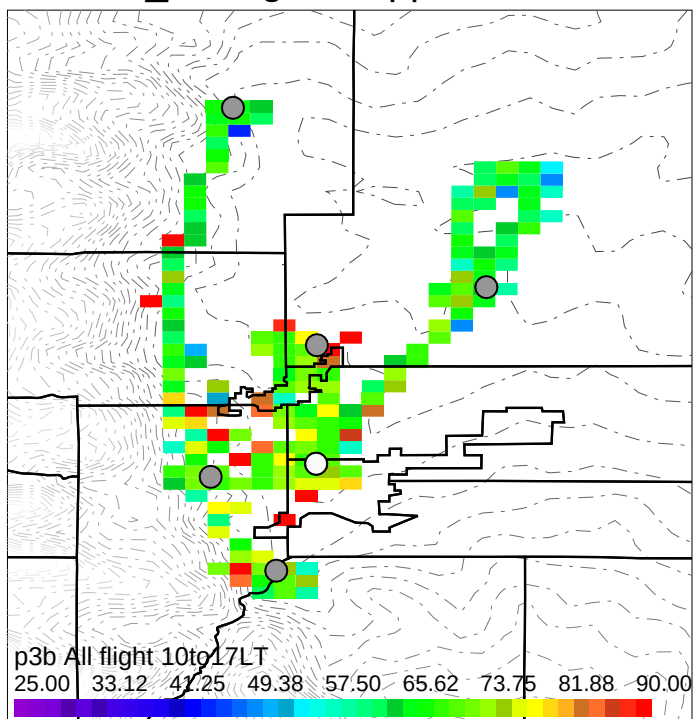
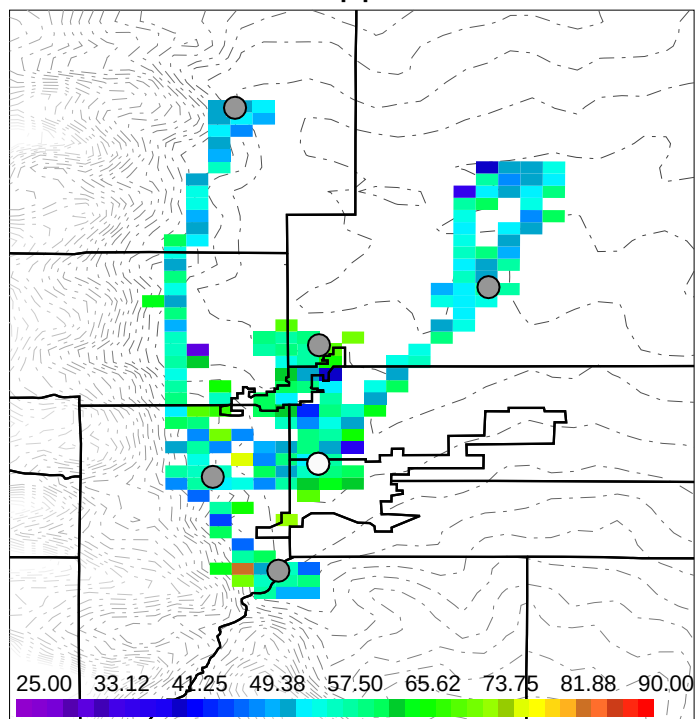


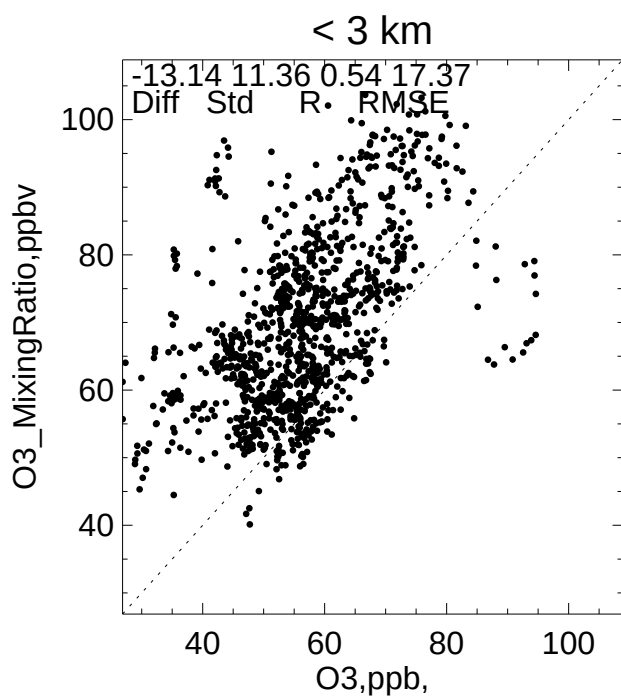
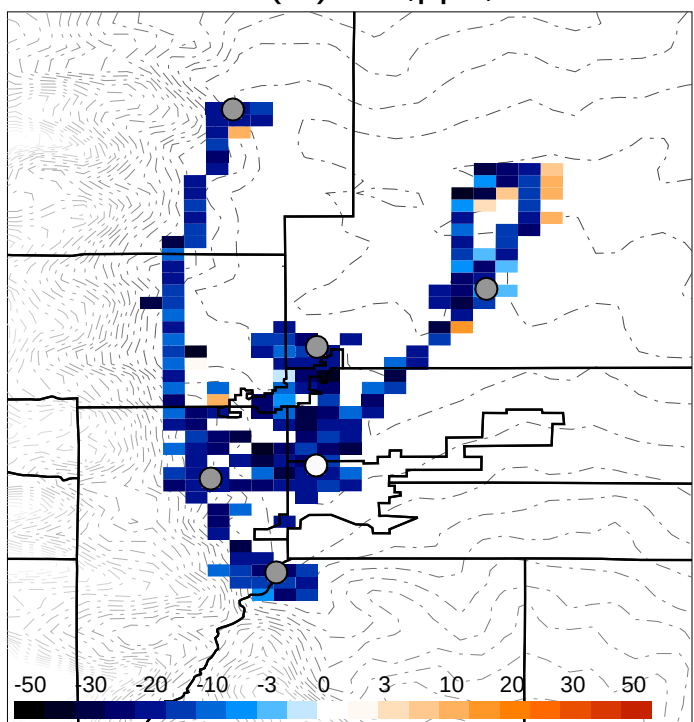
O3_MixingRatio,ppbv < 3 km



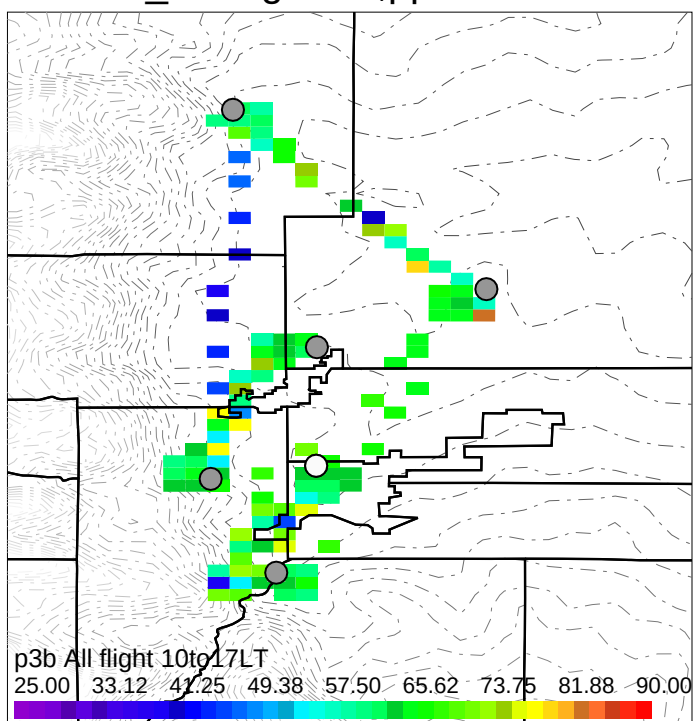
Model O3,ppb, < 3 km



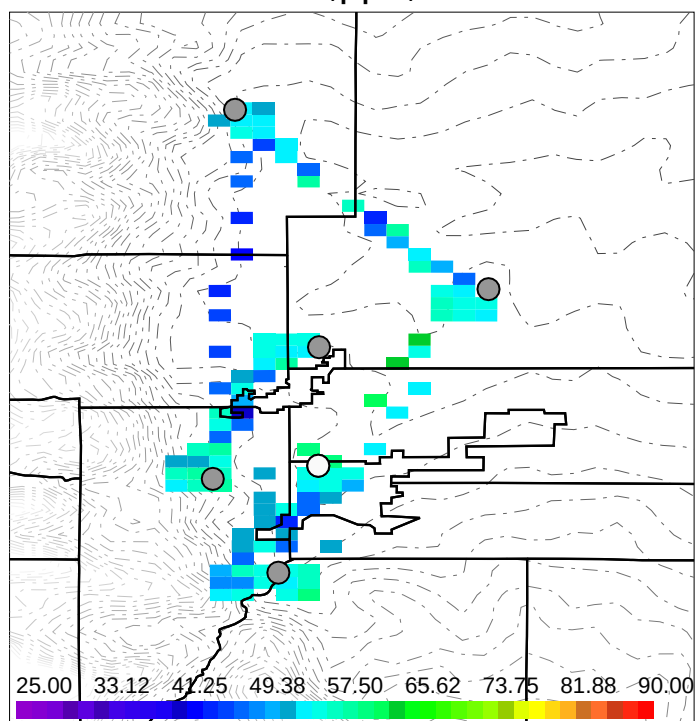
Model-Obs(%) O3,ppb, < 3 km



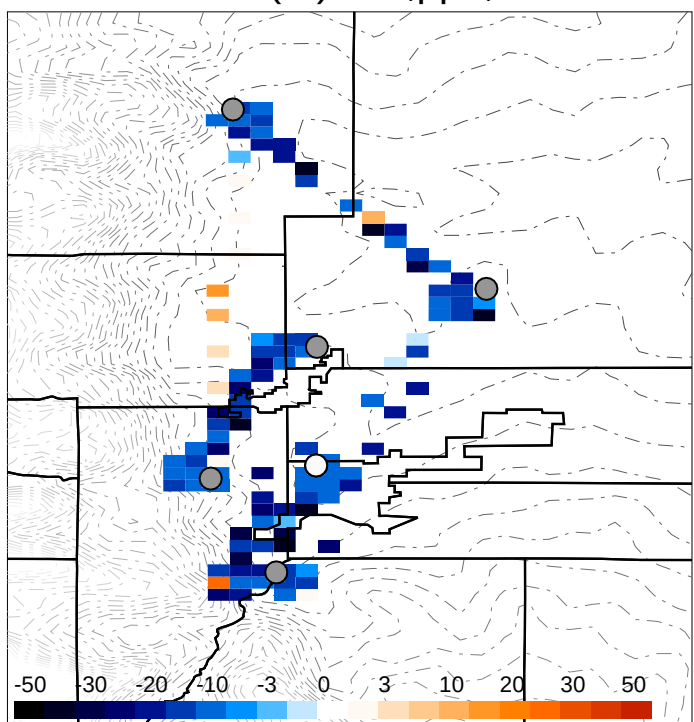
O3_MixingRatio,ppbv > 3 km



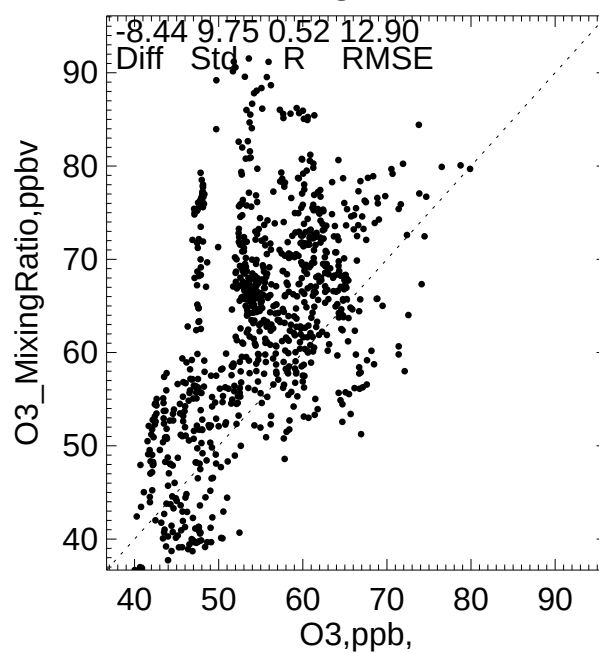
Model O3,ppb, > 3 km

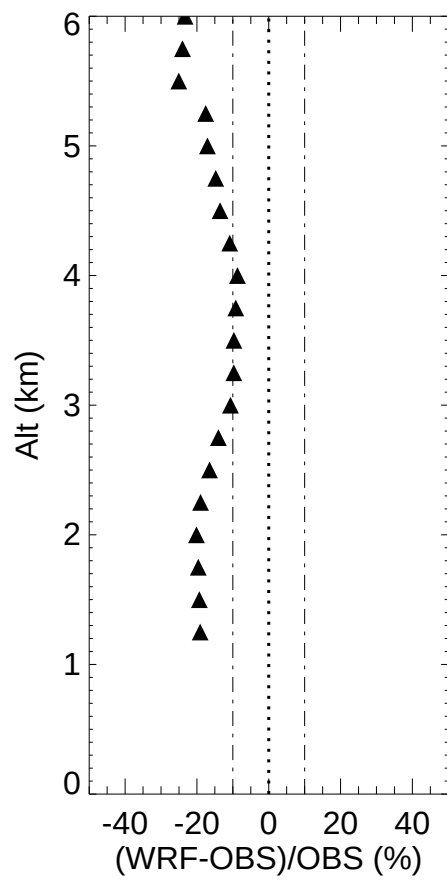
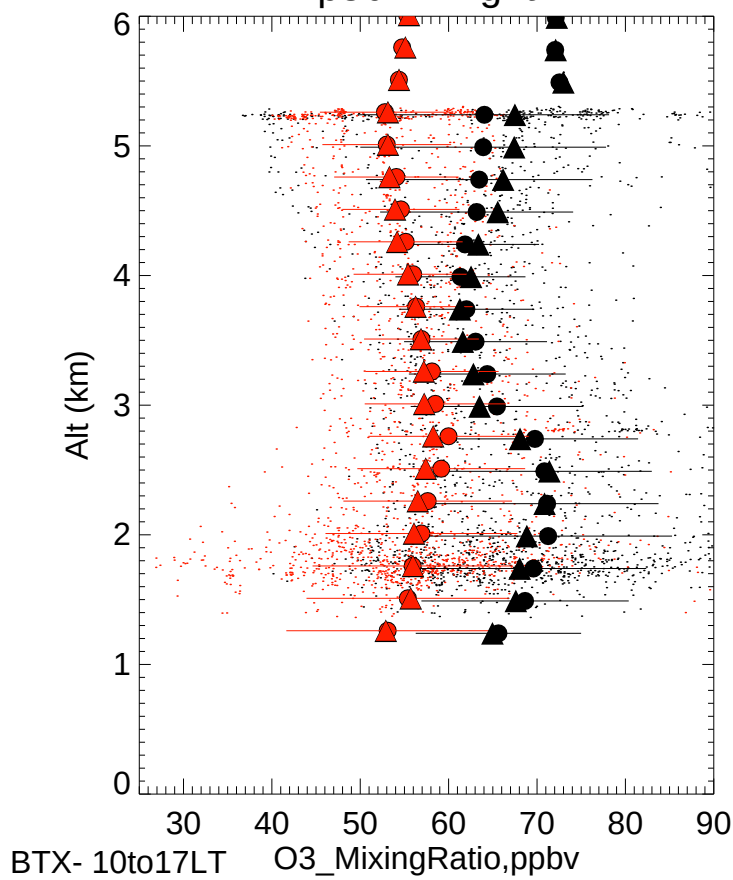
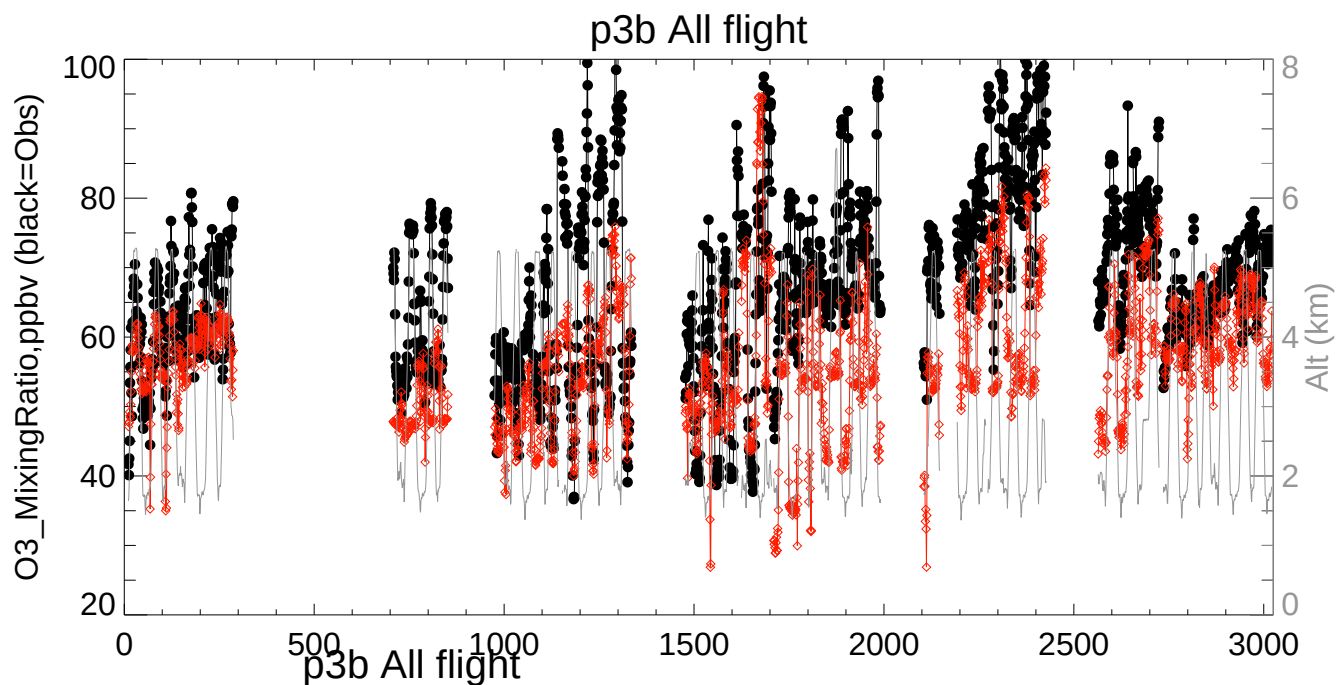


Model-Obs(%) O3,ppb, > 3 km

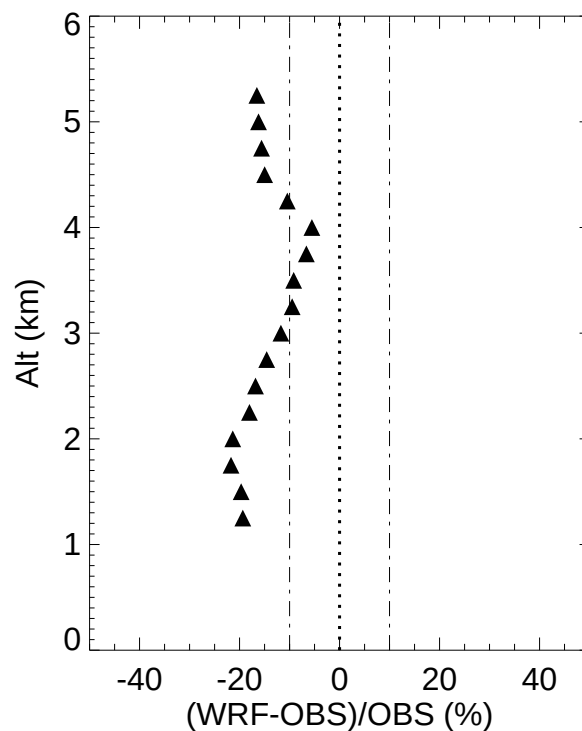
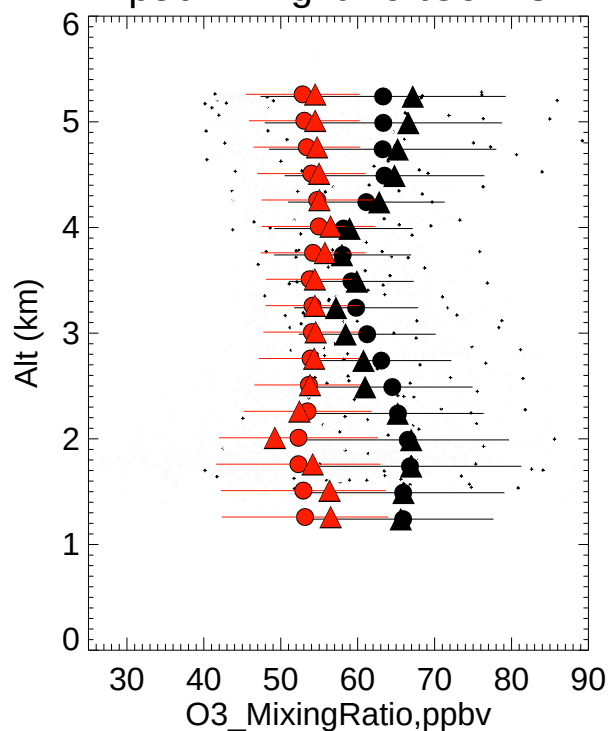


> 3 km

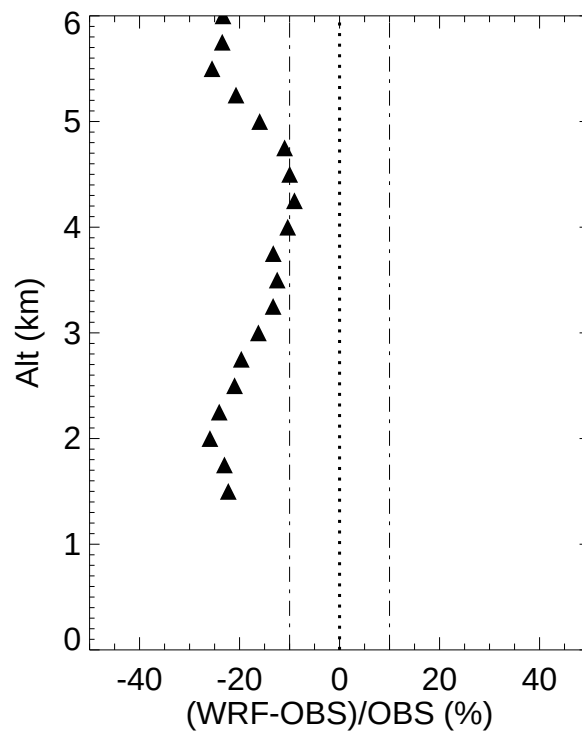
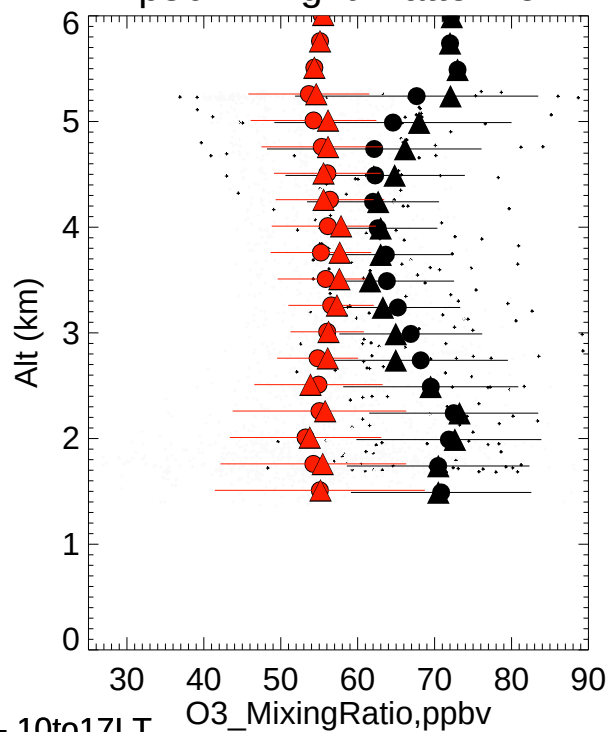




p3b All flight FortCollins

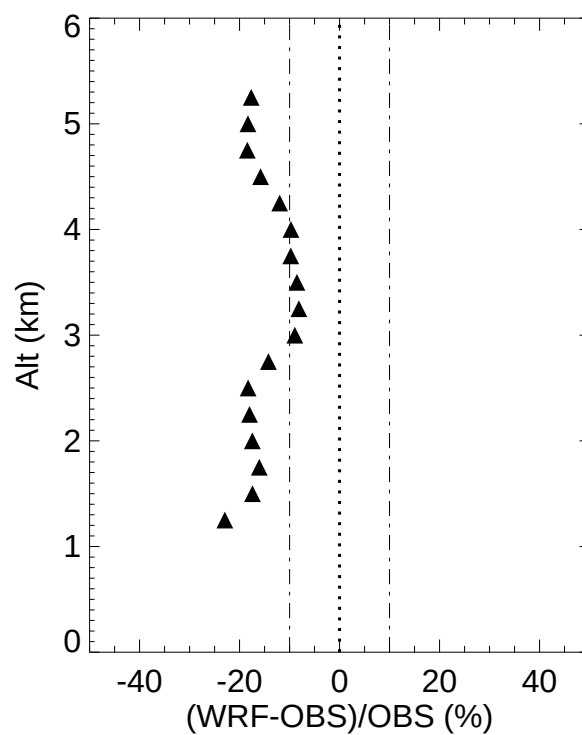
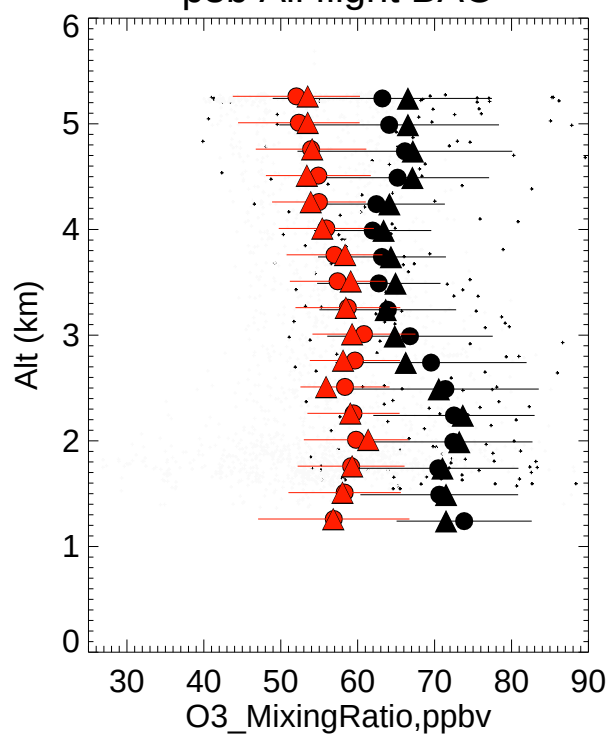


p3b All flight Platteville

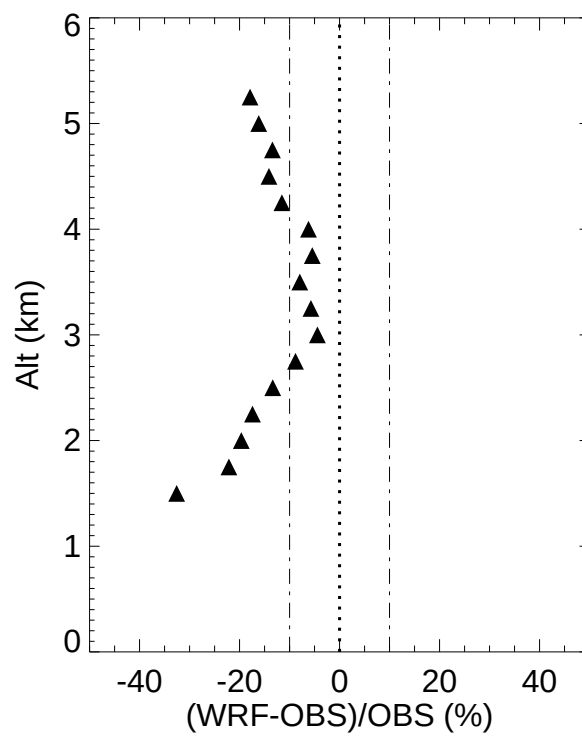
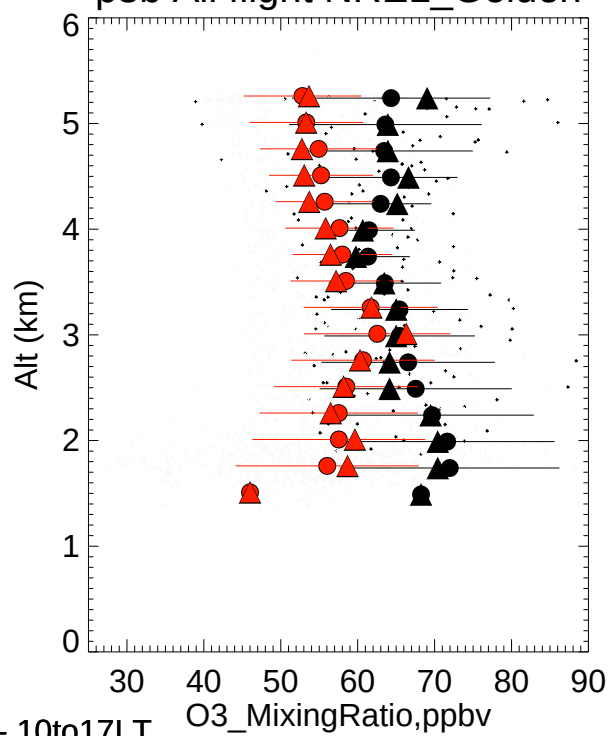


BTX- 10to17LT

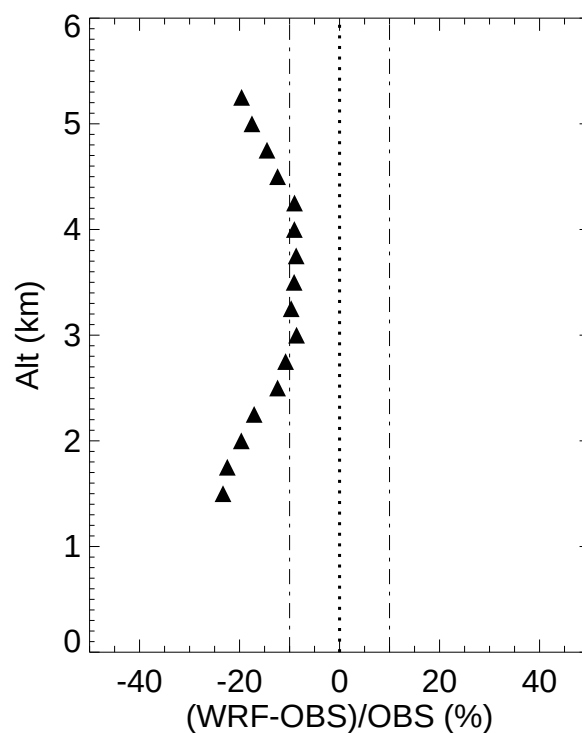
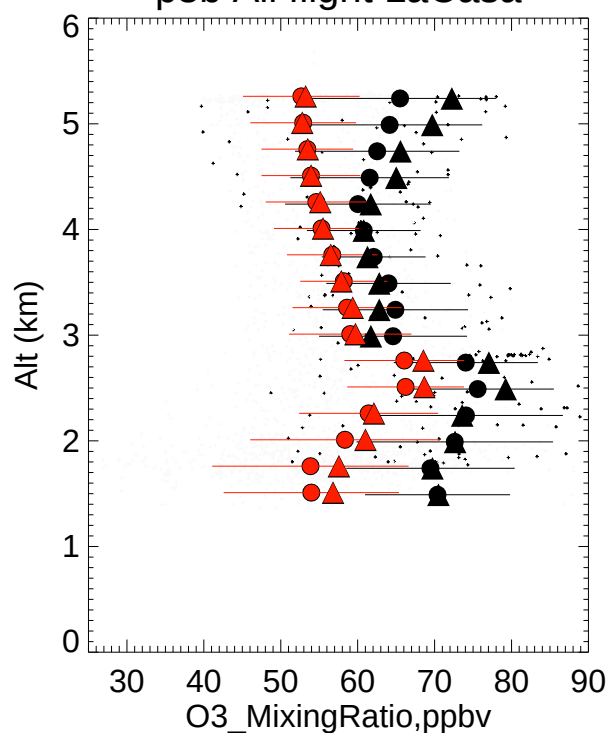
p3b All flight BAO



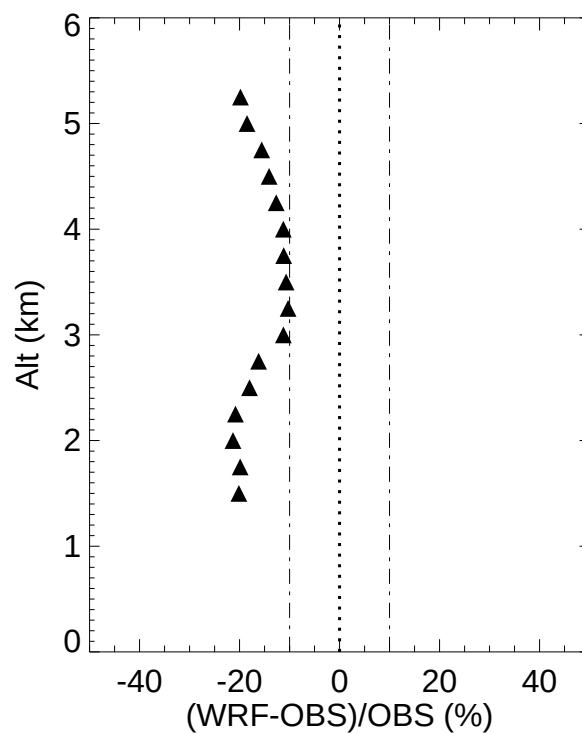
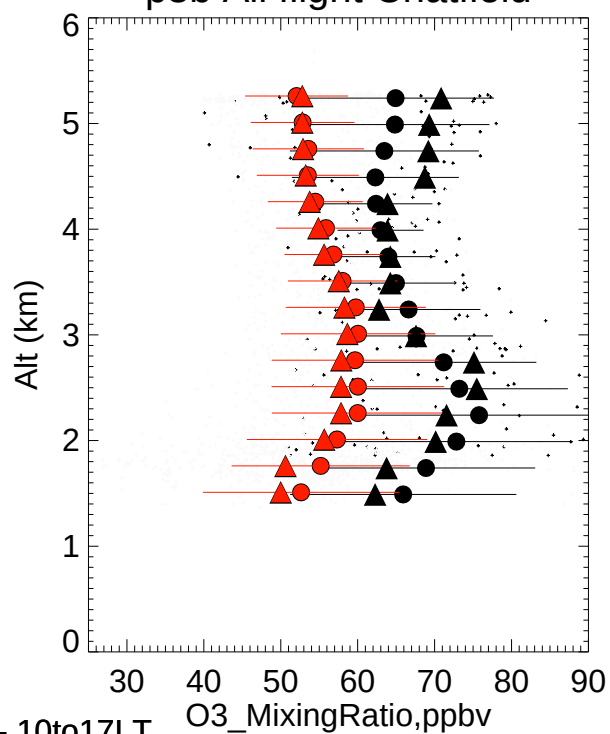
p3b All flight NREL_Golden



p3b All flight LaCasa

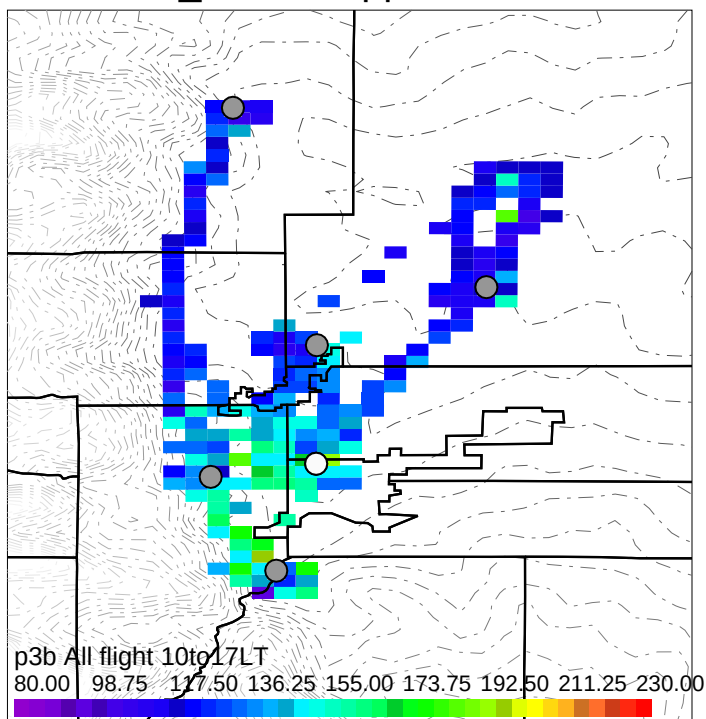


p3b All flight Chatfield

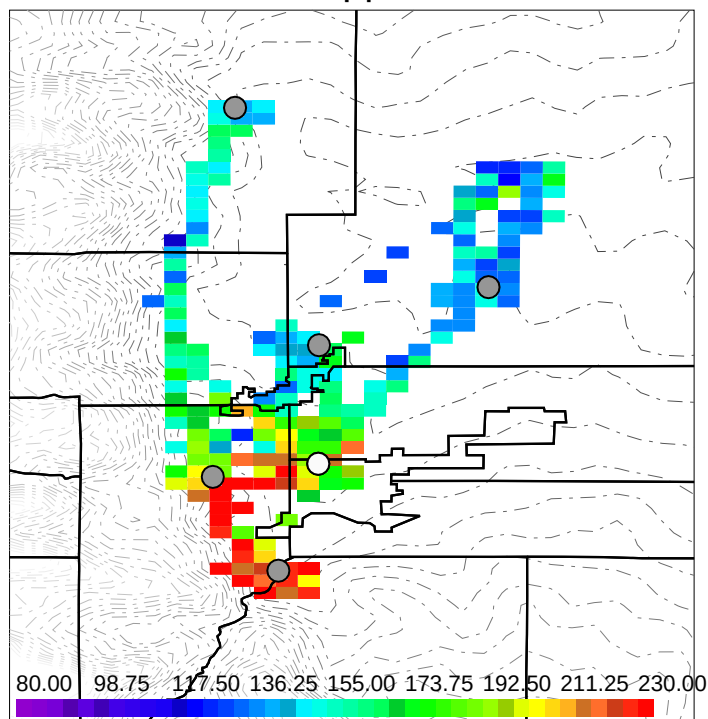


BTX- 10to17LT

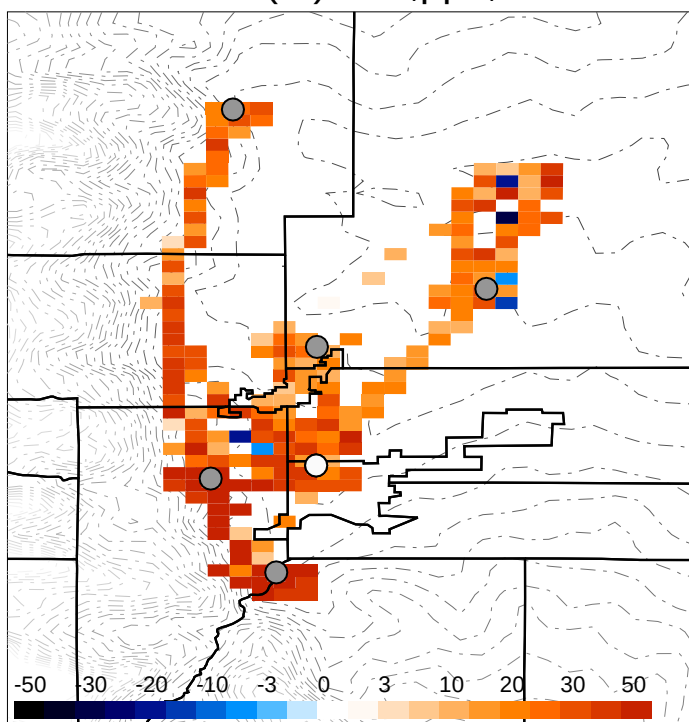
CO_DACOM,ppbv < 3 km



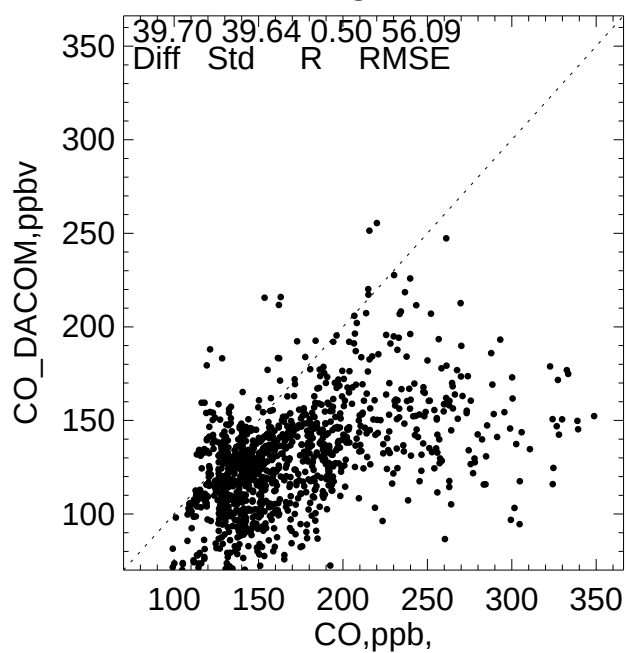
Model CO,ppb, < 3 km



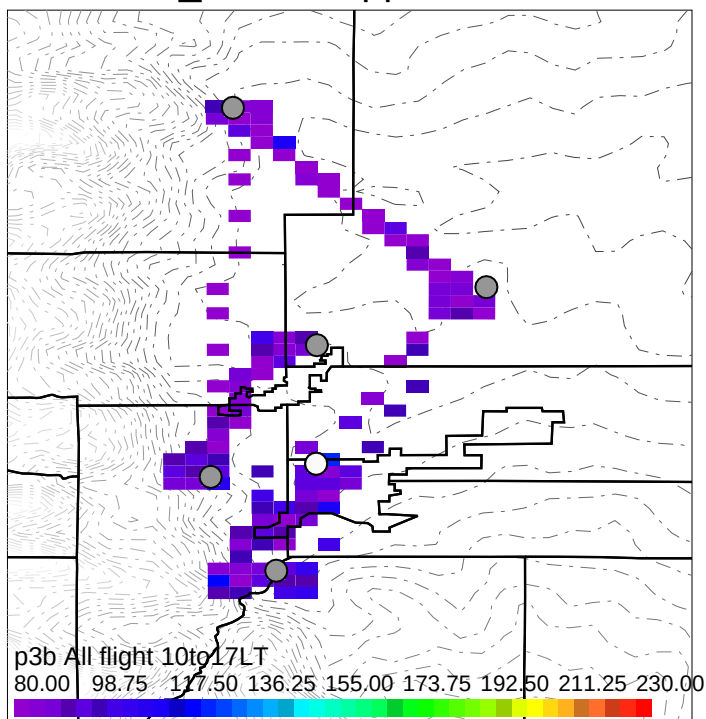
Model-Obs(%) CO,ppb, < 3 km



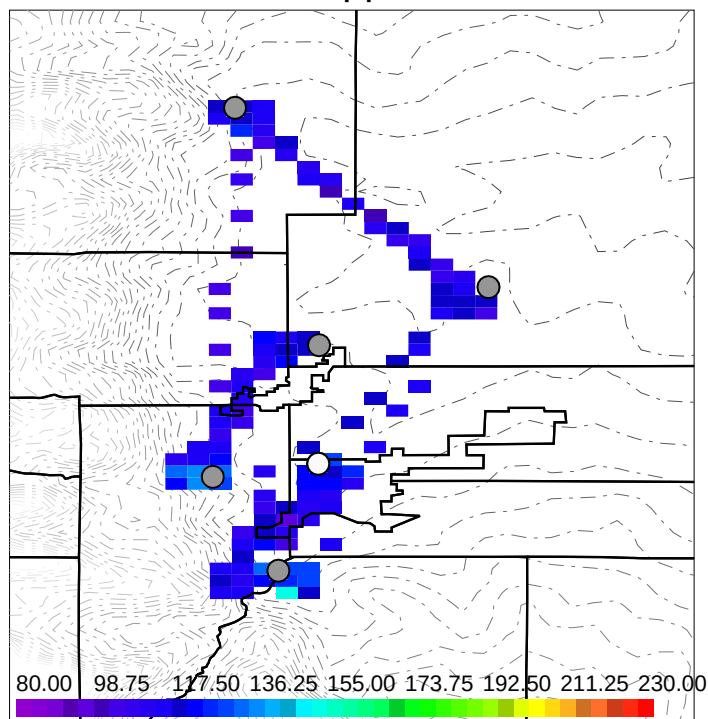
< 3 km



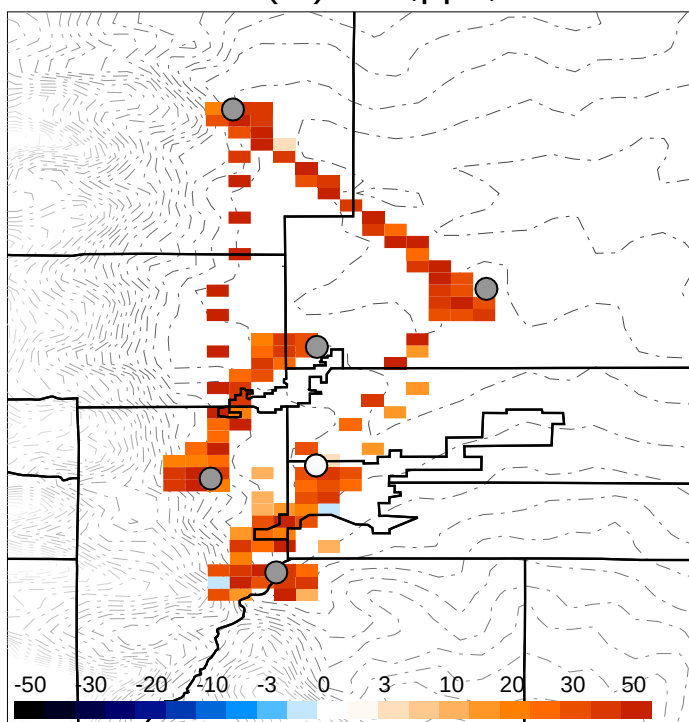
CO_DACOM,ppbv > 3 km



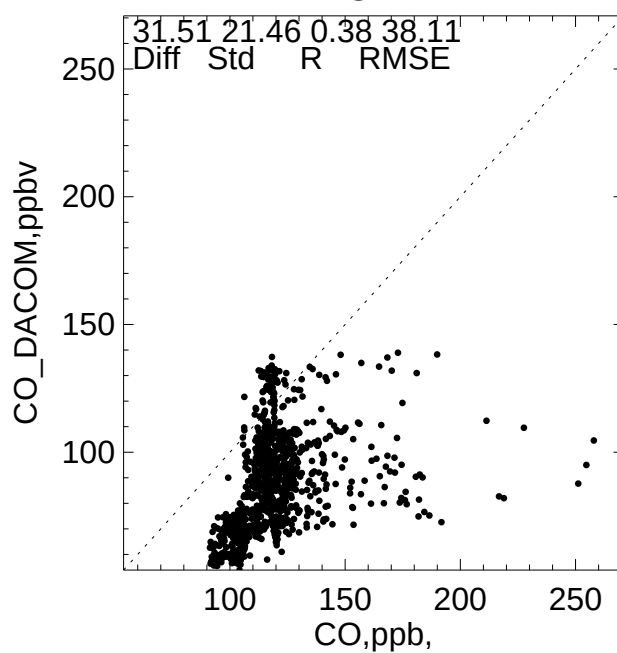
Model CO,ppb, > 3 km



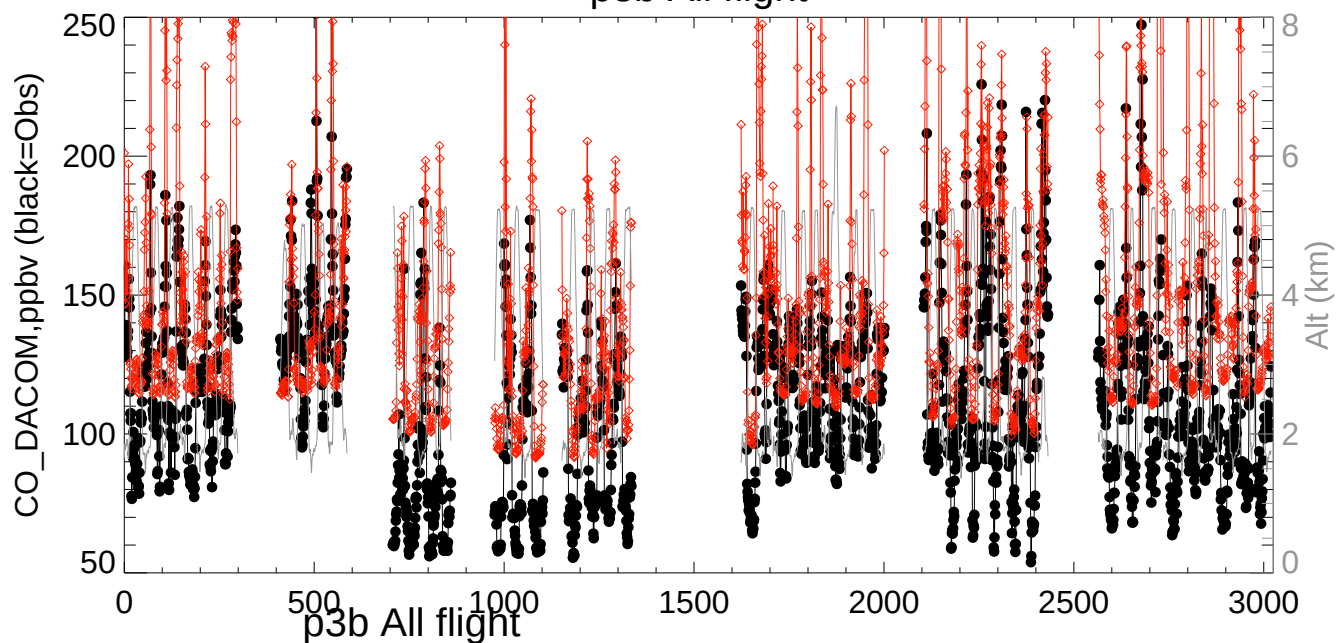
Model-Obs(%) CO,ppb, > 3 km



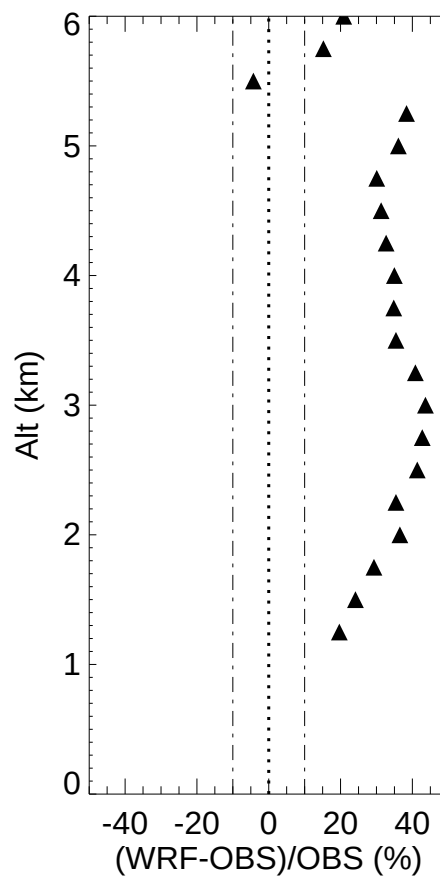
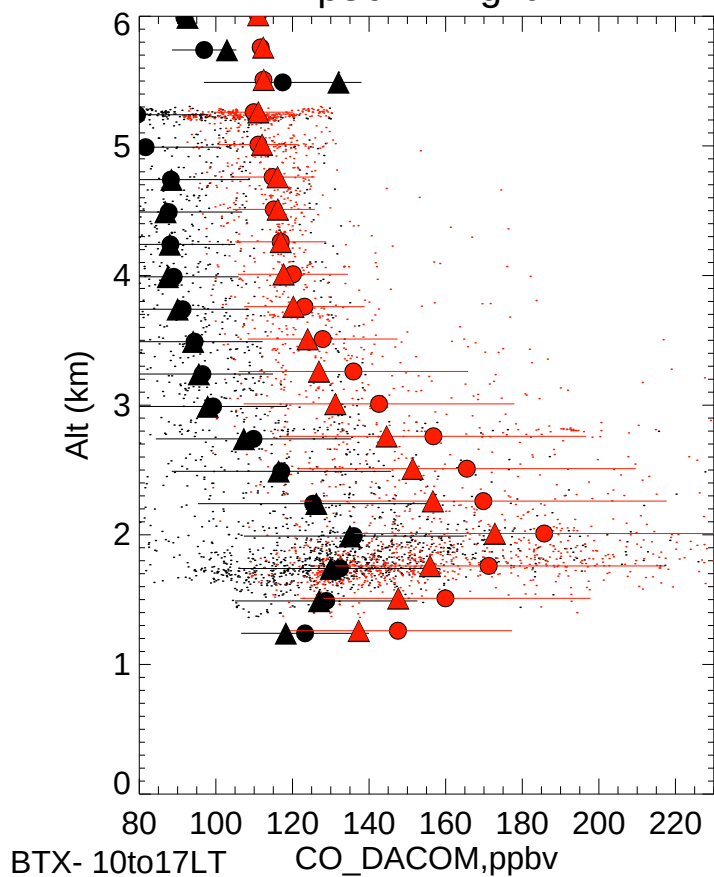
> 3 km



