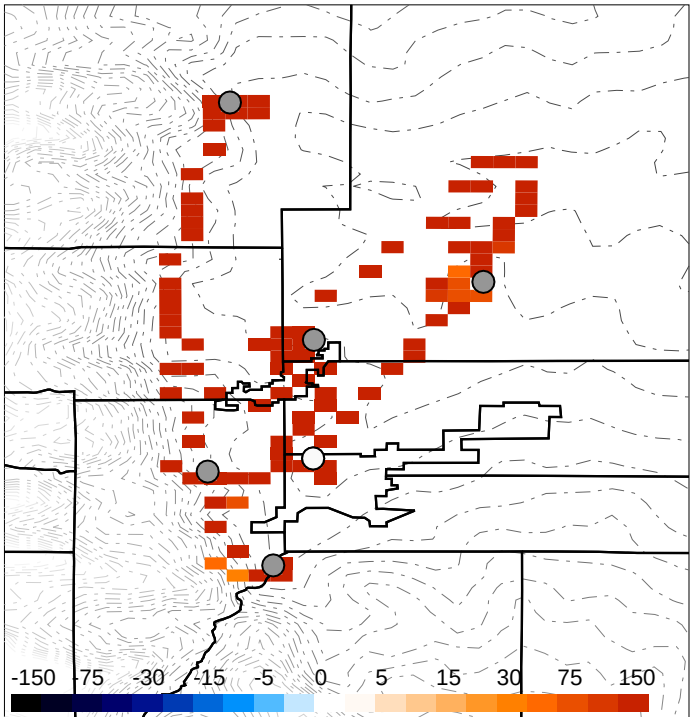
MEK-butanal_MixingRatio,ppbv < 3 km



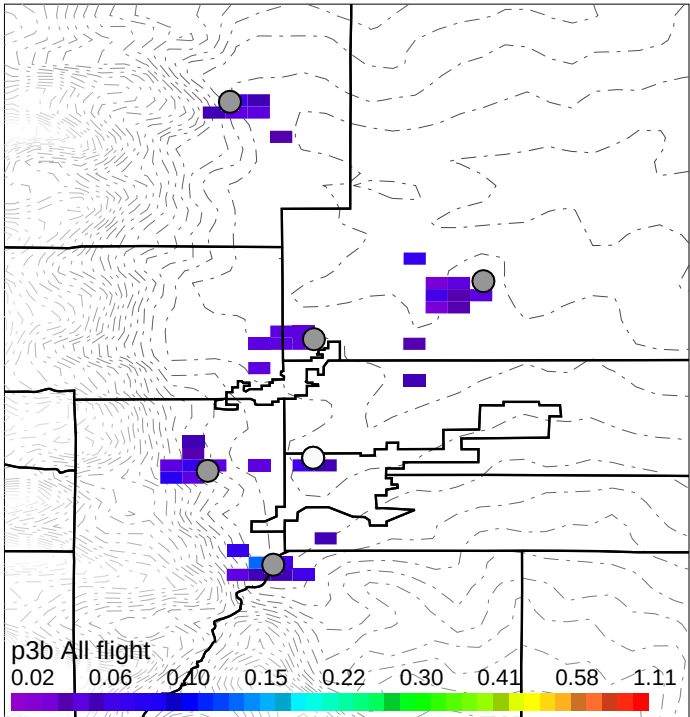
Model MEK,ppb, < 3 km



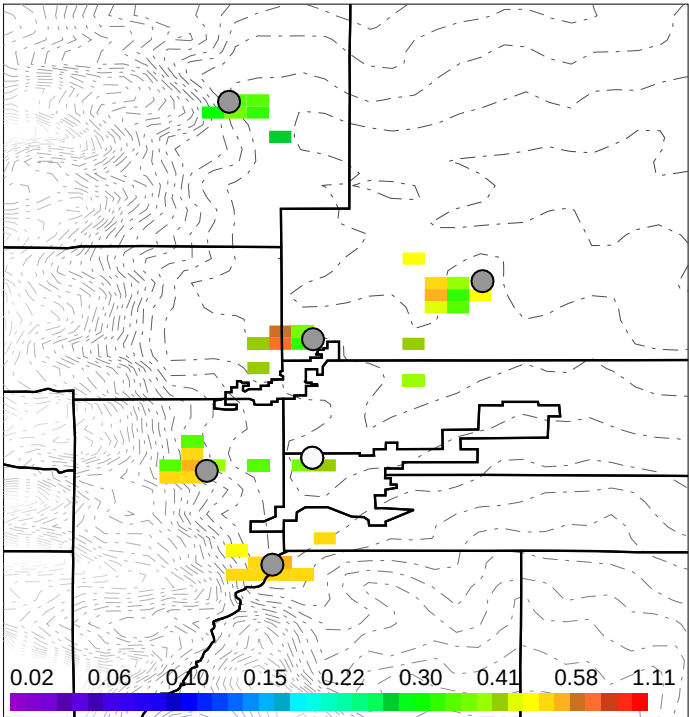
Model-Obs(%) MEK,ppb, < 3 km



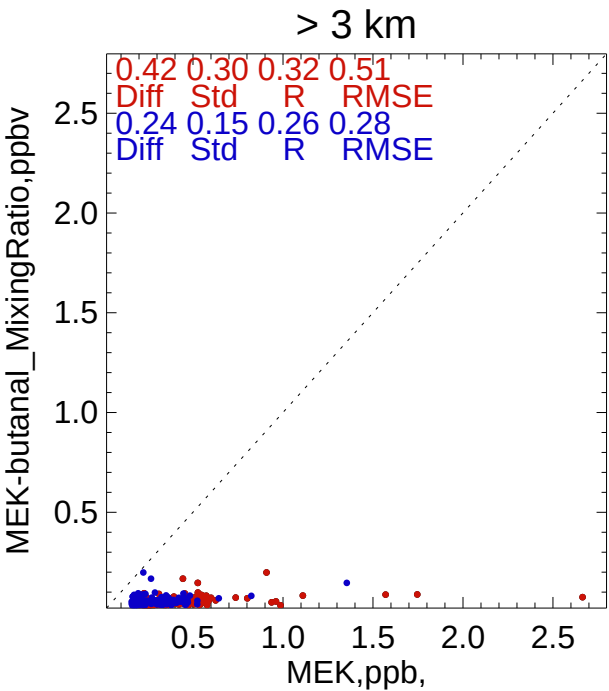
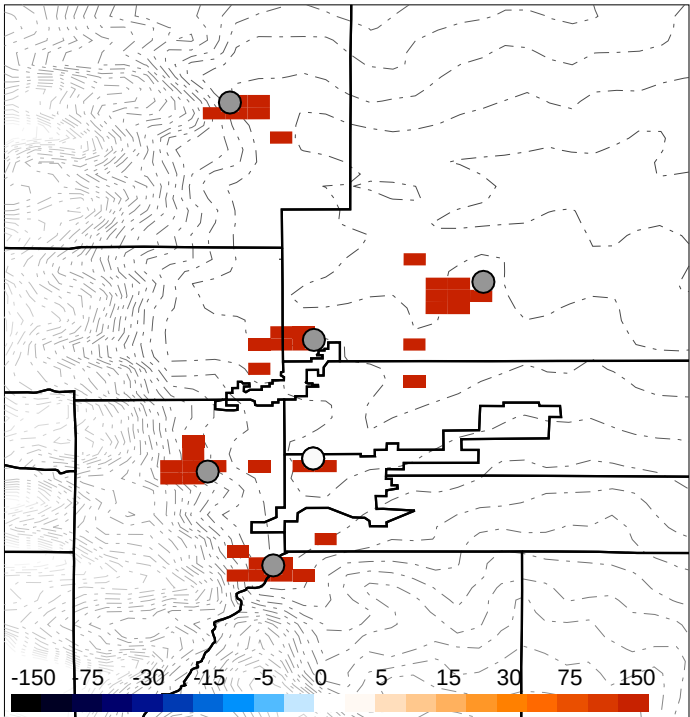
MEK-butanal_MixingRatio,ppbv > 3 km