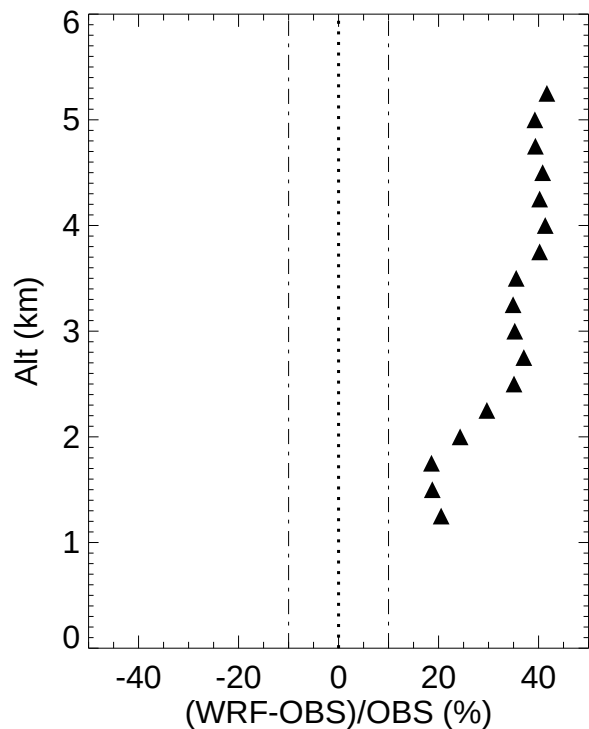
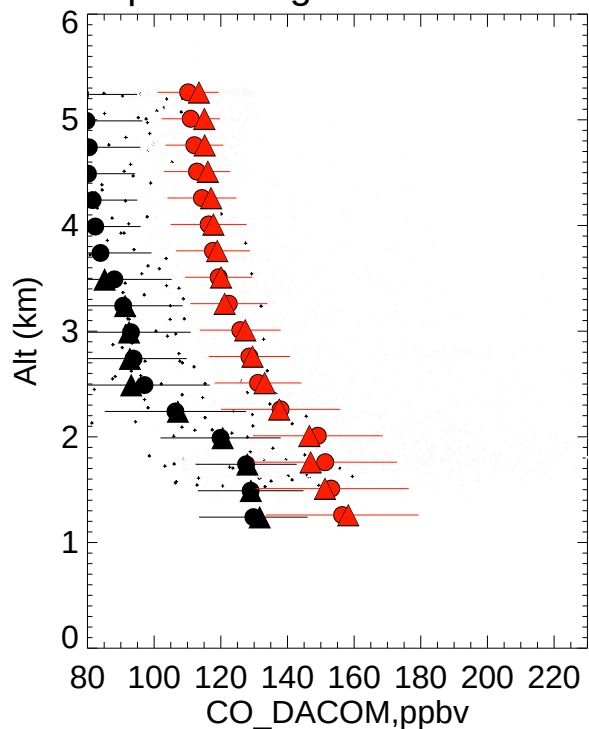
p3b All flight



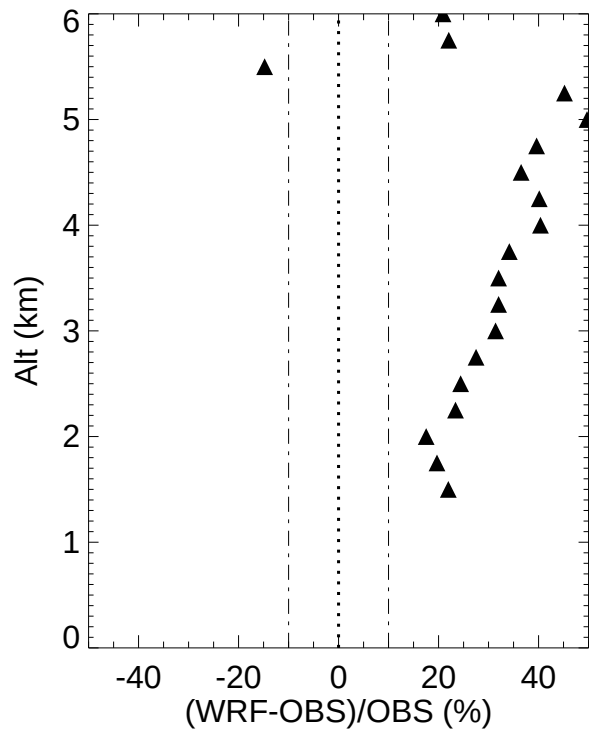
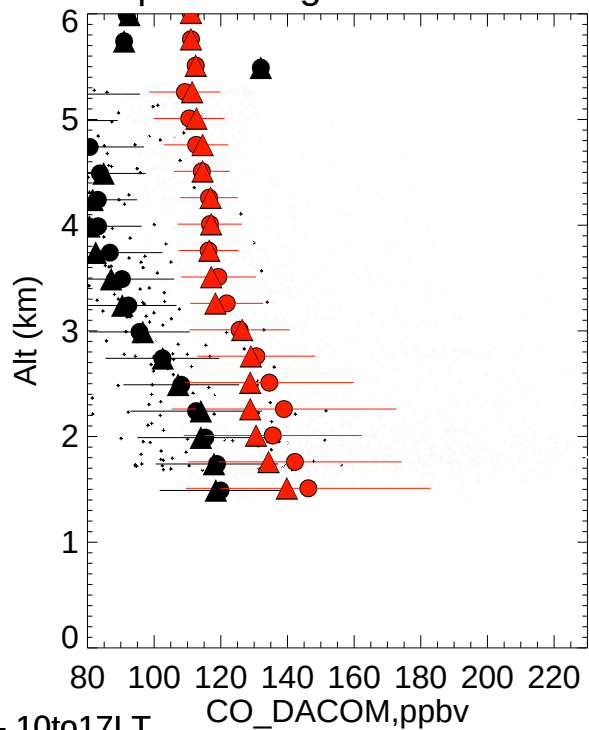
p3b All flight

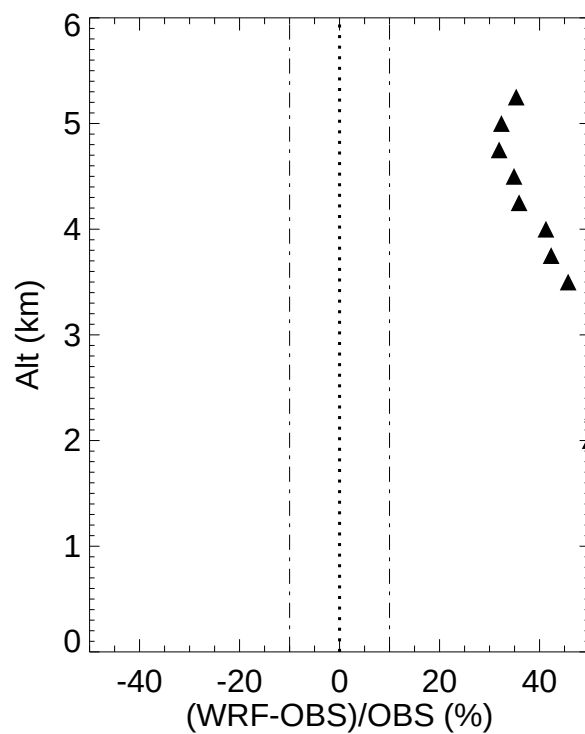
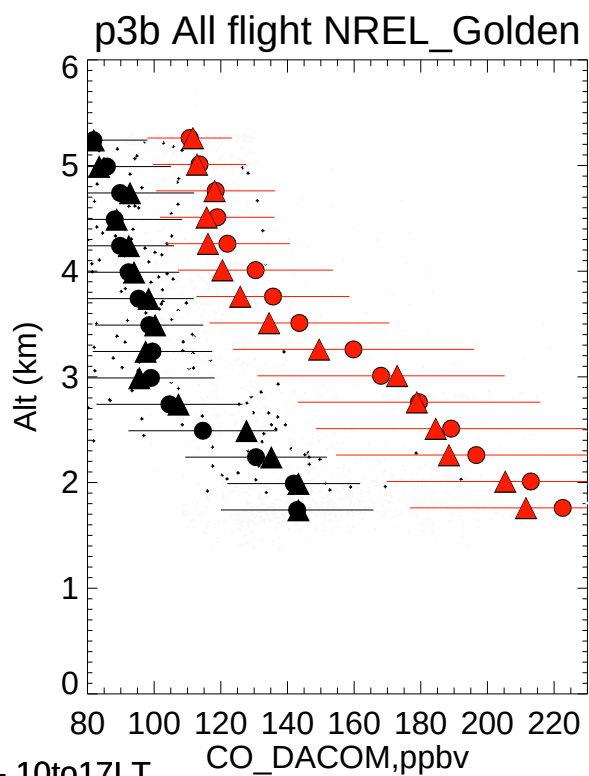
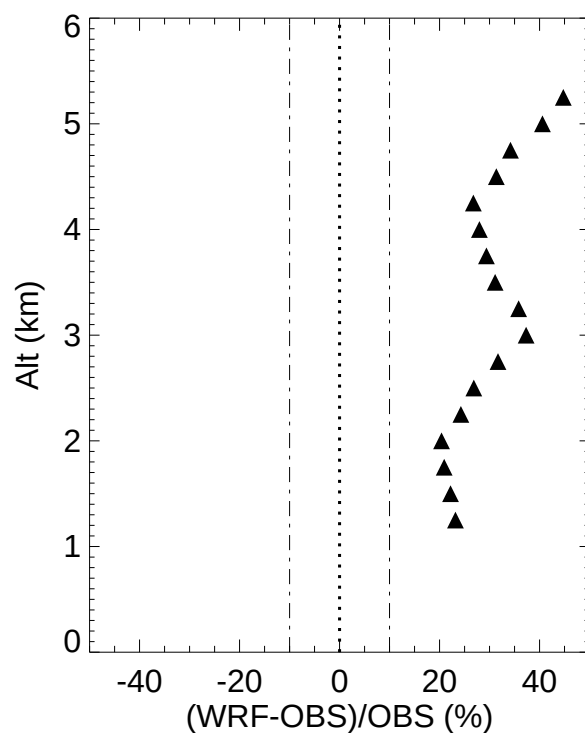
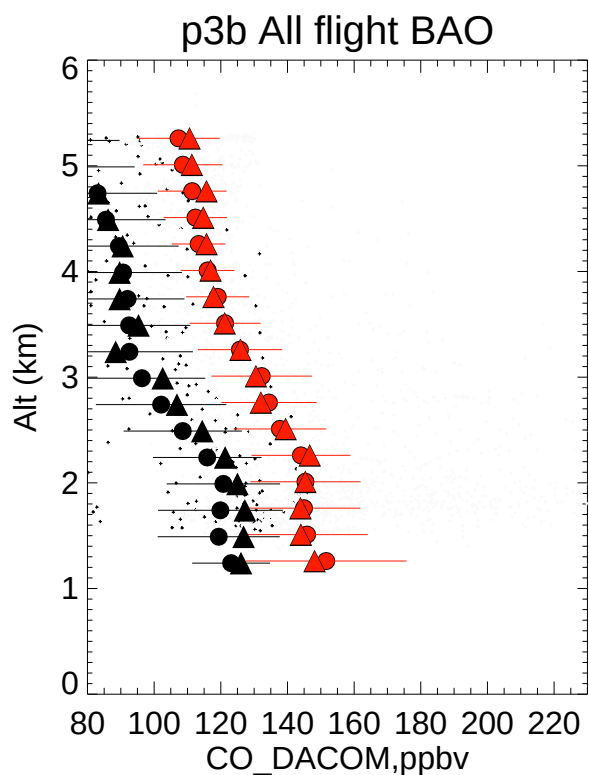


p3b All flight FortCollins

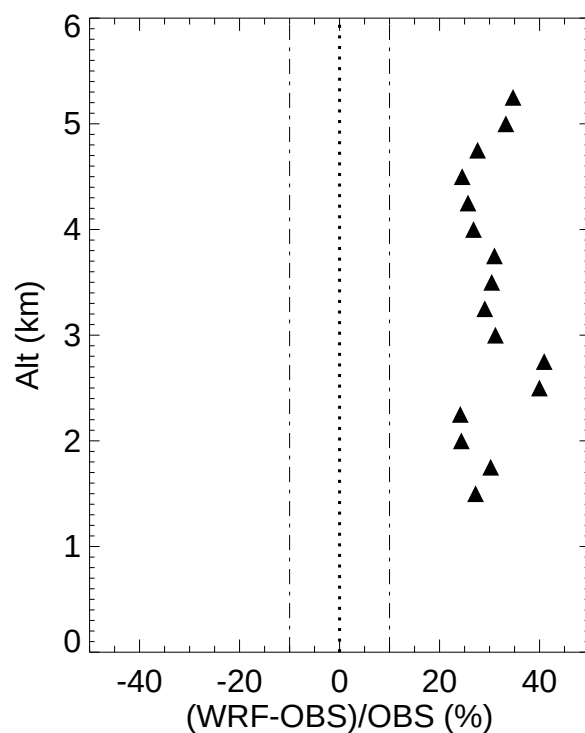
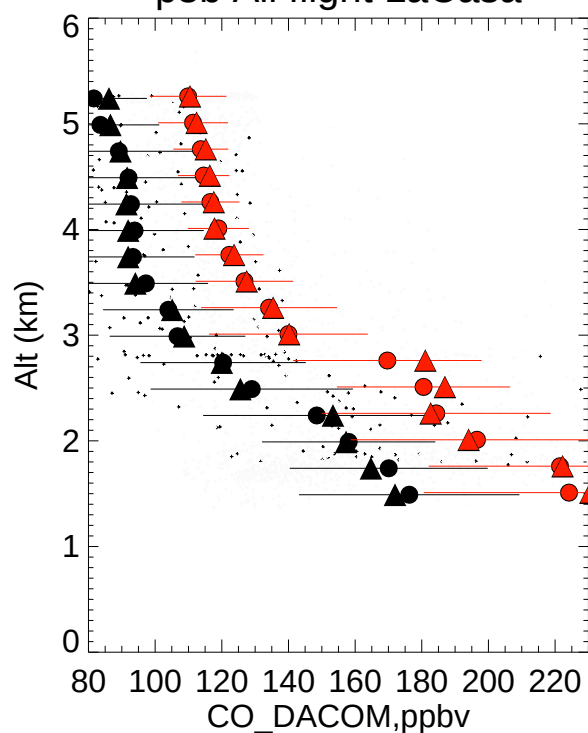


p3b All flight Platteville

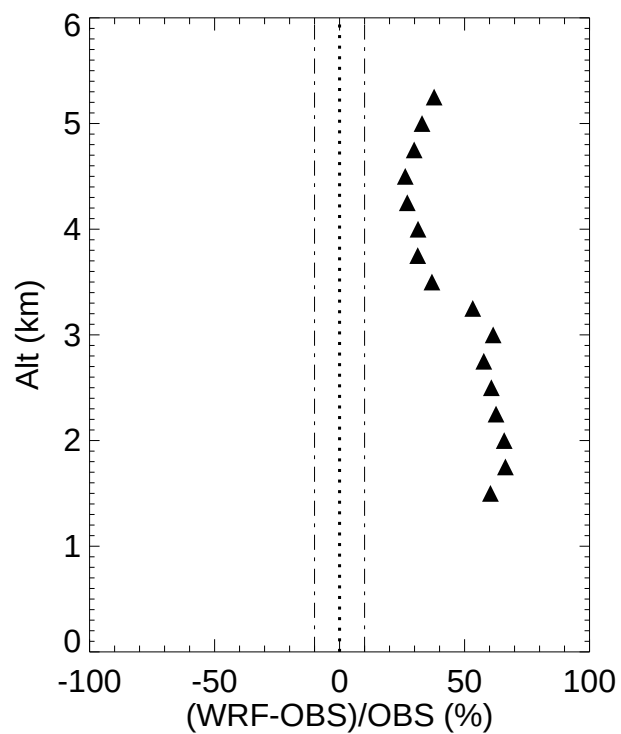
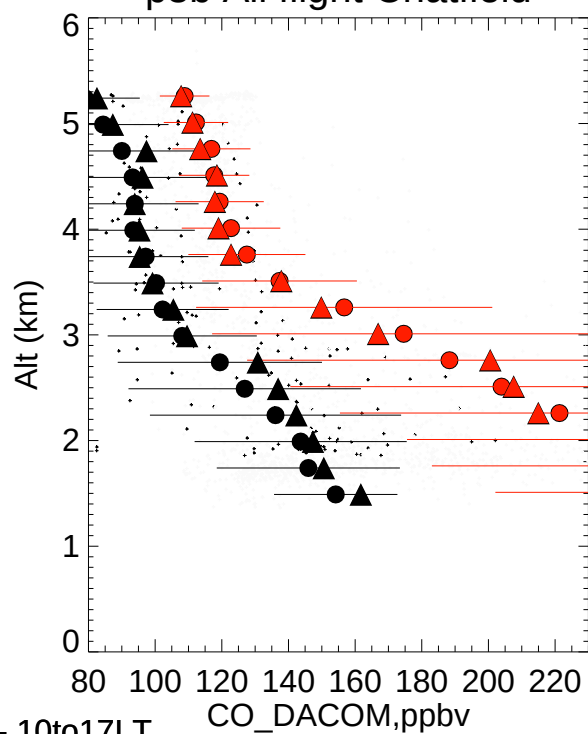




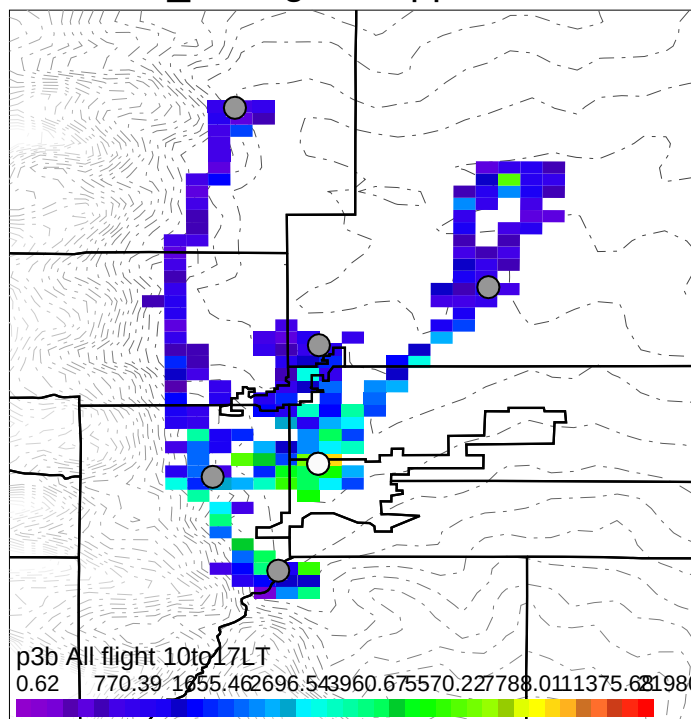
p3b All flight LaCasa



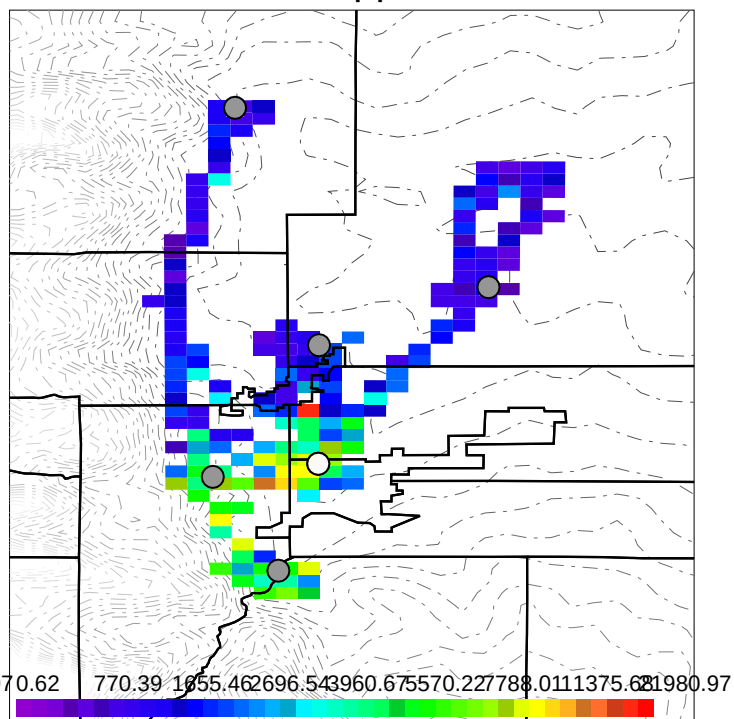
p3b All flight Chatfield



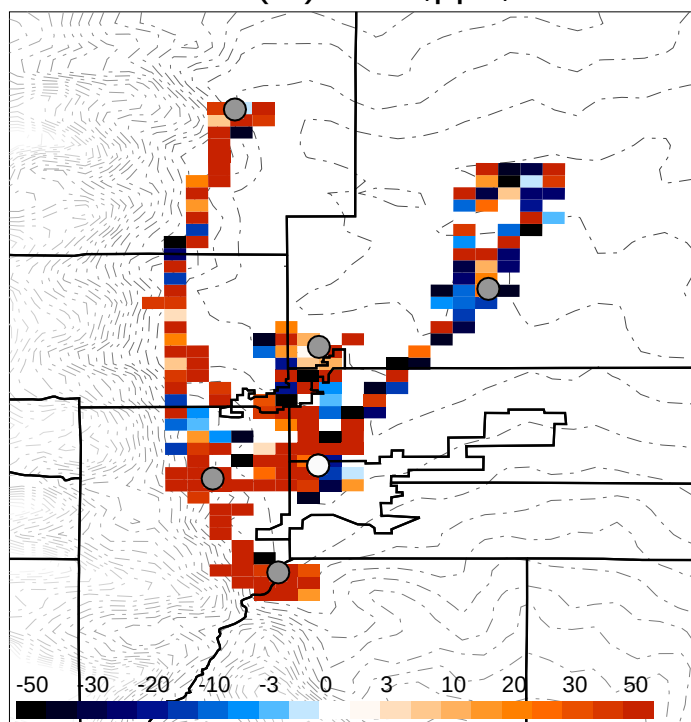
NO2_MixingRatio,pptv < 3 km



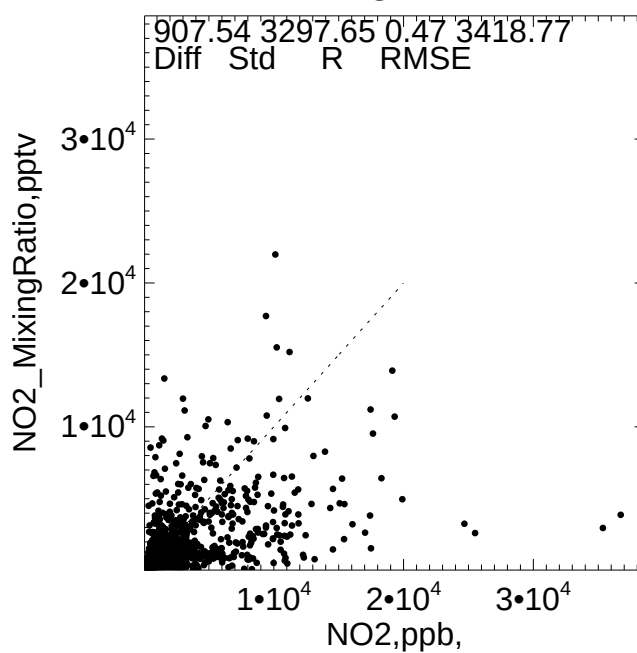
Model NO2,ppb, < 3 km



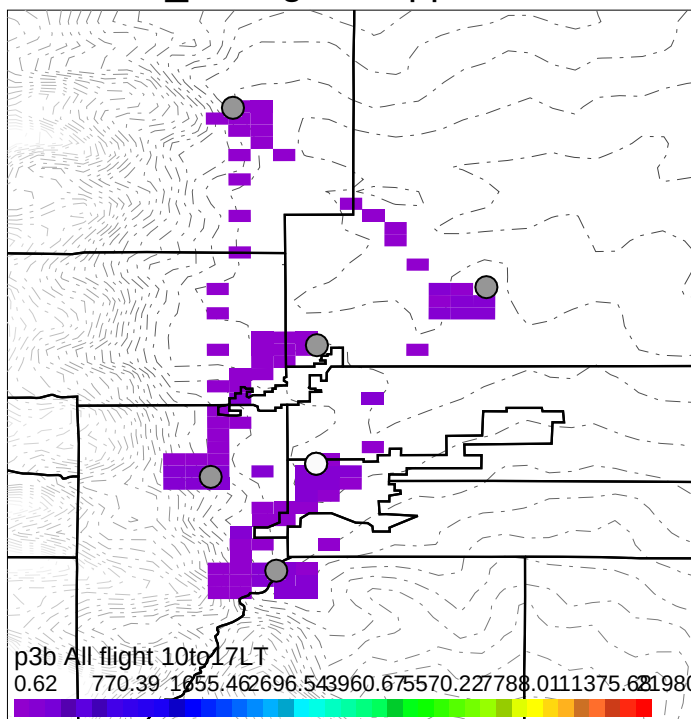
Model-Obs(%) NO2,ppb, < 3 km



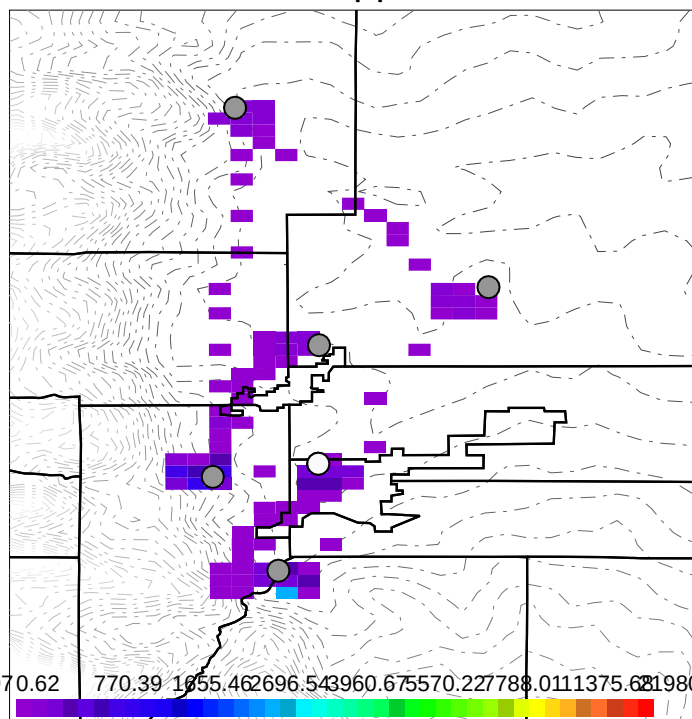
< 3 km



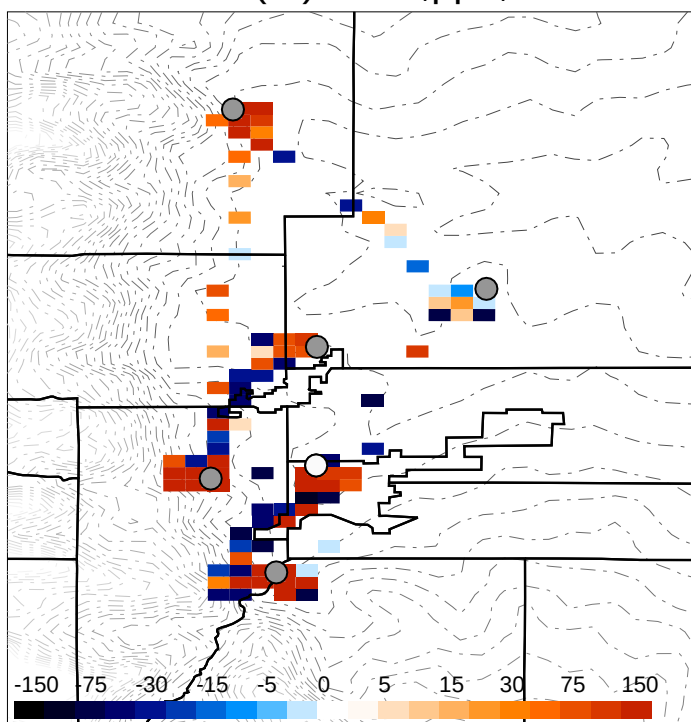
NO2_MixingRatio,pptv > 3 km



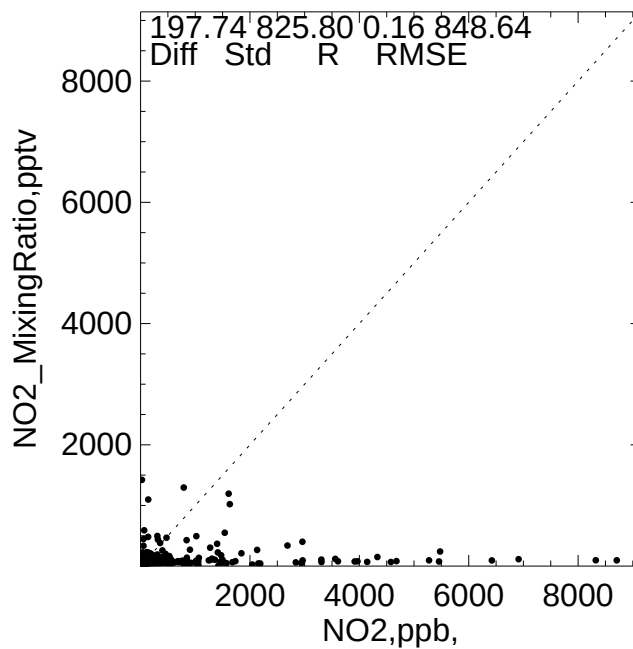
Model NO2,ppb, > 3 km



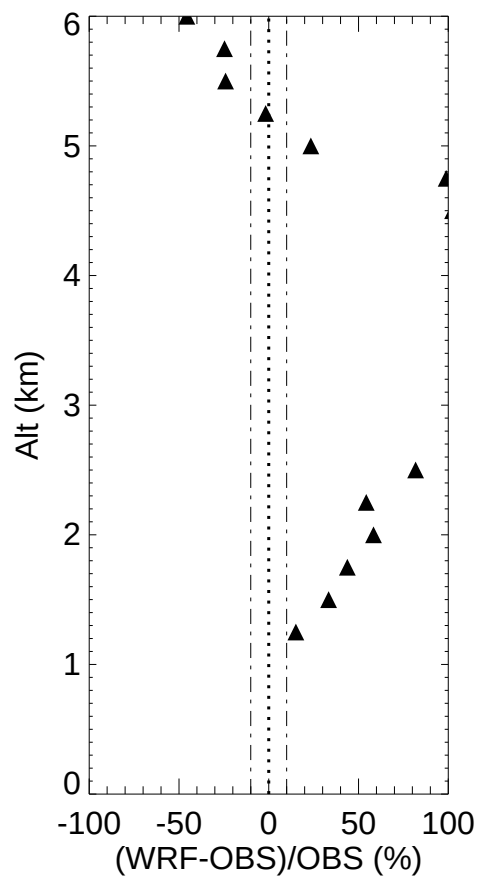
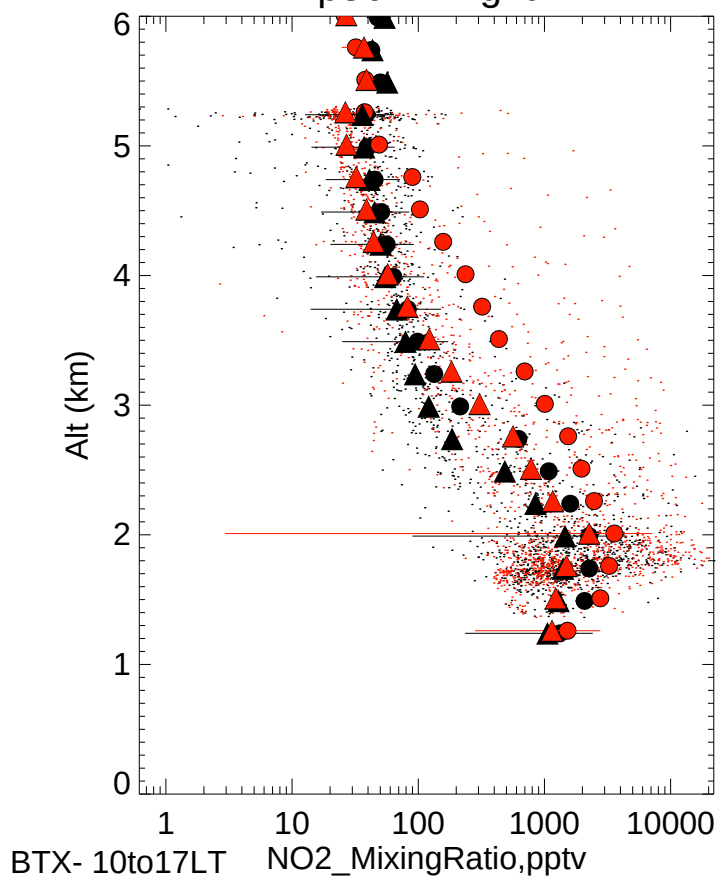
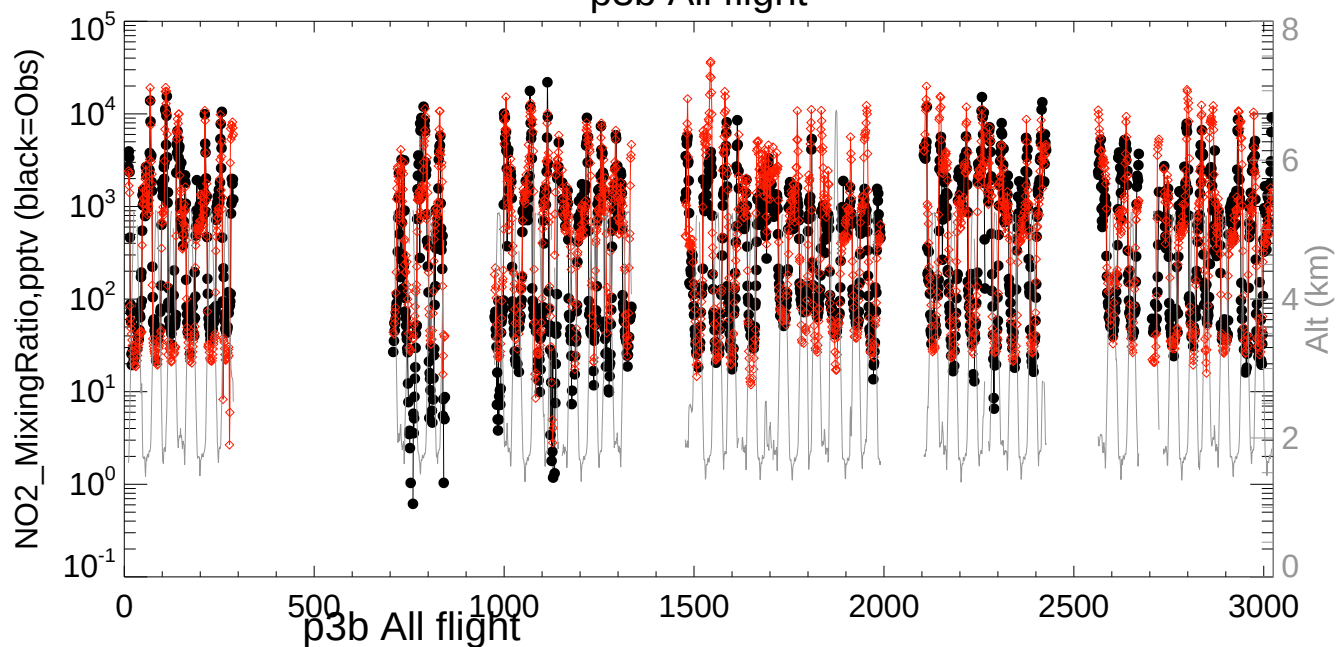
Model-Obs(%) NO2,ppb, > 3 km



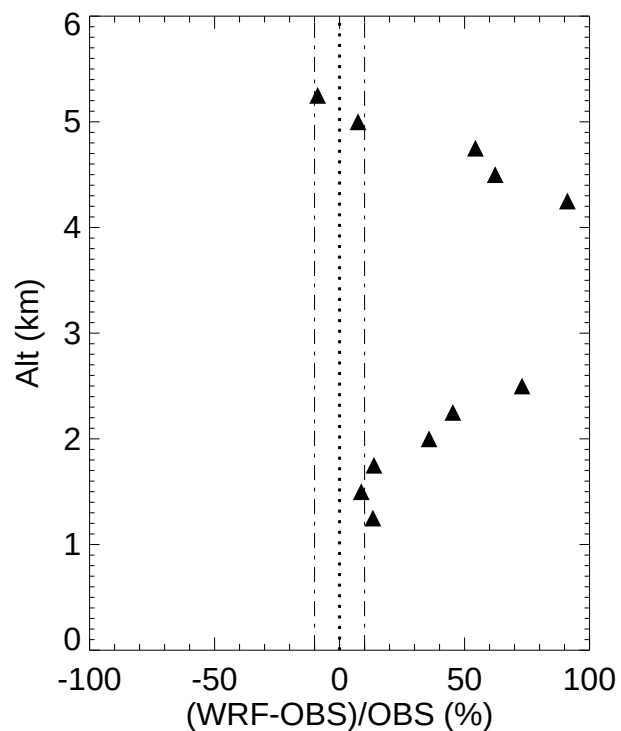
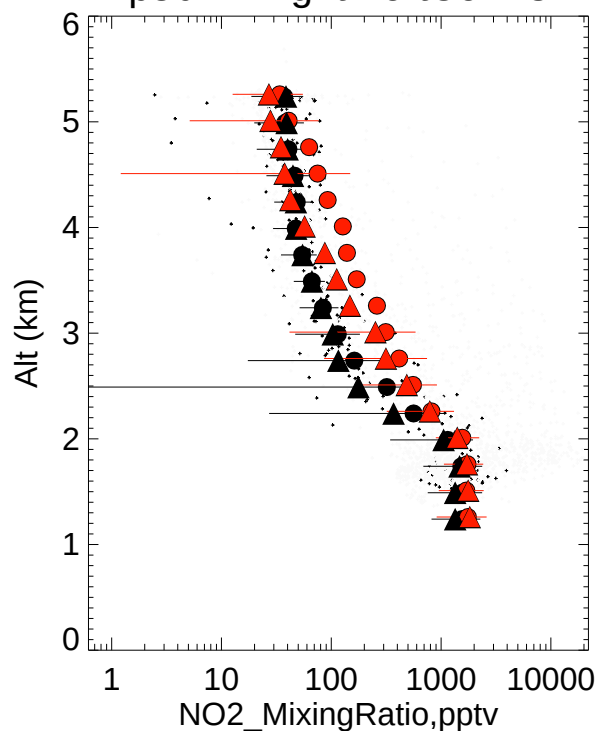
> 3 km



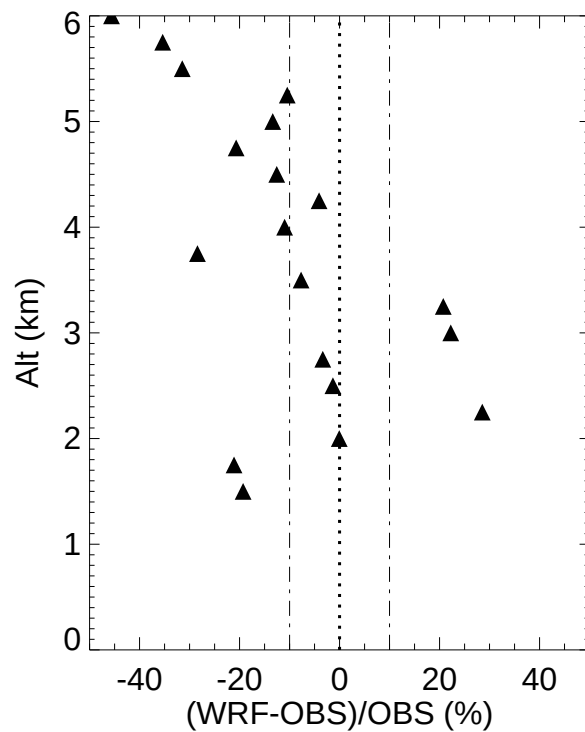
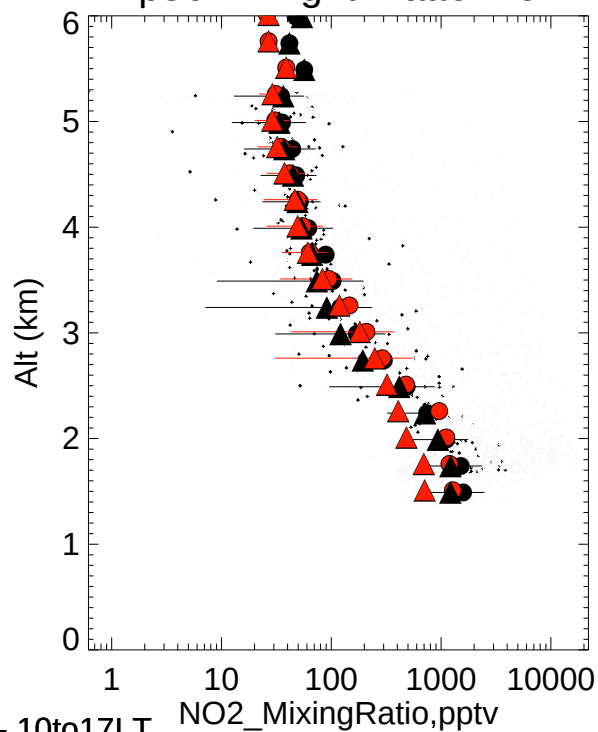
p3b All flight



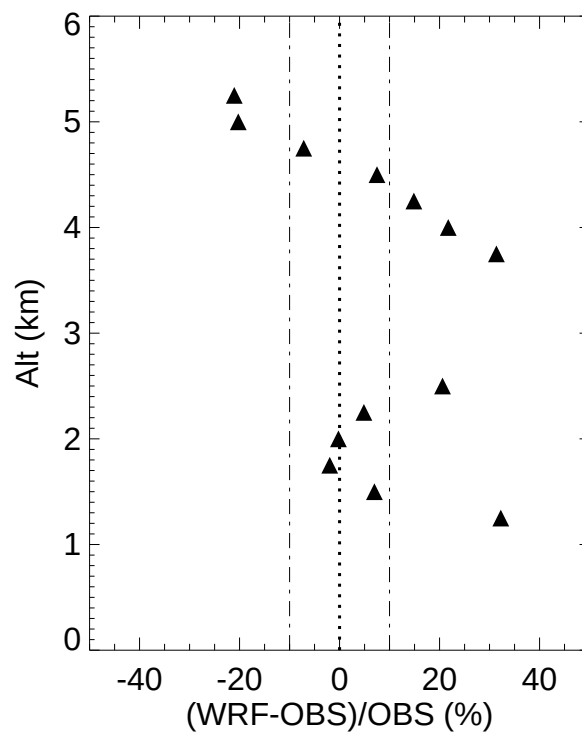
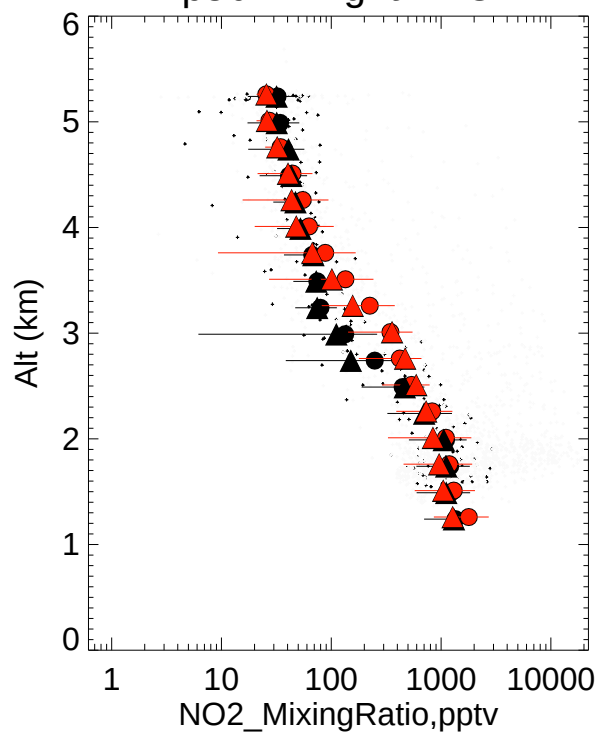
p3b All flight FortCollins



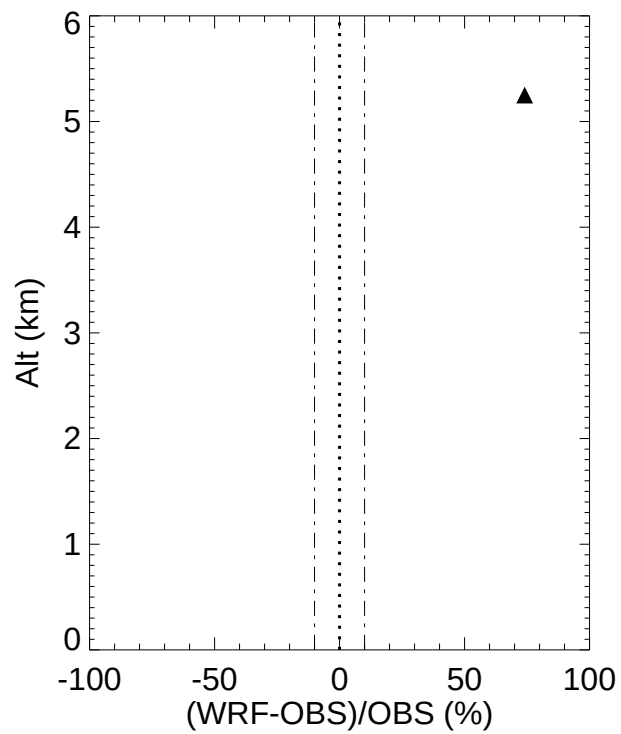
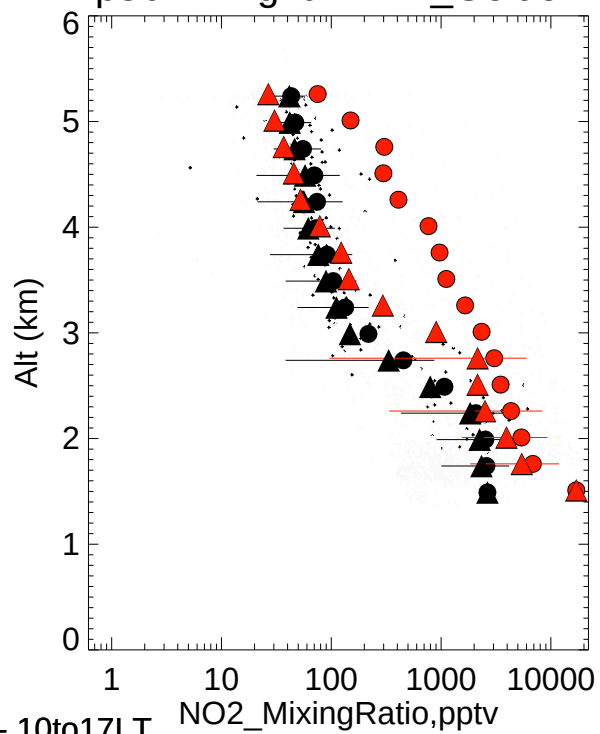
p3b All flight Platteville



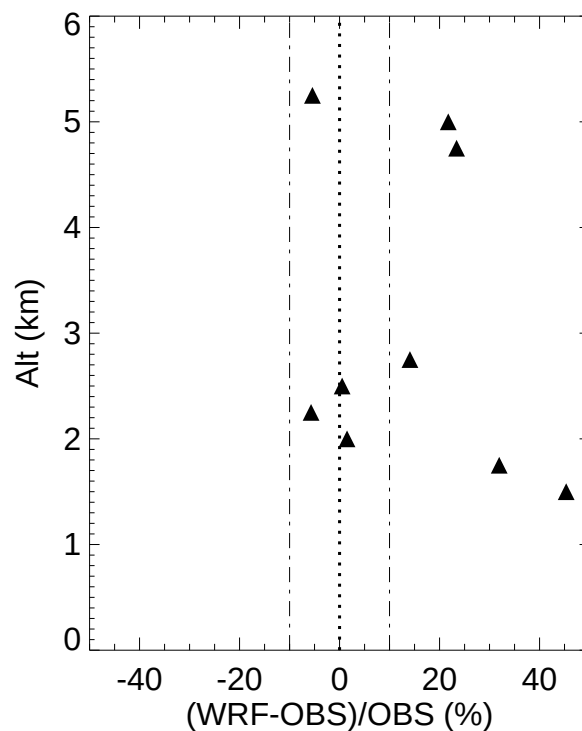
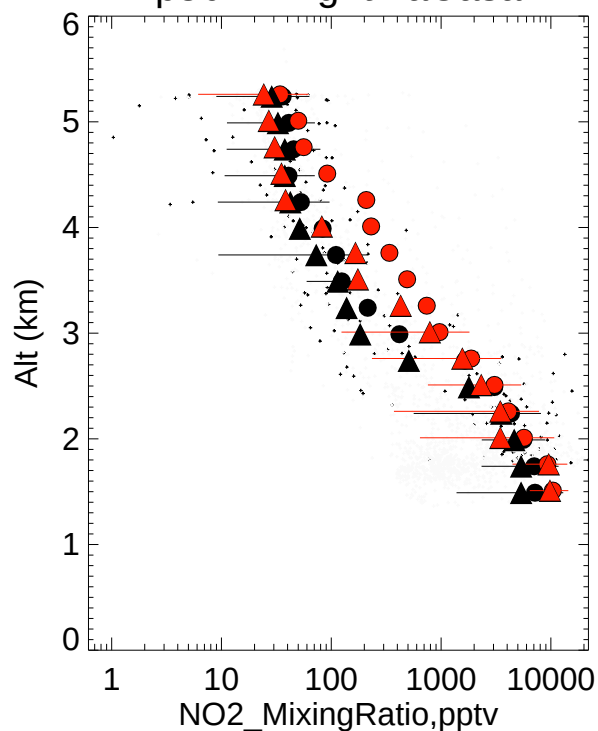
p3b All flight BAO



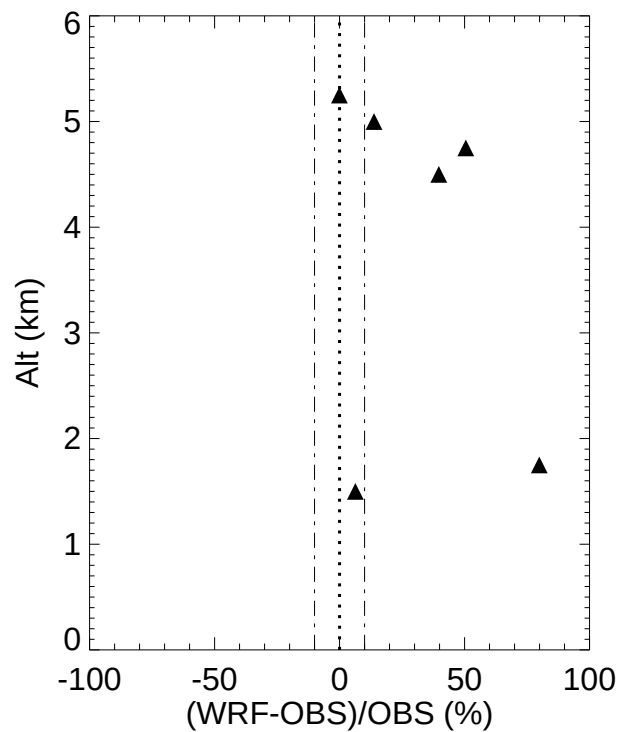
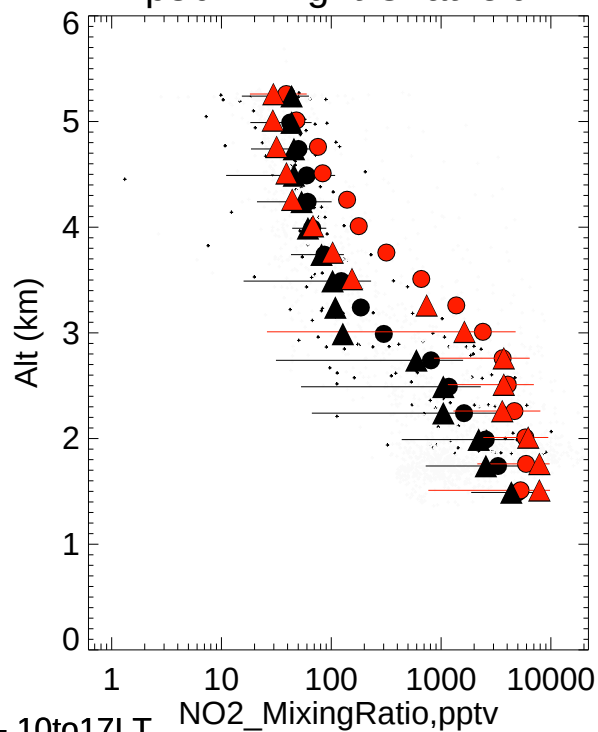
p3b All flight NREL_Golden



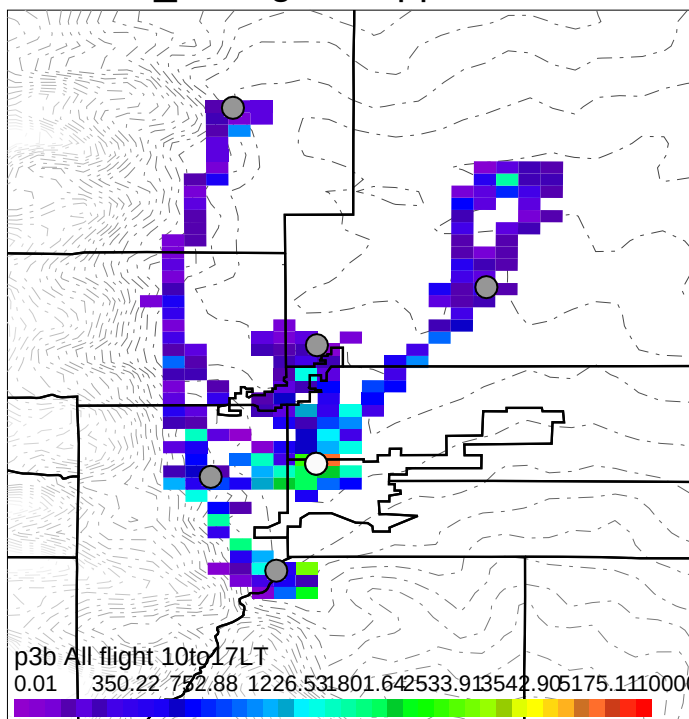
p3b All flight LaCasa



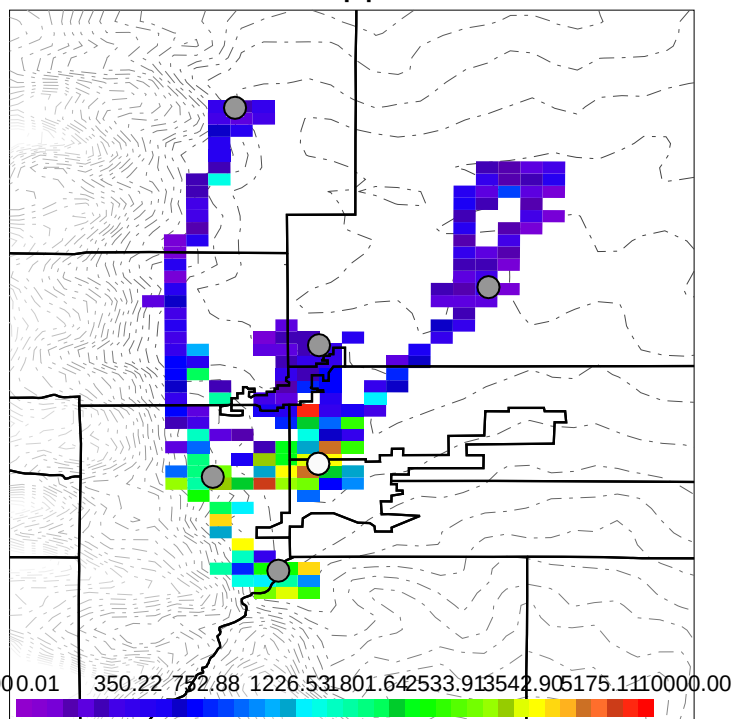
p3b All flight Chatfield



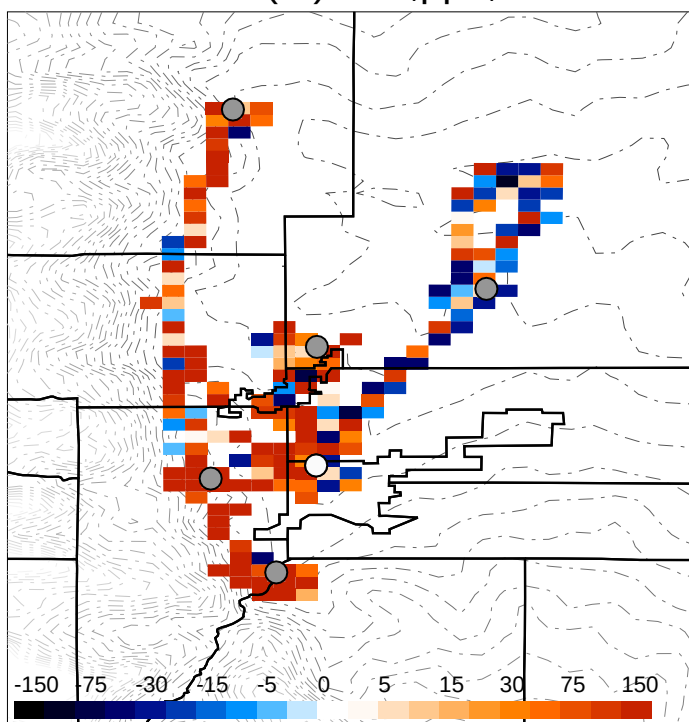
NO_MixingRatio,pptv < 3 km



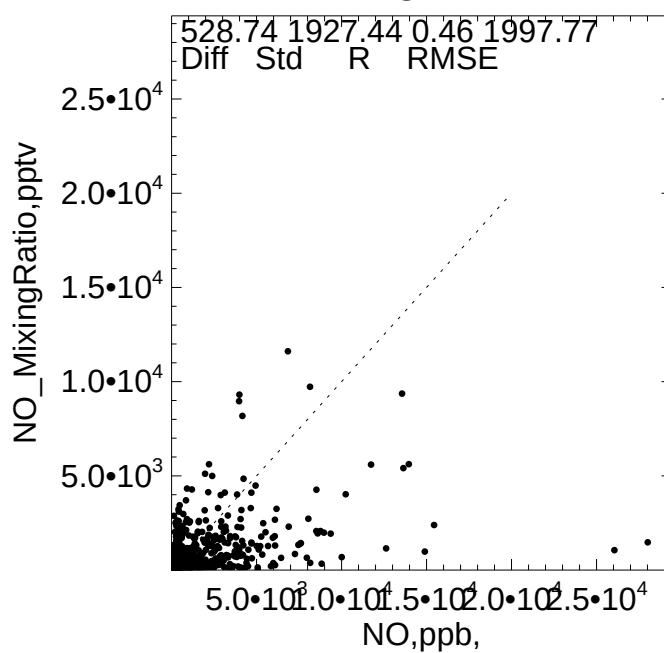
Model NO,ppb, < 3 km



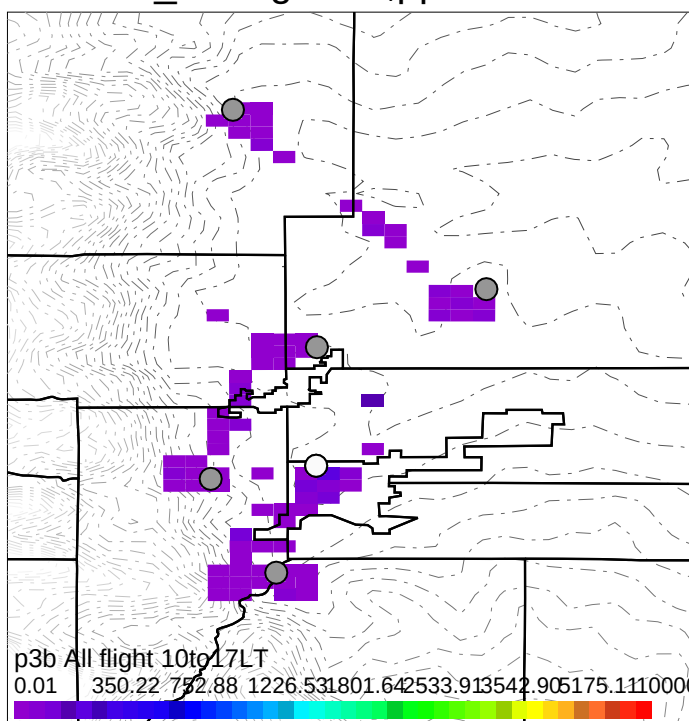
Model-Obs(%) NO,ppb, < 3 km



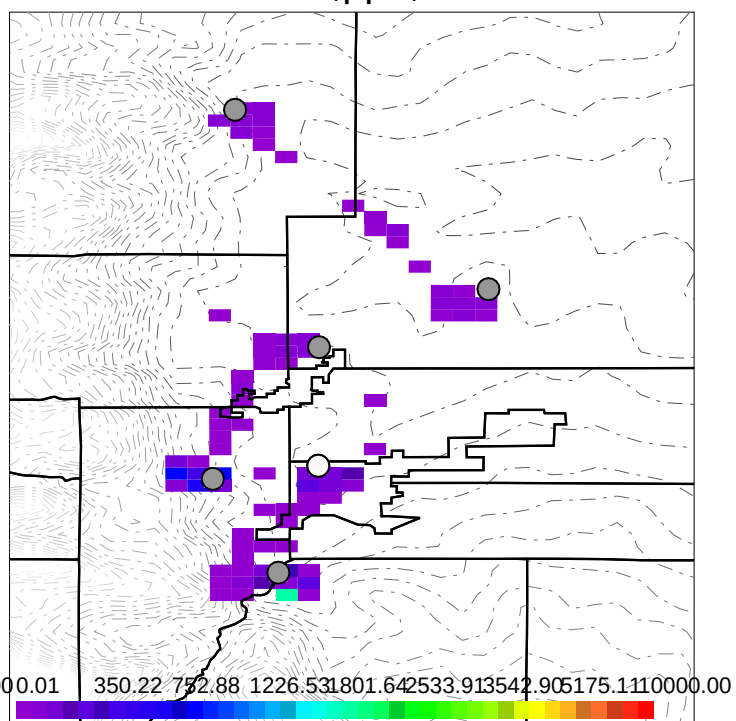
< 3 km



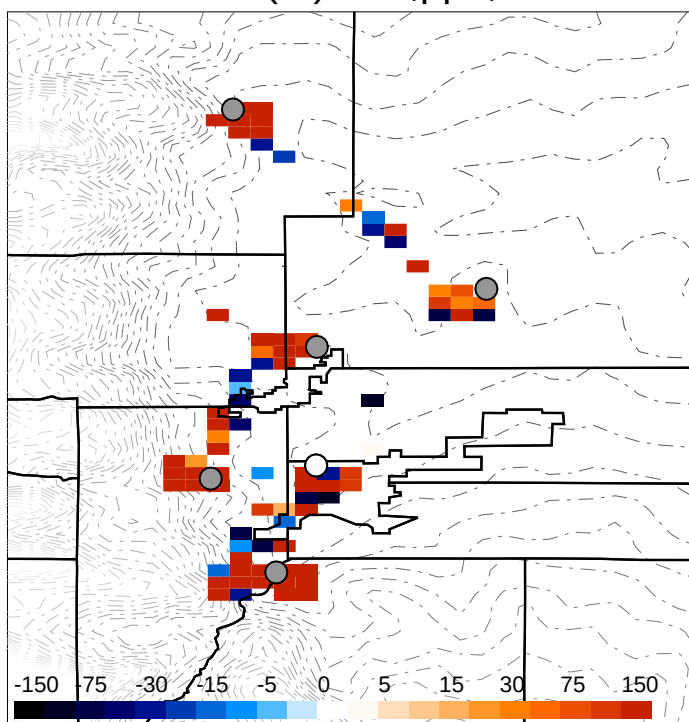
NO_MixingRatio,pptv > 3 km



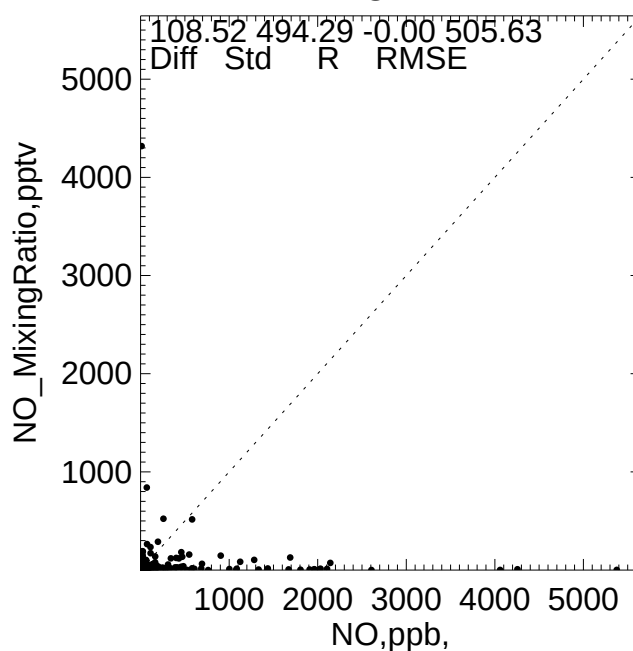
Model NO,ppb, > 3 km

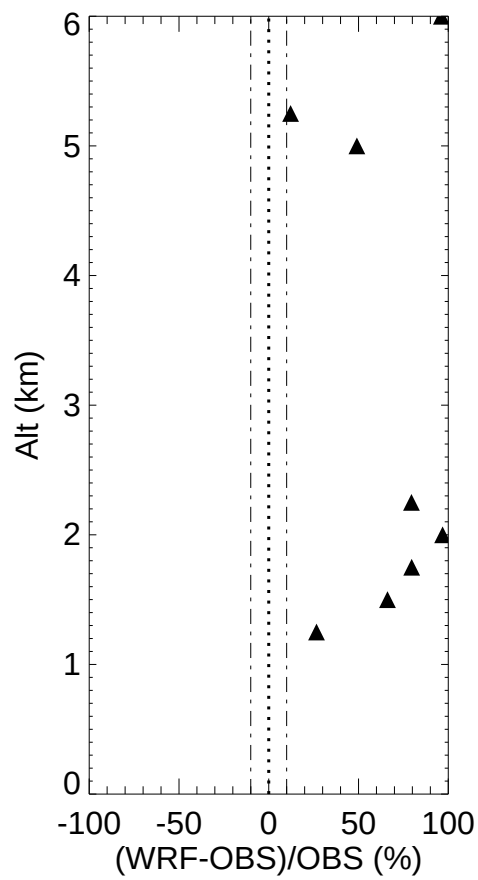
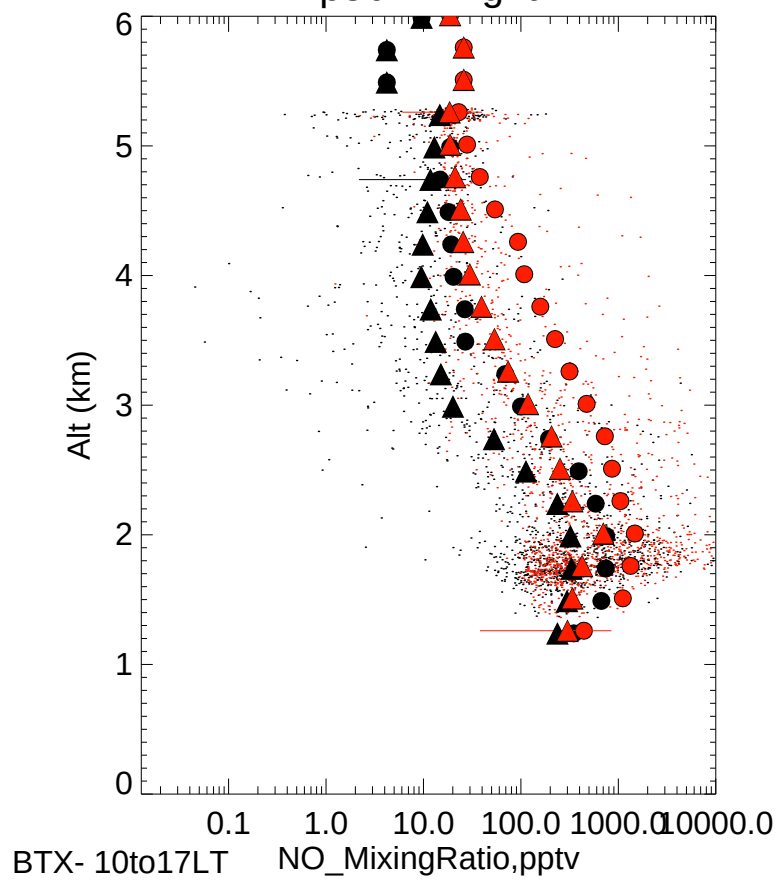
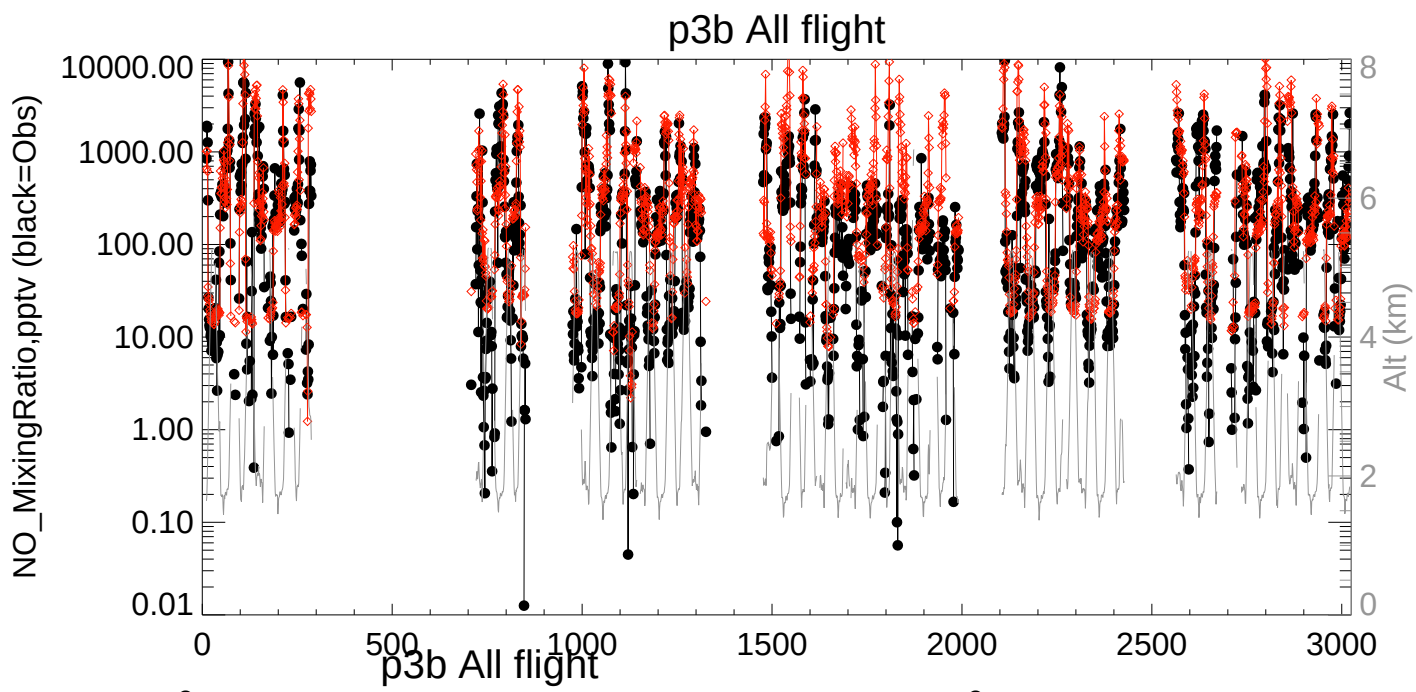


Model-Obs(%) NO,ppb, > 3 km

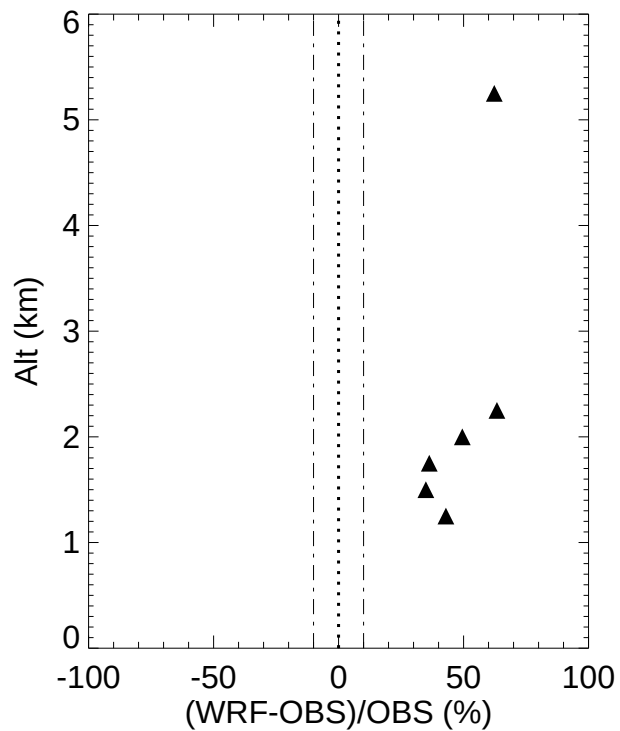
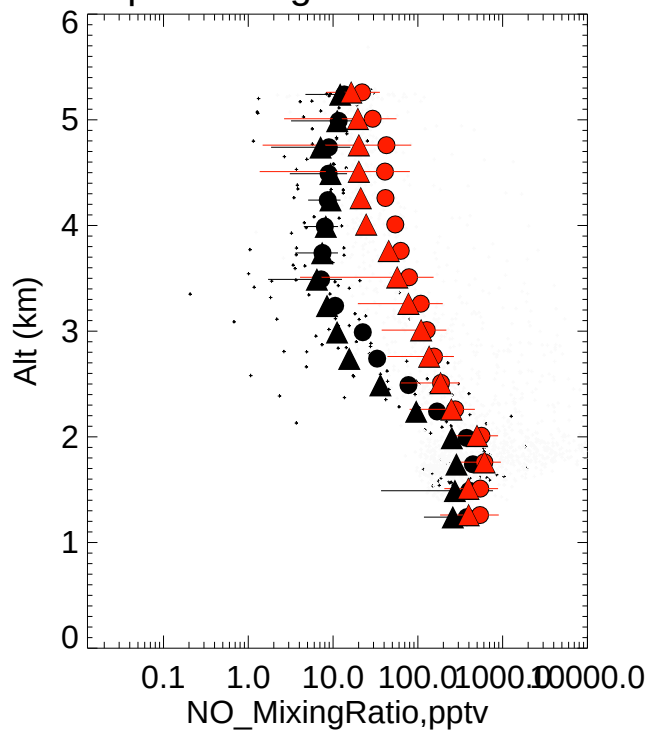


> 3 km

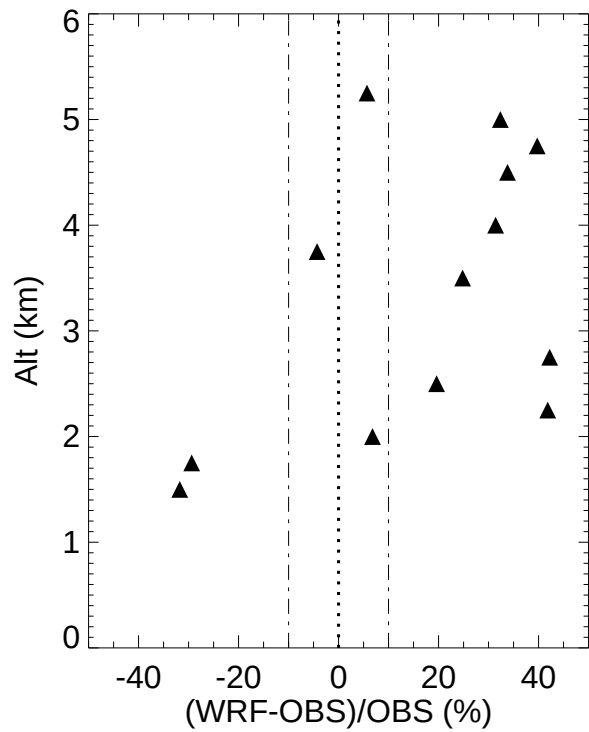
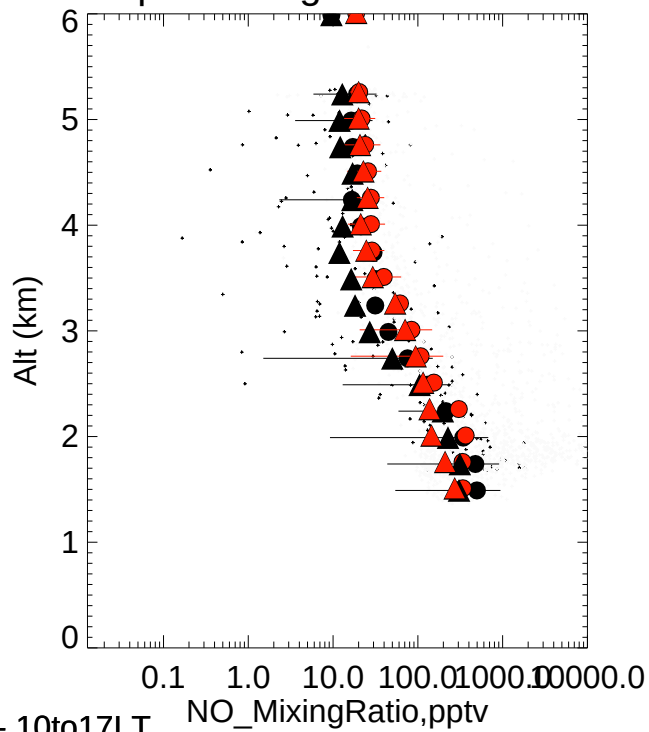




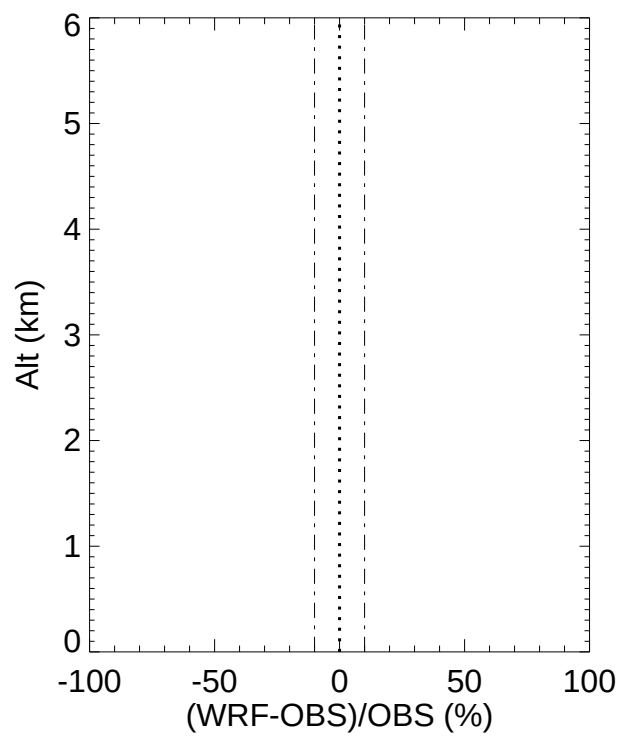
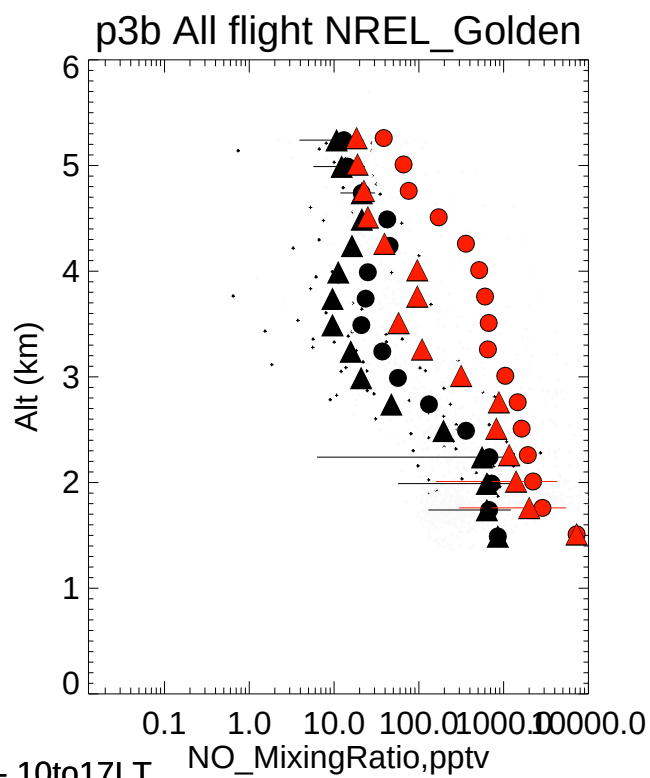
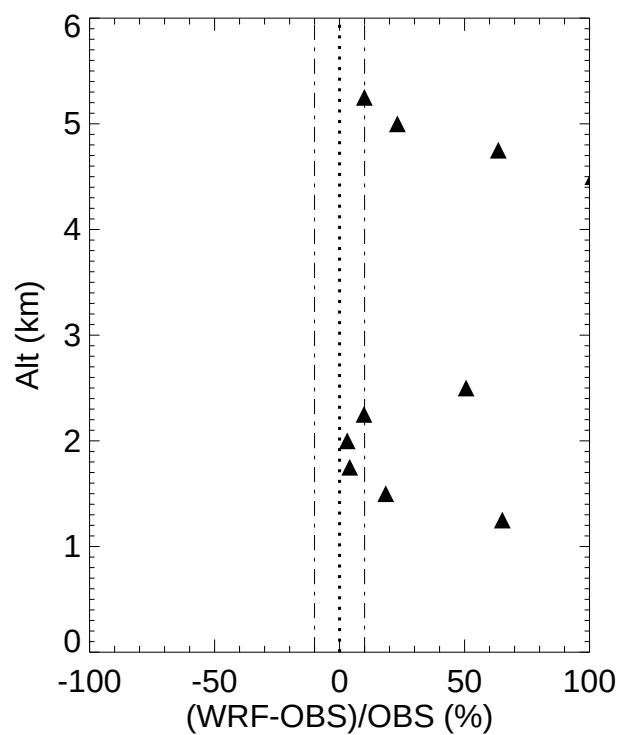
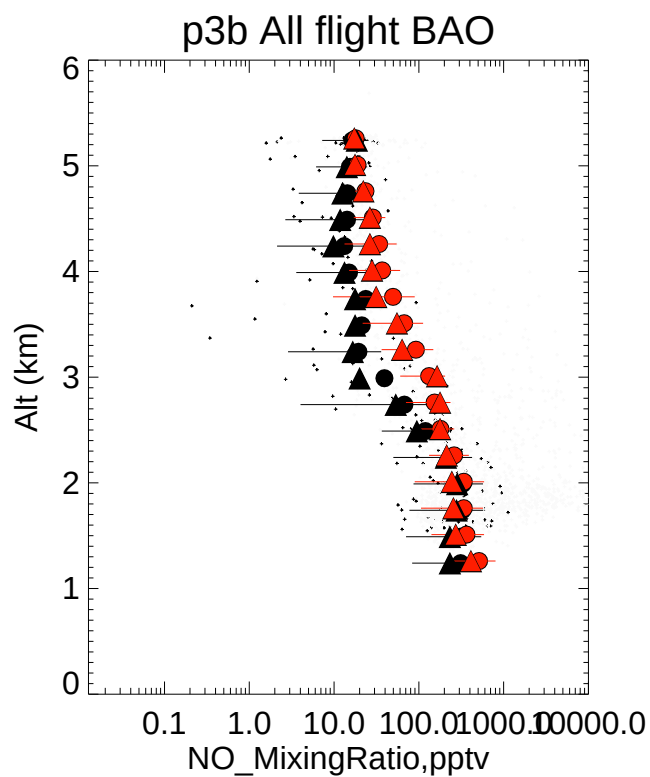
p3b All flight FortCollins



p3b All flight Platteville

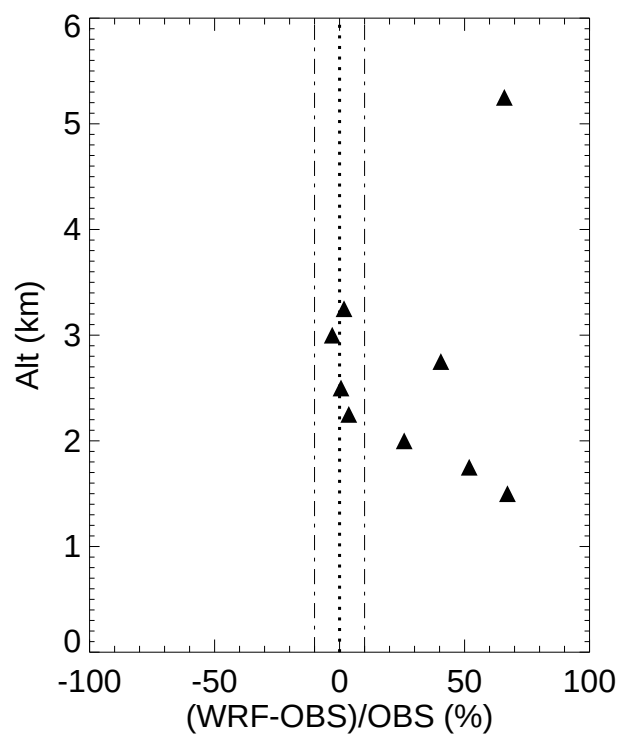
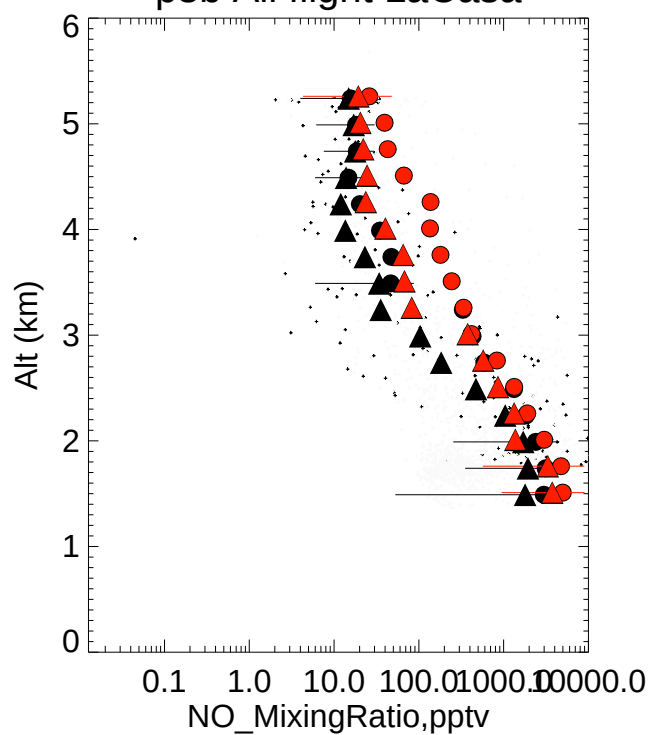


BTX- 10to17LT

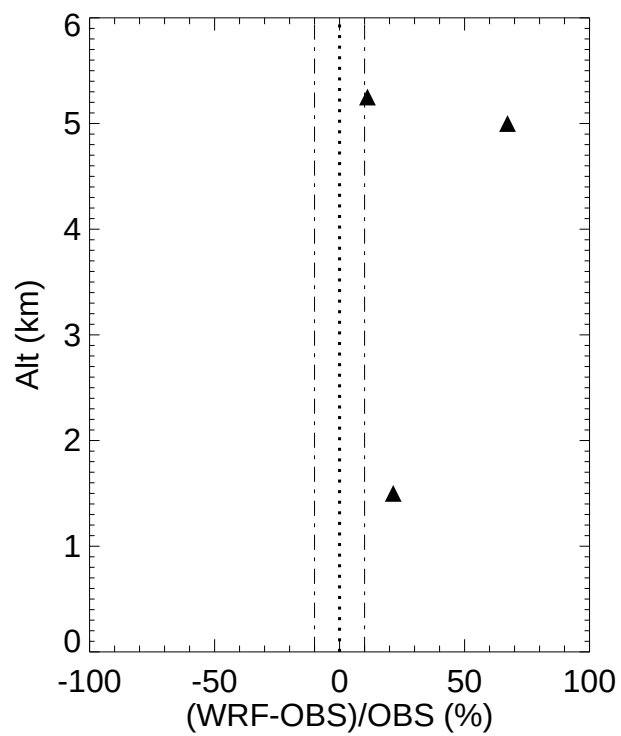
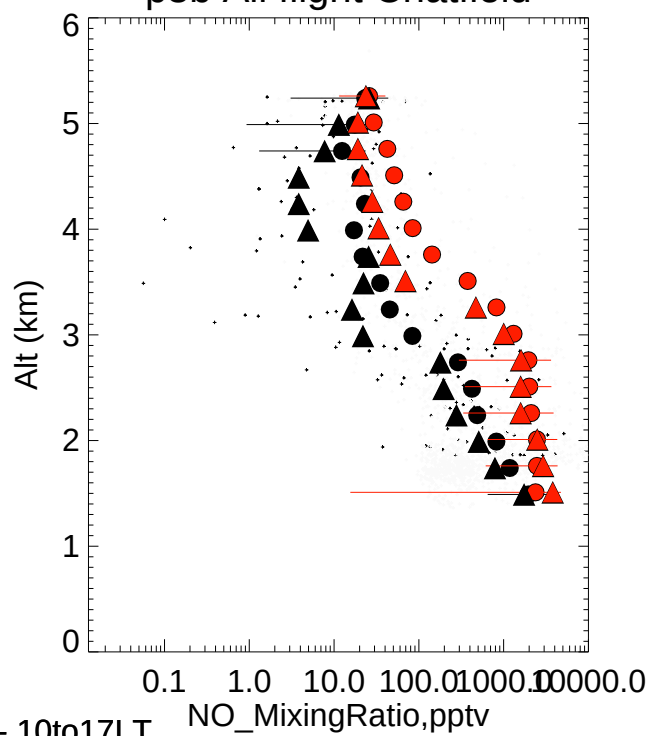


BTX- 10to17LT

p3b All flight LaCasa

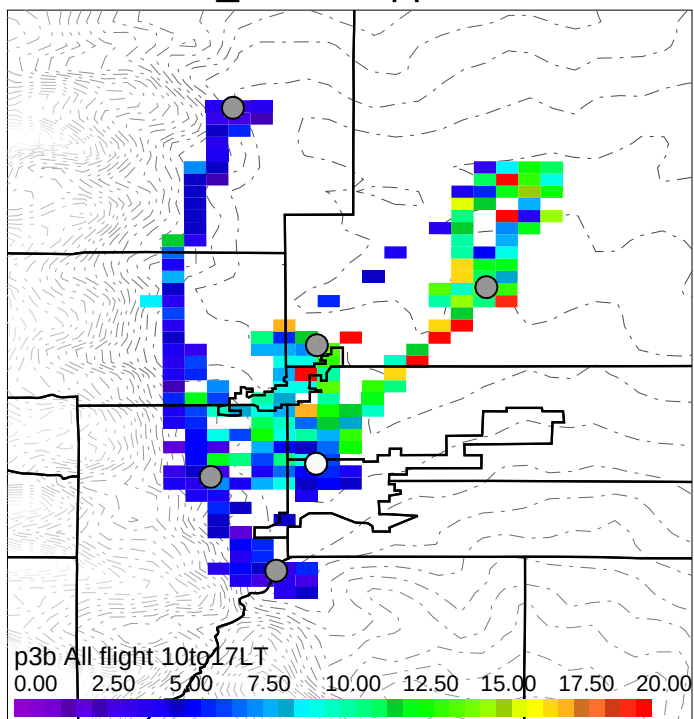


p3b All flight Chatfield

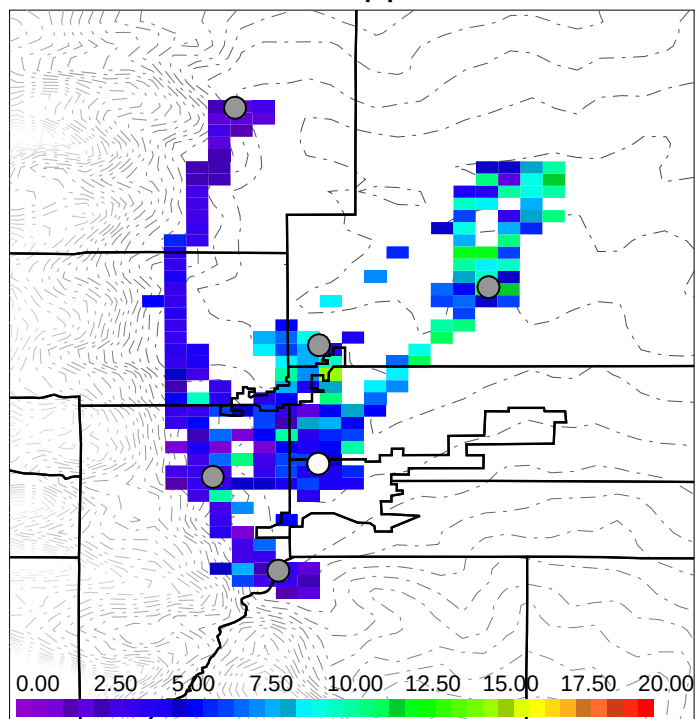


BTX- 10to17LT

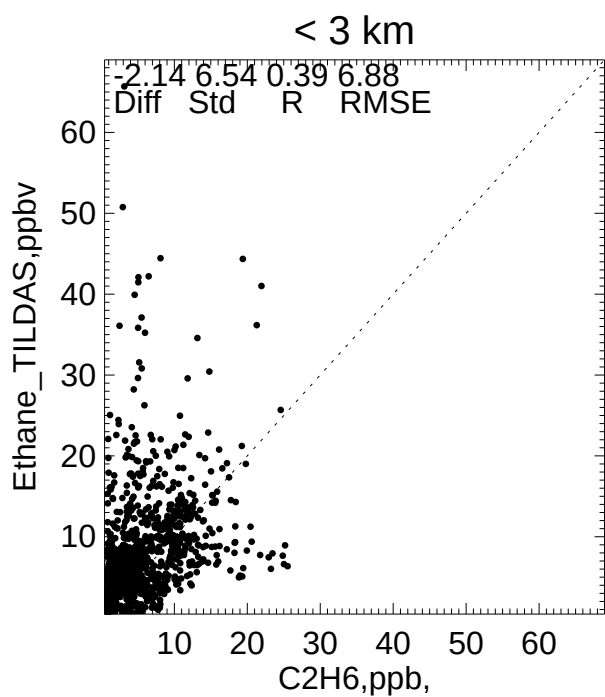
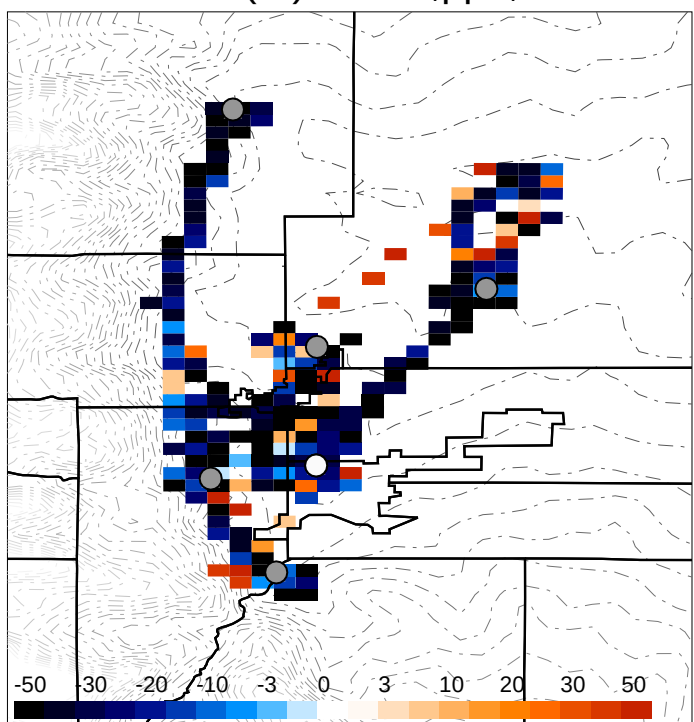
Ethane_TILDAS,ppbv < 3 km



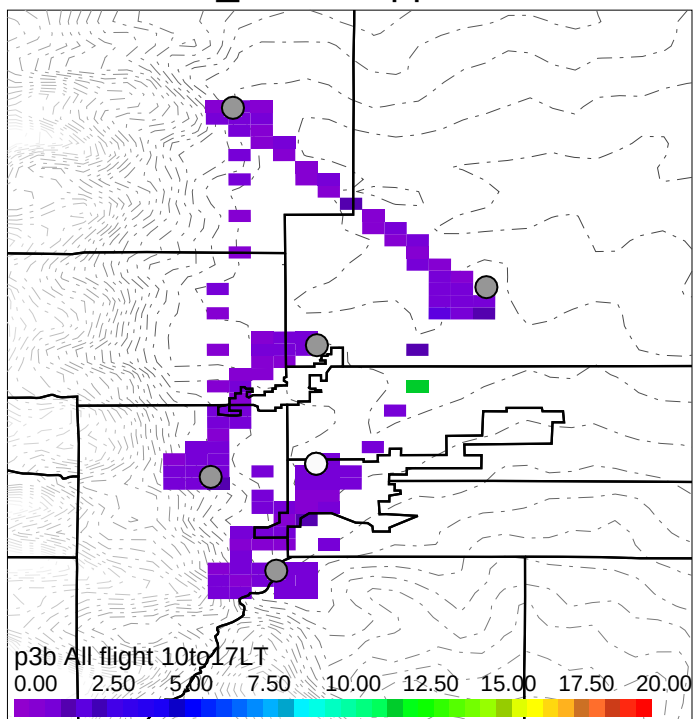
Model C2H6,ppb, < 3 km



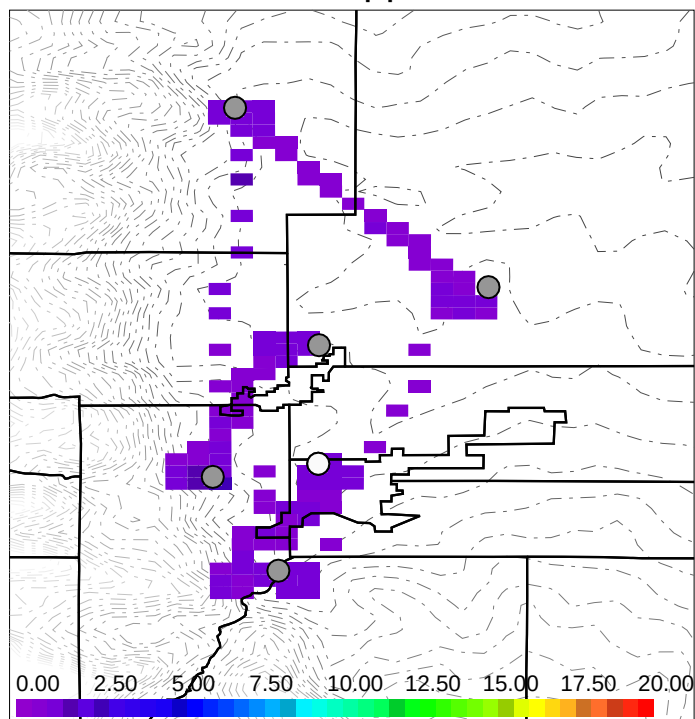
Model-Obs(%) C2H6,ppb, < 3 km



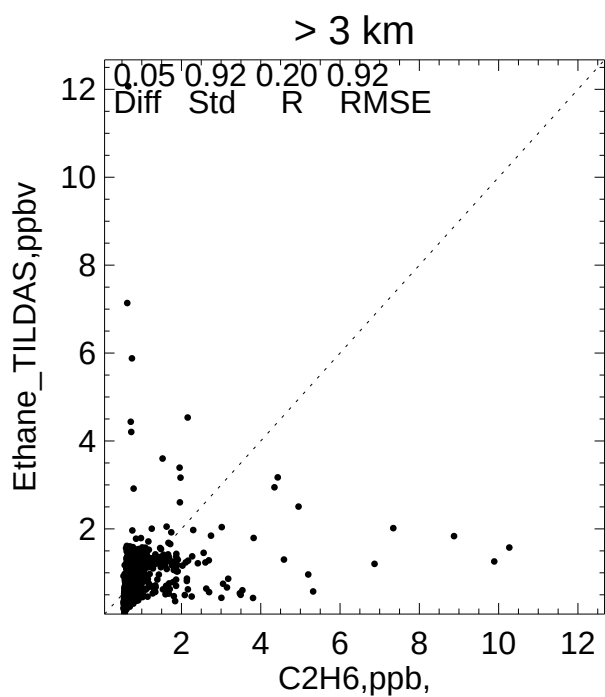
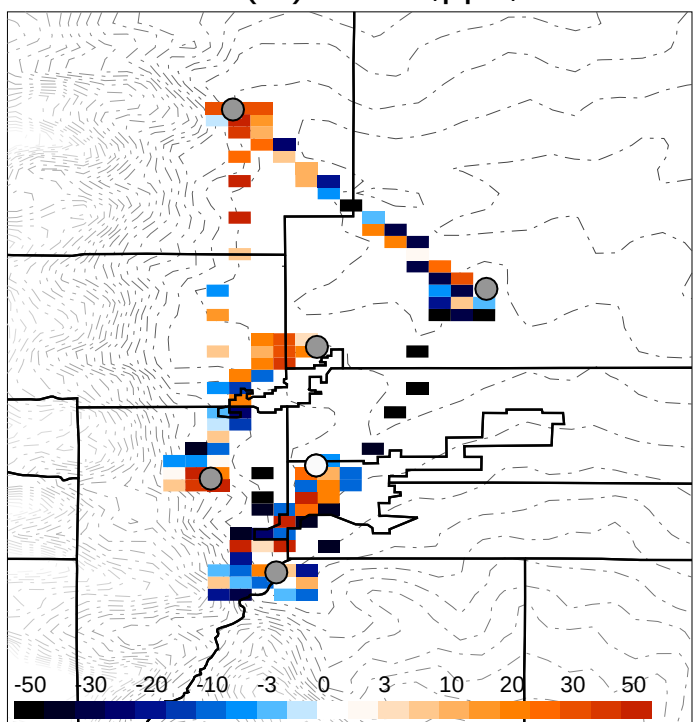
Ethane_TILDAS,ppbv > 3 km