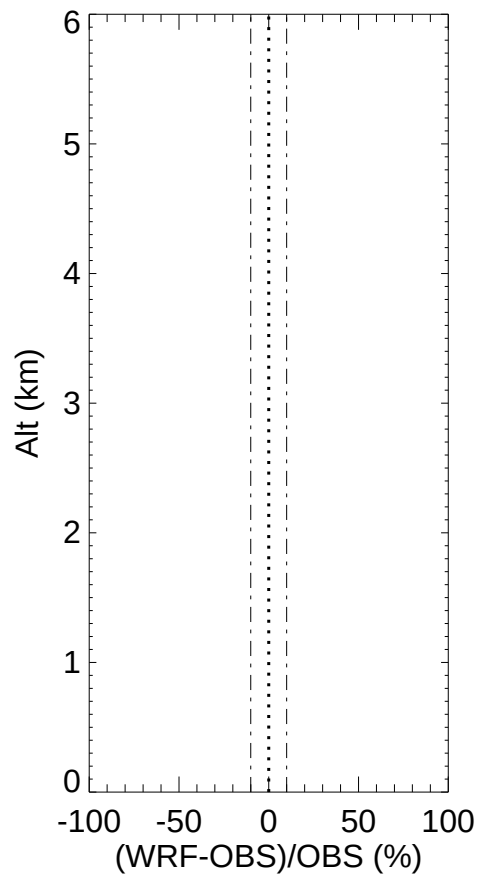
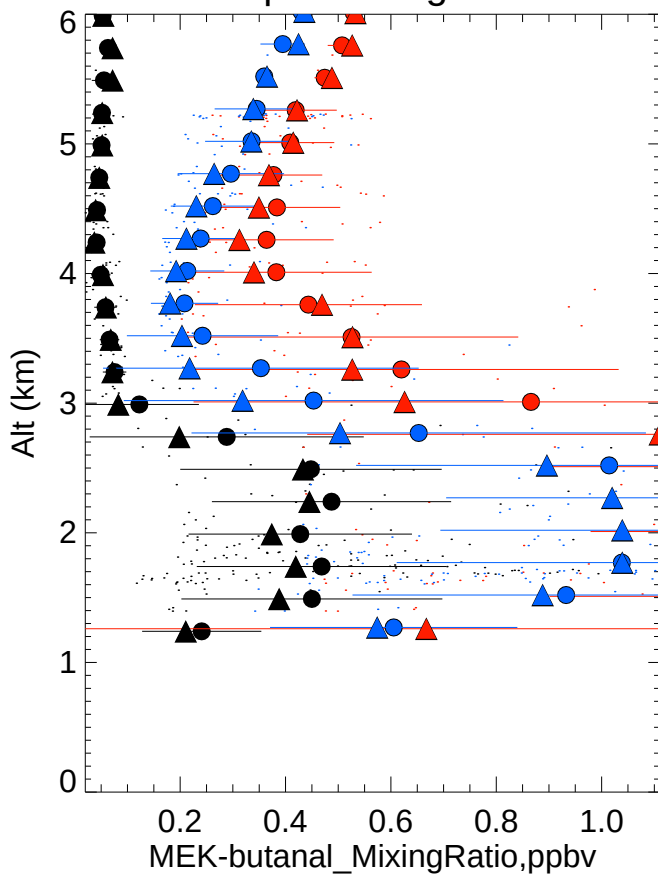
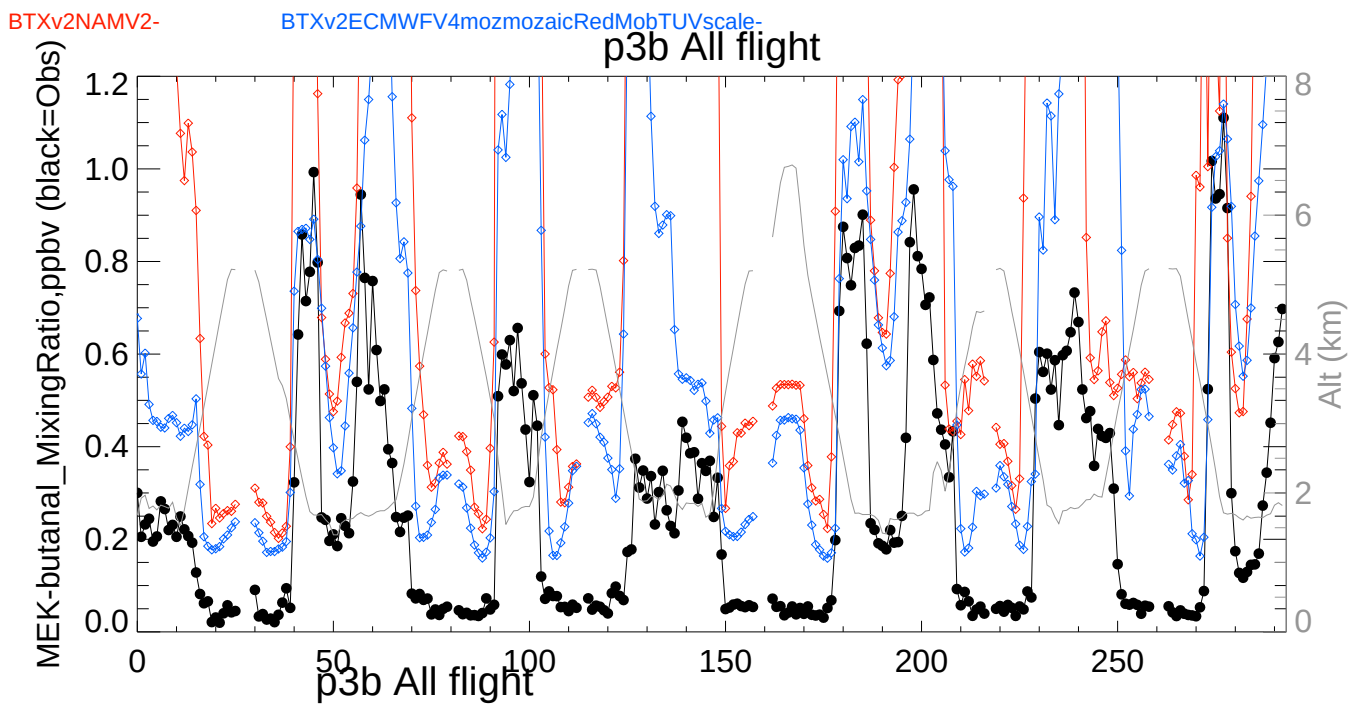