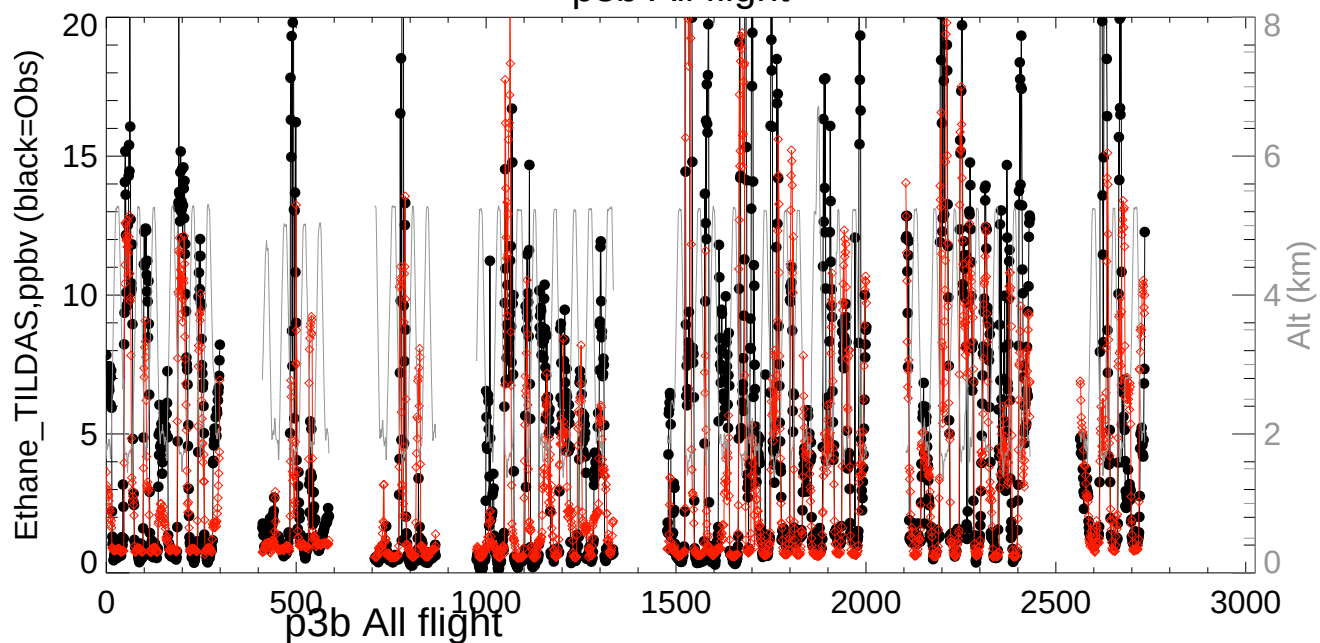
Model C2H6,ppb, > 3 km



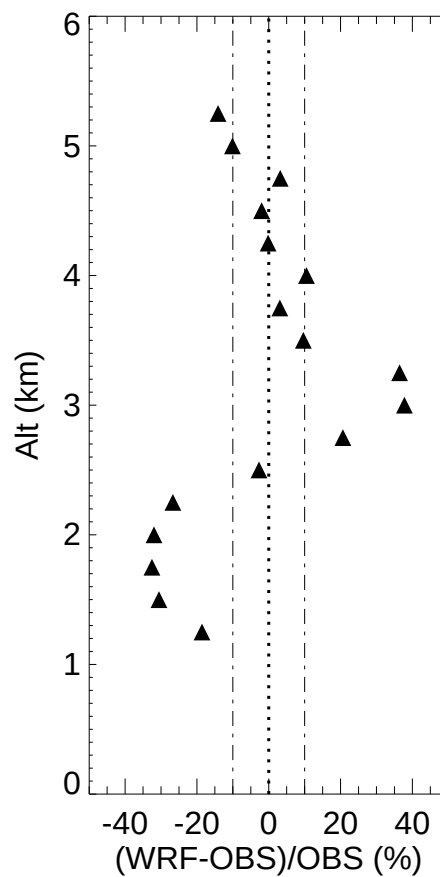
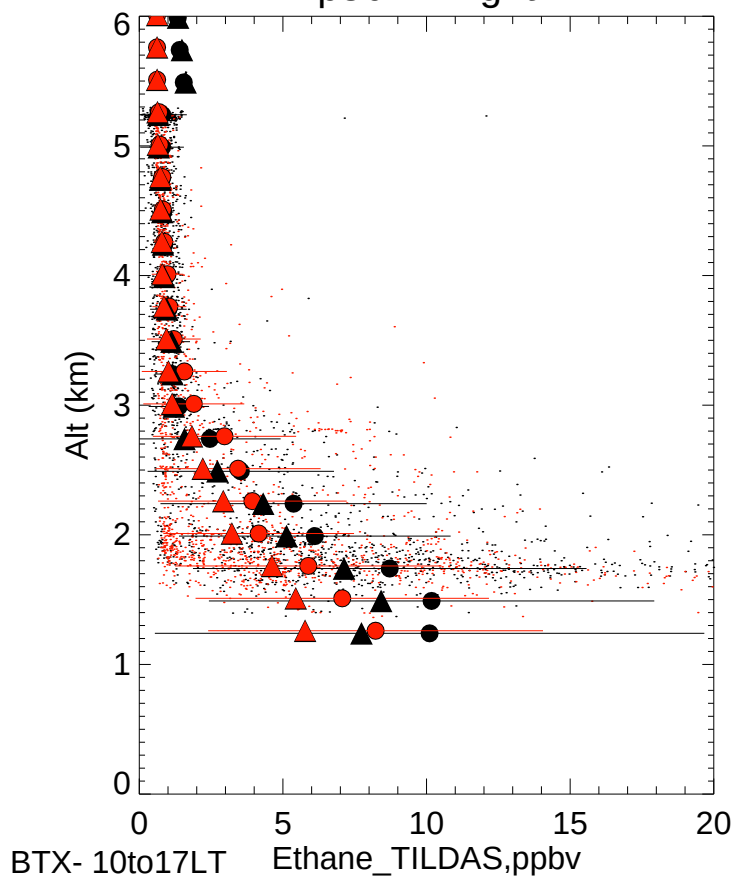
Model-Obs(%) C2H6,ppb, > 3 km



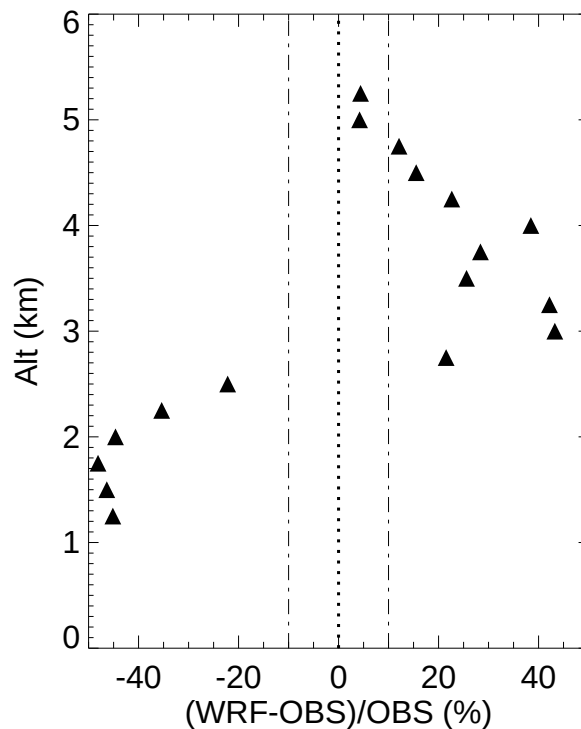
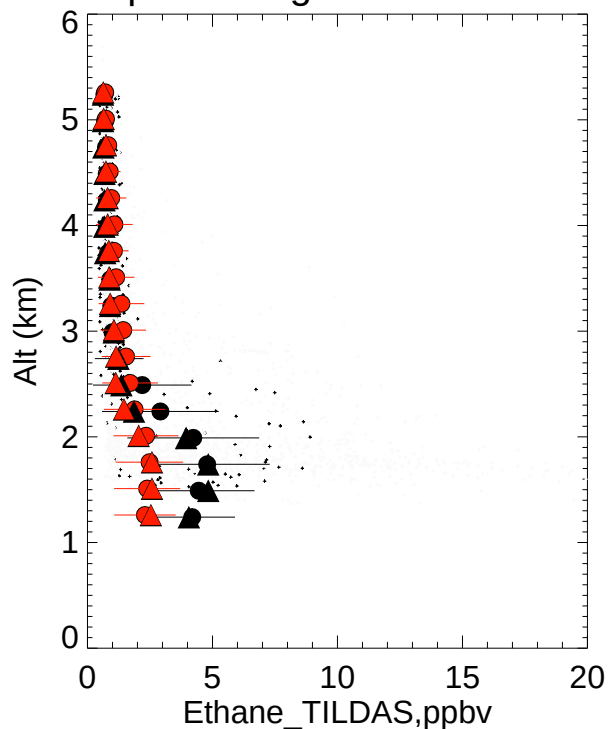
p3b All flight



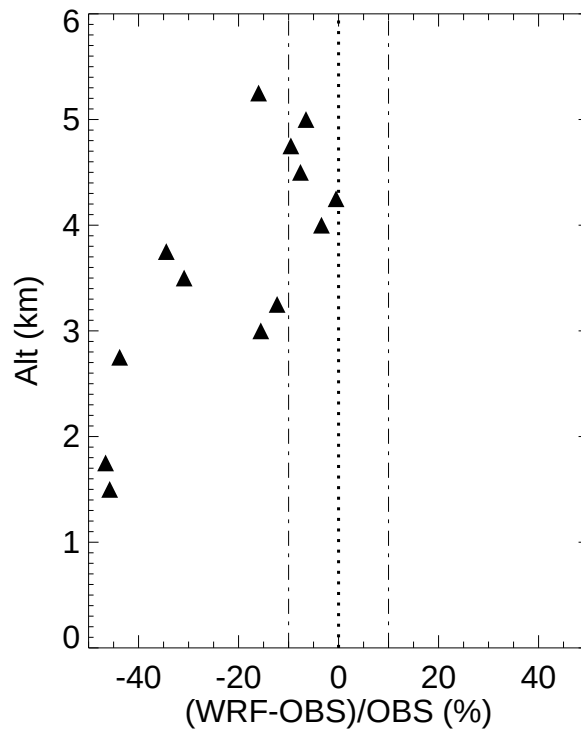
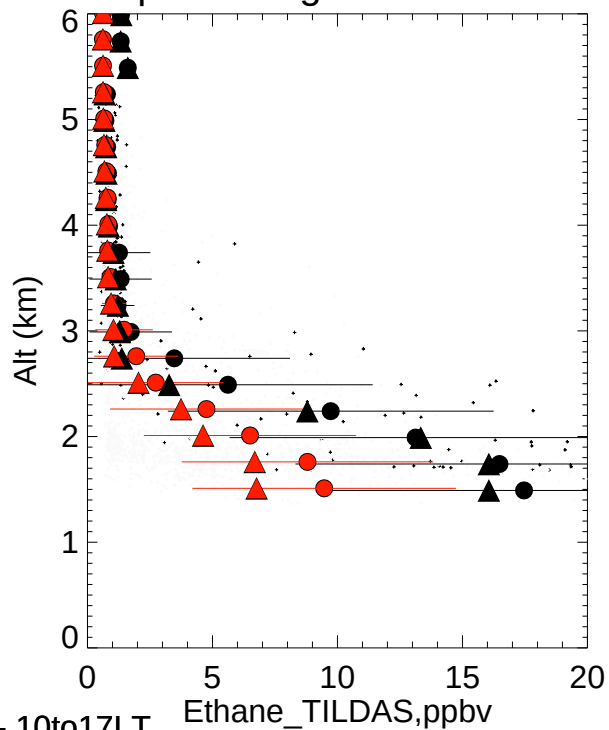
p3b All flight



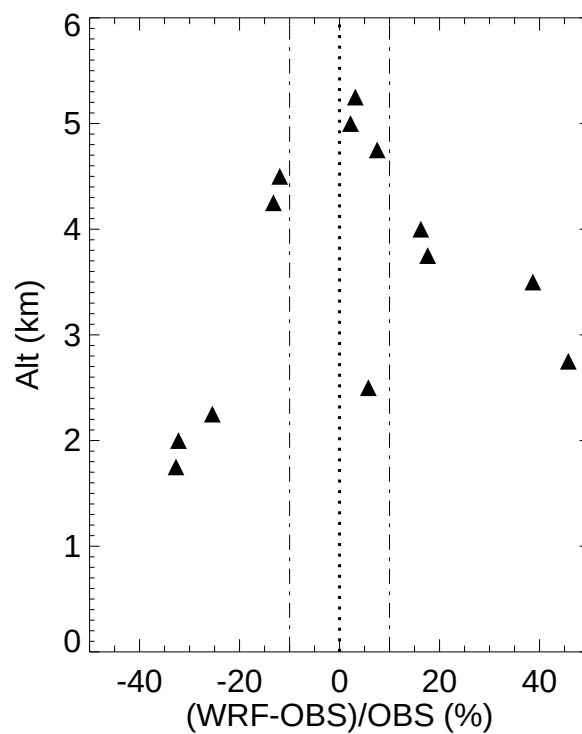
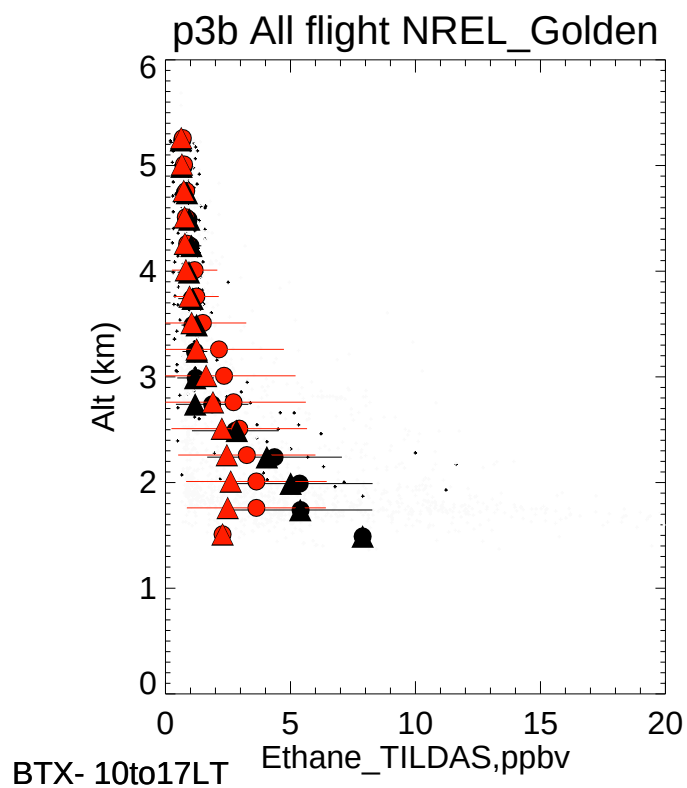
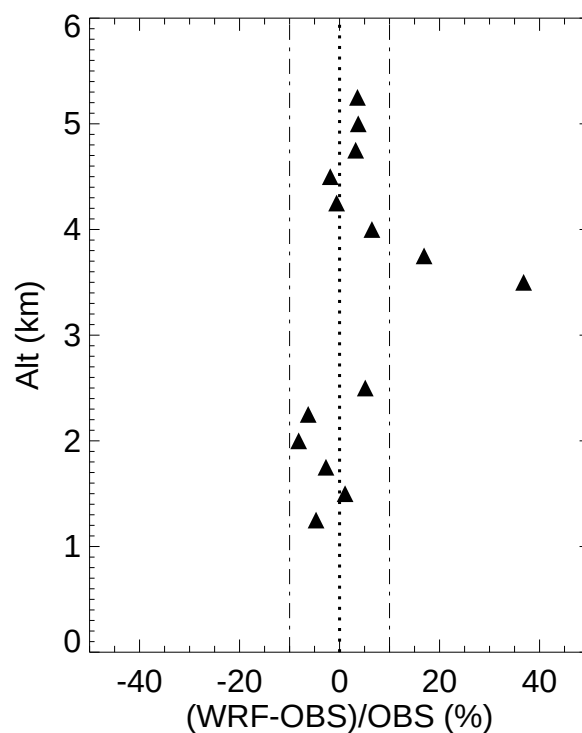
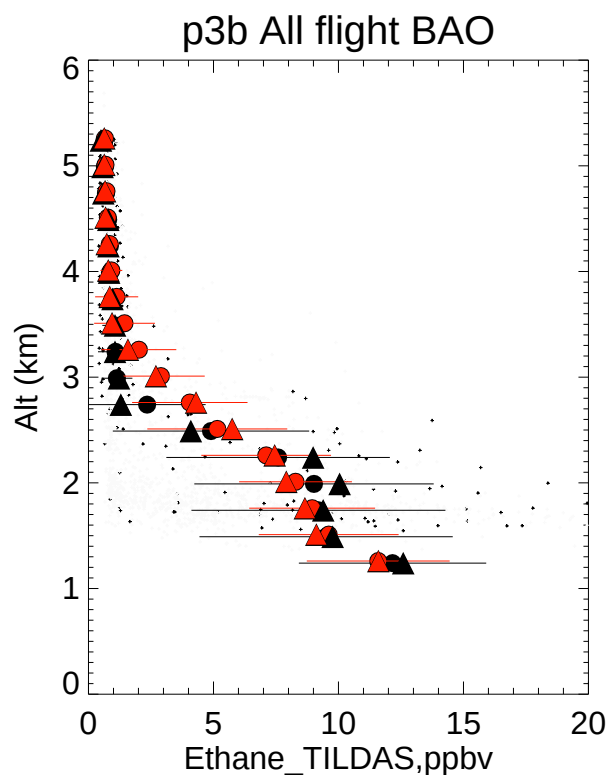
p3b All flight FortCollins



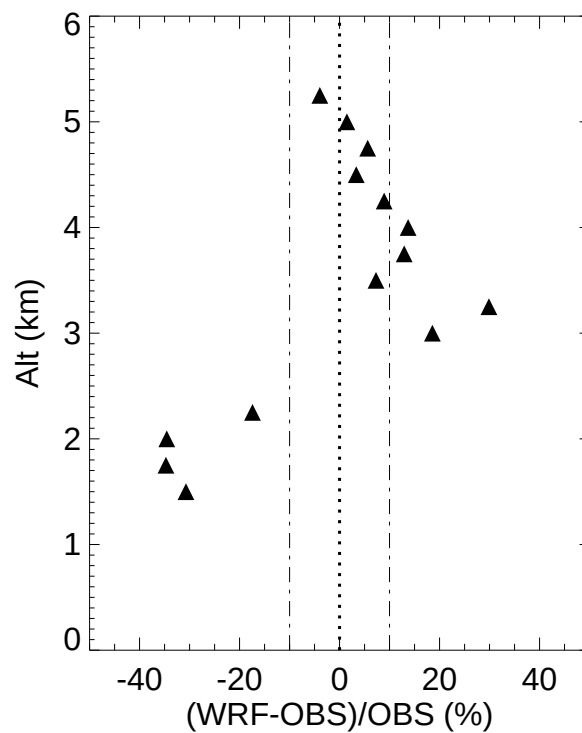
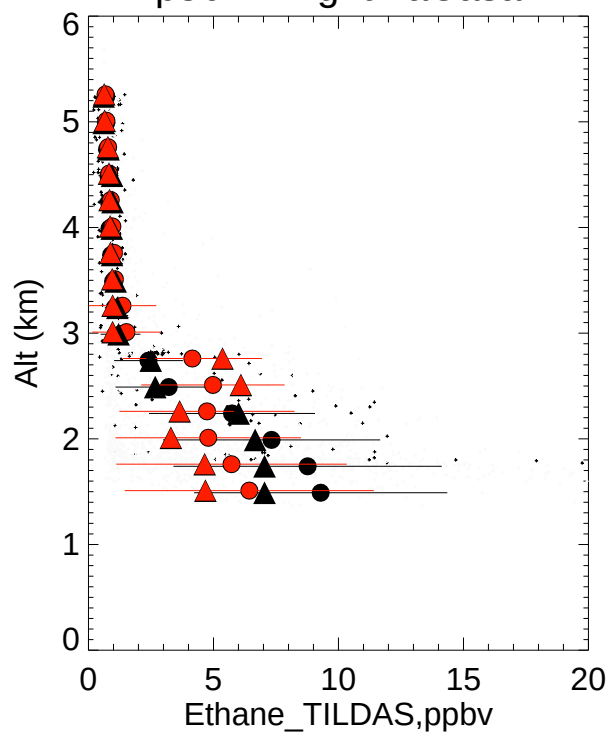
p3b All flight Platteville



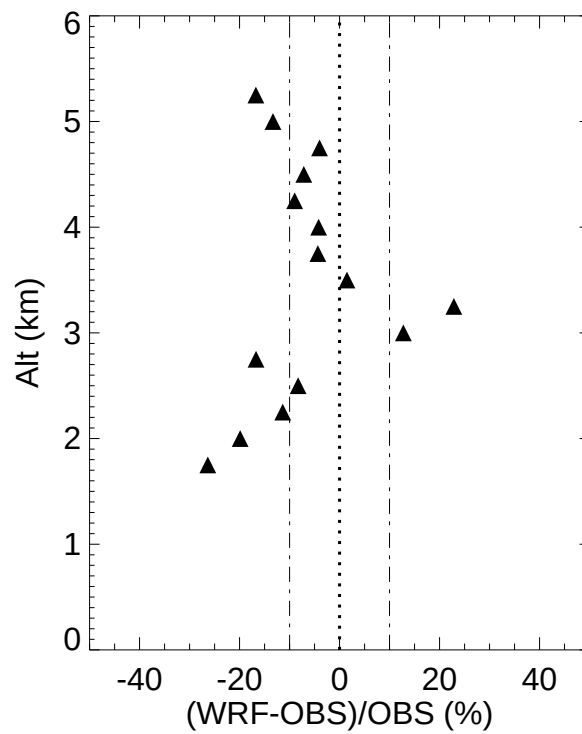
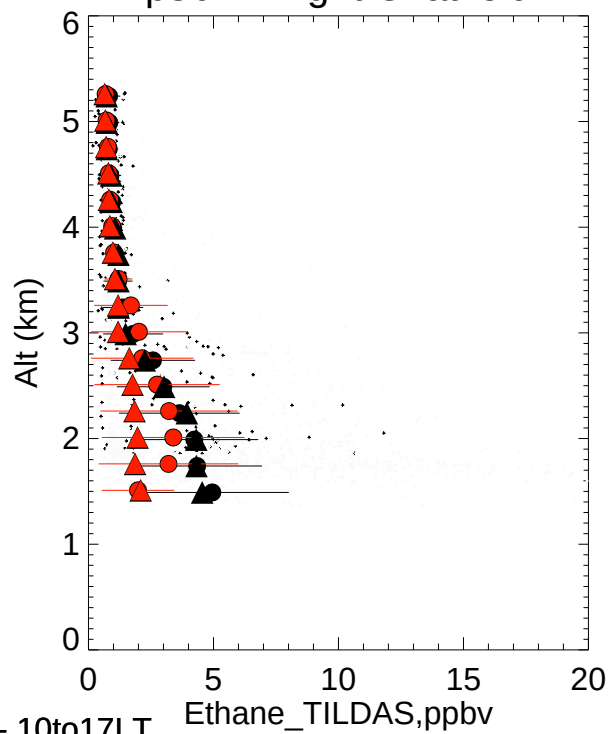
BTX- 10to17LT



p3b All flight LaCasa

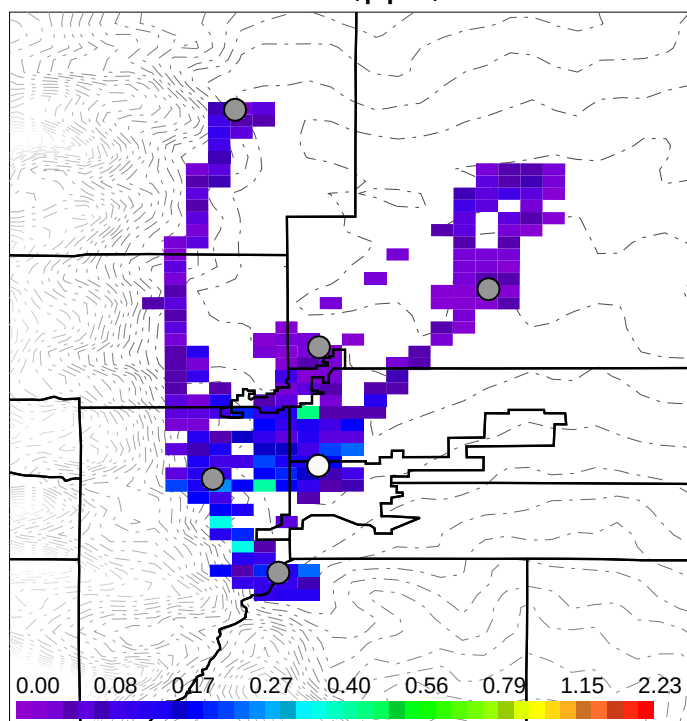
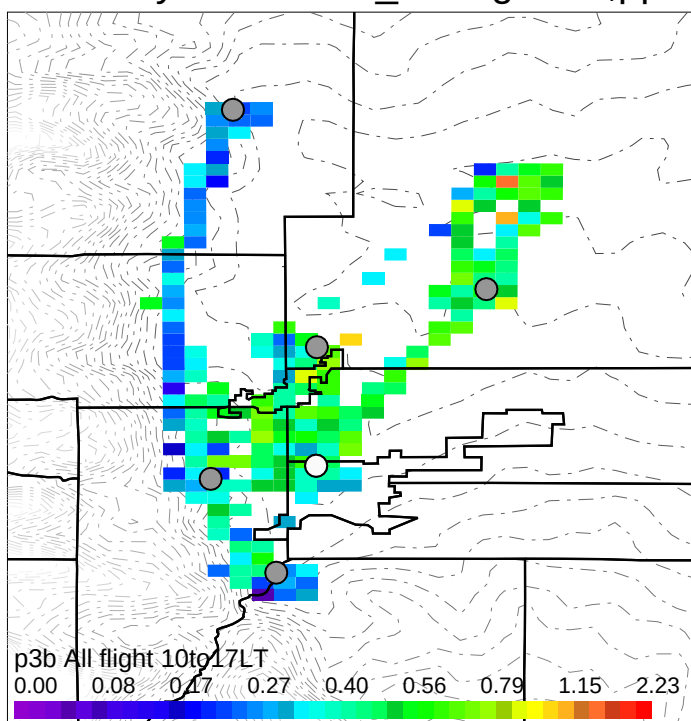


p3b All flight Chatfield

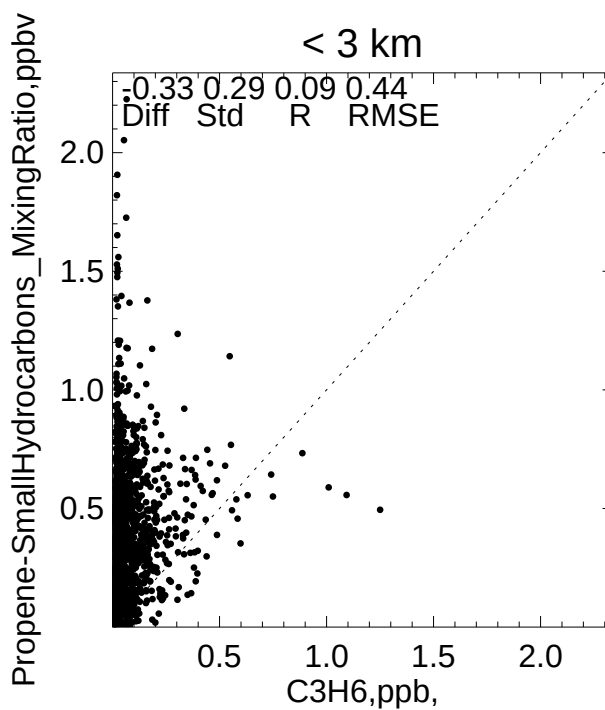
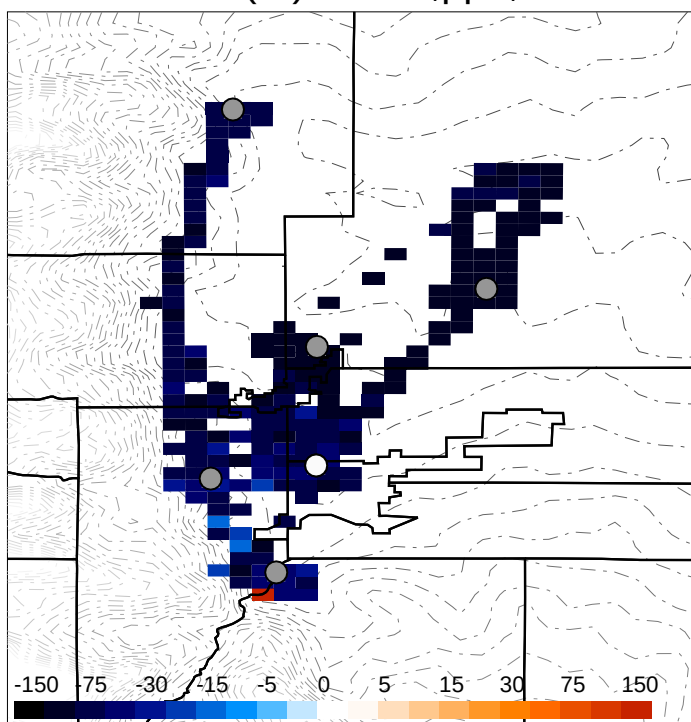


BTX- 10to17LT

Propene-SmallHydrocarbons_MixingRatio,ppbv < 3 km Model C3H6,ppb, < 3 km

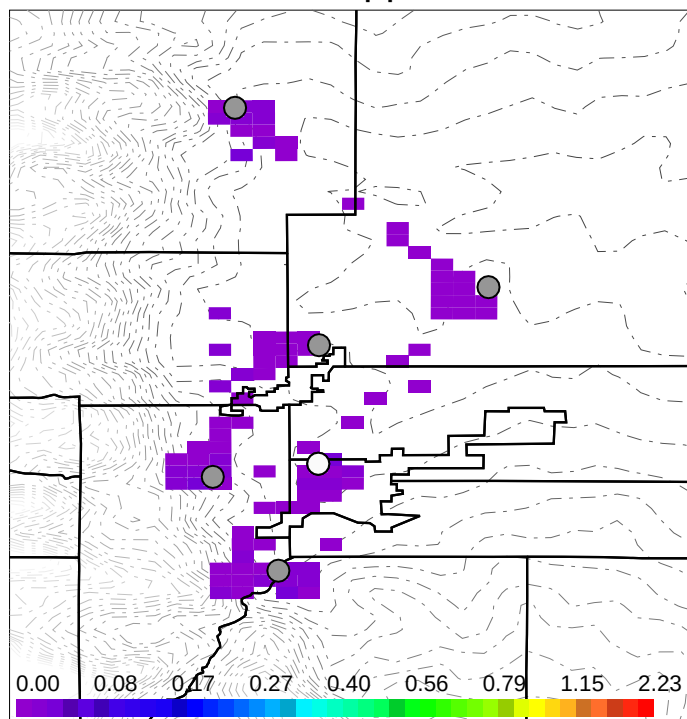
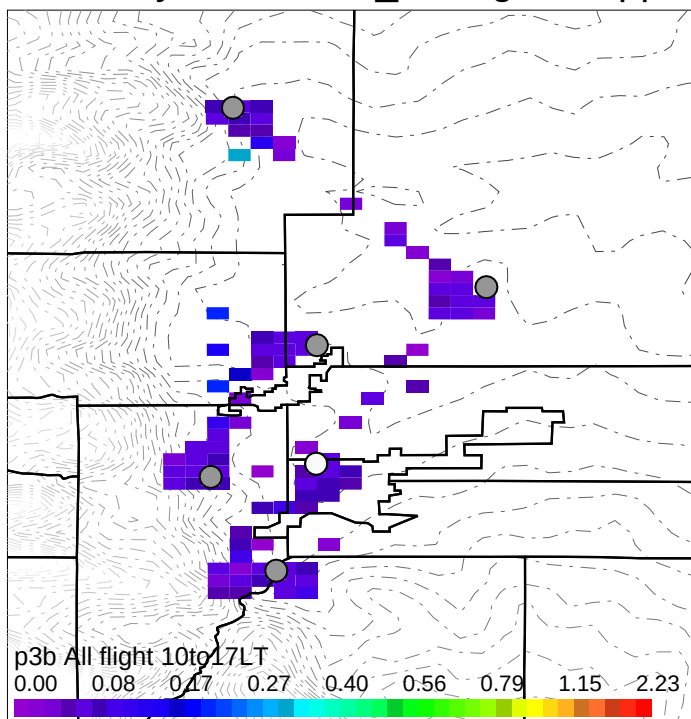


Model-Obs(%) C3H6,ppb, < 3 km

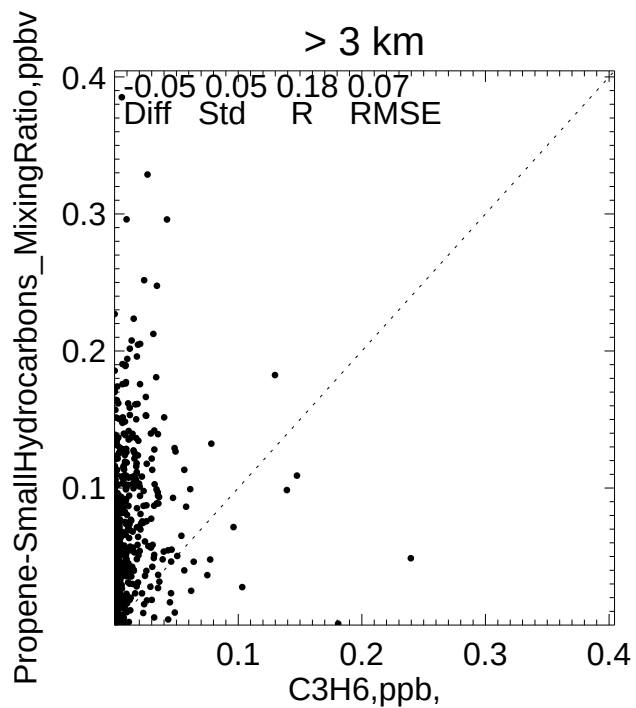
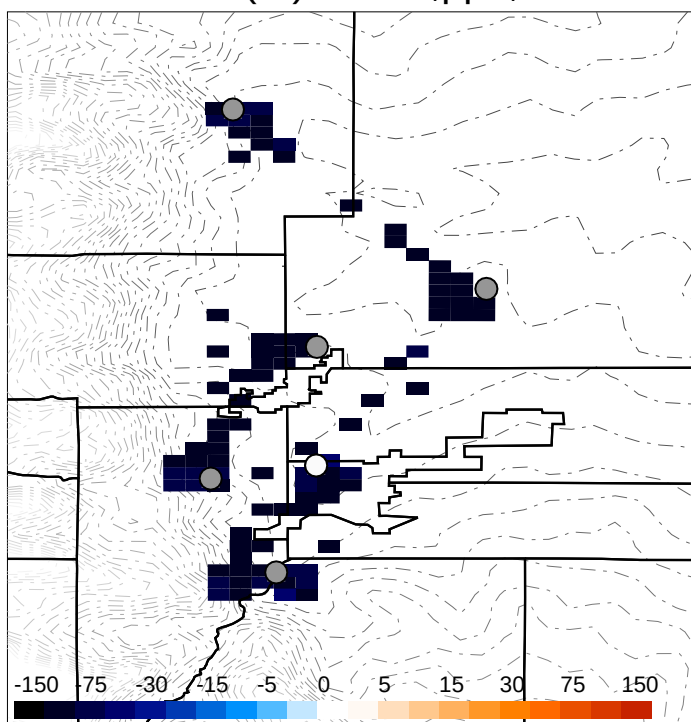


BTX- 10to17LT

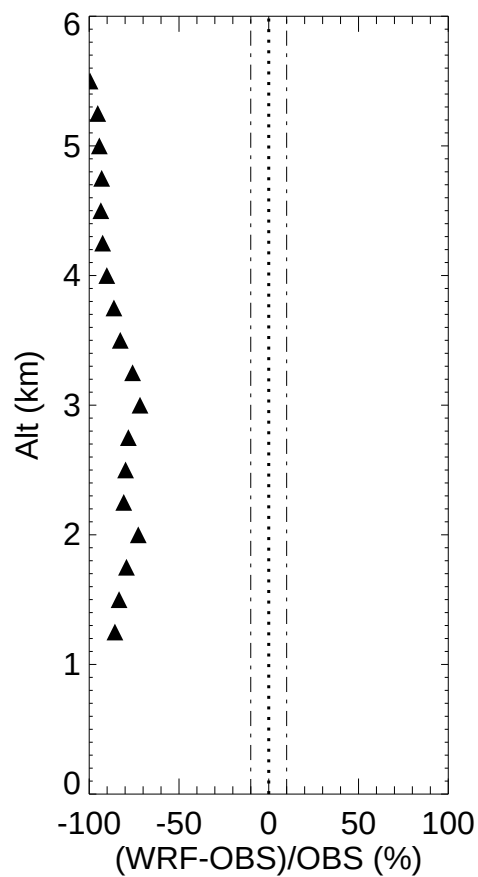
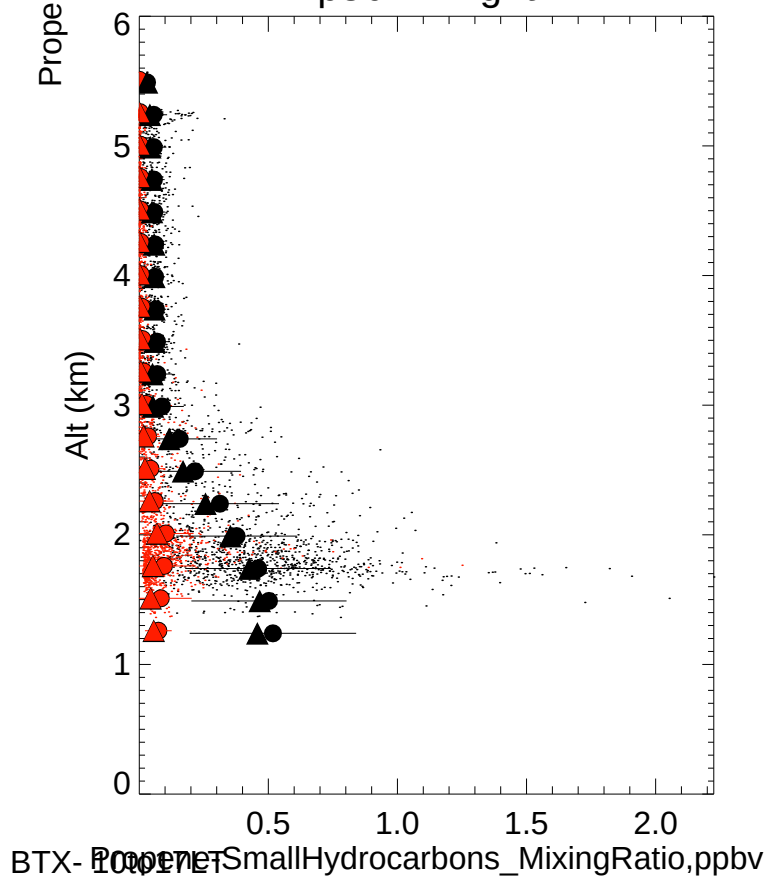
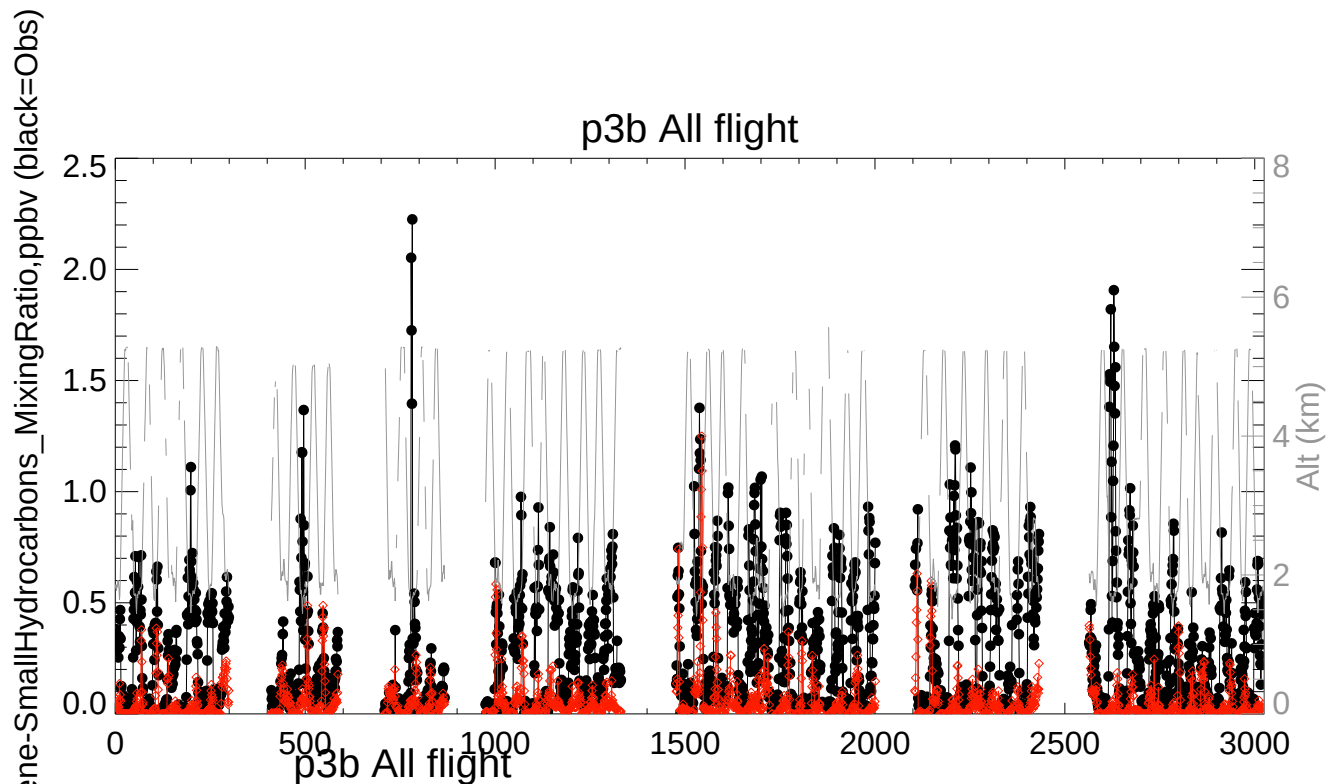
Propene-SmallHydrocarbons_MixingRatio,ppbv > 3 km Model C3H6,ppb, > 3 km



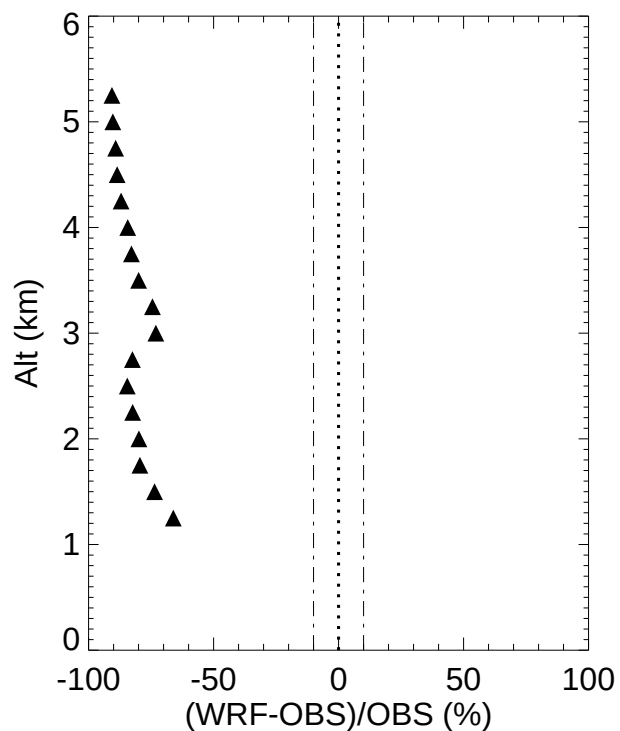
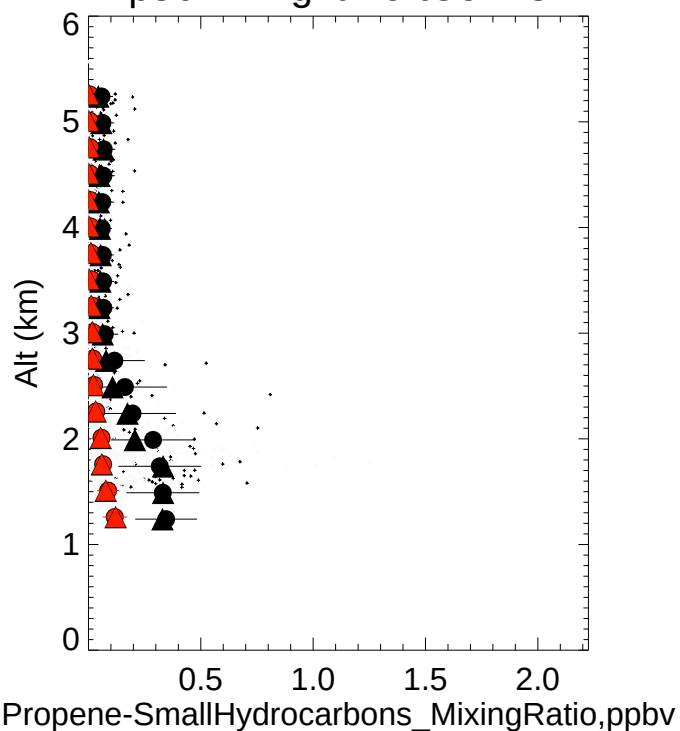
Model-Obs(%) C3H6,ppb, > 3 km



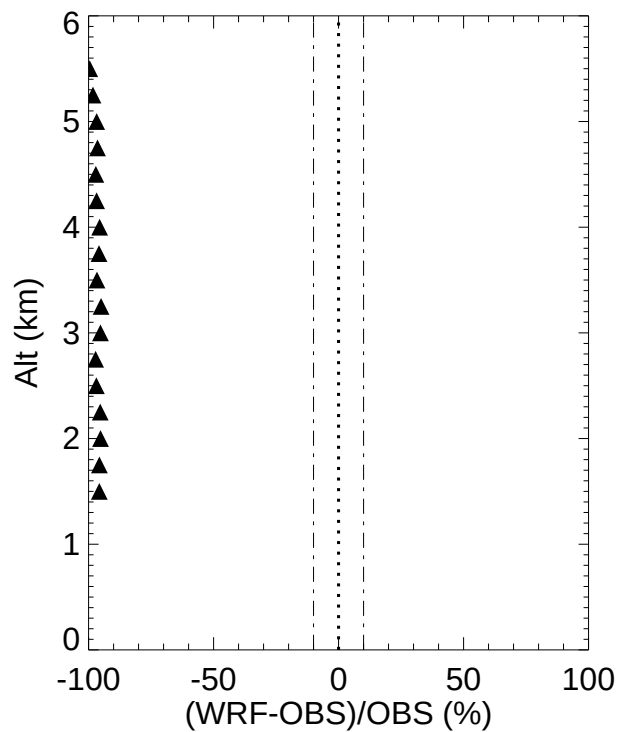
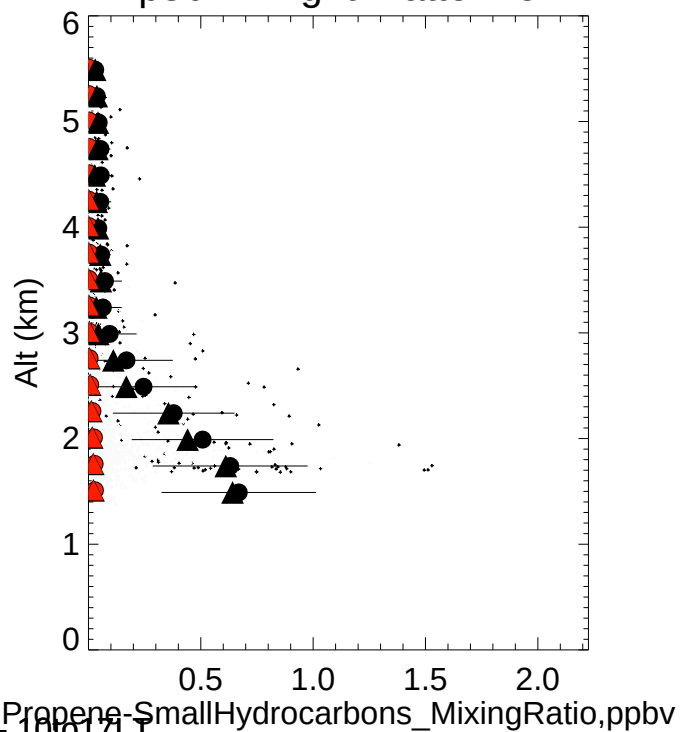
BTX- 10to17LT



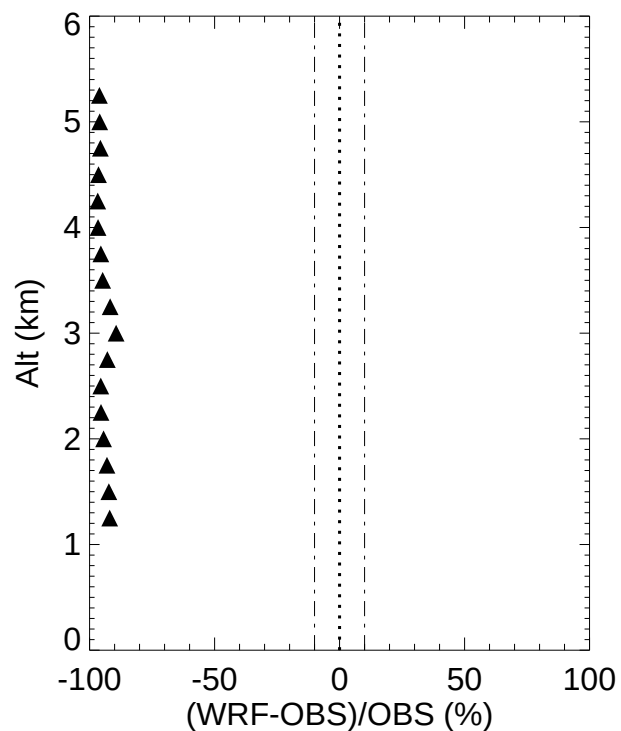
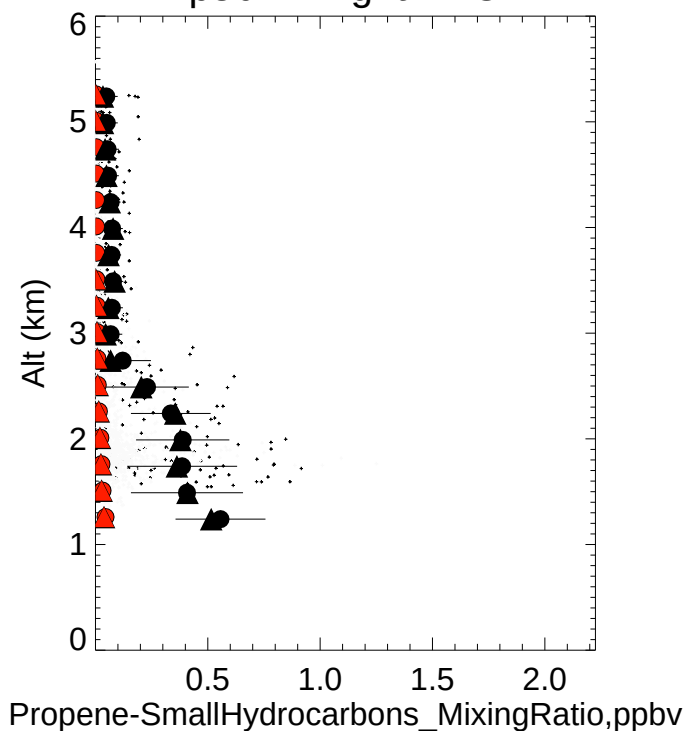
p3b All flight FortCollins



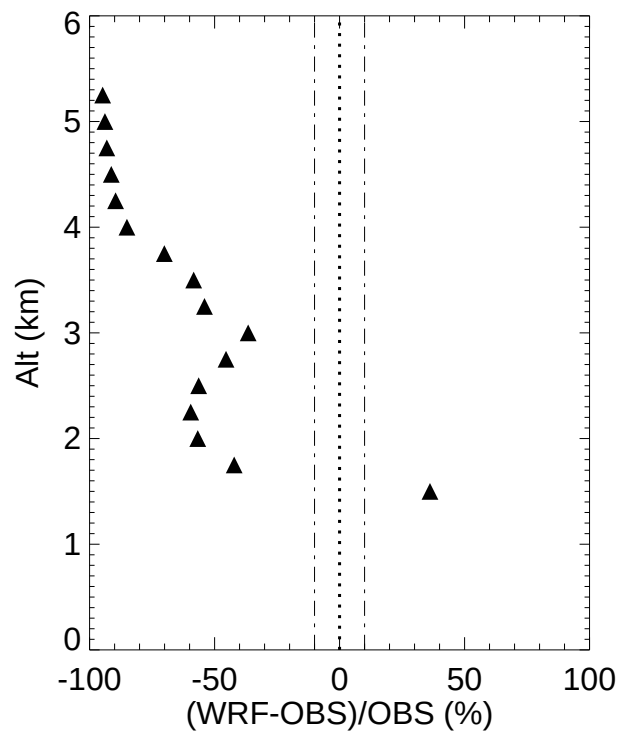
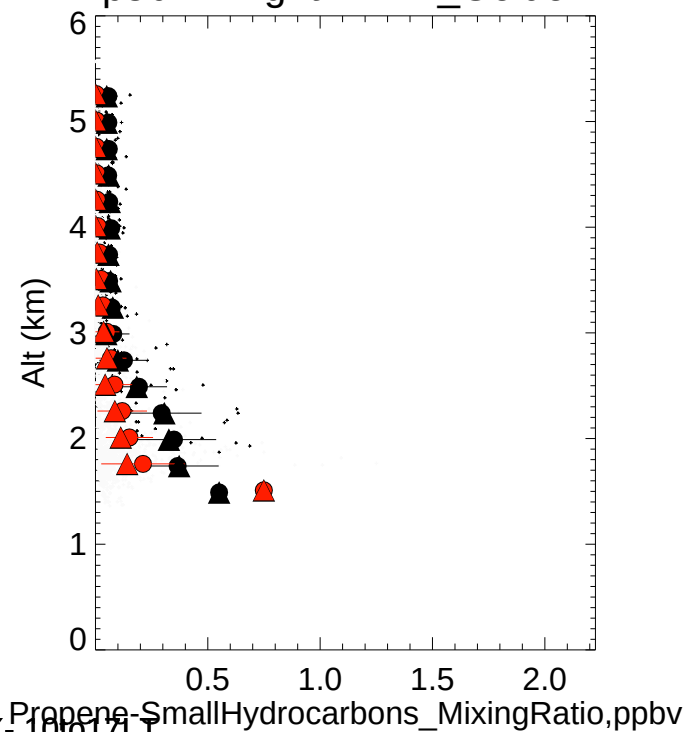
p3b All flight Platteville



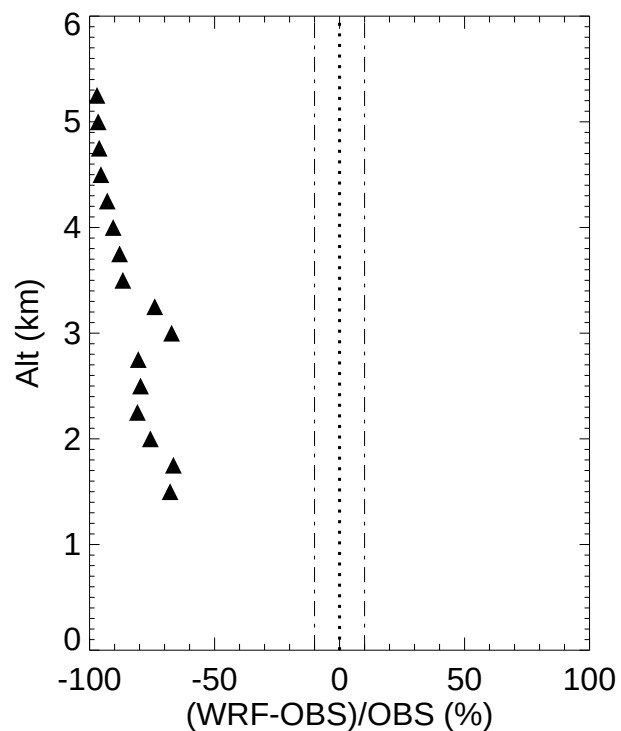
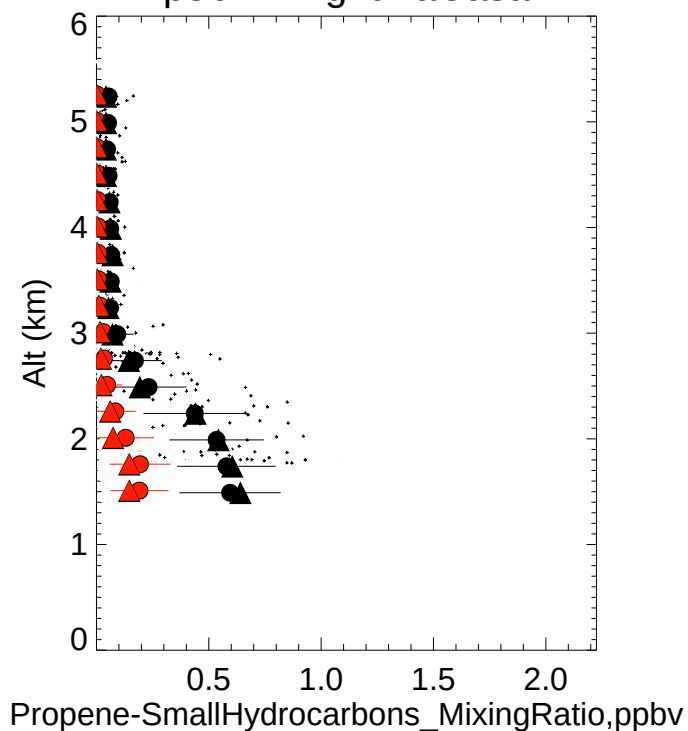
p3b All flight BAO



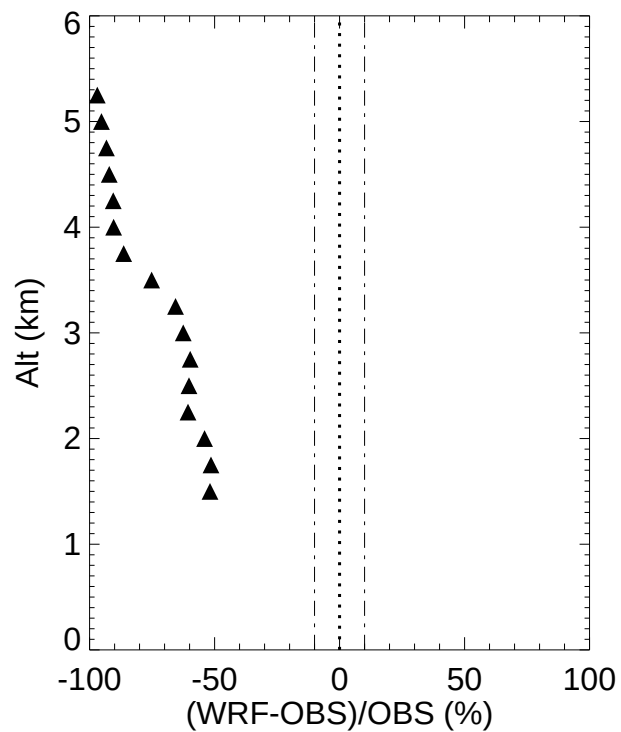
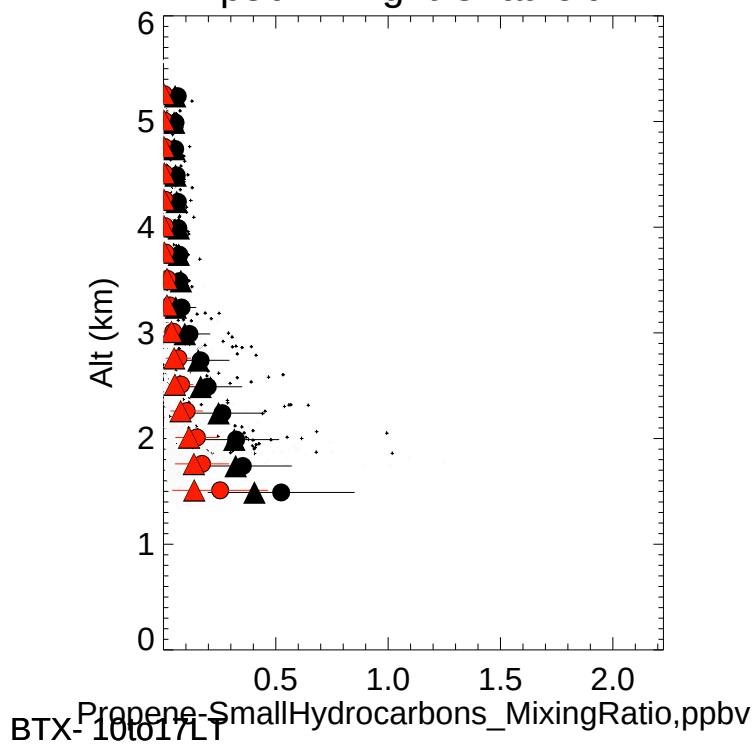
p3b All flight NREL_Golden



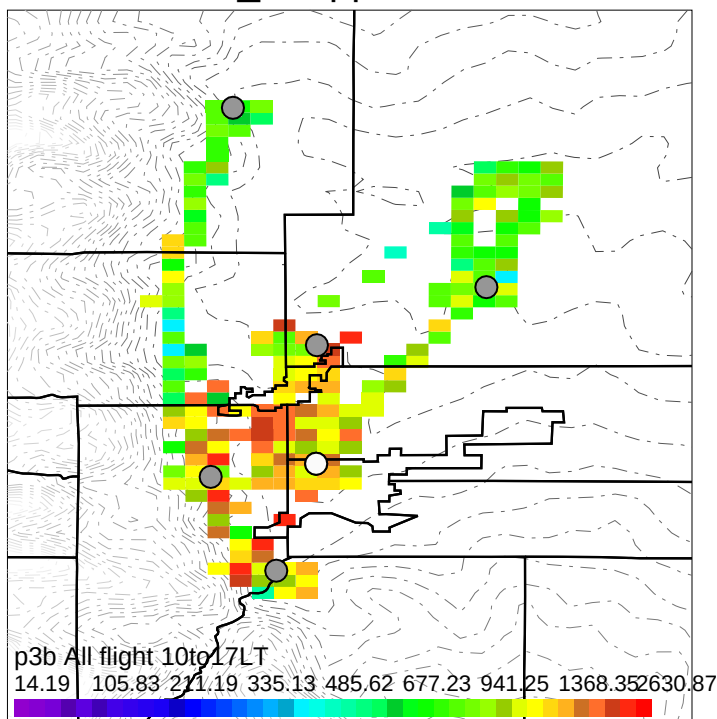
p3b All flight LaCasa



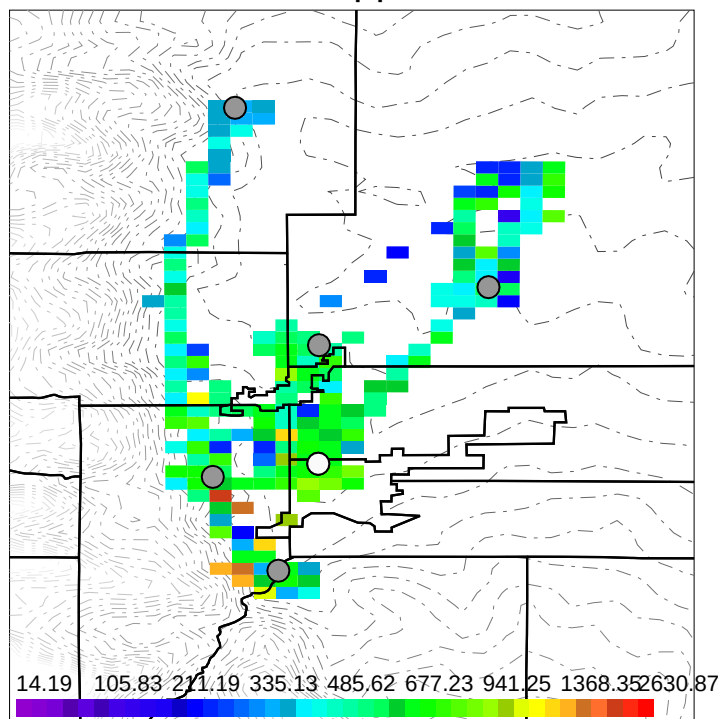
p3b All flight Chatfield



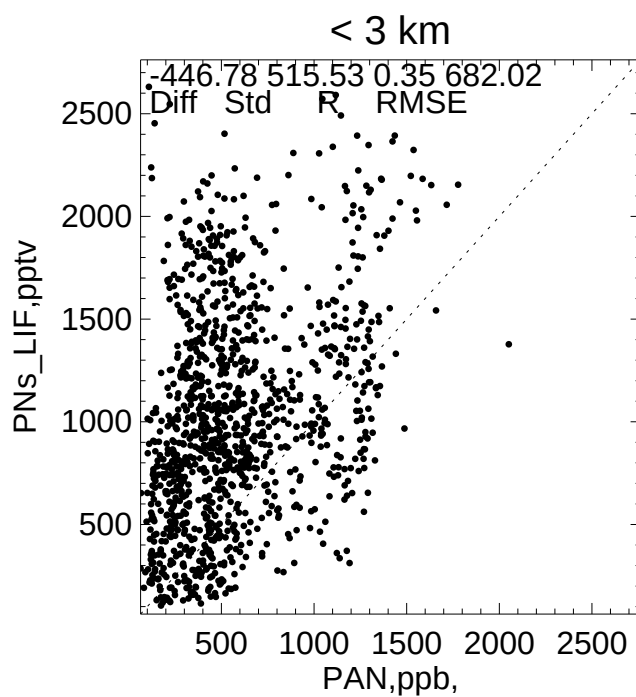
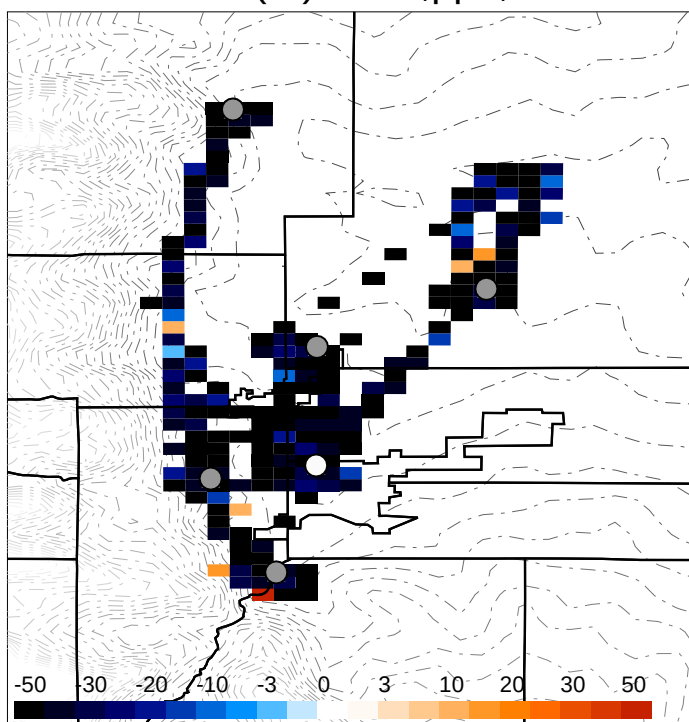
PNs_LIF,pptv < 3 km



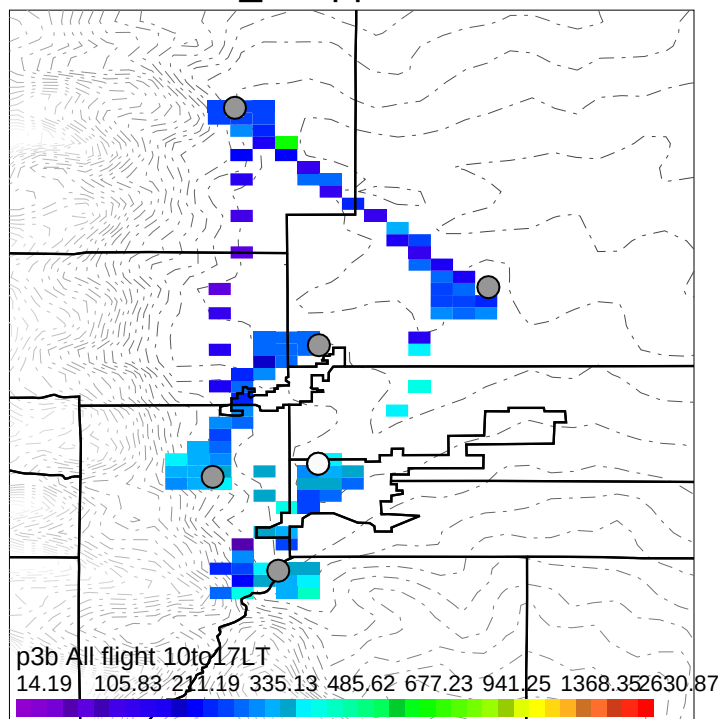
Model PAN,ppb, < 3 km



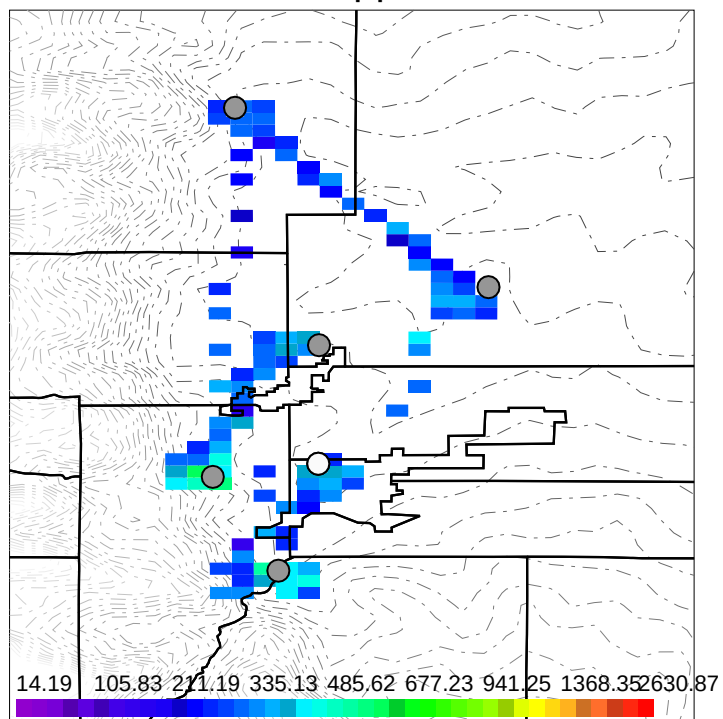
Model-Obs(%) PAN,ppb, < 3 km



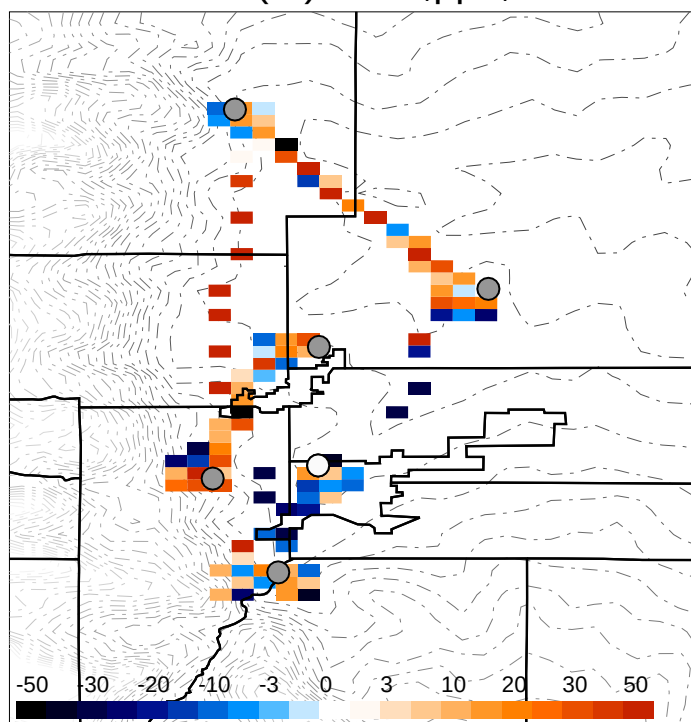
PNs_LIF,pptv > 3 km



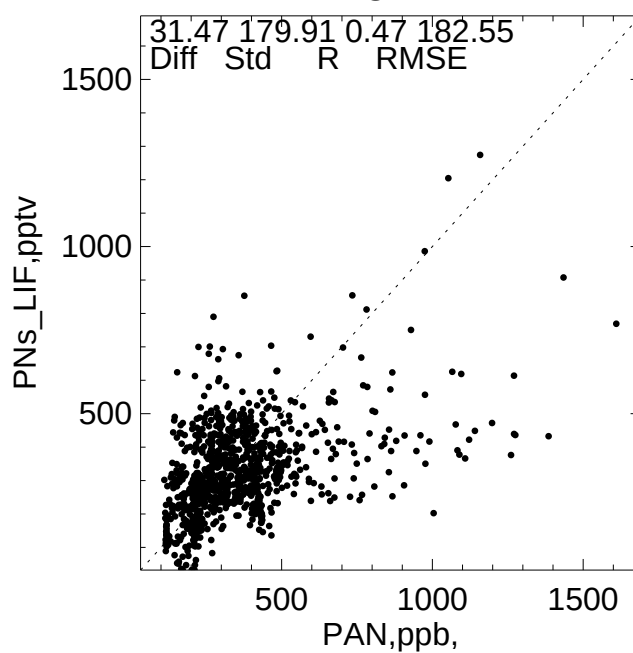
Model PAN,ppb, > 3 km



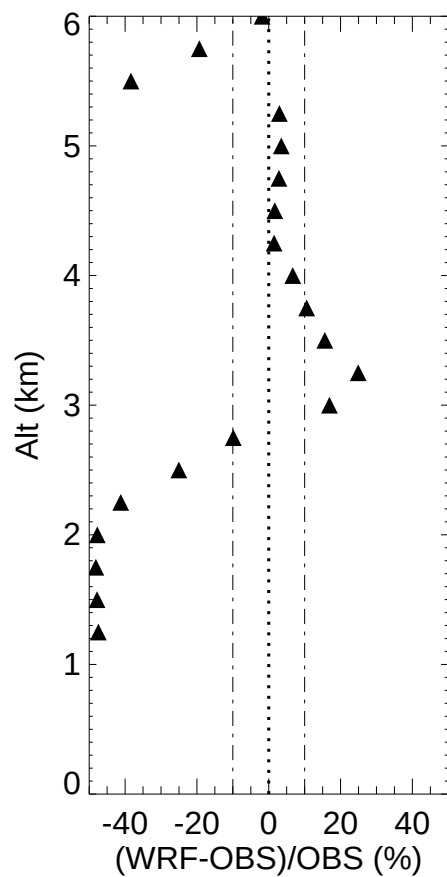
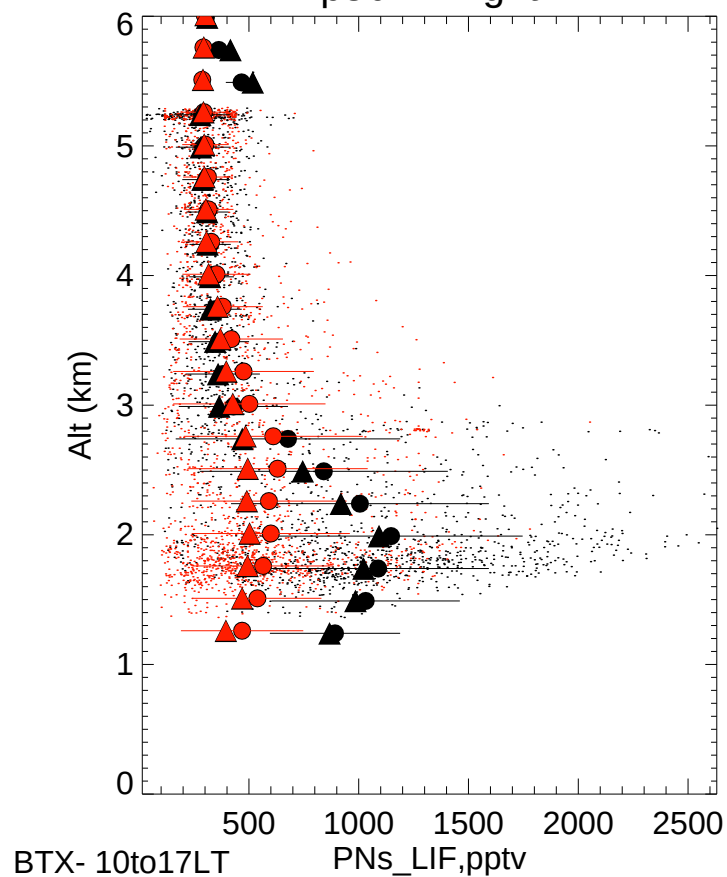
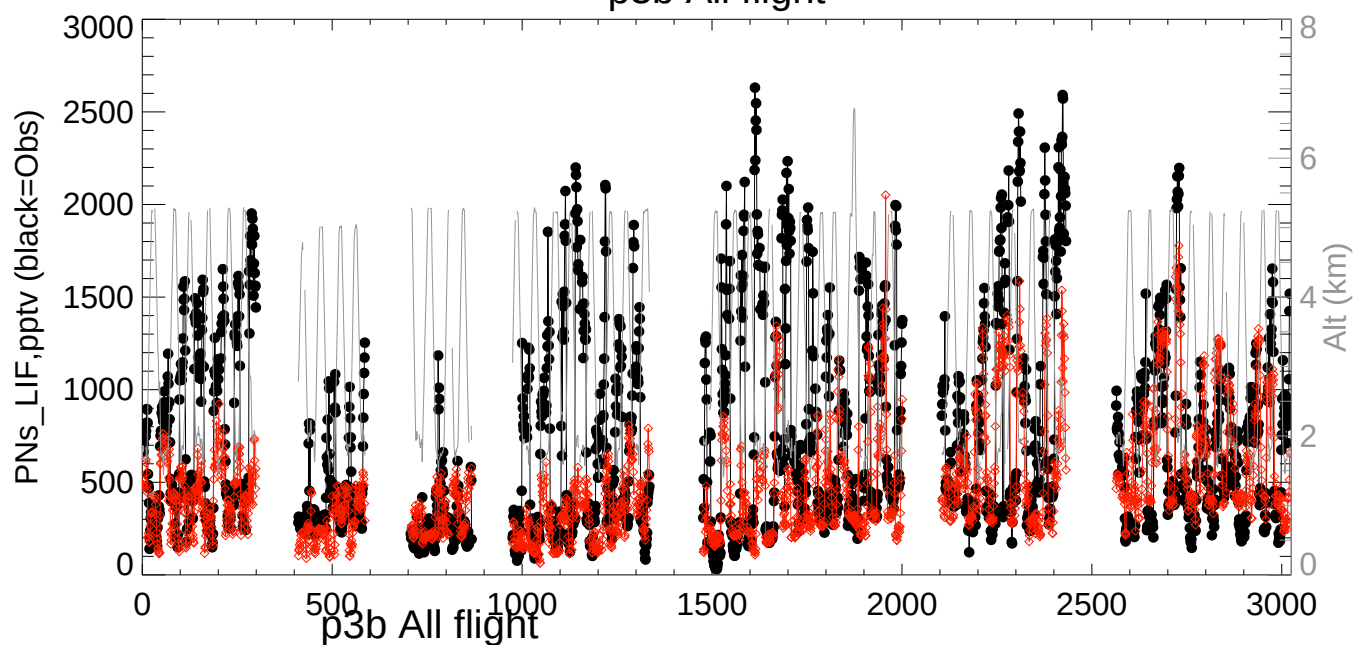
Model-Obs(%) PAN,ppb, > 3 km



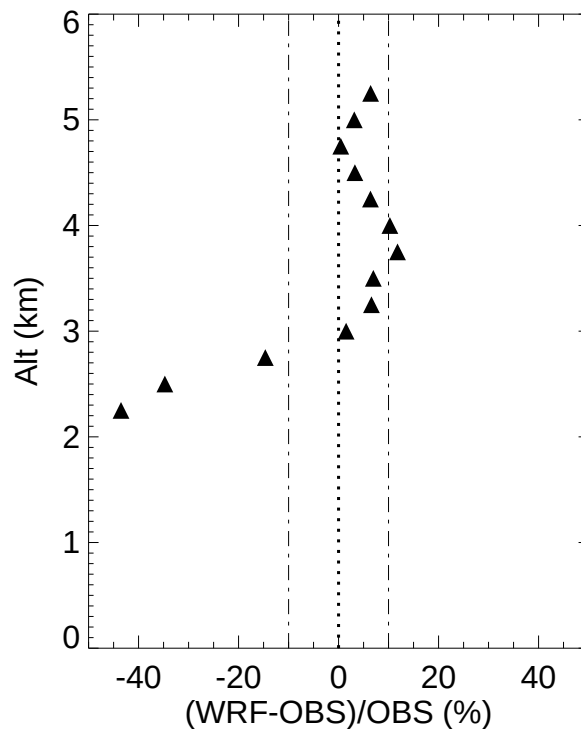
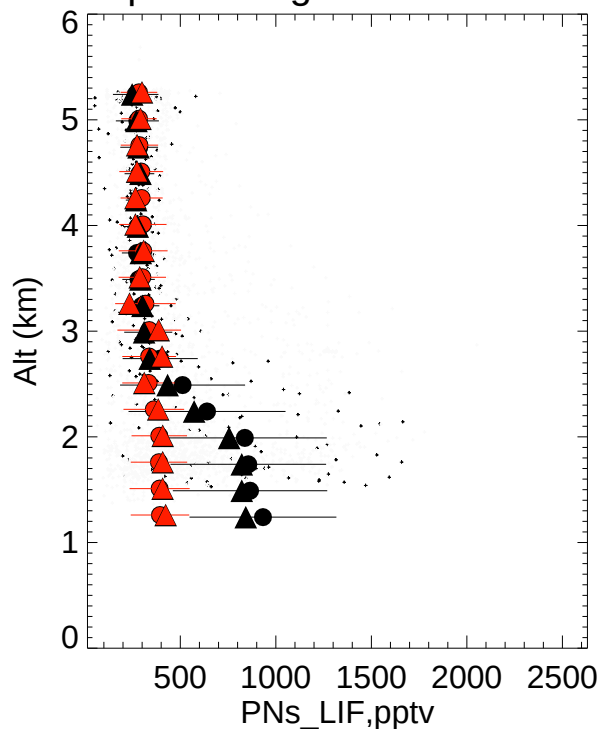
> 3 km



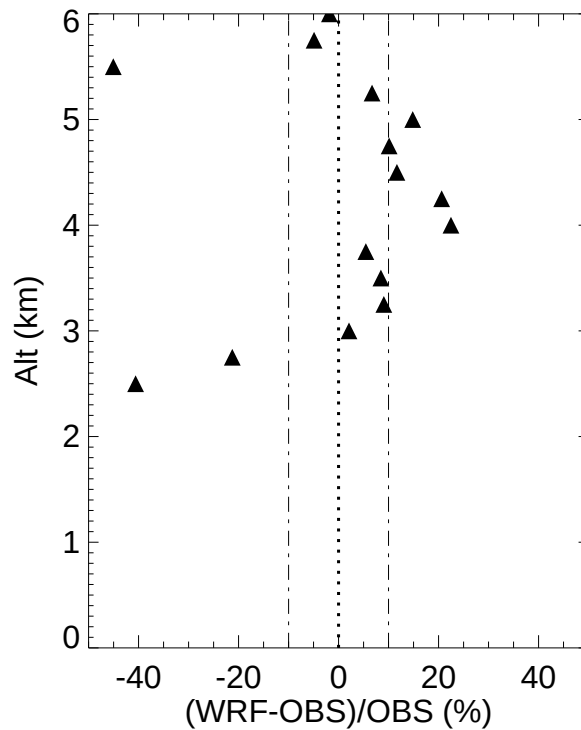
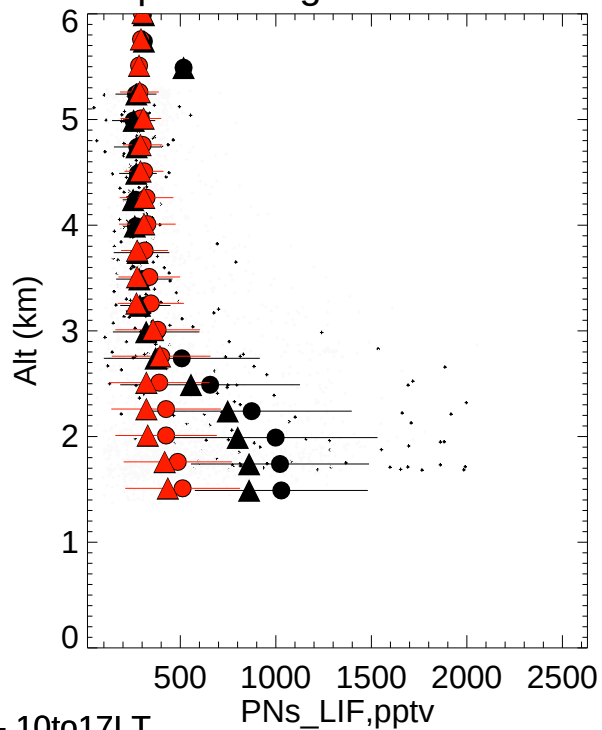
p3b All flight



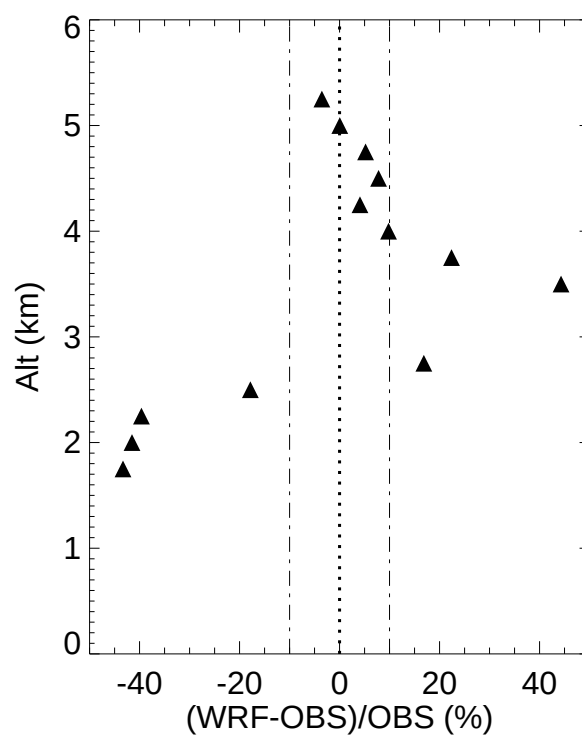
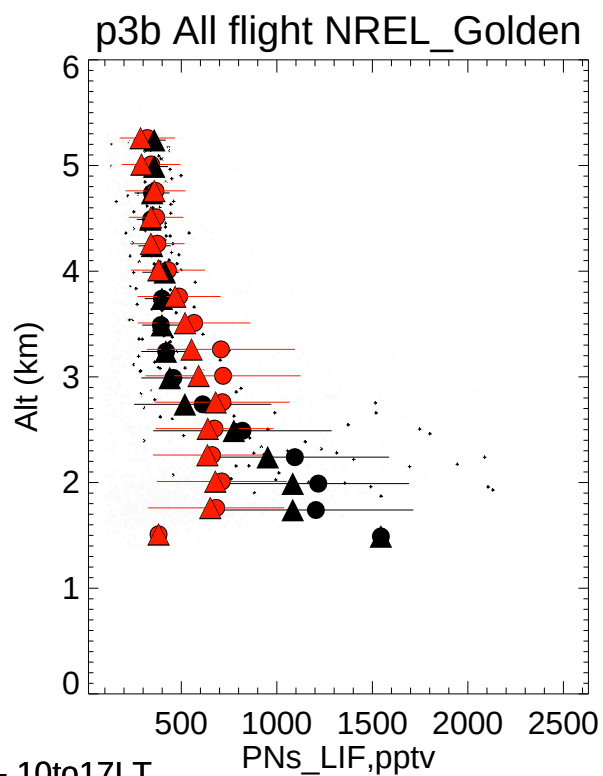
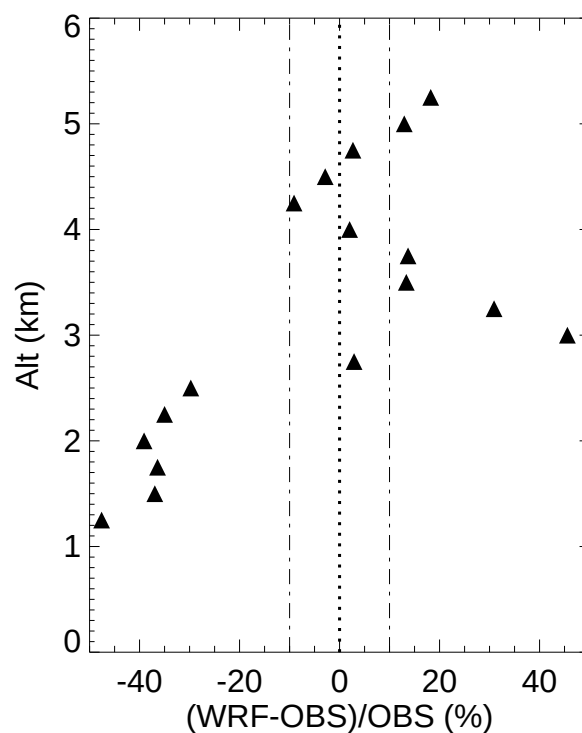
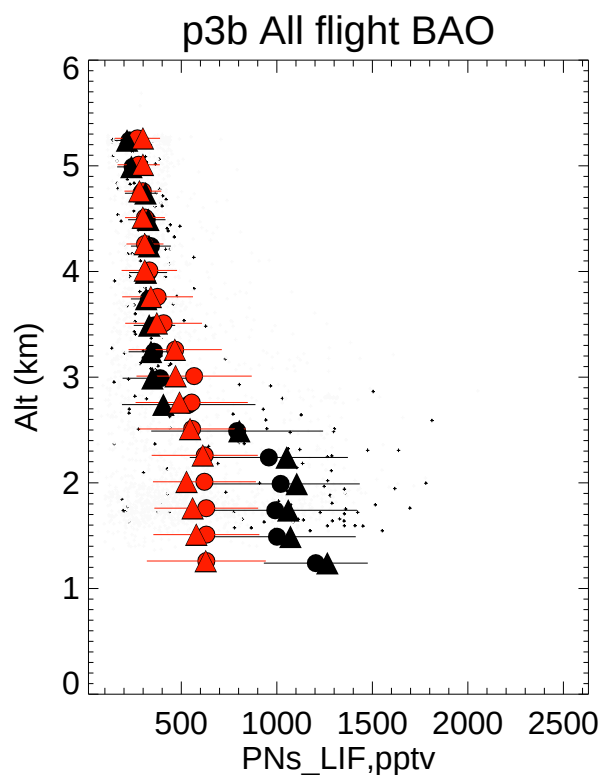
p3b All flight FortCollins



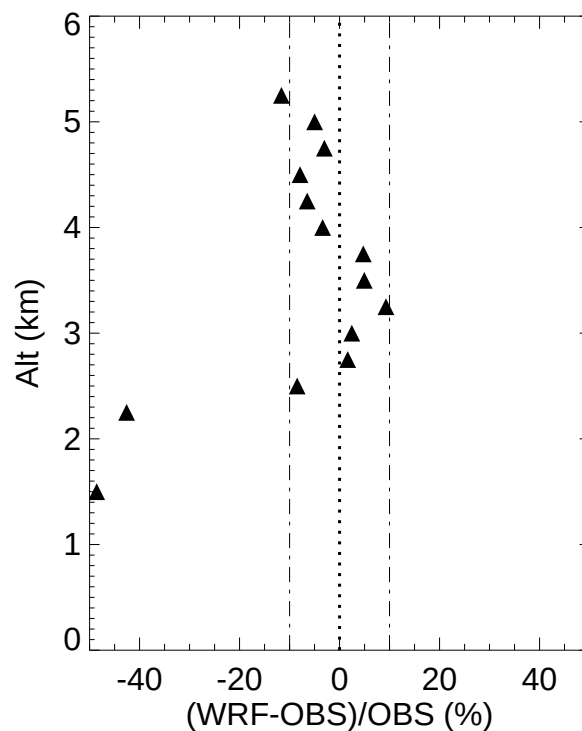
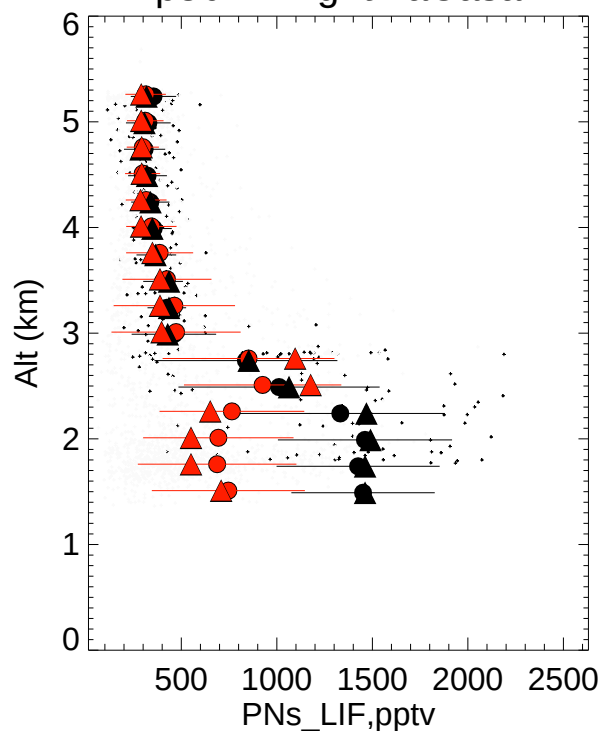
p3b All flight Platteville



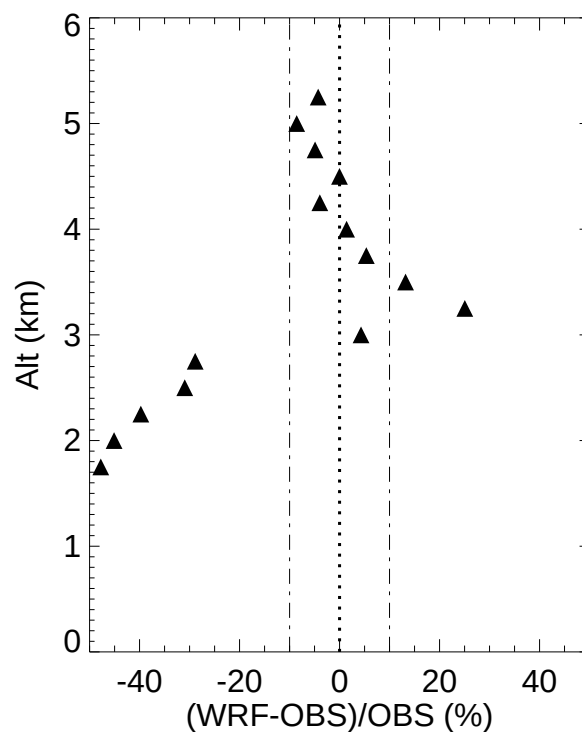
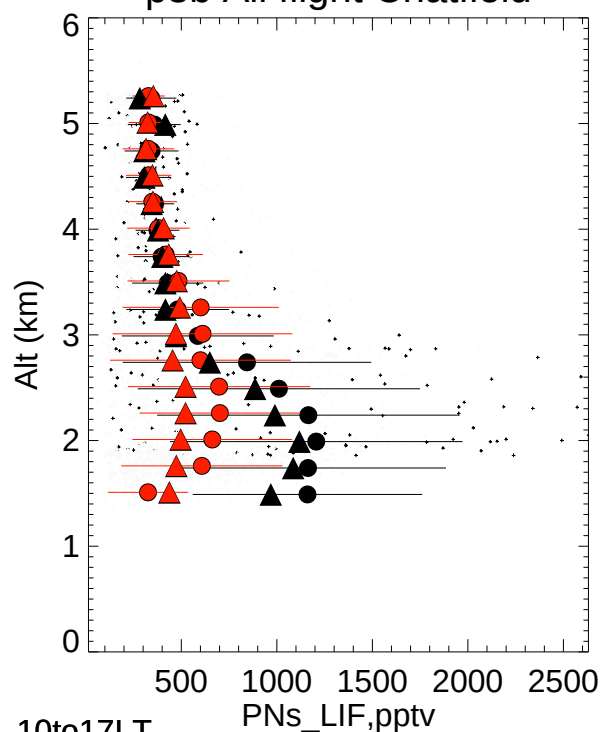
BTX- 10to17LT



p3b All flight LaCasa

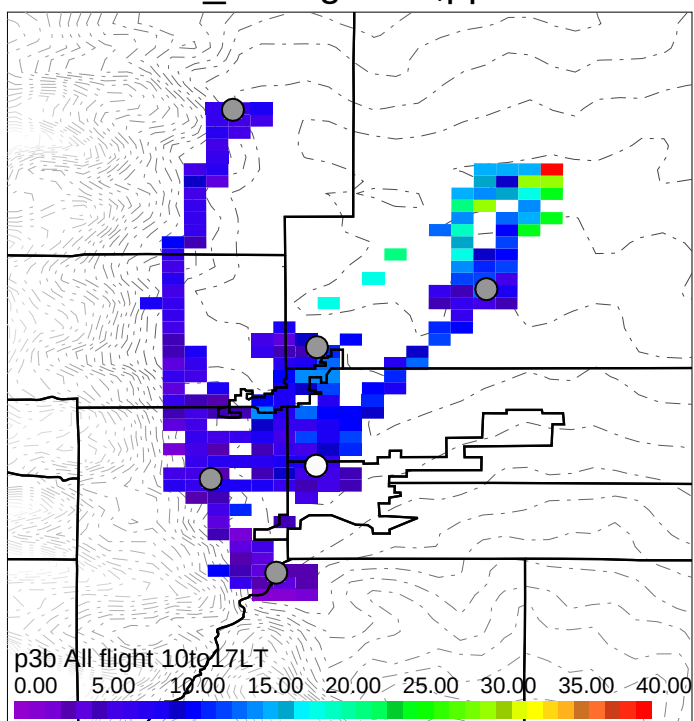


p3b All flight Chatfield

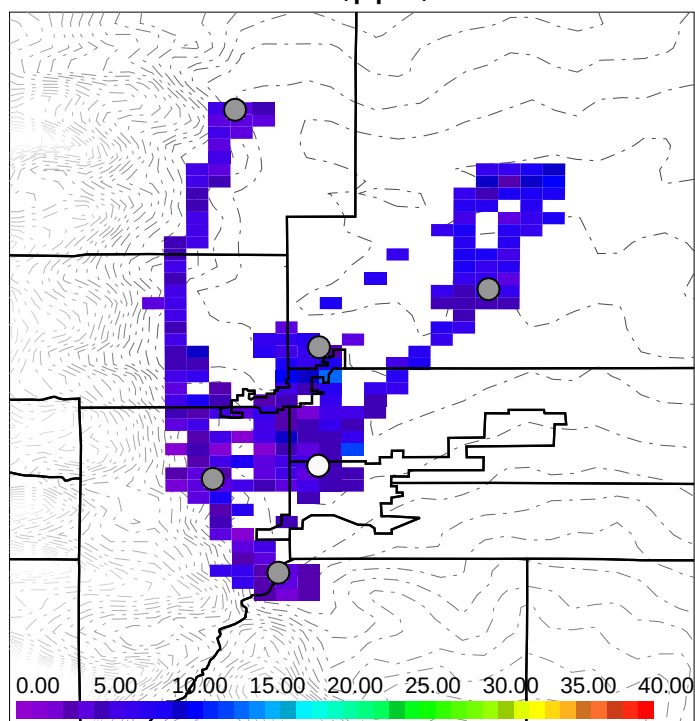


BTX- 10to17LT

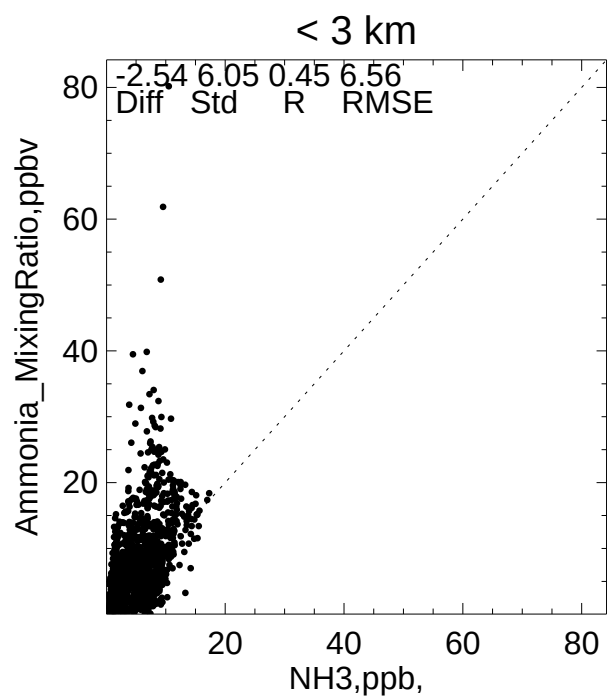
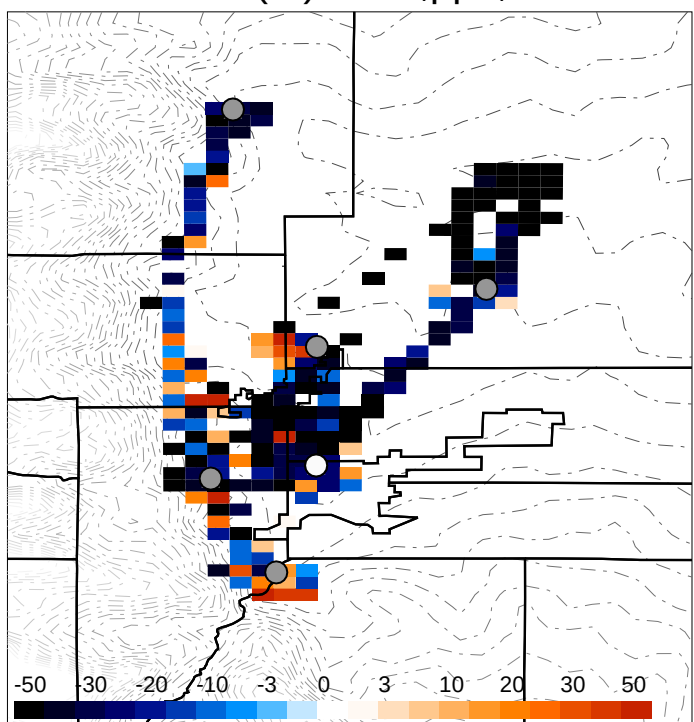
Ammonia_MixingRatio,ppbv < 3 km