Model MEK,ppb, > 3 km

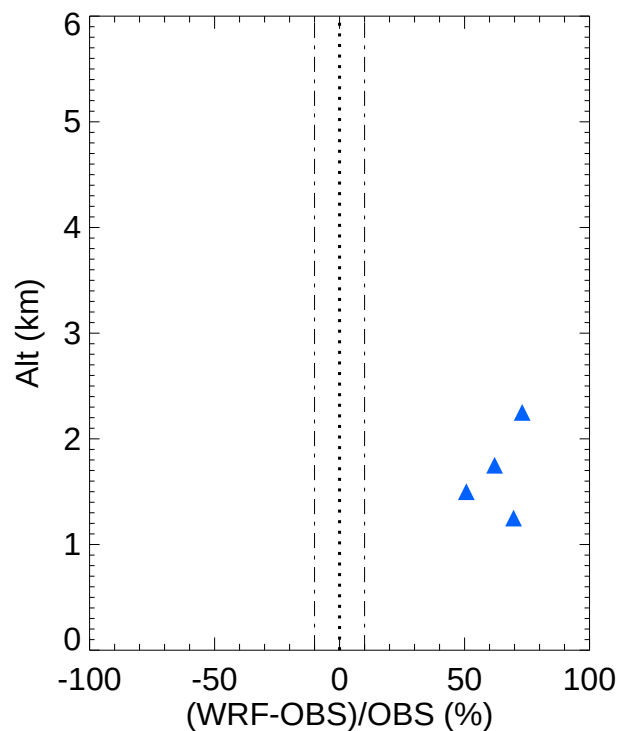
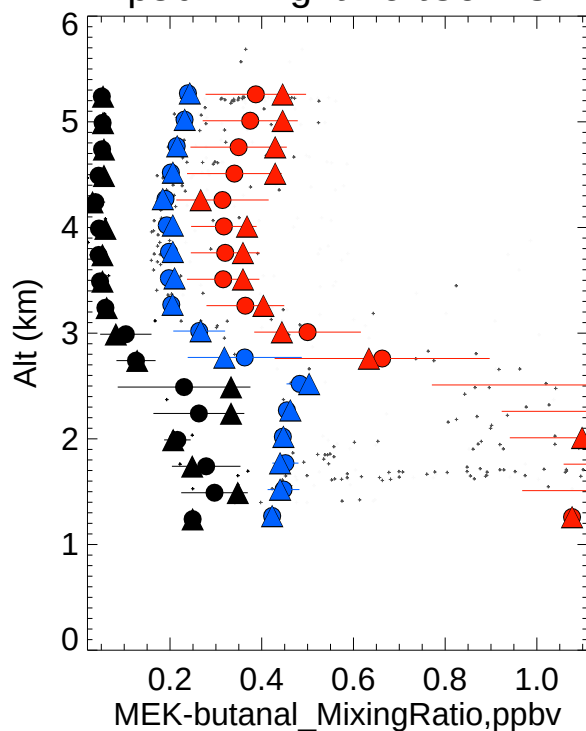