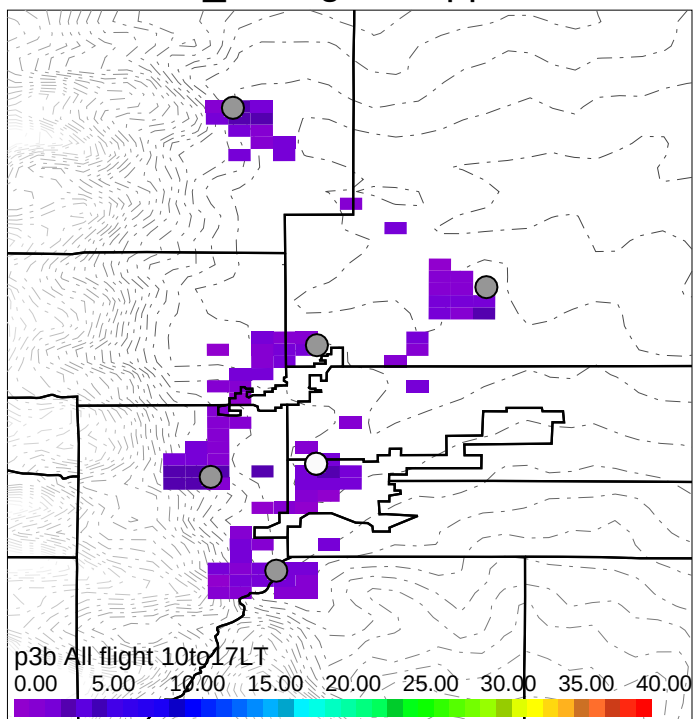
Model NH3,ppb, < 3 km



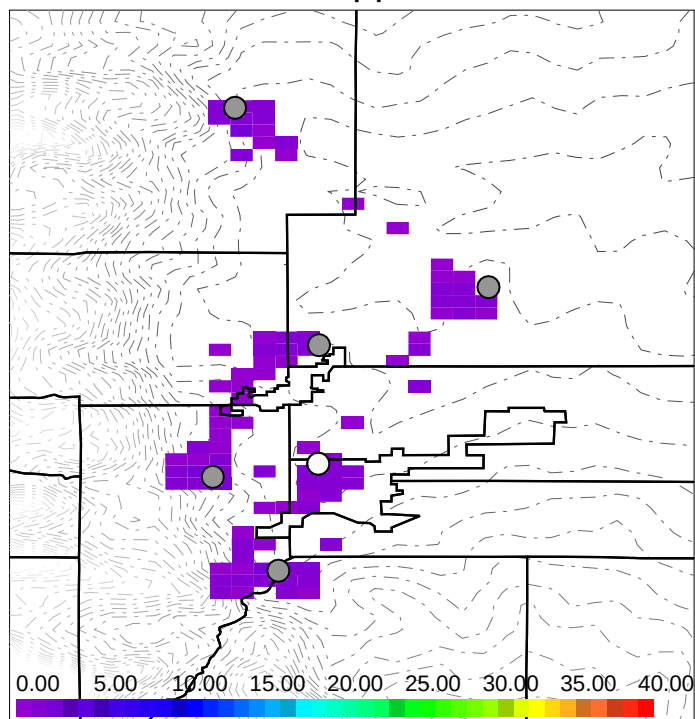
Model-Obs(%) NH3,ppb, < 3 km



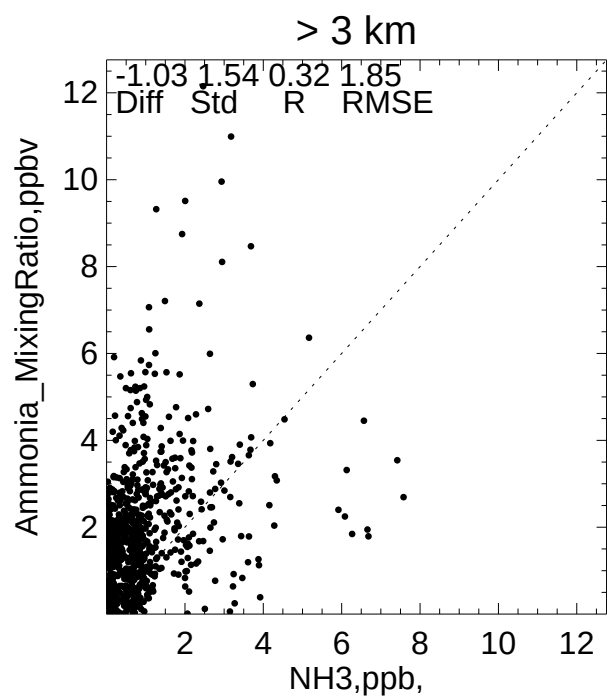
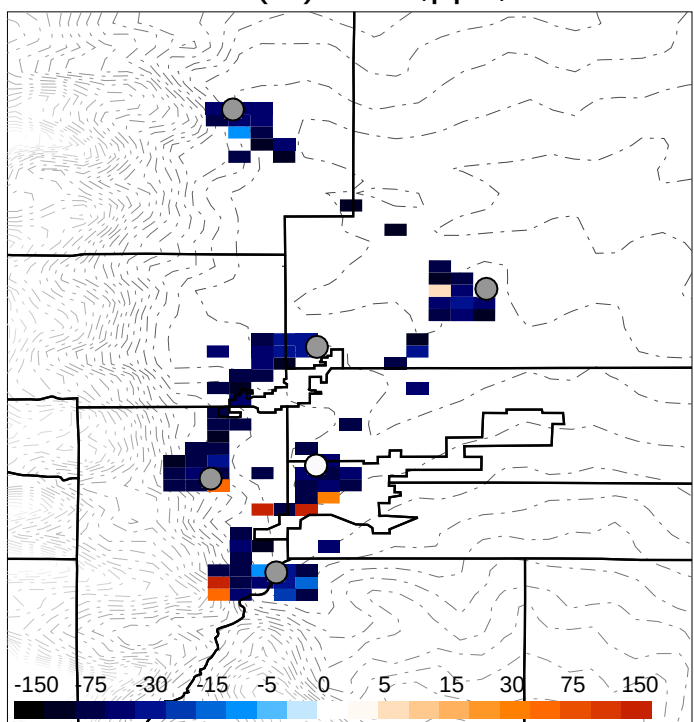
Ammonia_MixingRatio,ppbv > 3 km



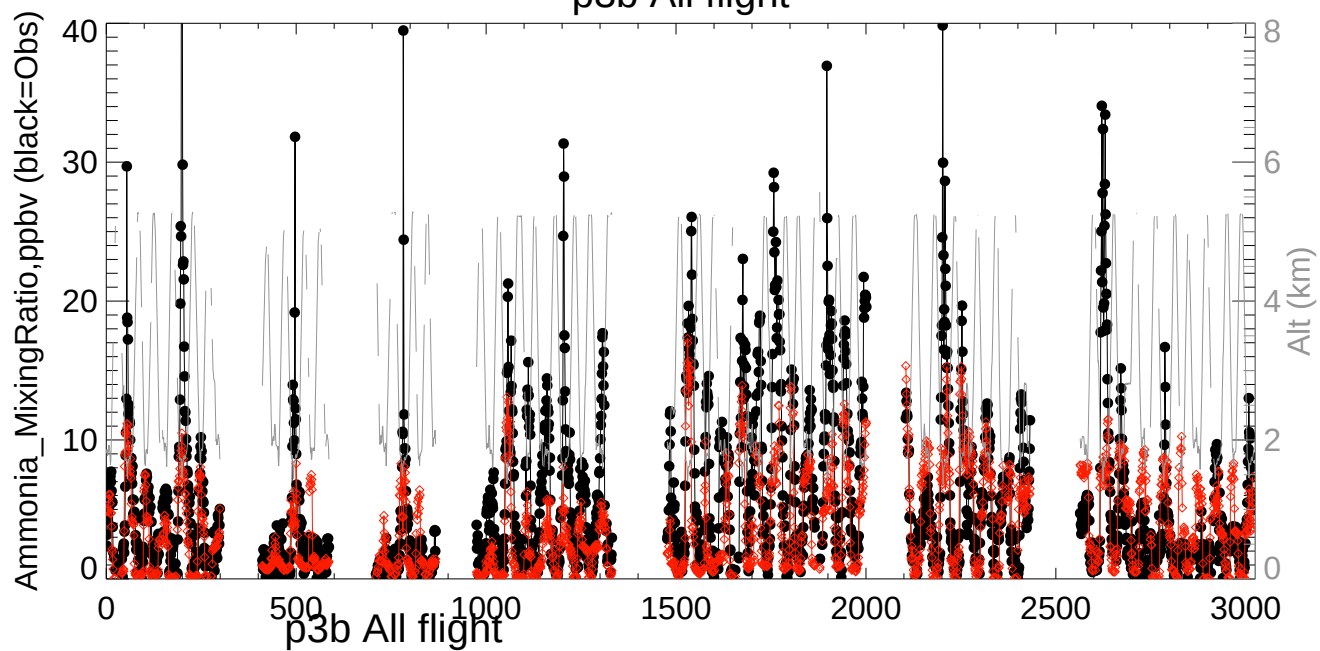
Model NH3,ppb, > 3 km



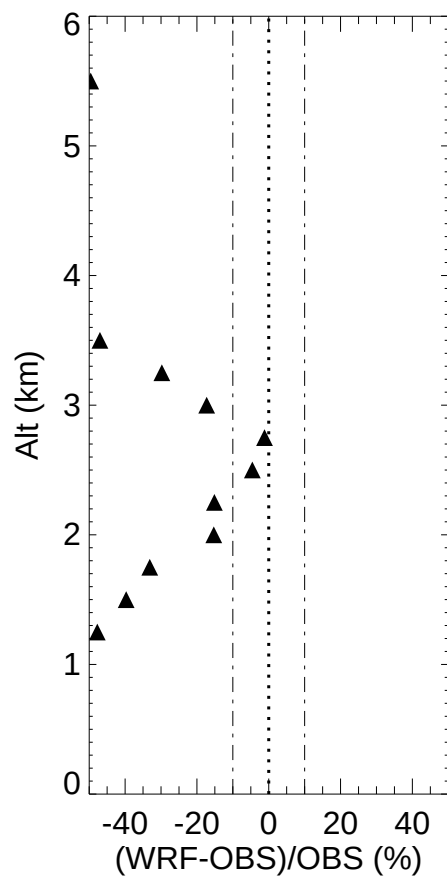
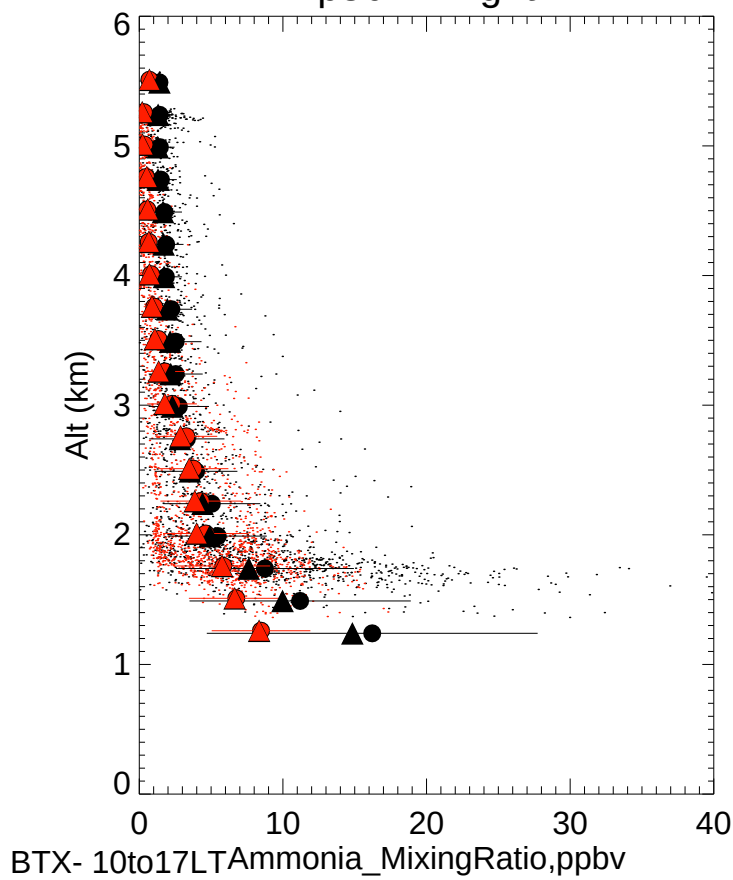
Model-Obs(%) NH3,ppb, > 3 km



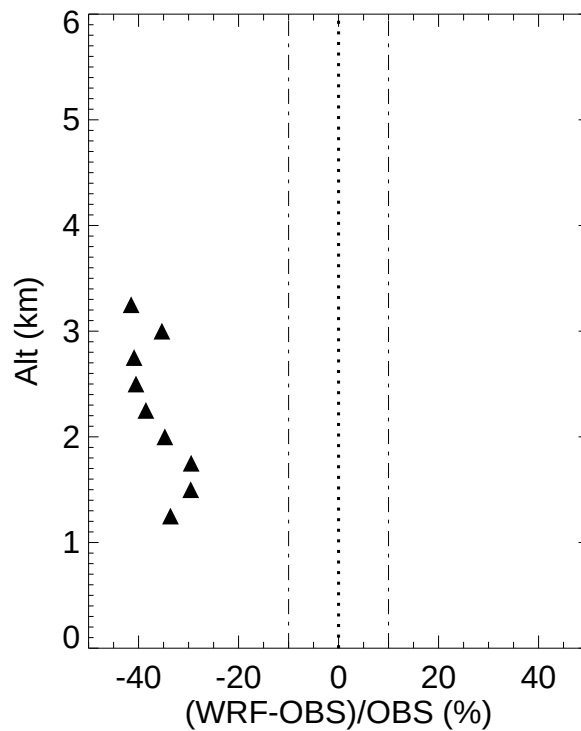
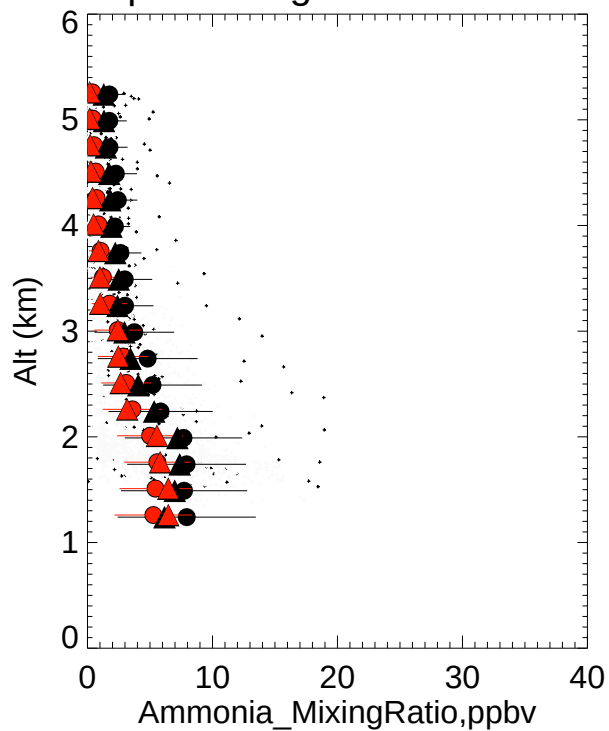
p3b All flight



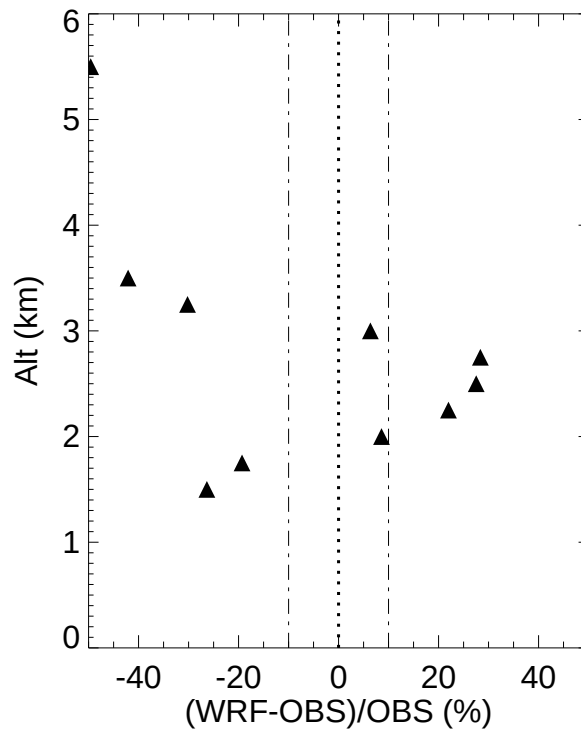
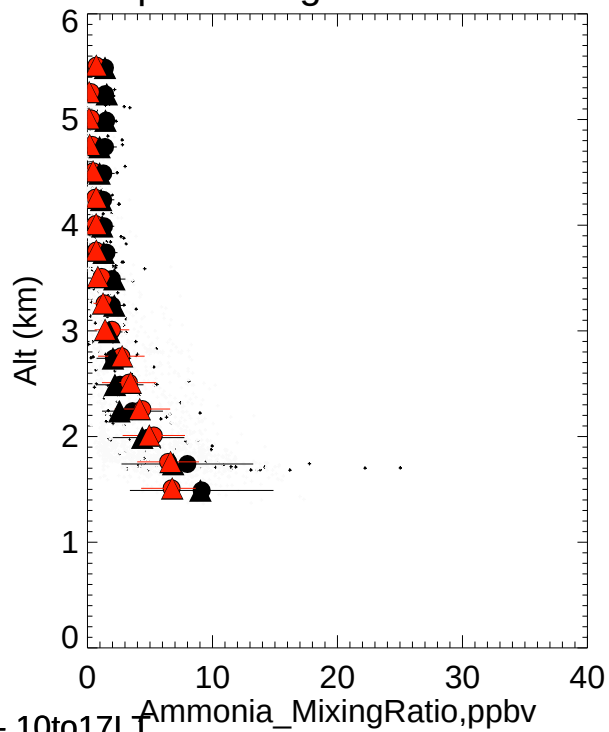
p3b All flight

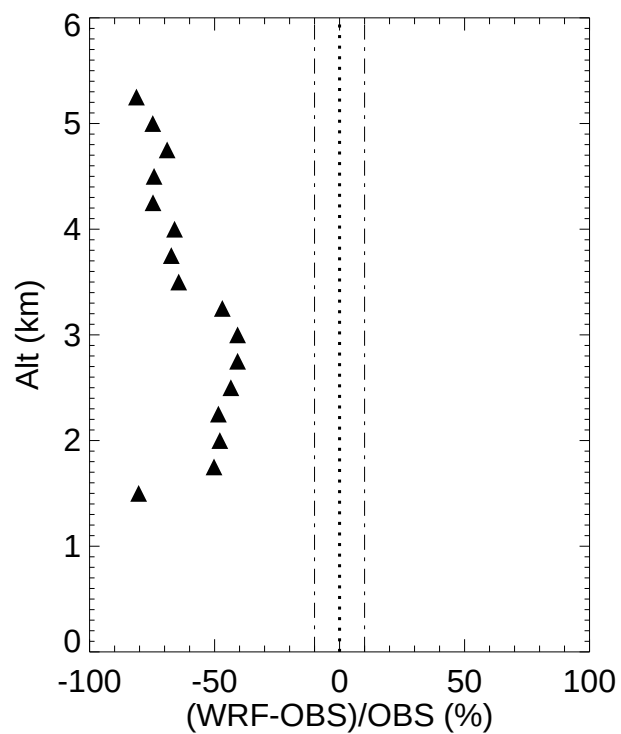
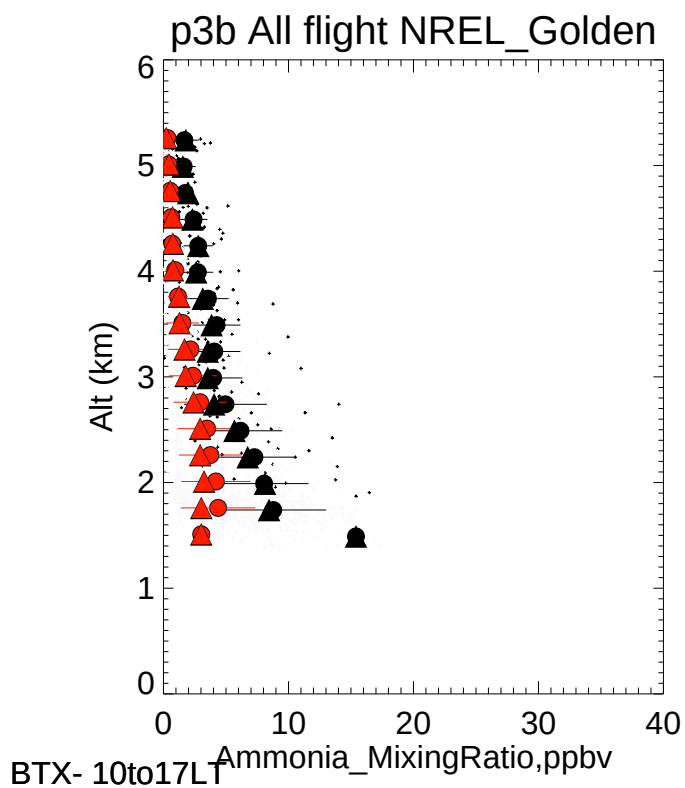
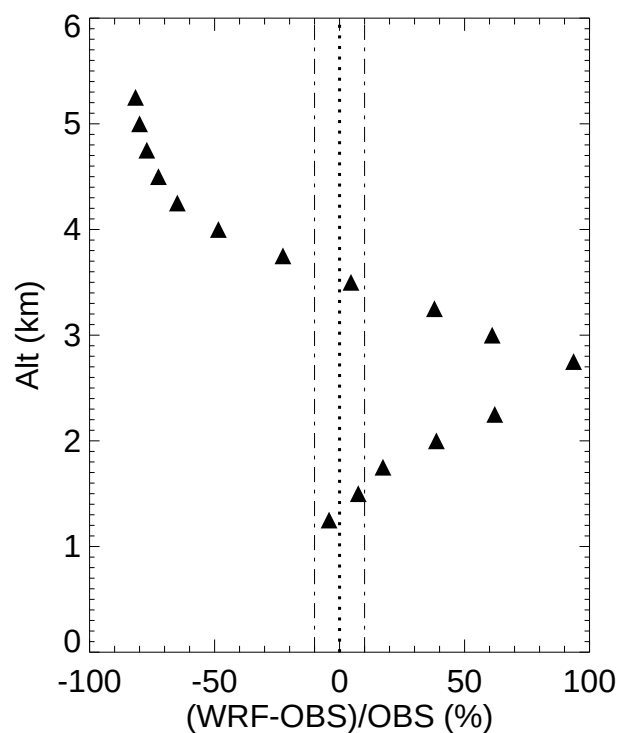
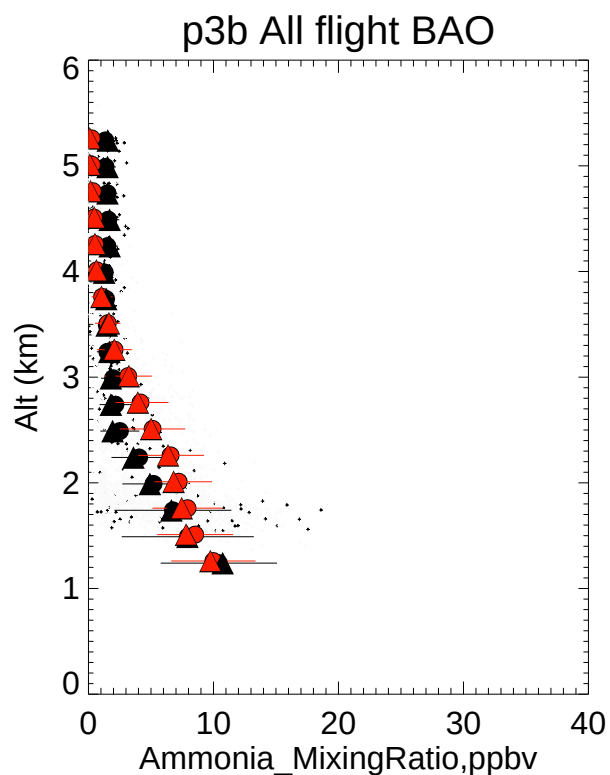


p3b All flight FortCollins

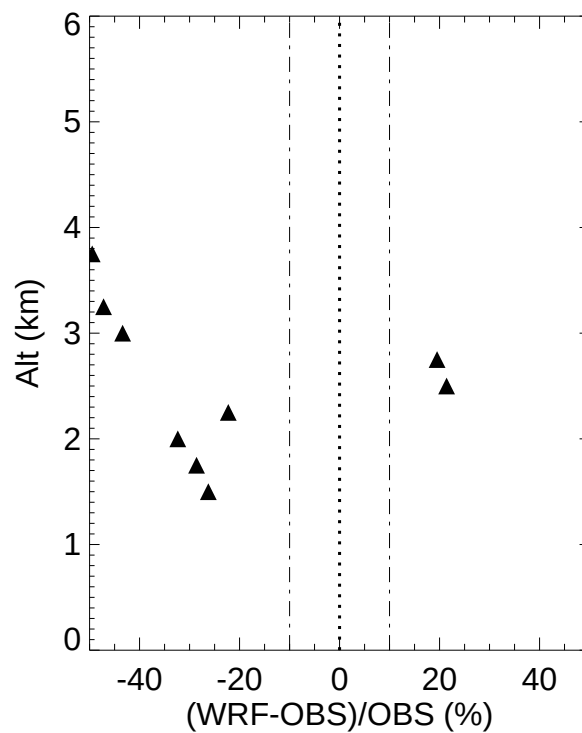
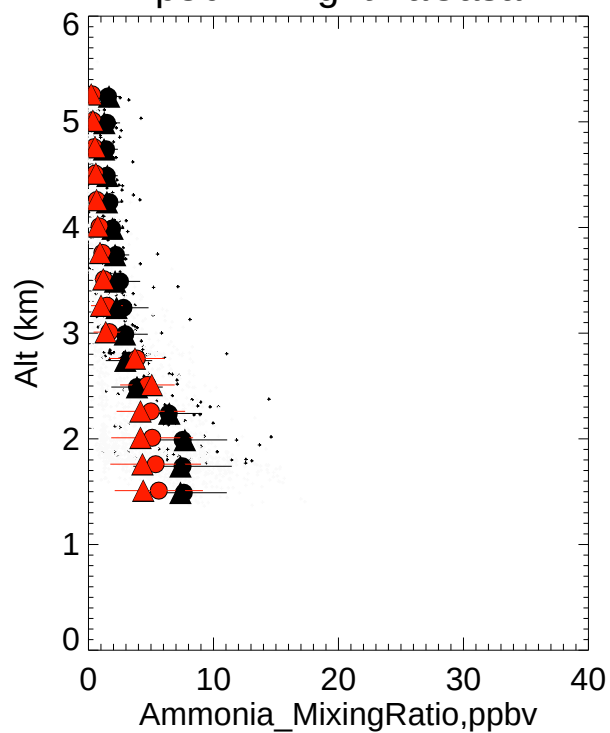


p3b All flight Platteville

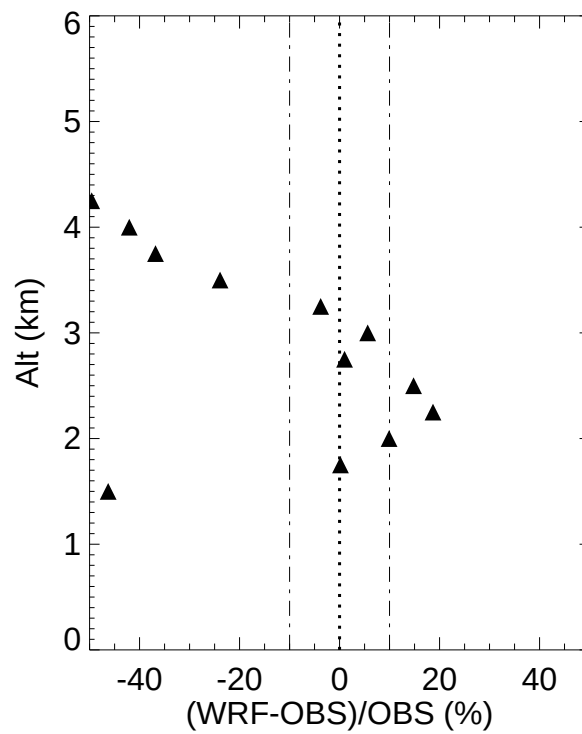
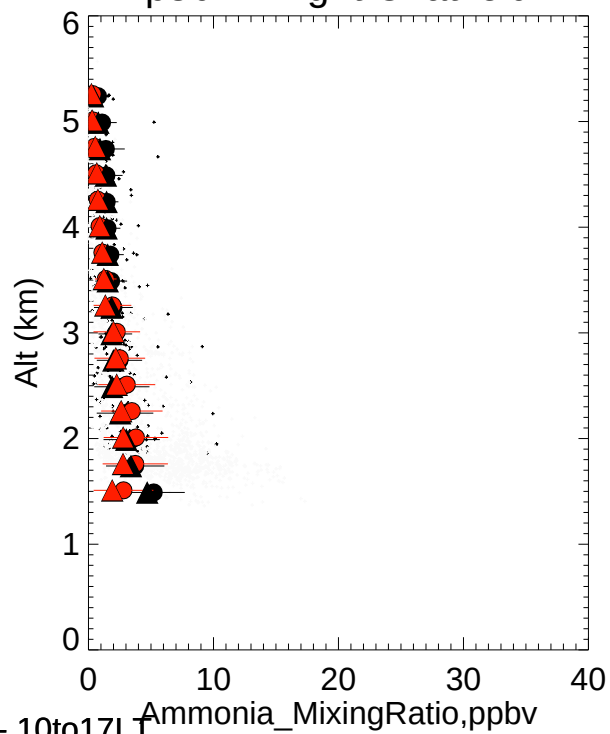




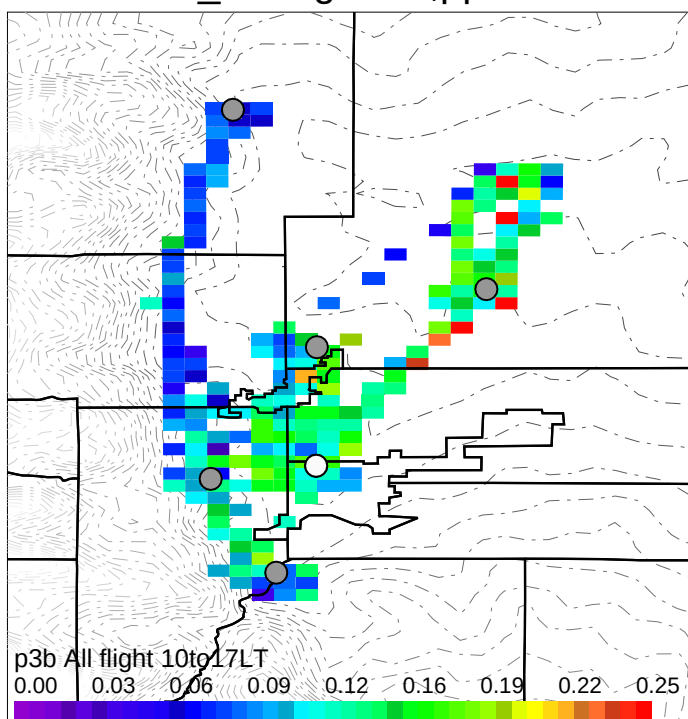
p3b All flight LaCasa



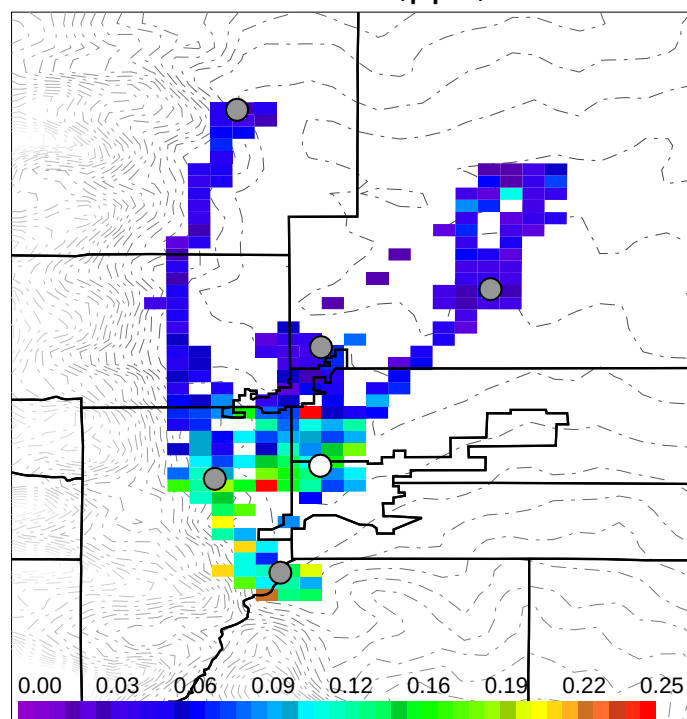
p3b All flight Chatfield



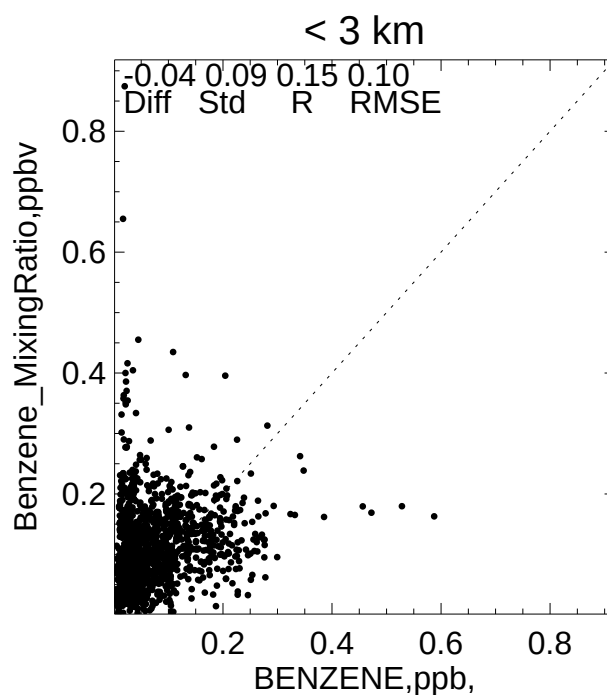
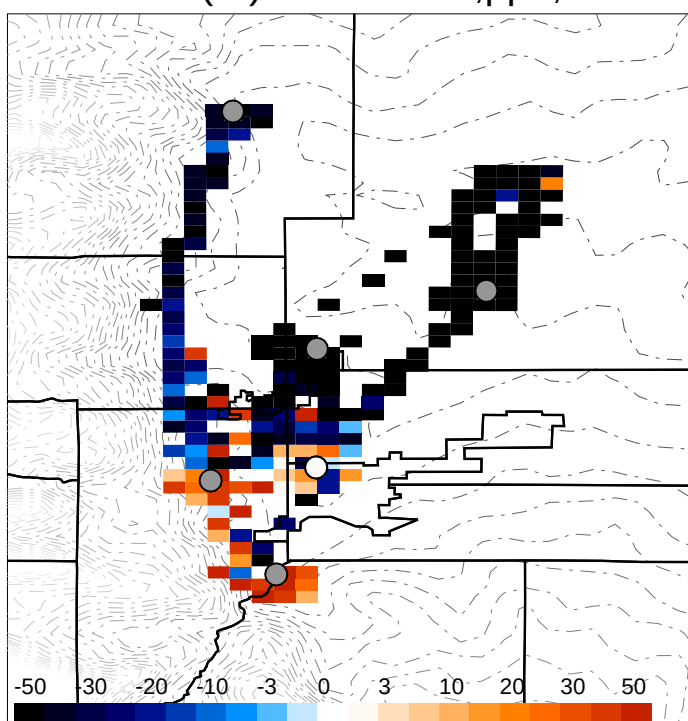
Benzene_MixingRatio,ppbv < 3 km



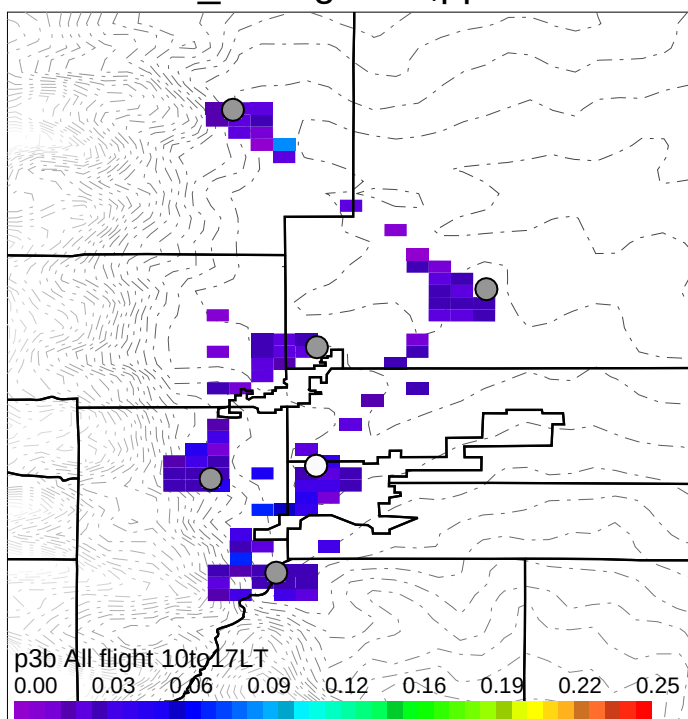
Model BENZENE,ppb, < 3 km



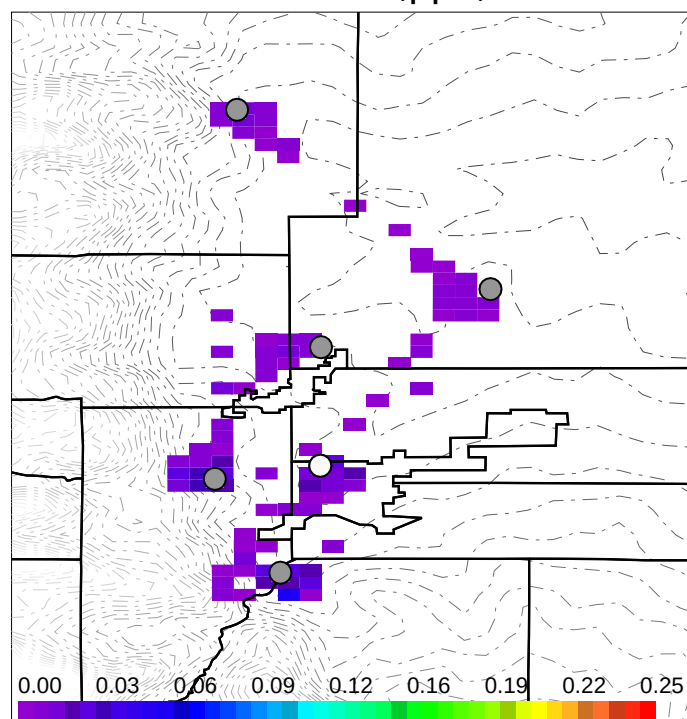
Model-Obs(%) BENZENE,ppb, < 3 km



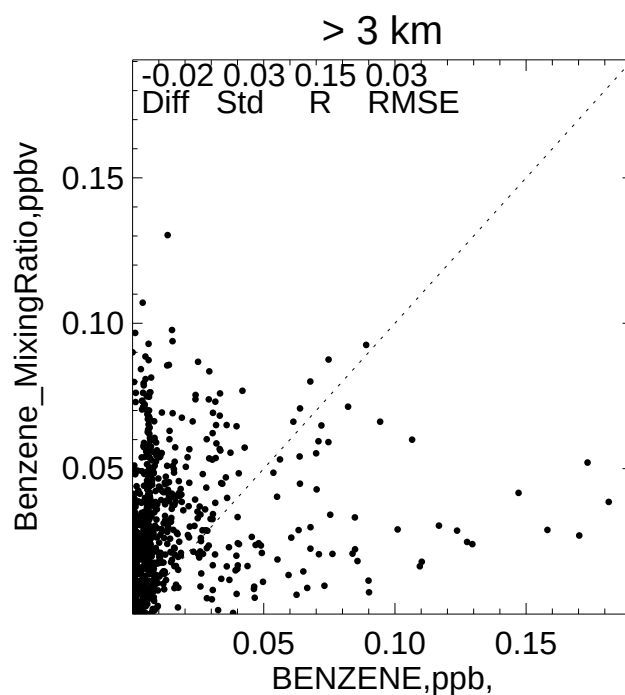
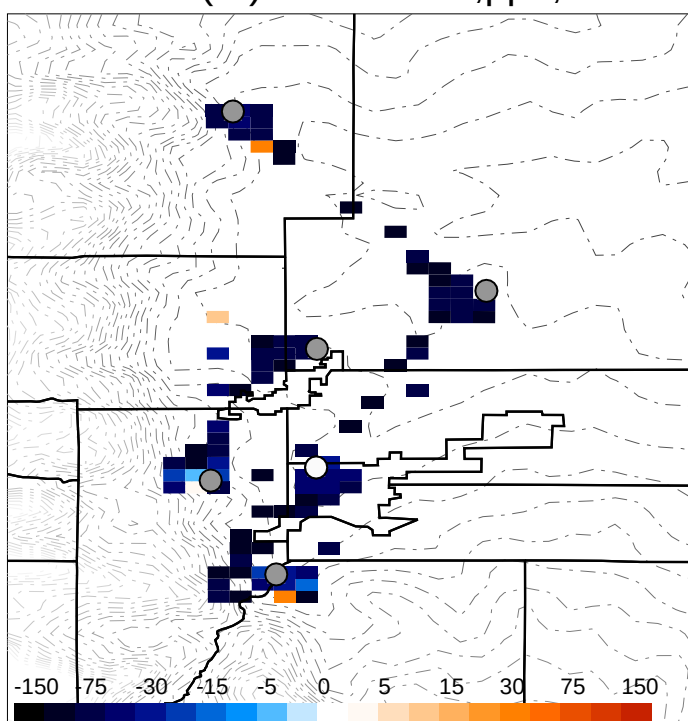
Benzene_MixingRatio,ppbv > 3 km

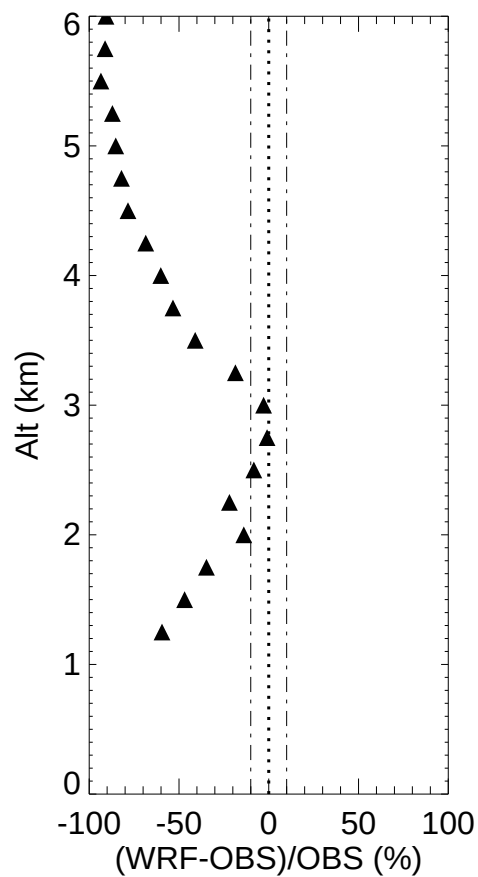
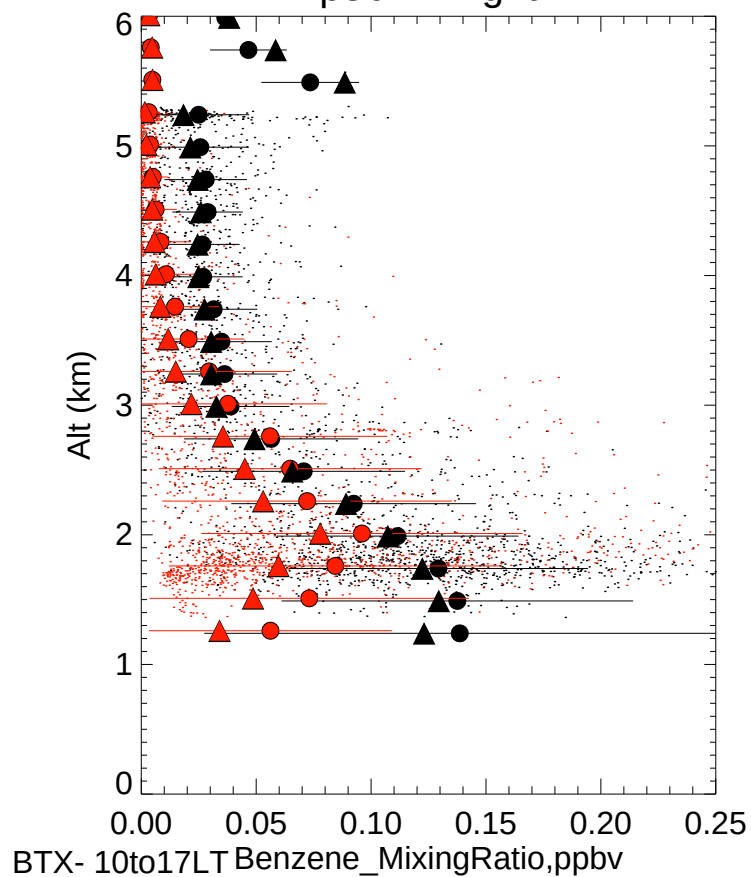
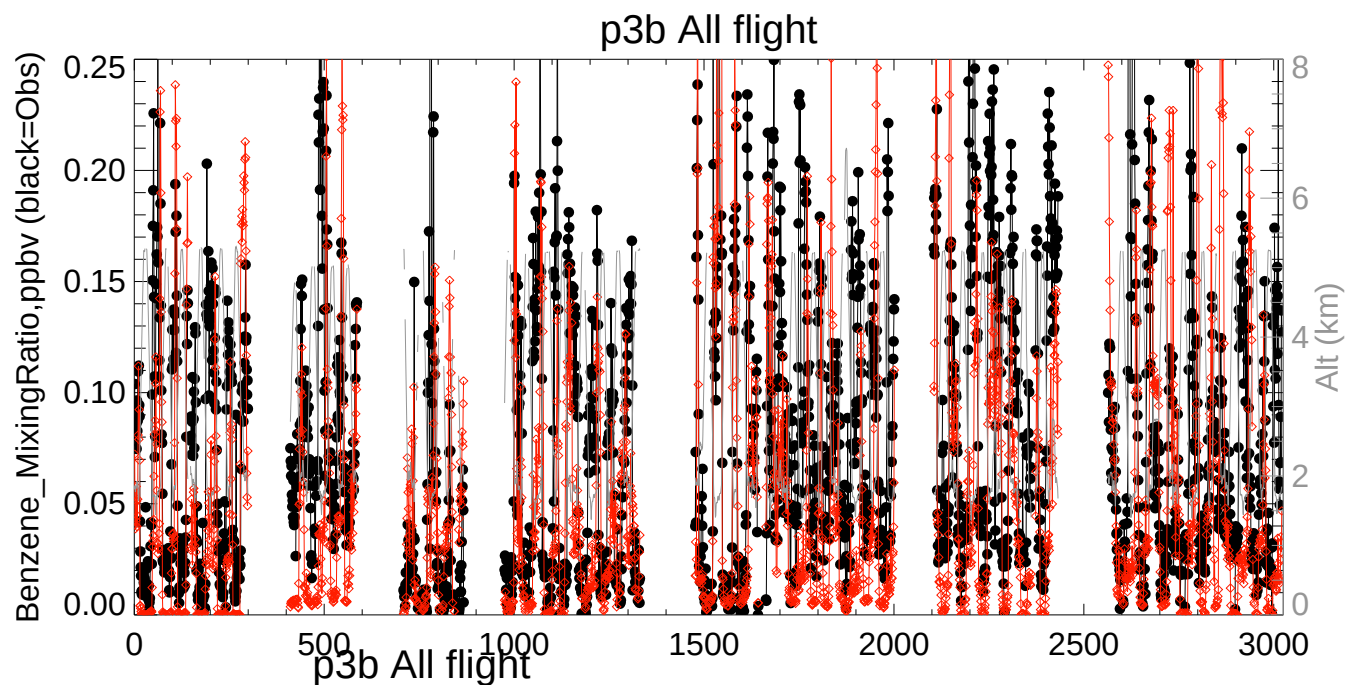


Model BENZENE,ppb, > 3 km

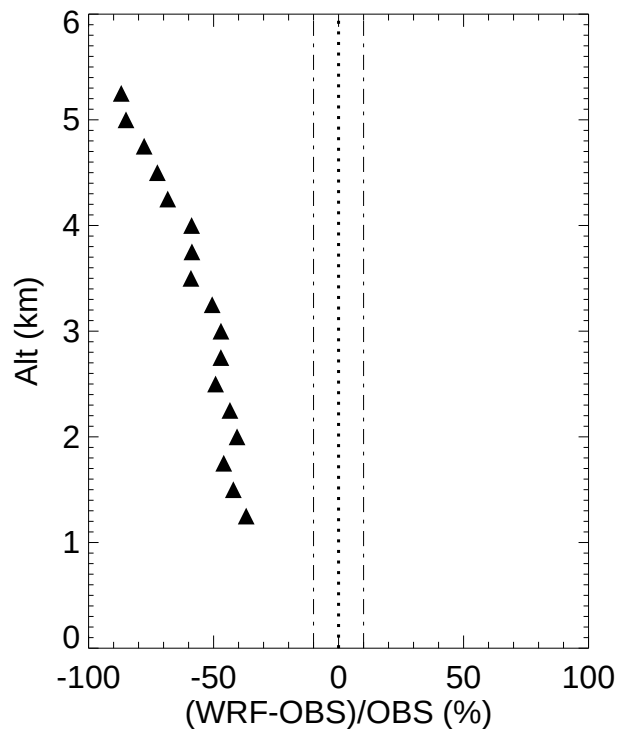
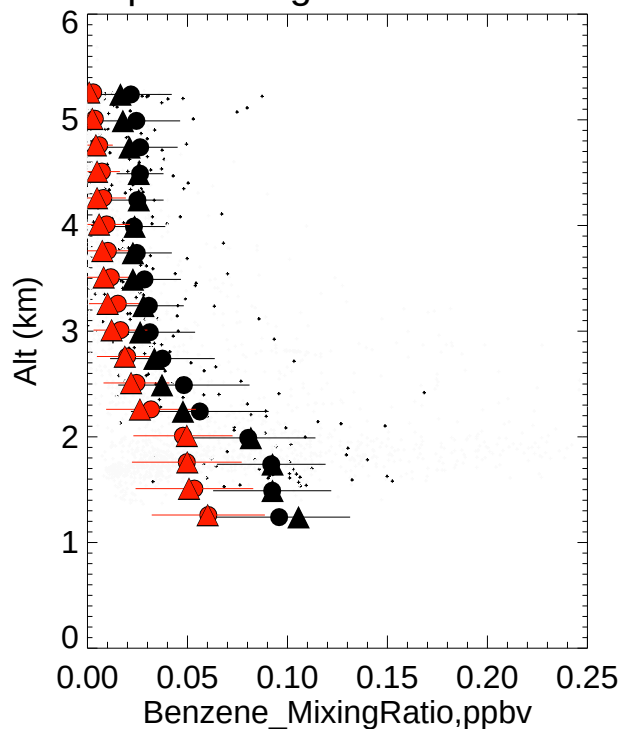


Model-Obs(%) BENZENE,ppb, > 3 km

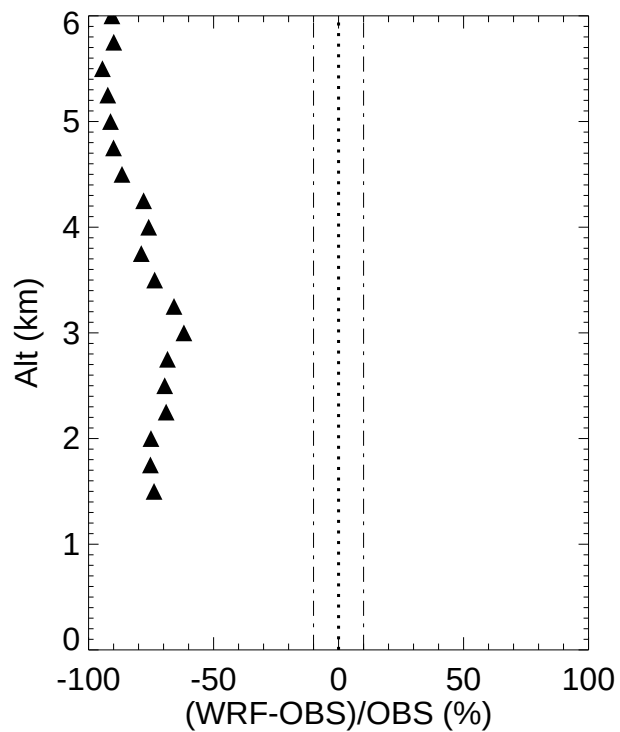
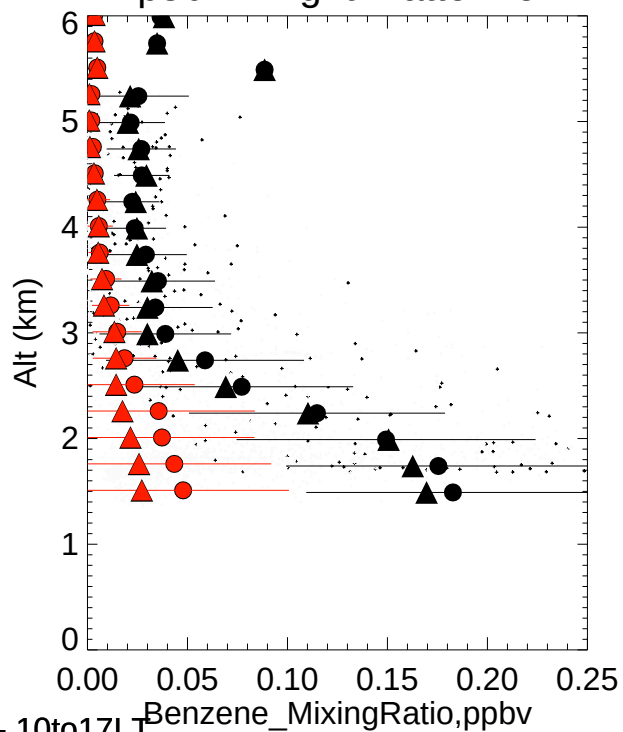




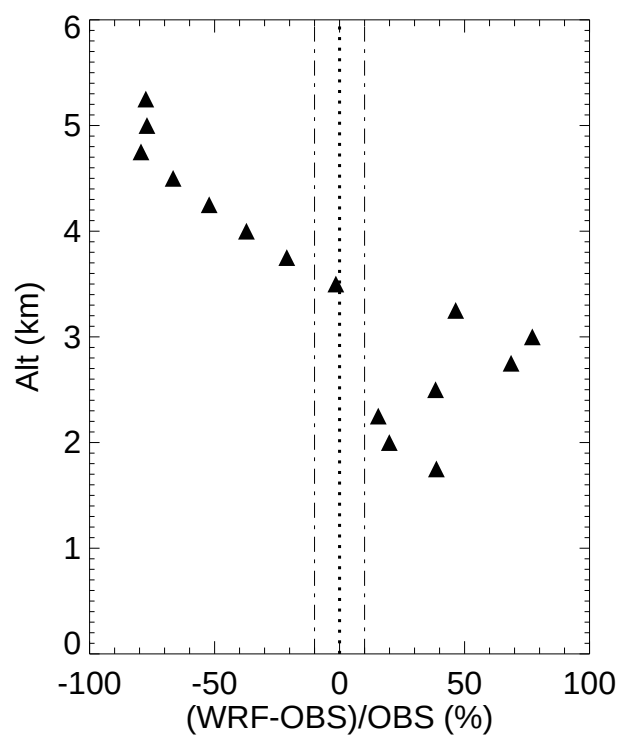
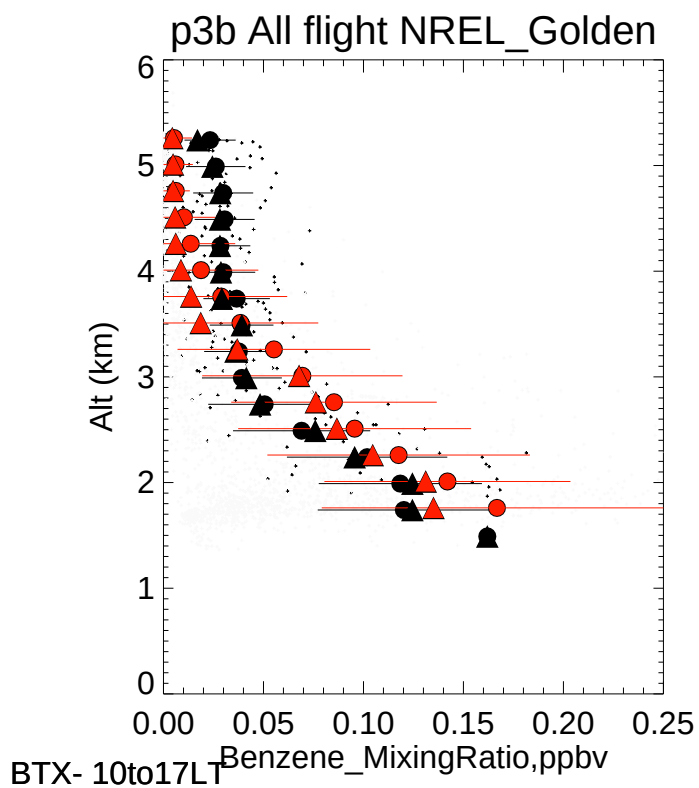
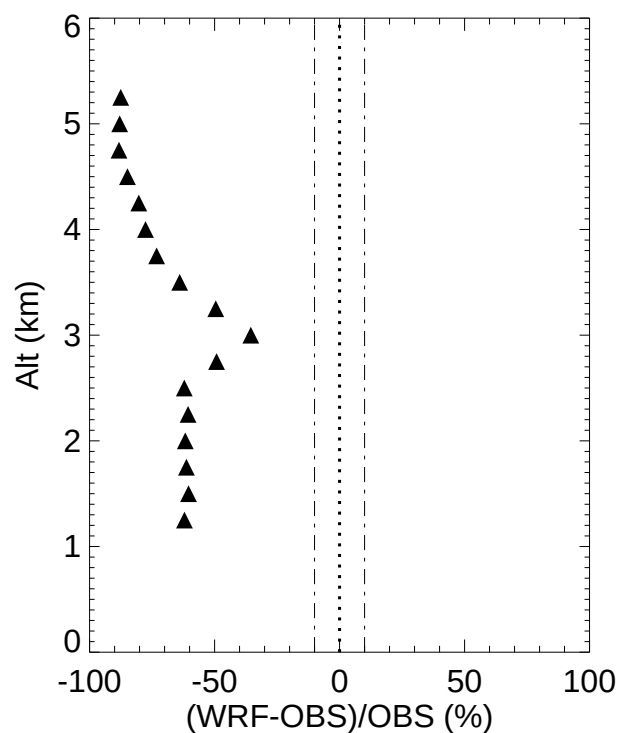
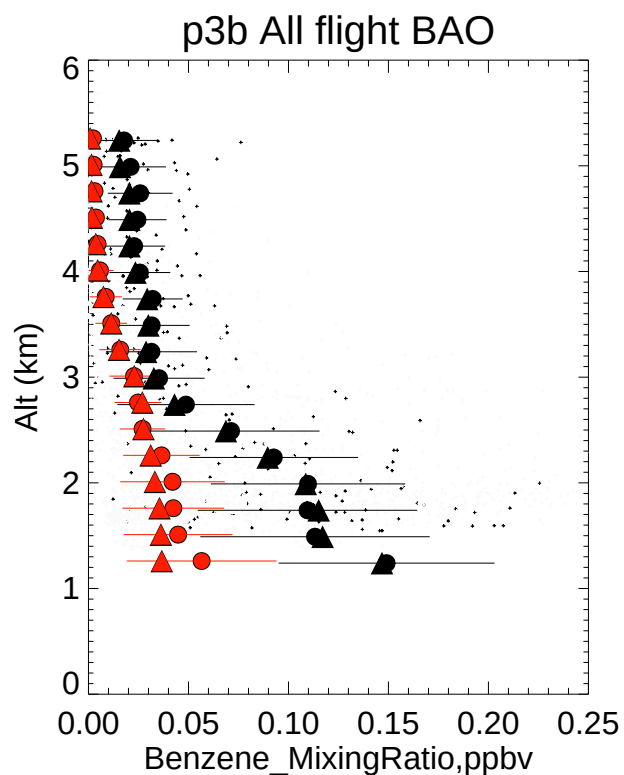
p3b All flight FortCollins



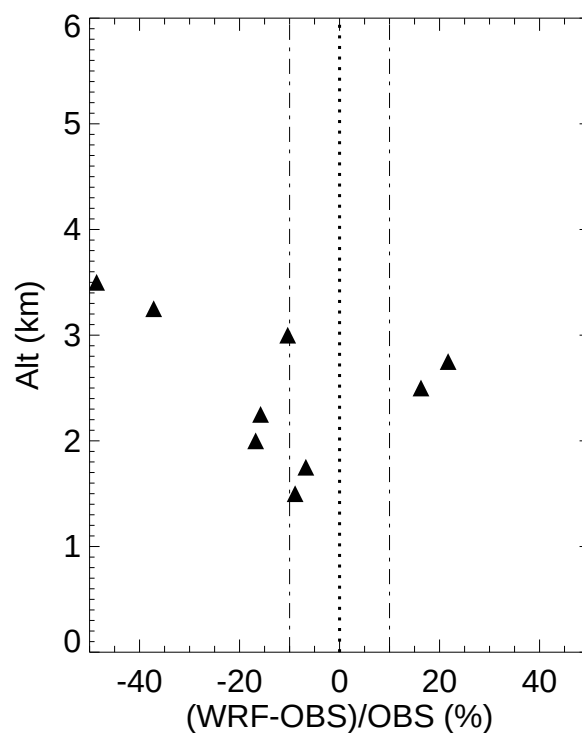
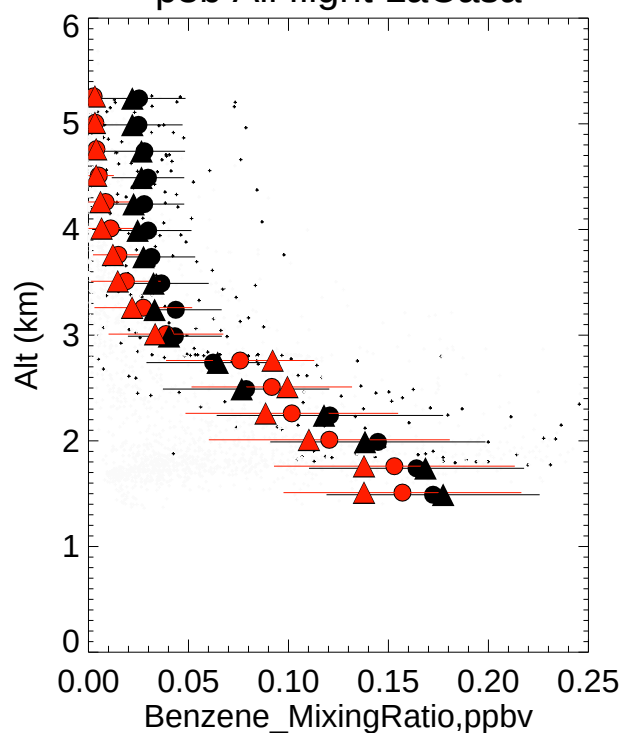
p3b All flight Platteville



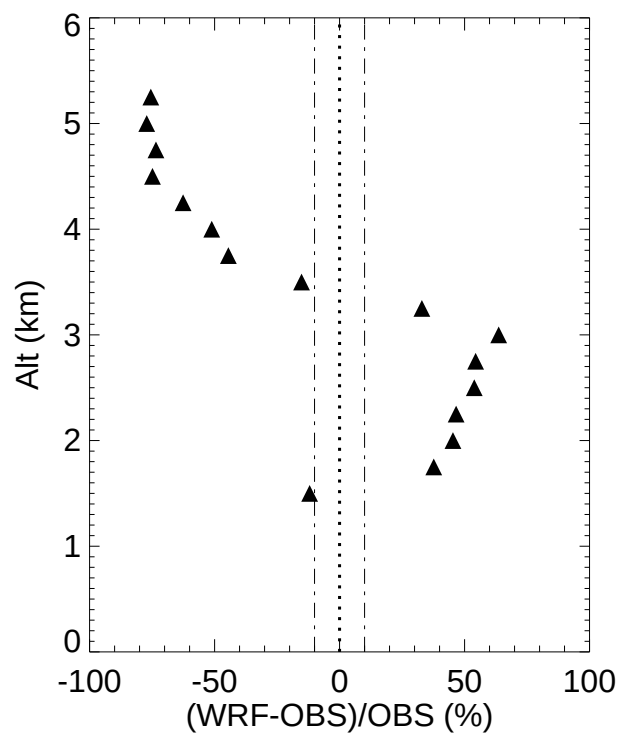
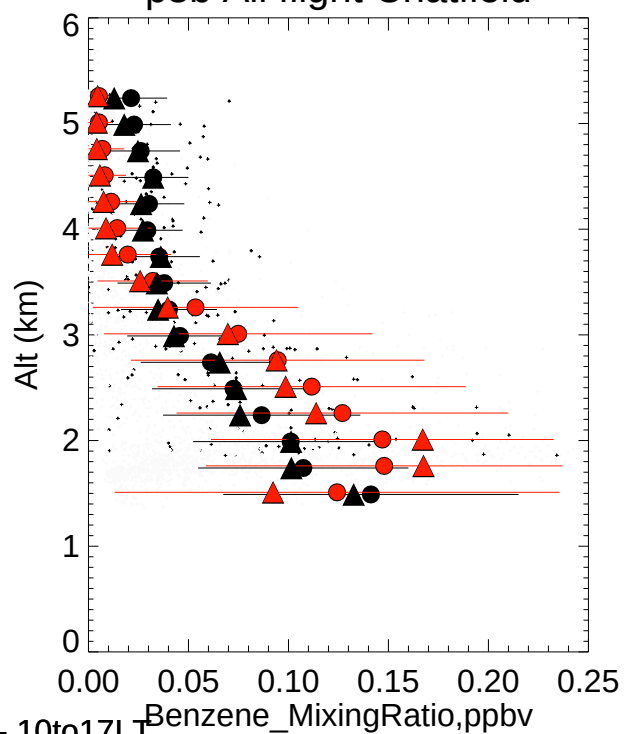
BTX- 10to17LT



p3b All flight LaCasa

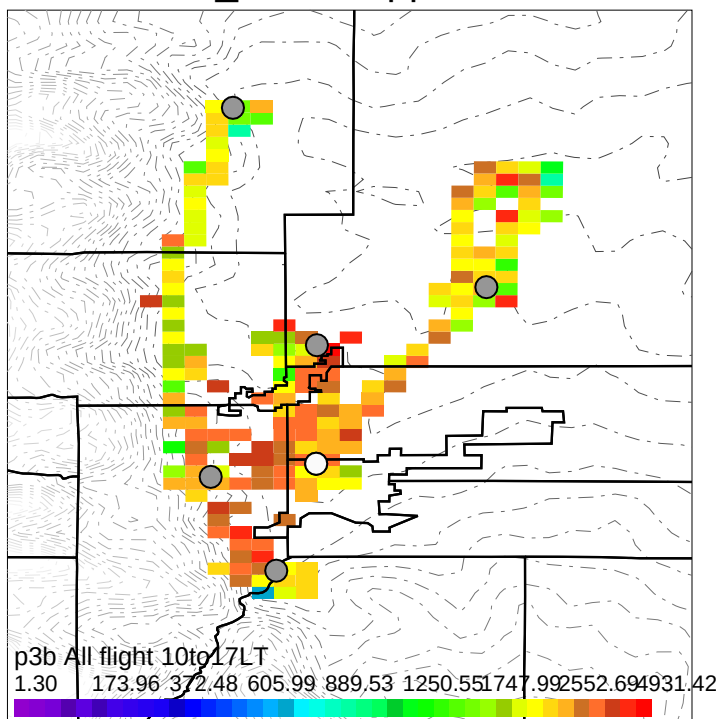


p3b All flight Chatfield

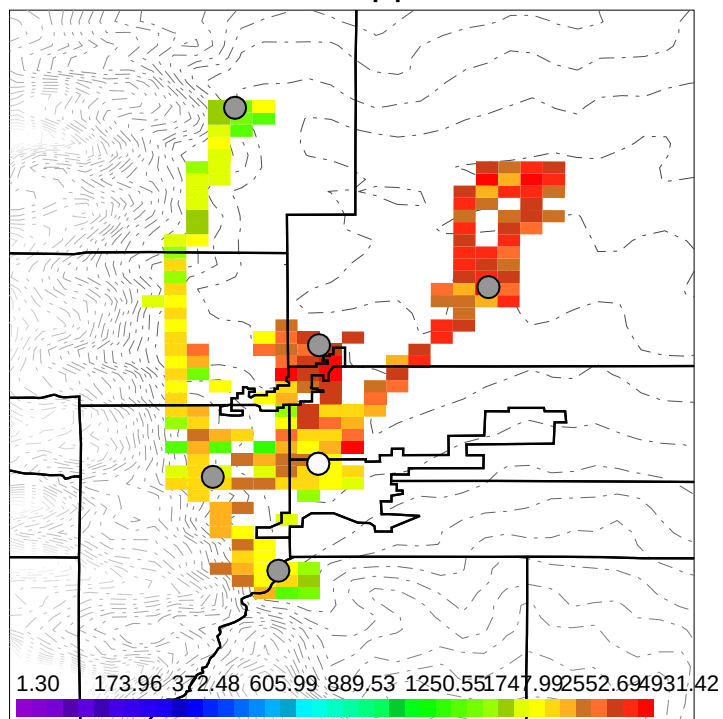


BTX- 10to17LT

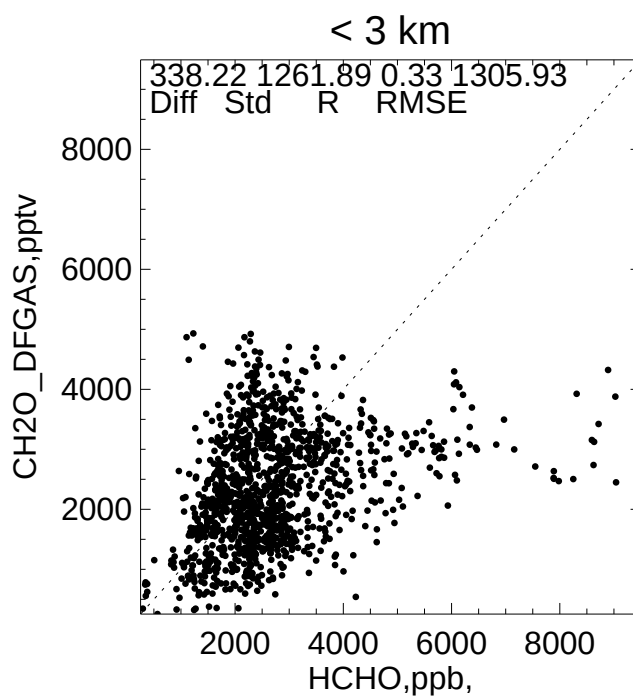
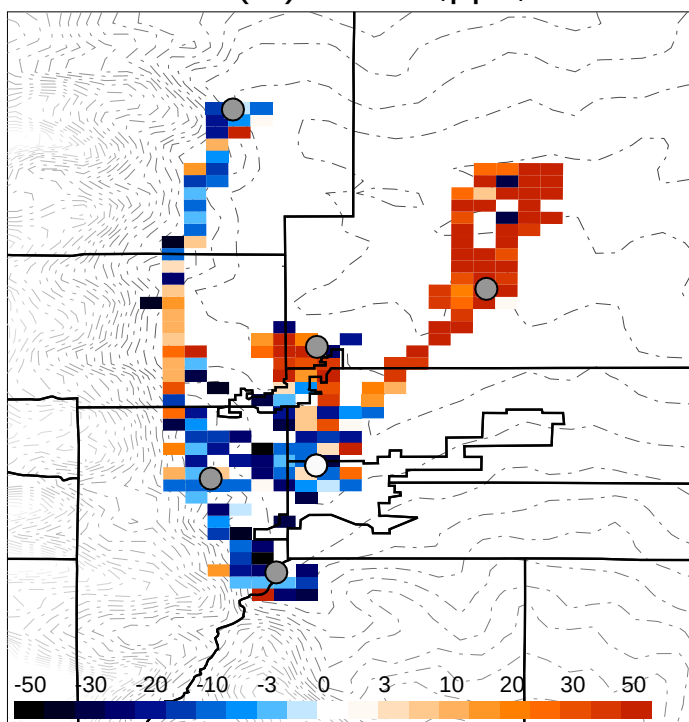
CH2O_DFGAS,pptv < 3 km



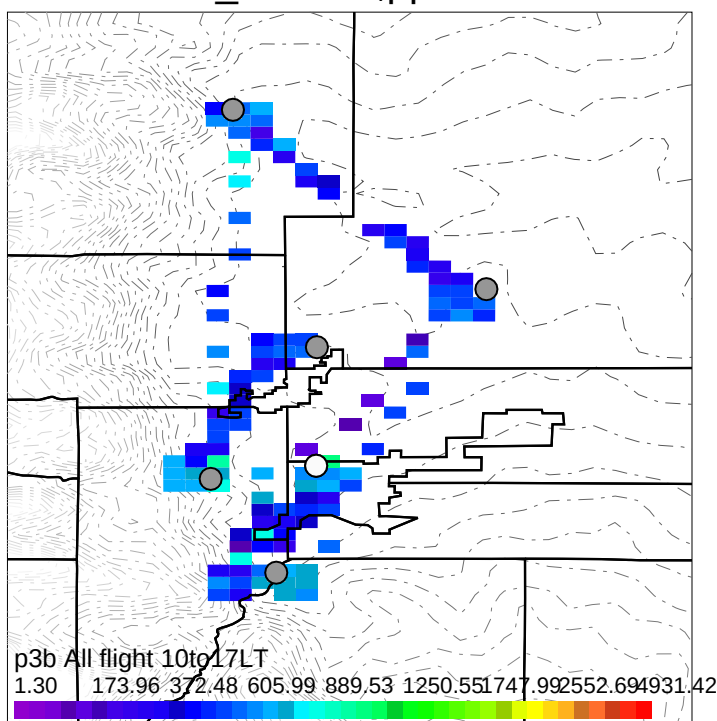
Model HCHO,ppb, < 3 km



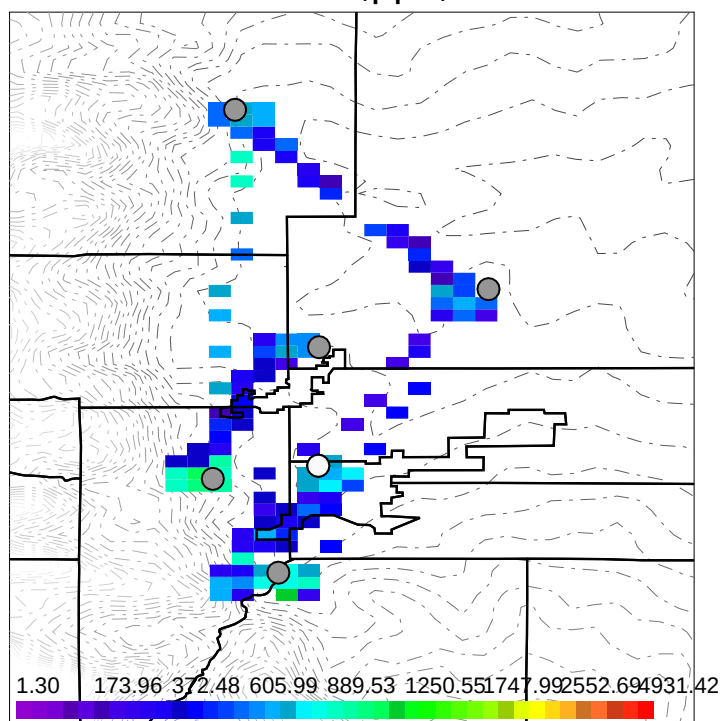
Model-Obs(%) HCHO,ppb, < 3 km



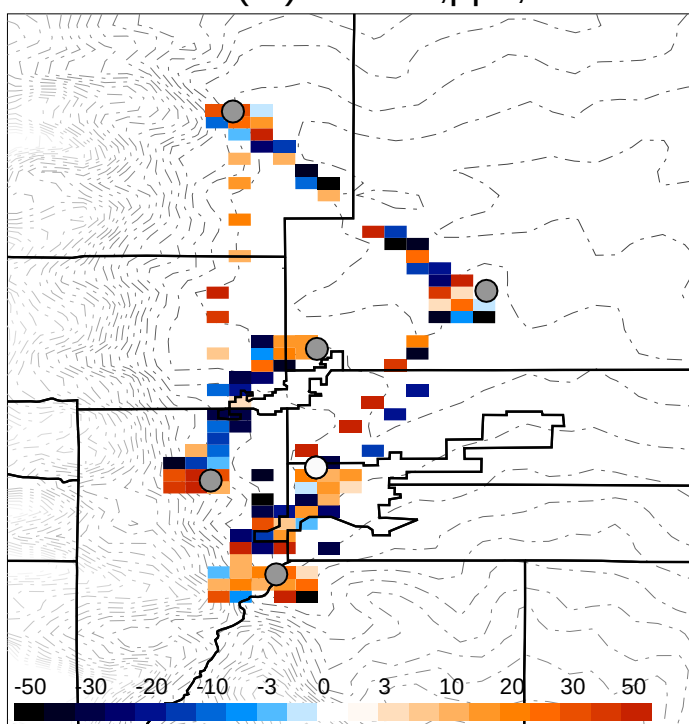
CH2O_DFGAS,pptv > 3 km



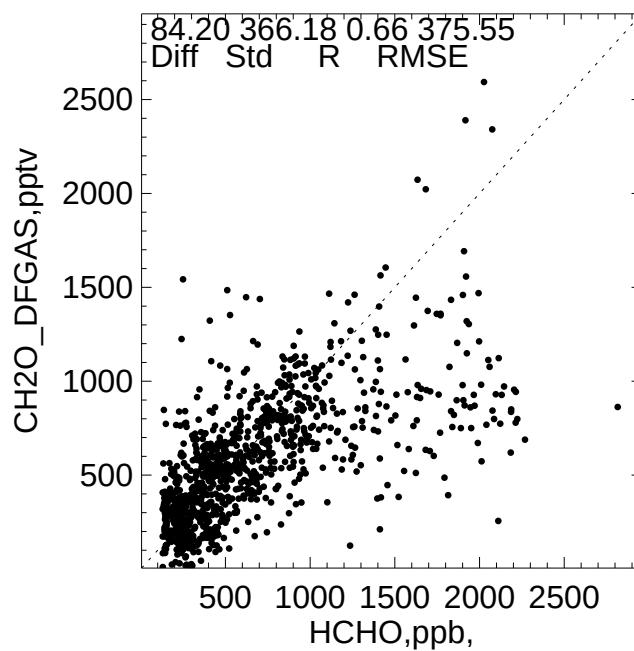
Model HCHO,ppb, > 3 km



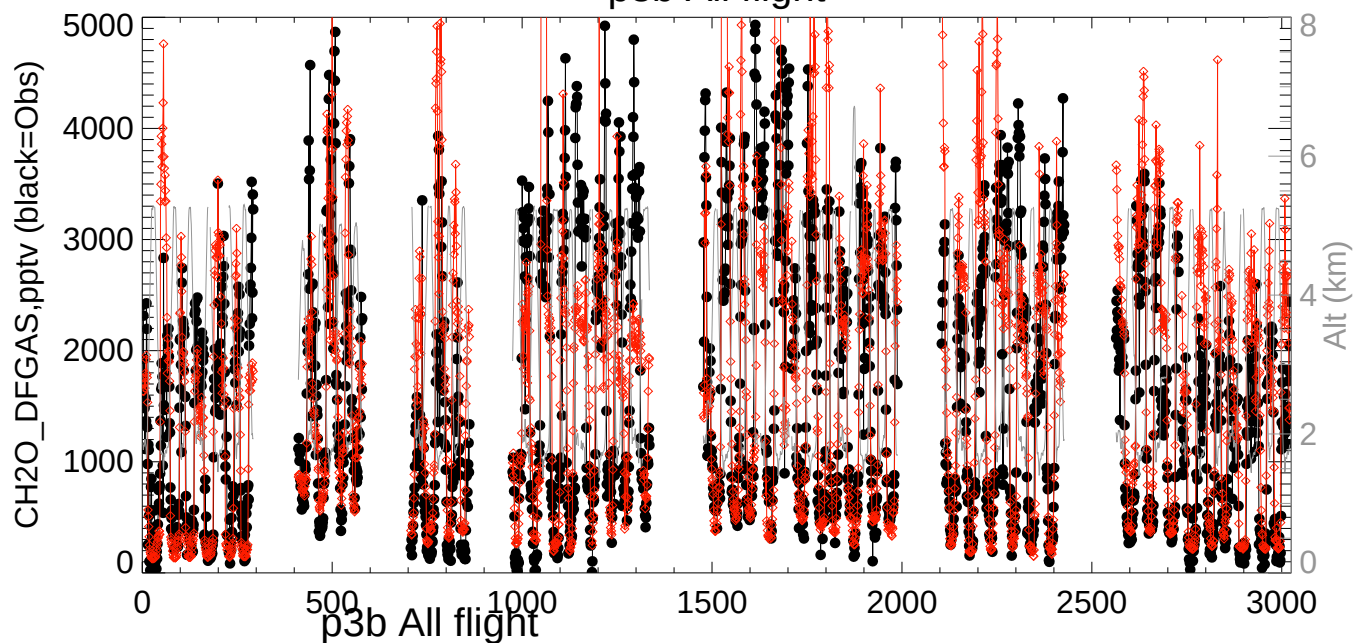
Model-Obs(%) HCHO,ppb, > 3 km



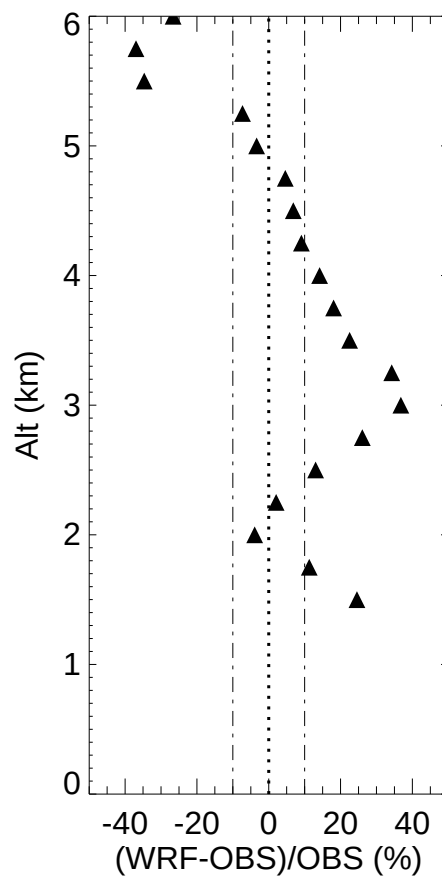
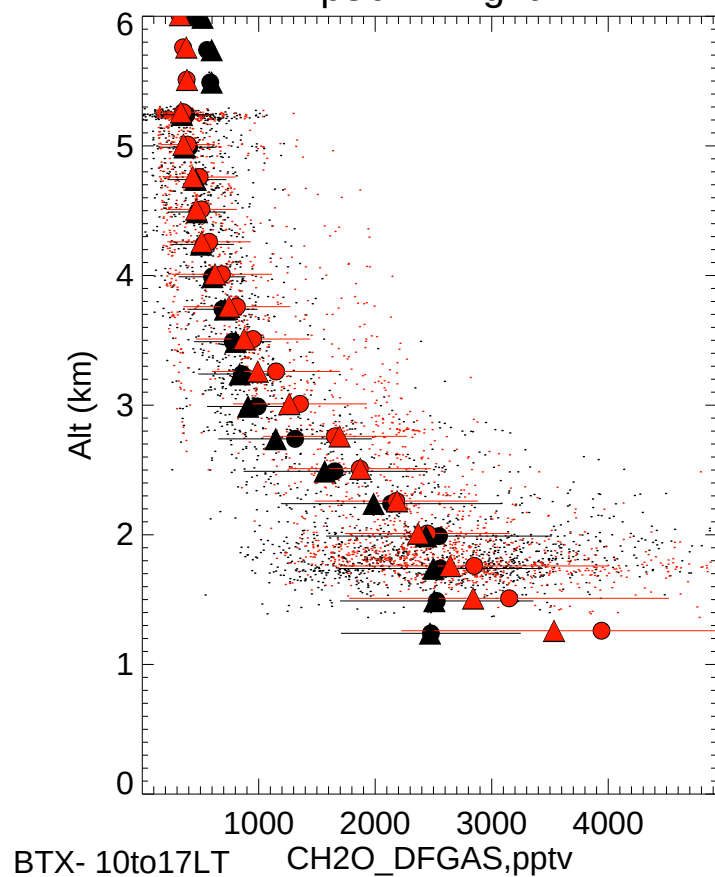
> 3 km



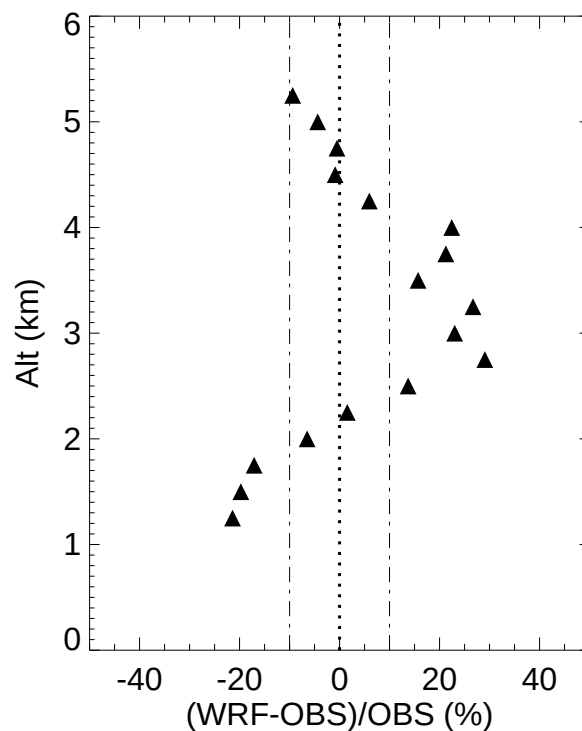
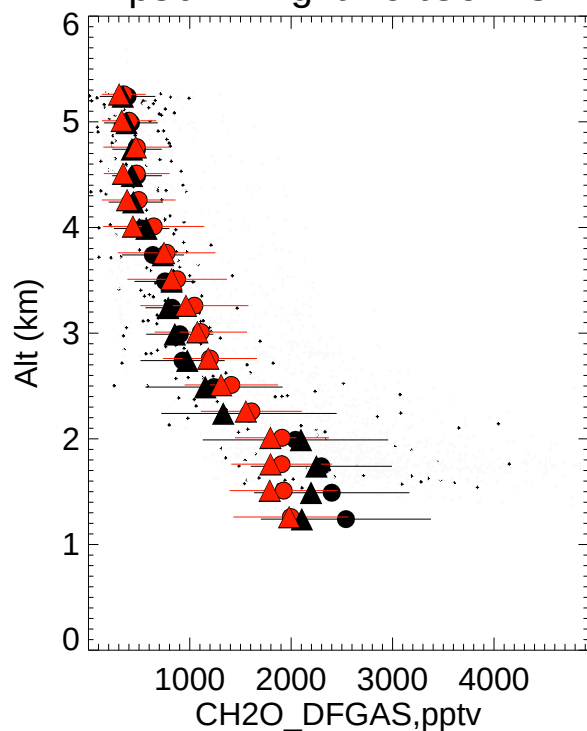
p3b All flight



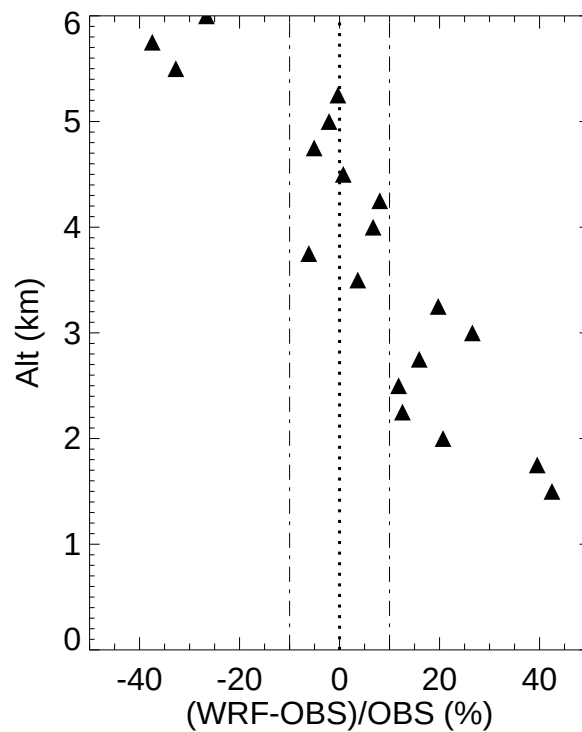
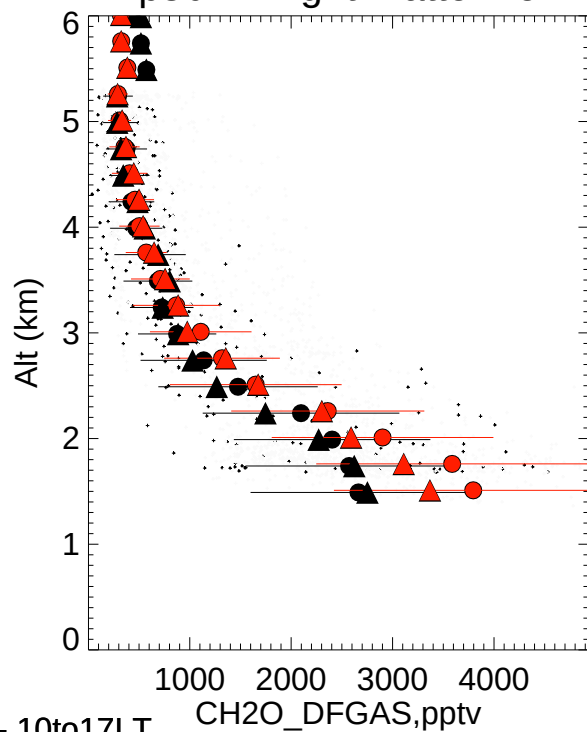
p3b All flight



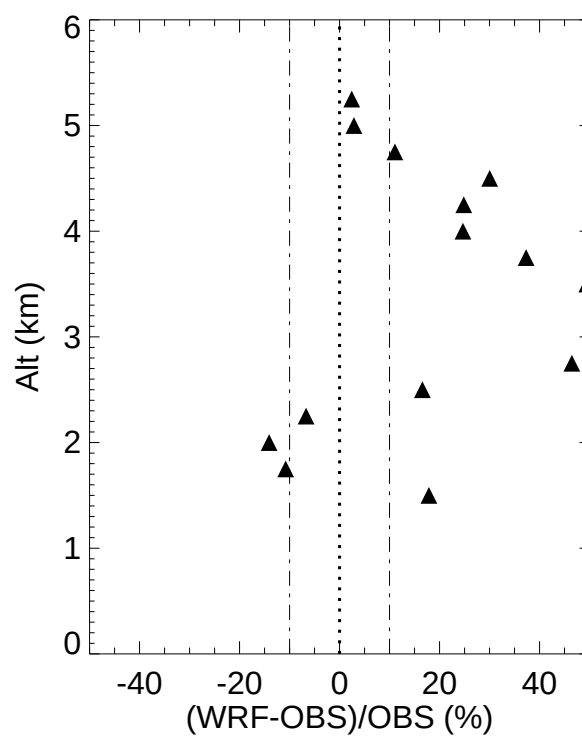
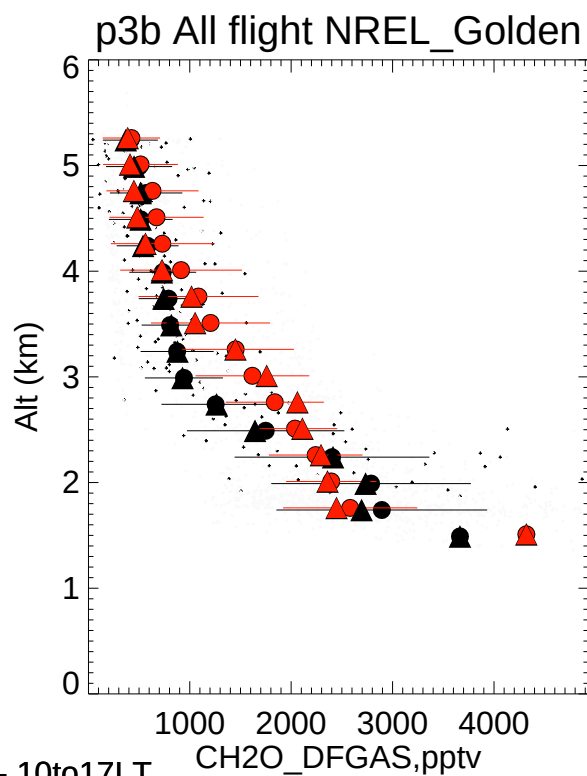
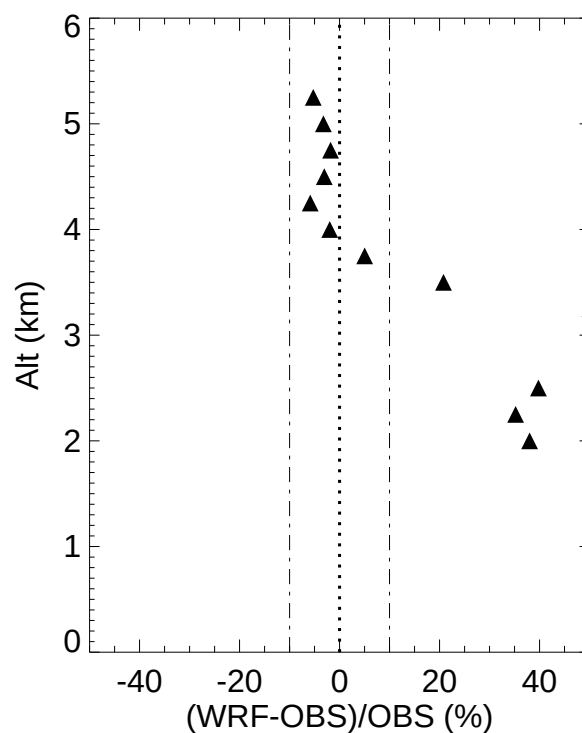
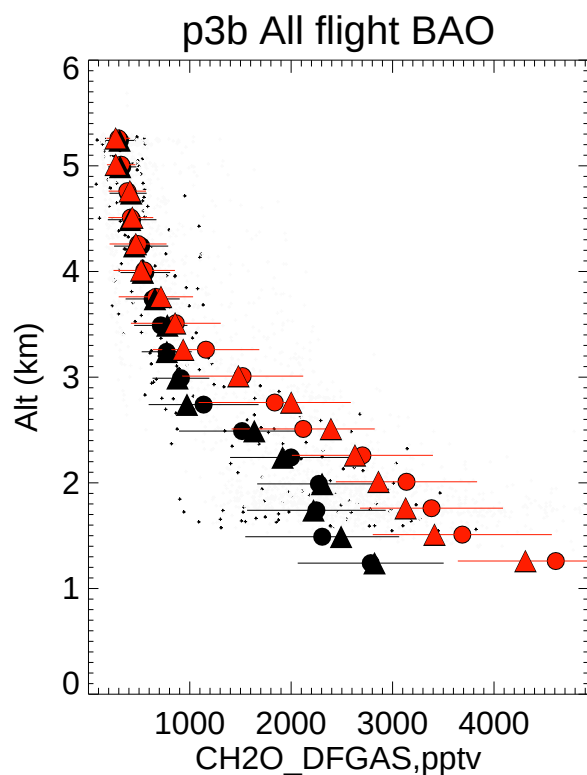
p3b All flight FortCollins



p3b All flight Platteville

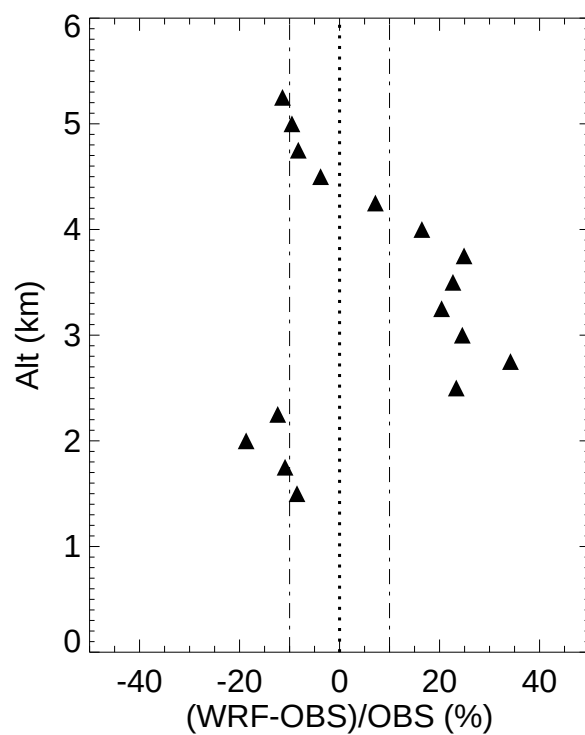
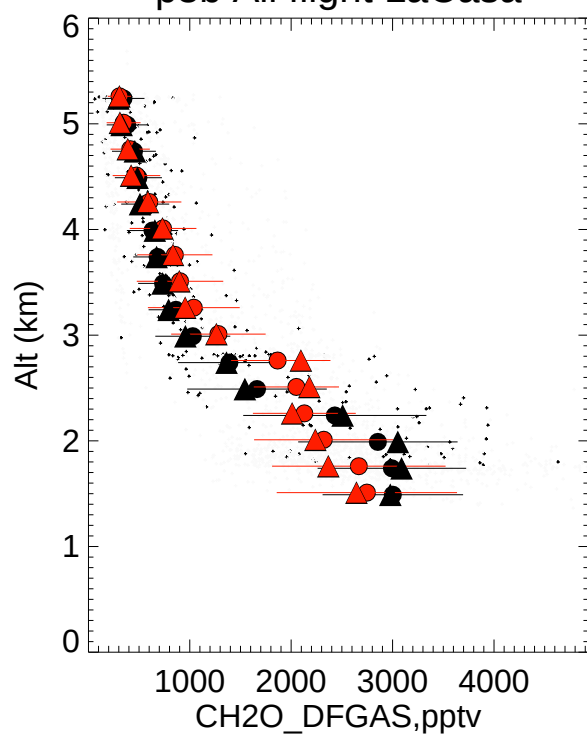


BTX- 10to17LT

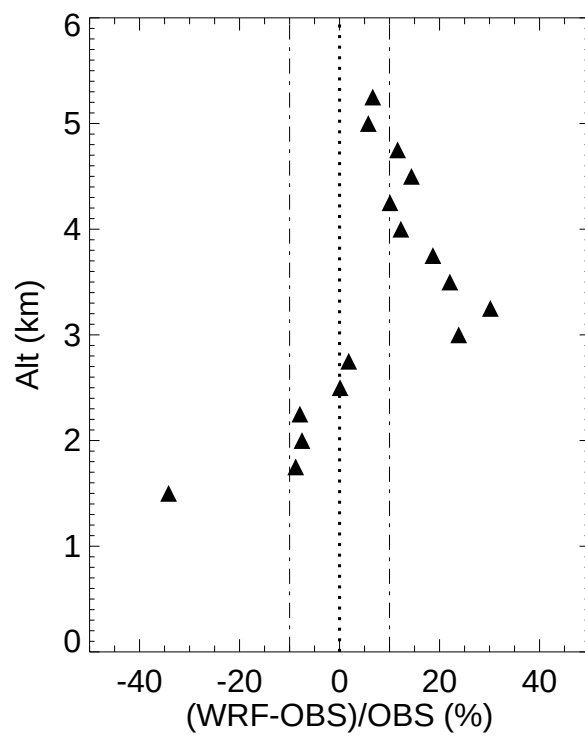
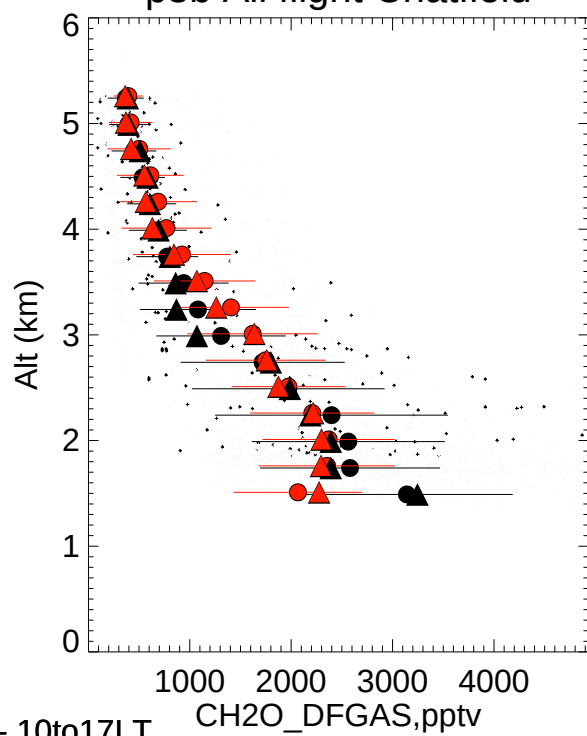