Model-Obs(%) MEK,ppb, > 3 km

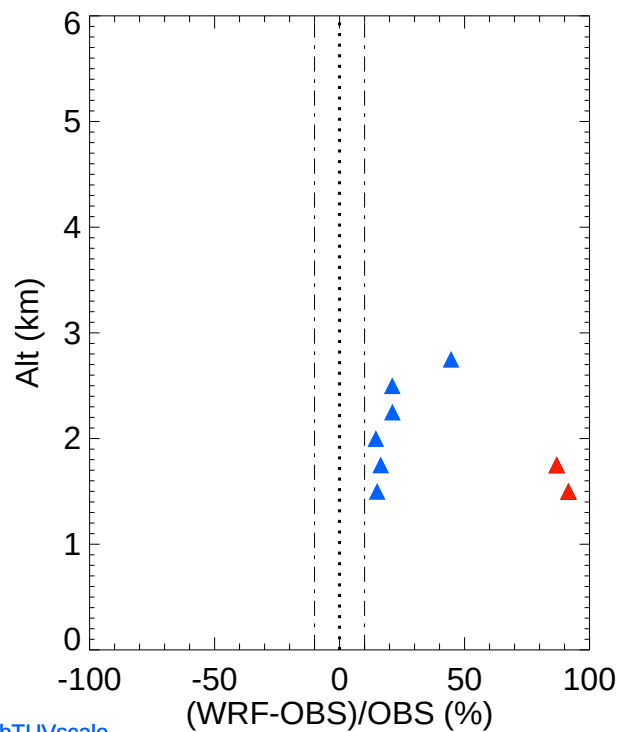
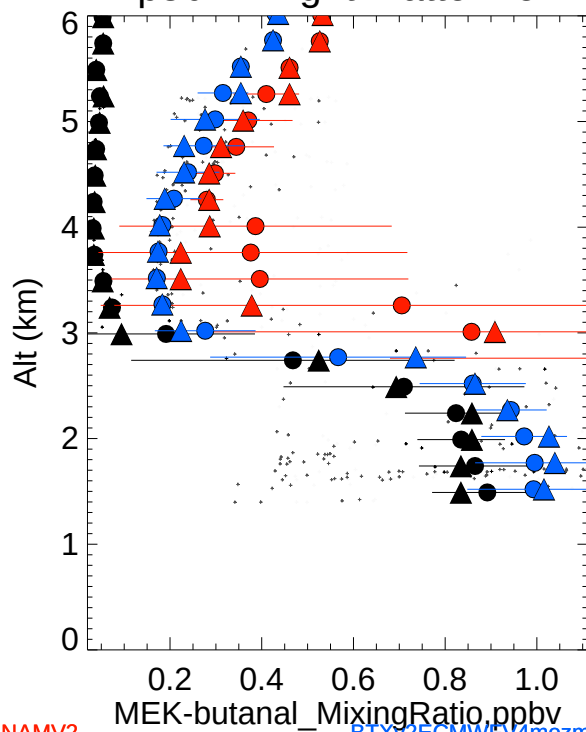


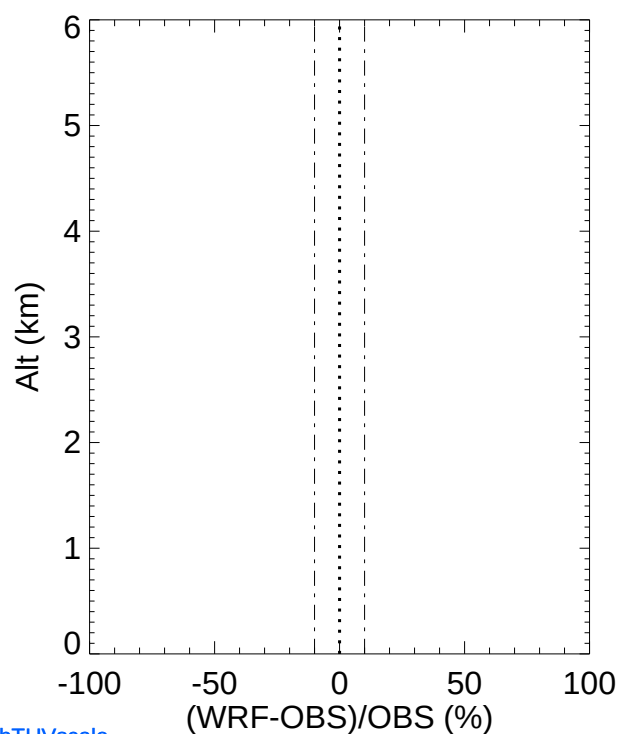
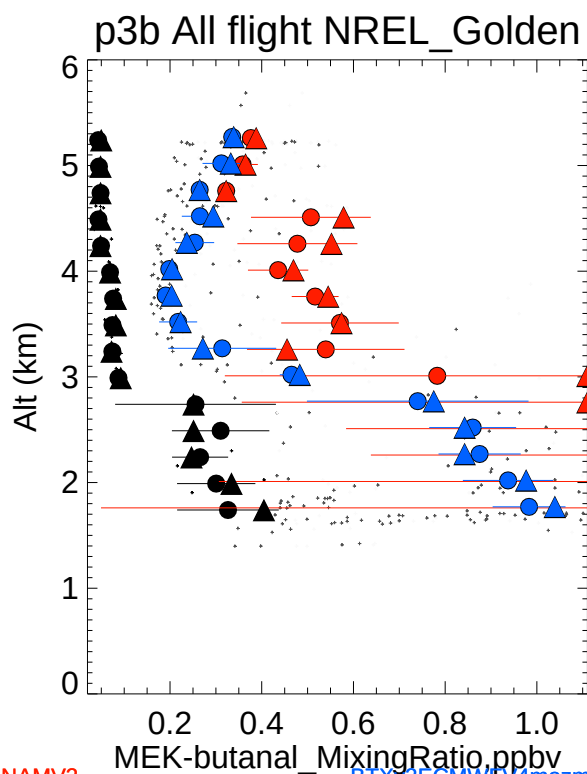
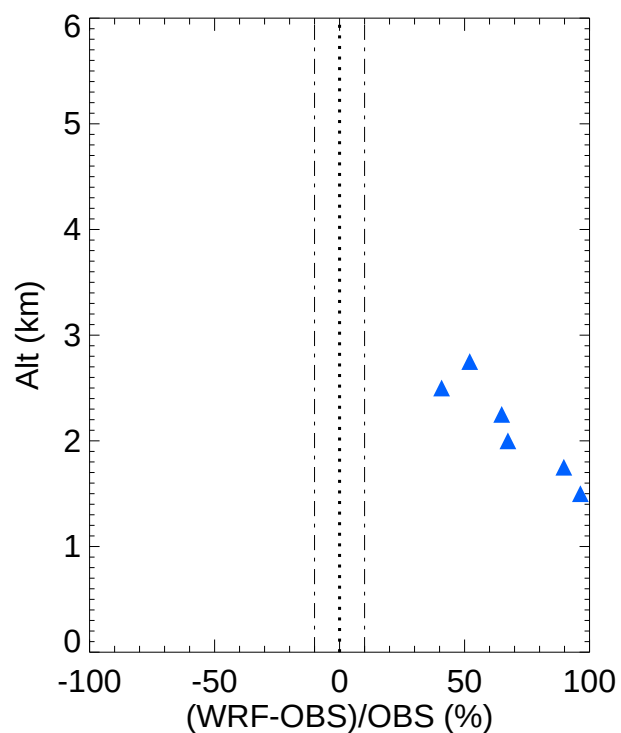
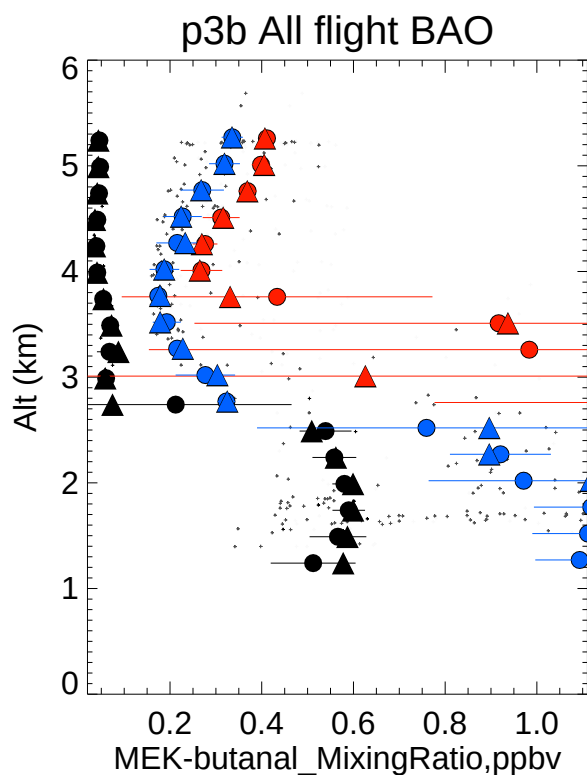


p3b All flight FortCollins

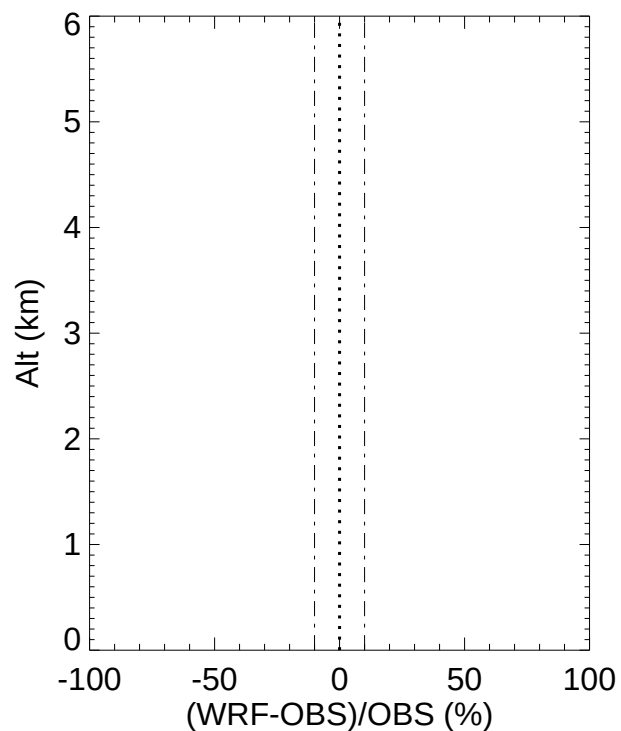
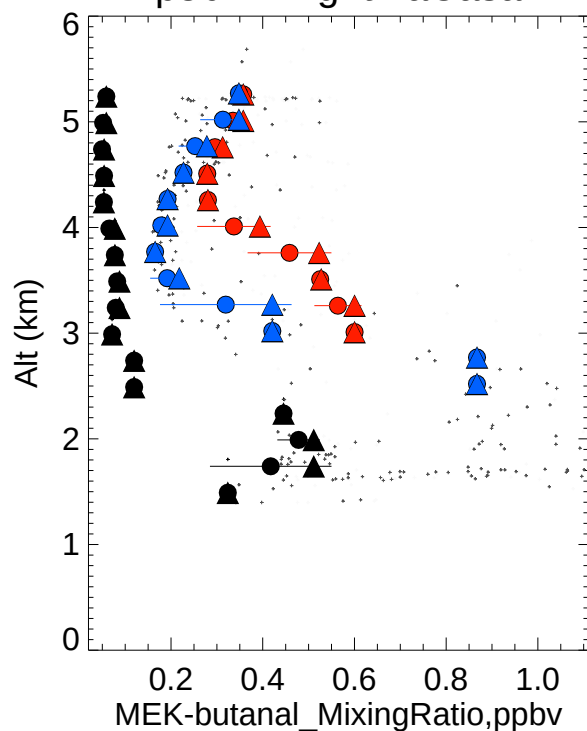


p3b All flight Platteville





p3b All flight LaCasa



p3b All flight Chatfield