BTX- 10to17LT

p3b All flight LaCasa

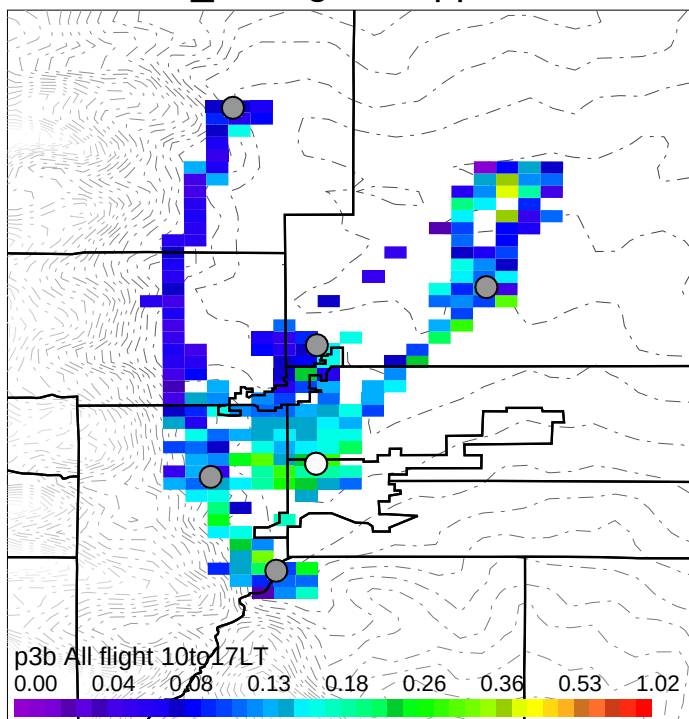


p3b All flight Chatfield

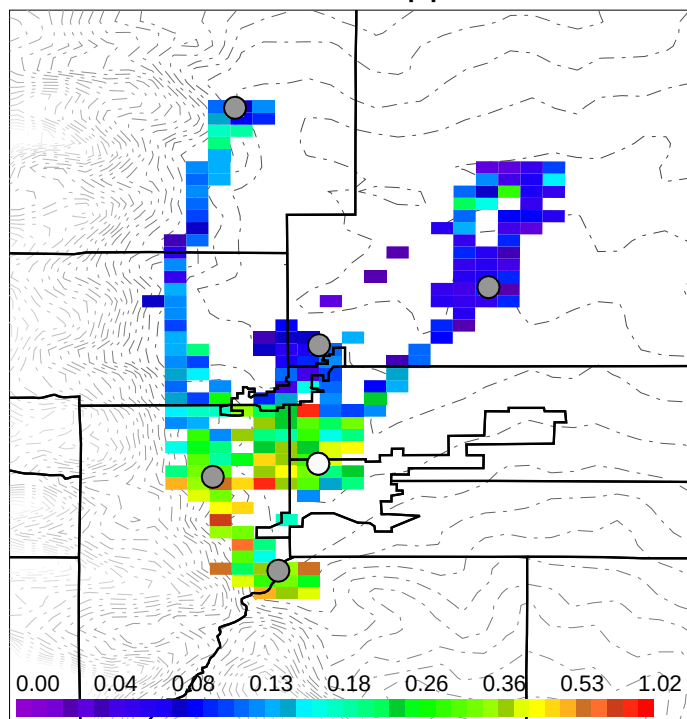


BTX- 10to17LT

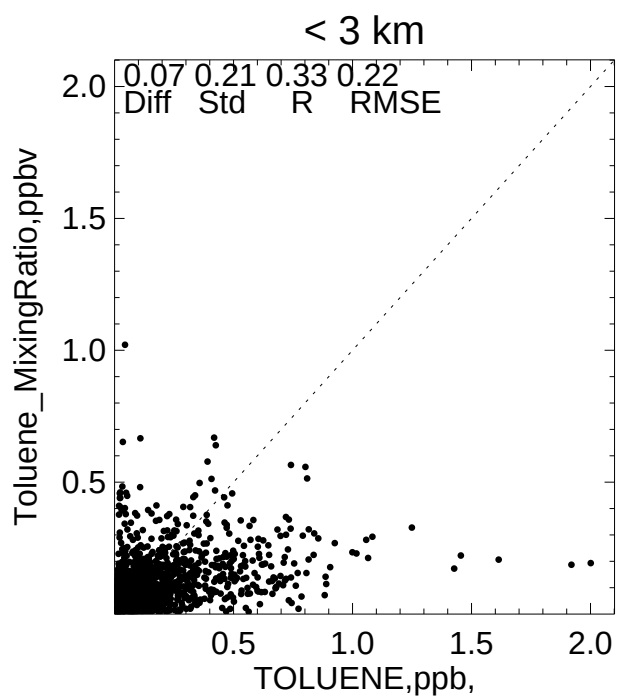
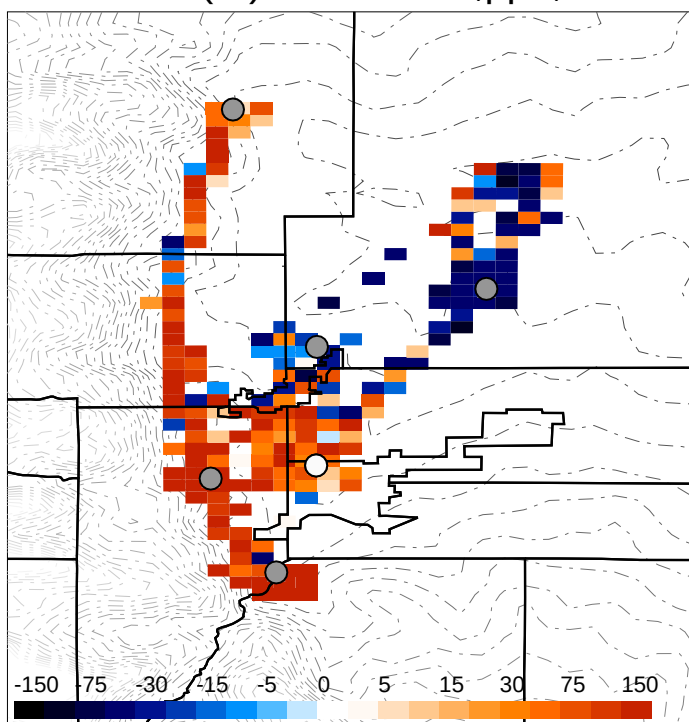
Toluene_MixingRatio,ppbv < 3 km



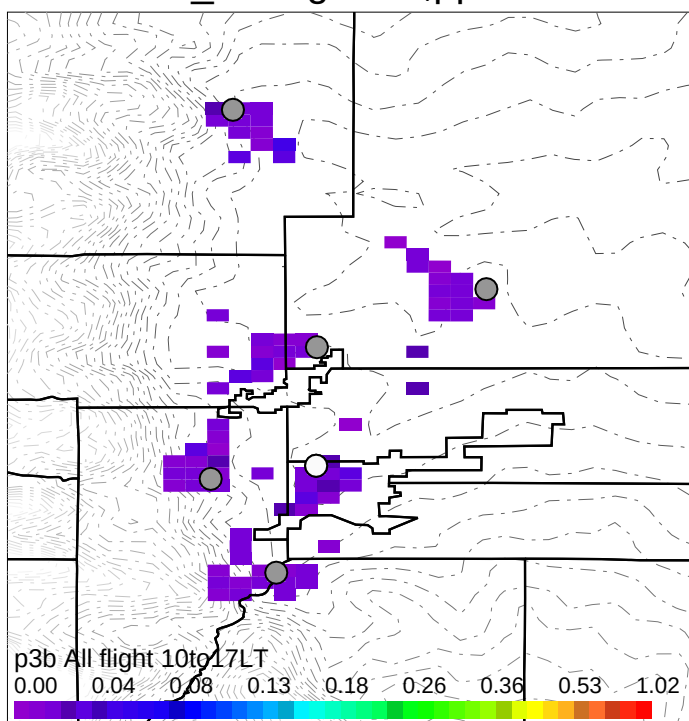
Model TOLUENE,ppb, < 3 km



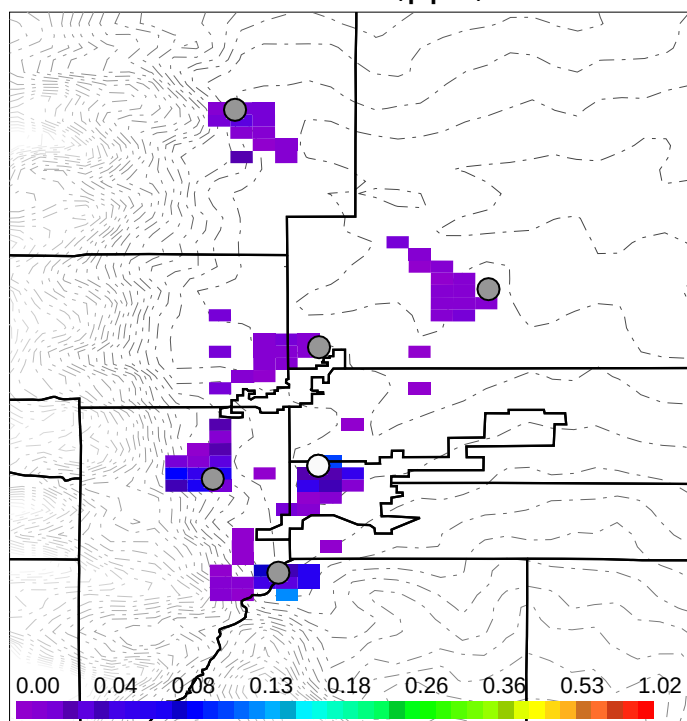
Model-Obs(%) TOLUENE,ppb, < 3 km



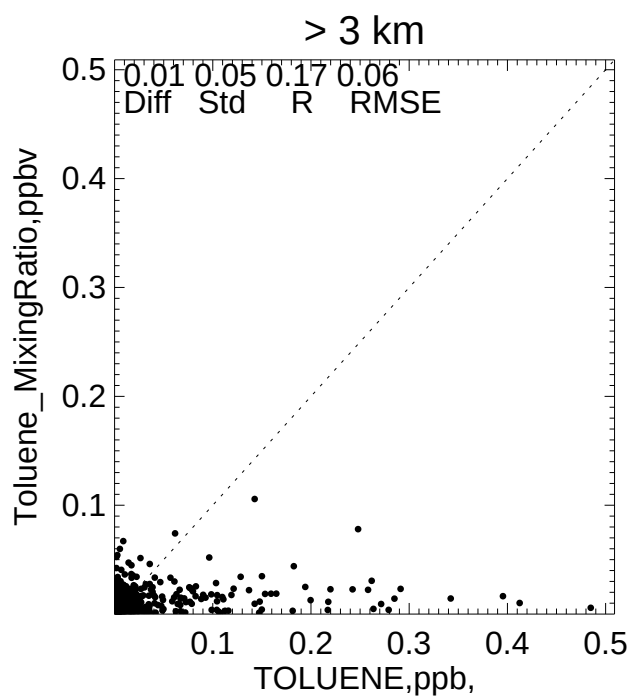
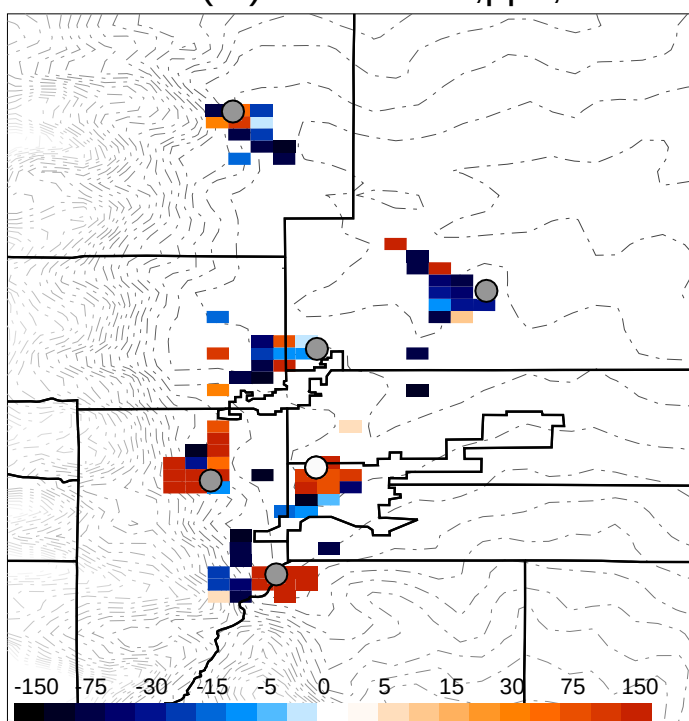
Toluene_MixingRatio,ppbv > 3 km



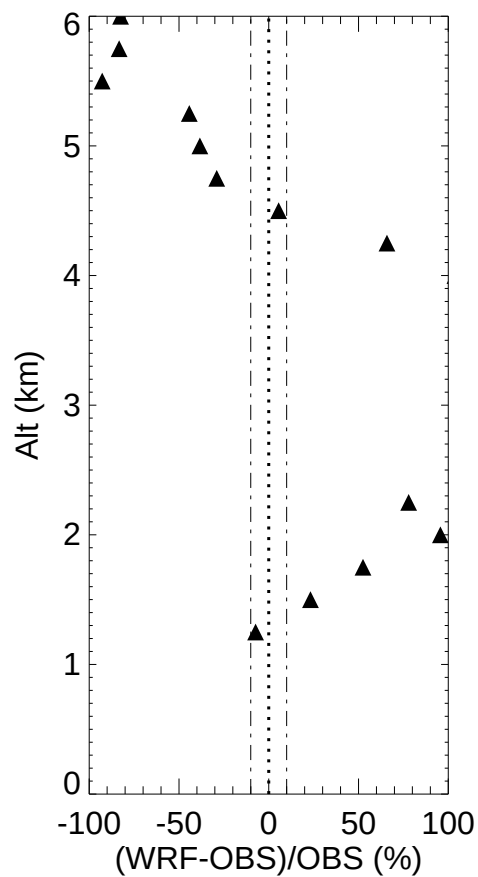
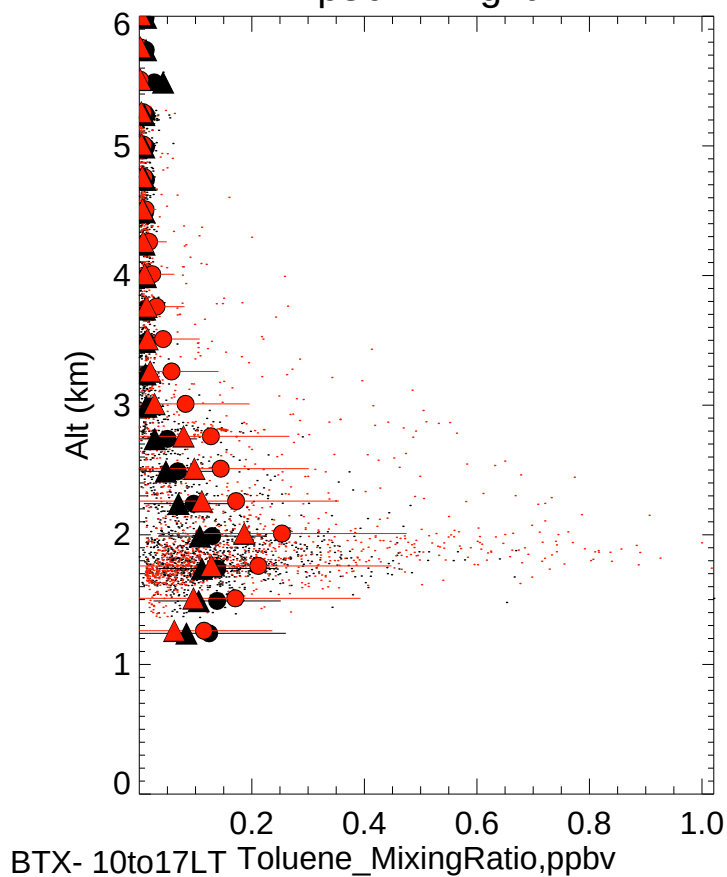
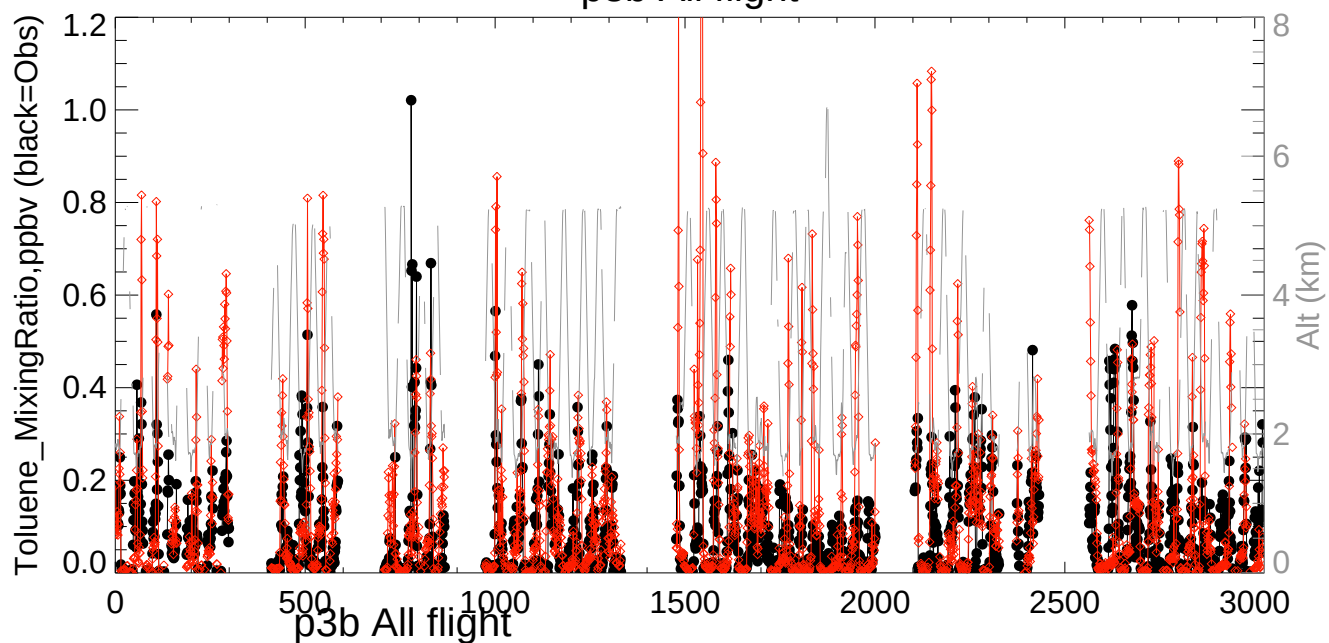
Model TOLUENE,ppb, > 3 km



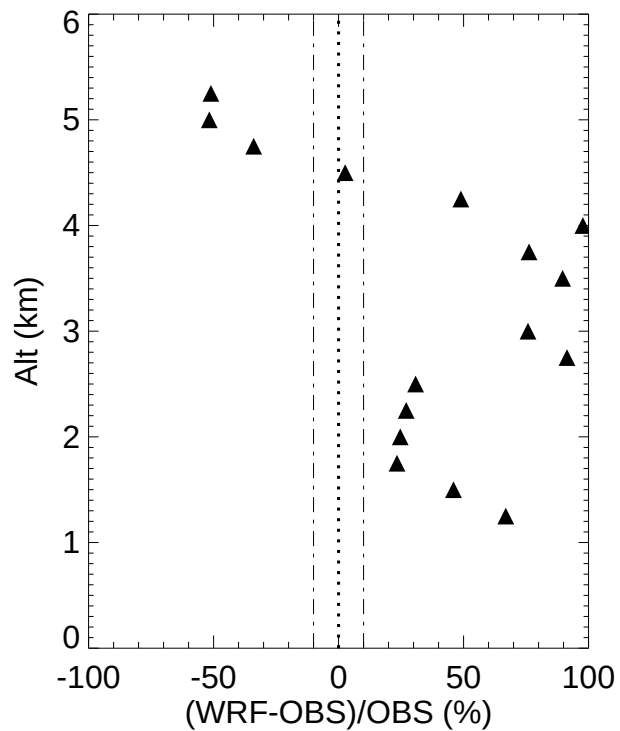
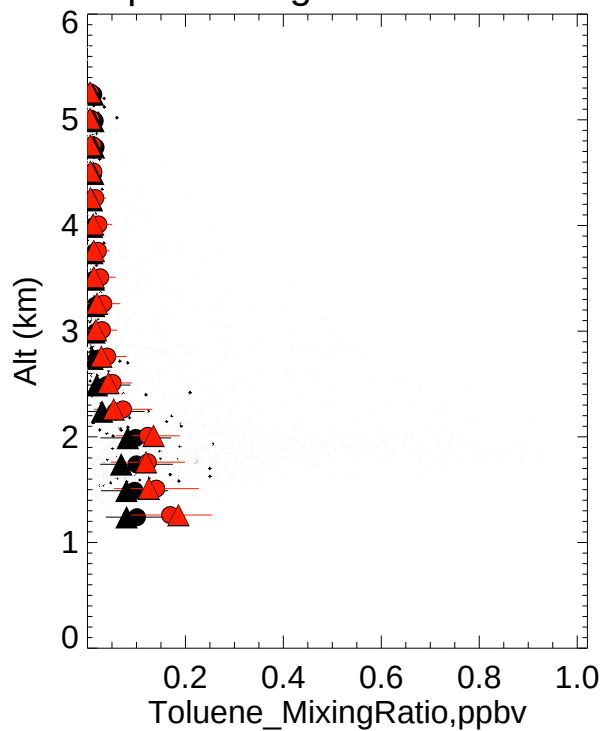
Model-Obs(%) TOLUENE,ppb, > 3 km



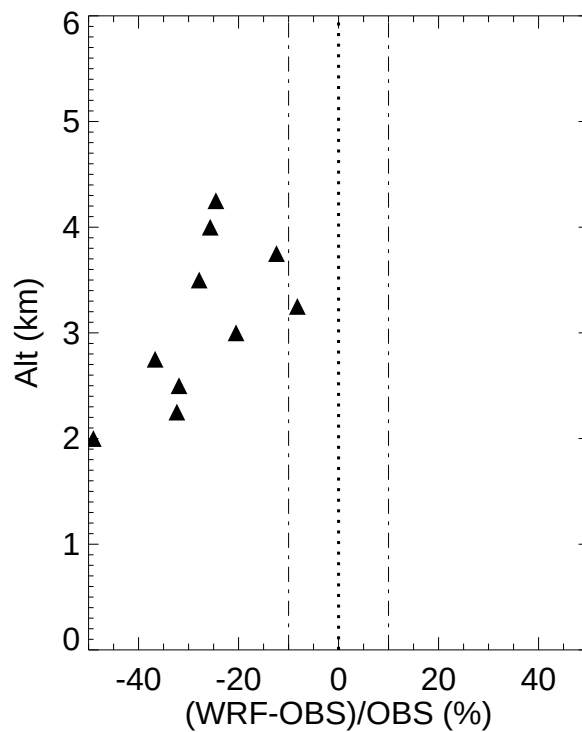
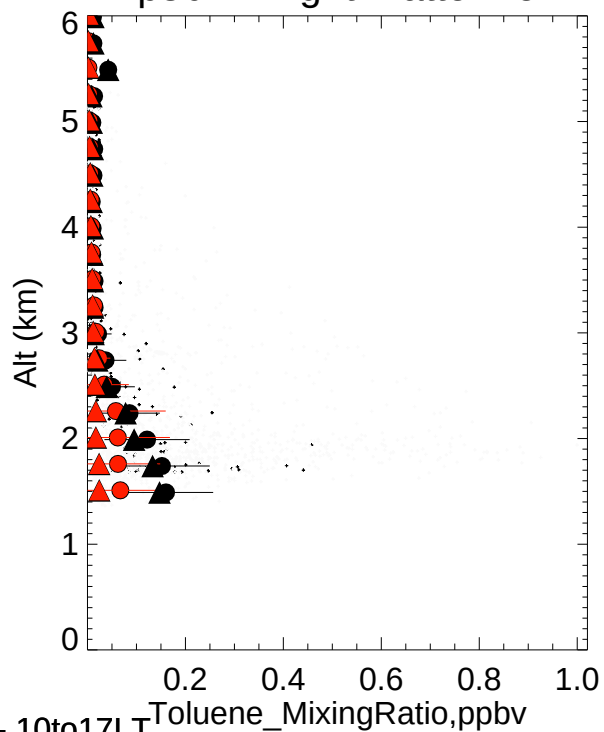
p3b All flight



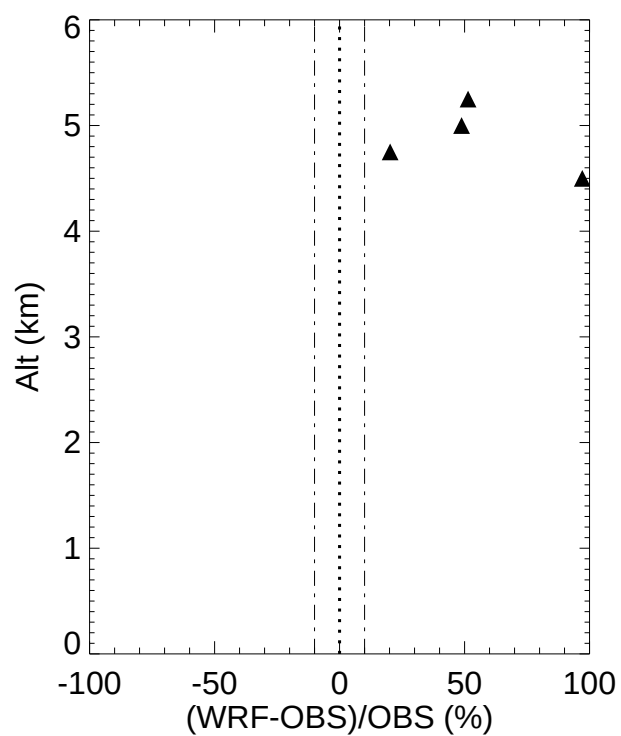
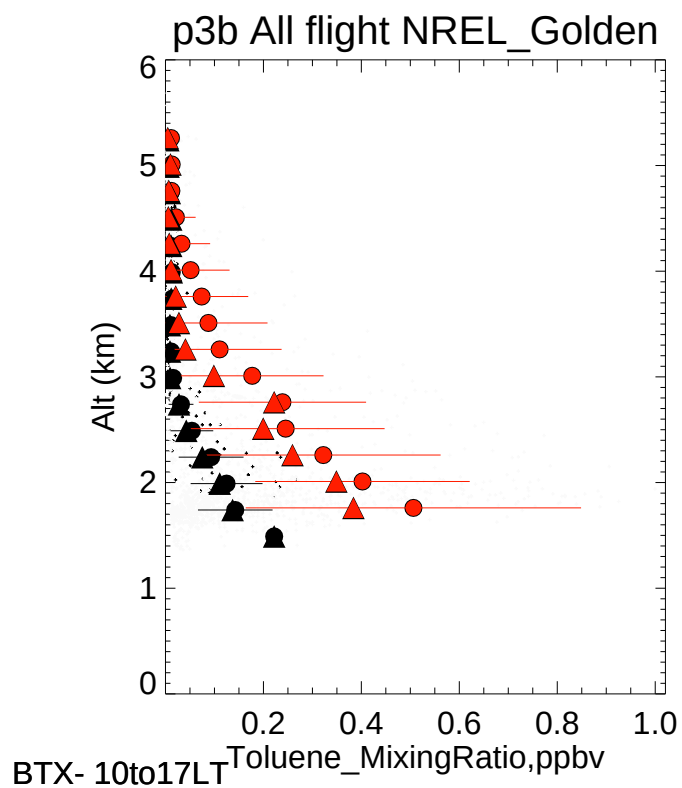
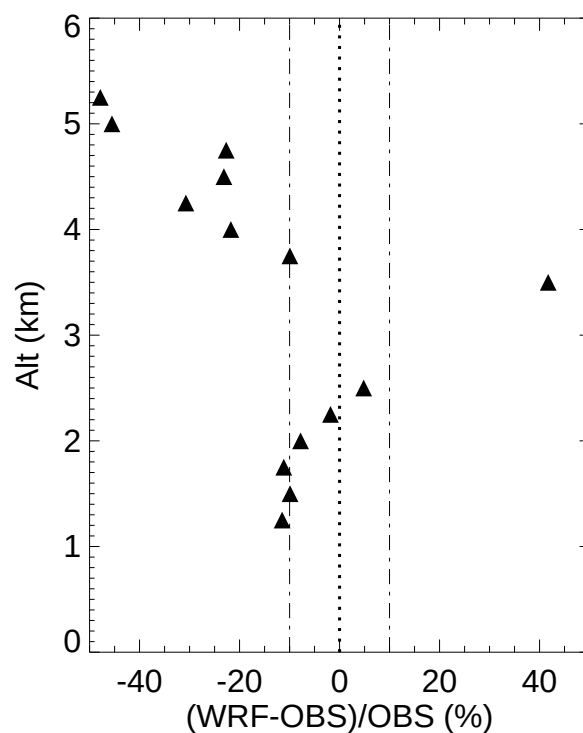
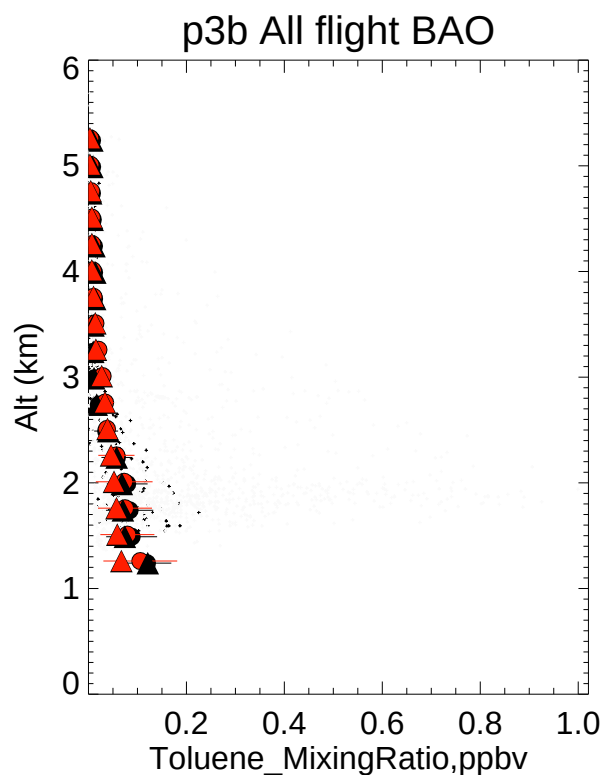
p3b All flight FortCollins



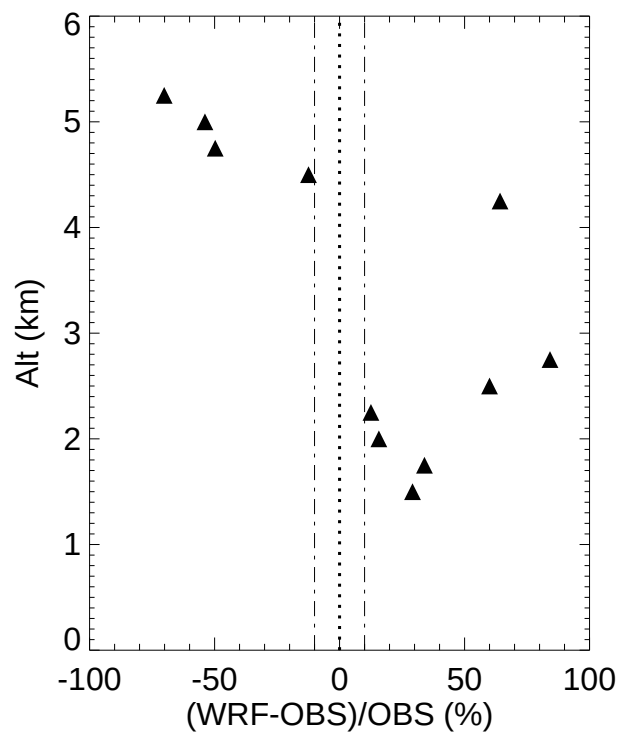
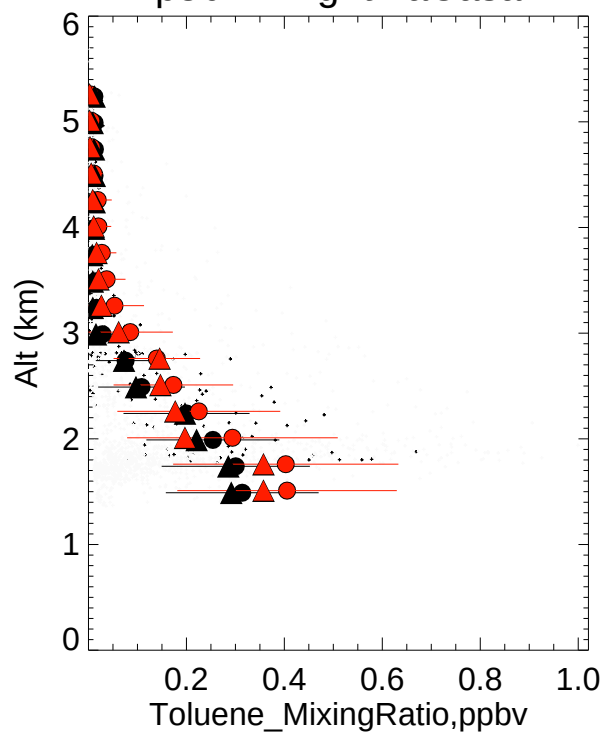
p3b All flight Platteville



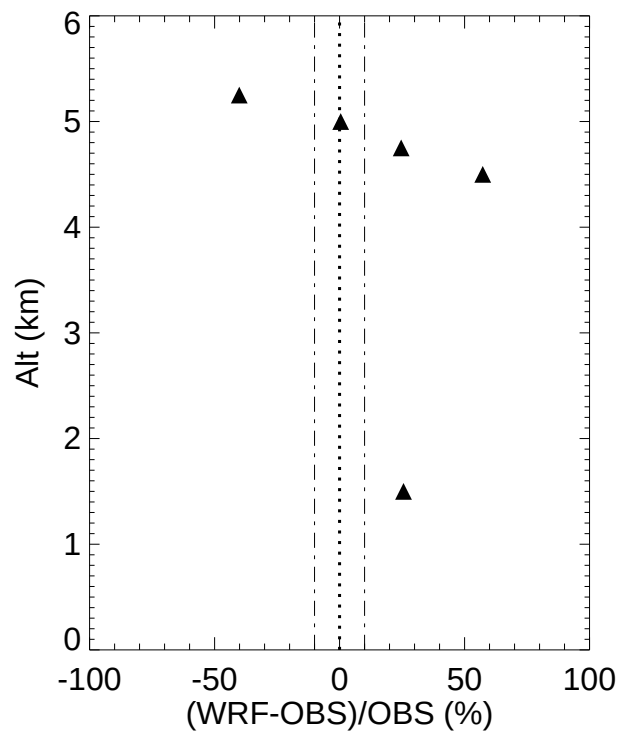
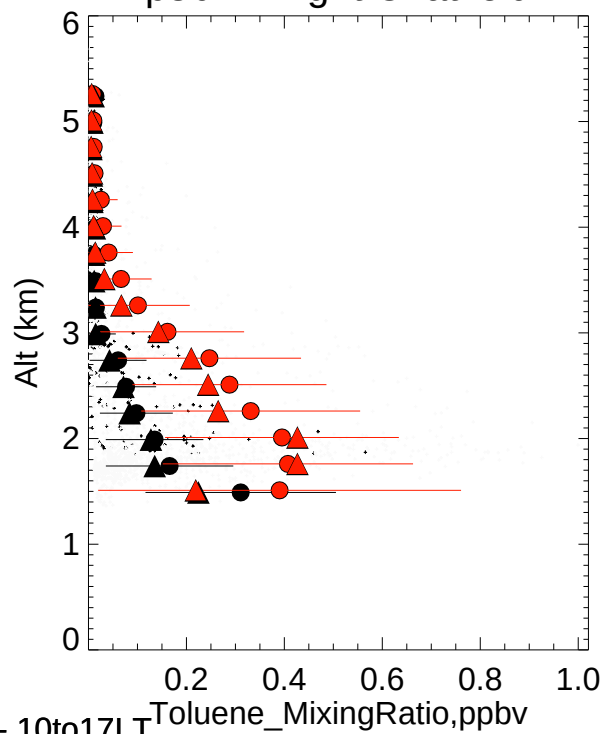
BTX- 10to17LT



p3b All flight LaCasa

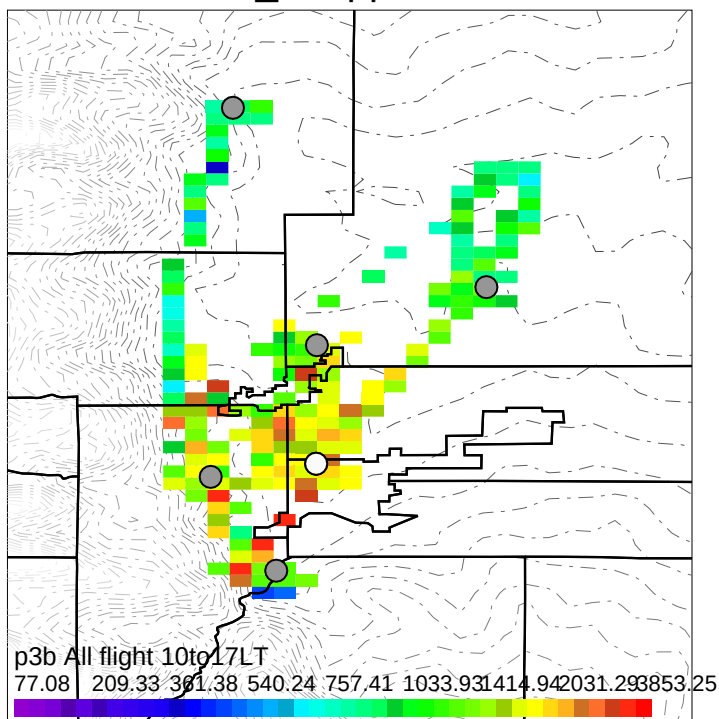


p3b All flight Chatfield

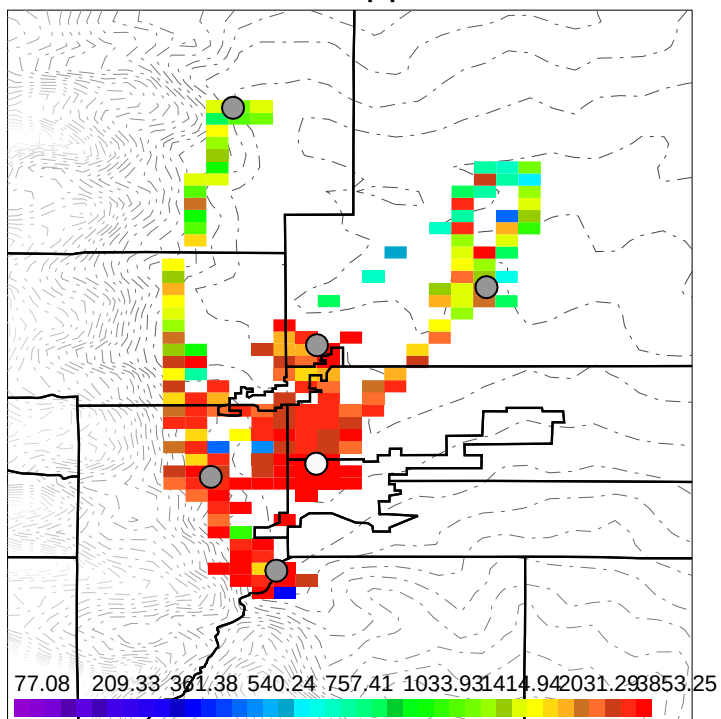


BTX- 10to17LT

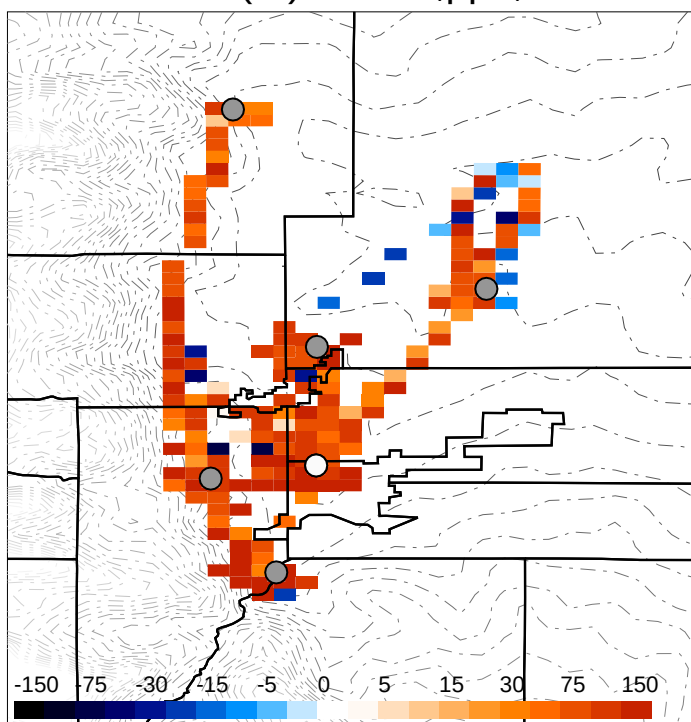
HNO₃_LIF,pptv < 3 km



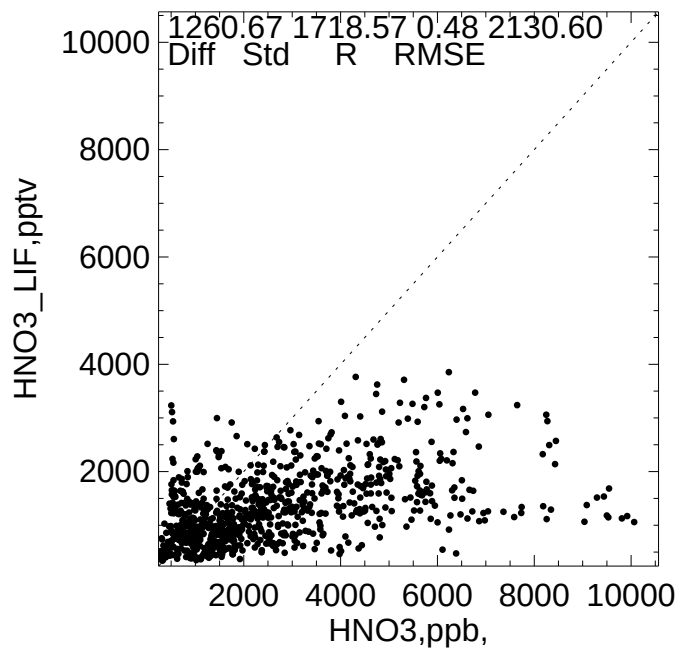
Model HNO₃,ppb, < 3 km



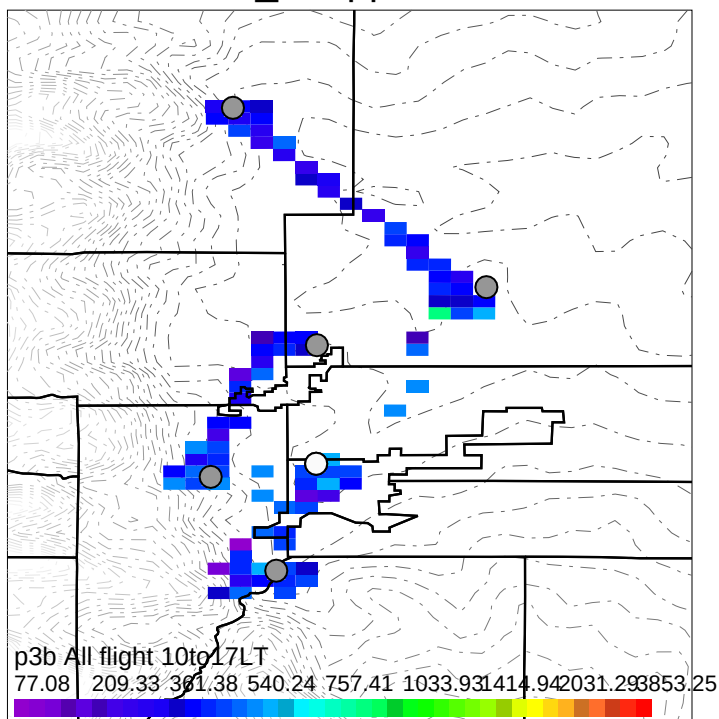
Model-Obs(%) HNO₃,ppb, < 3 km



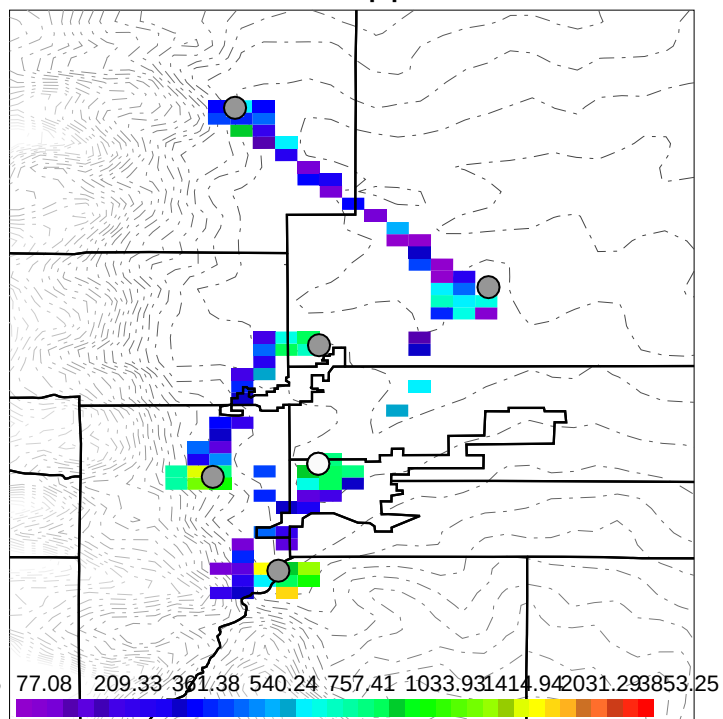
< 3 km



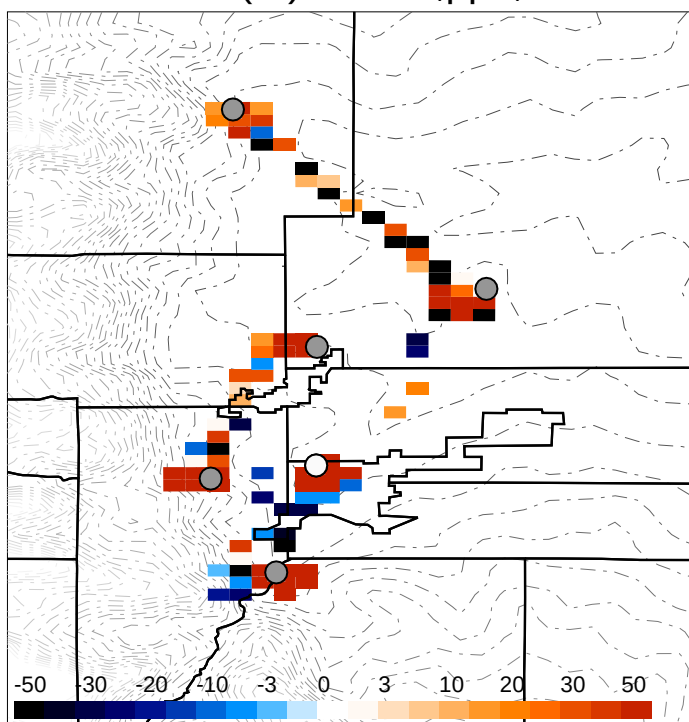
HNO3_LIF,pptv > 3 km



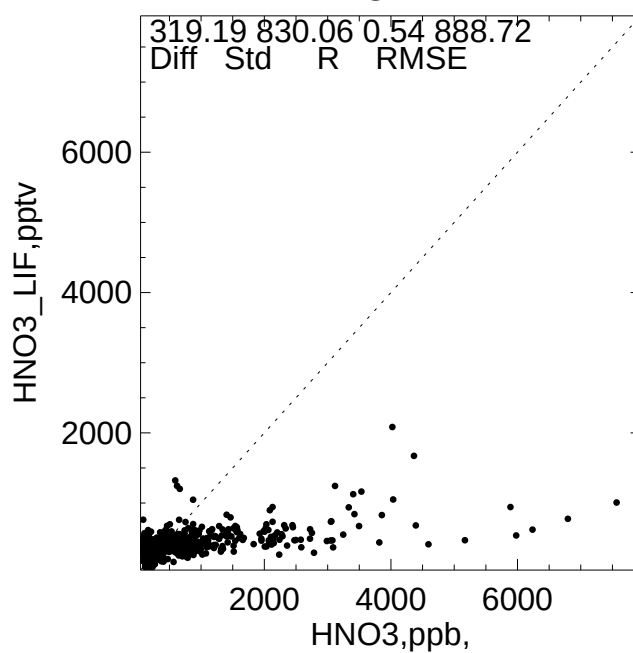
Model HNO3,ppb, > 3 km



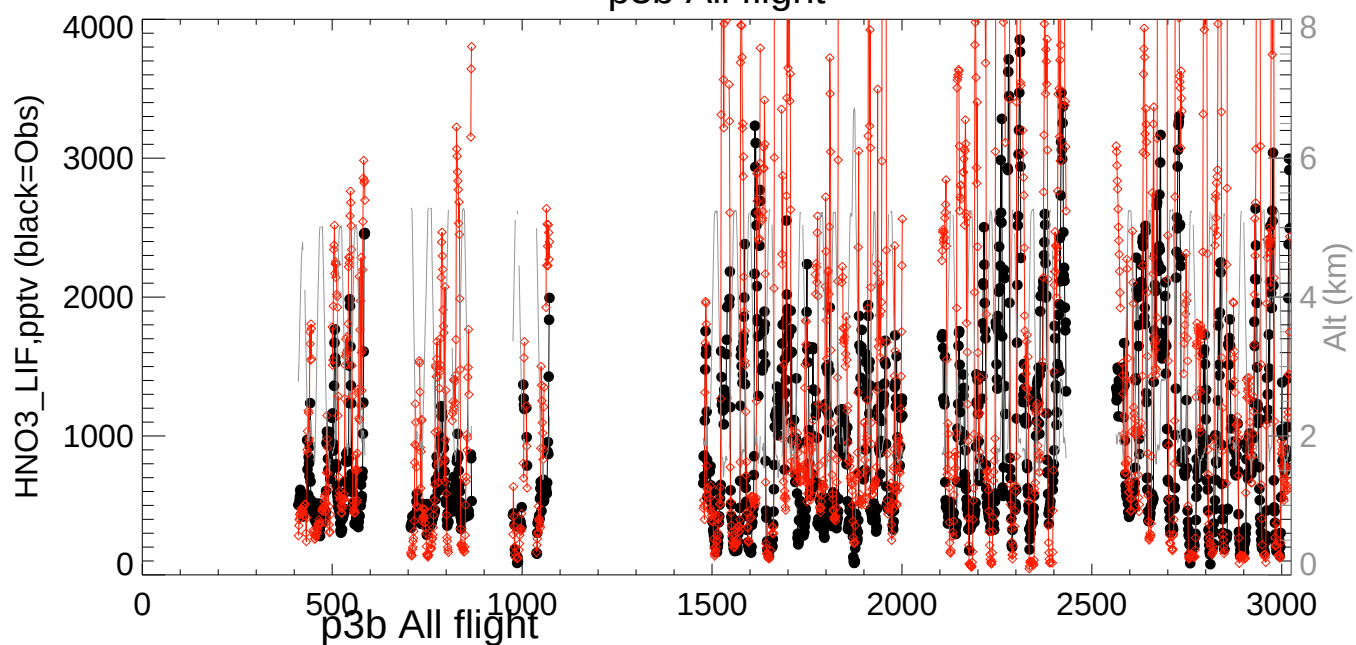
Model-Obs(%) HNO3,ppb, > 3 km



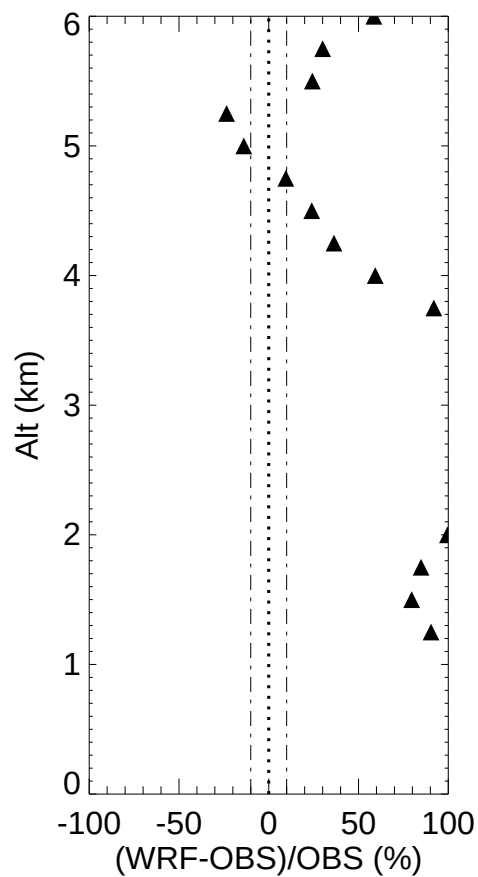
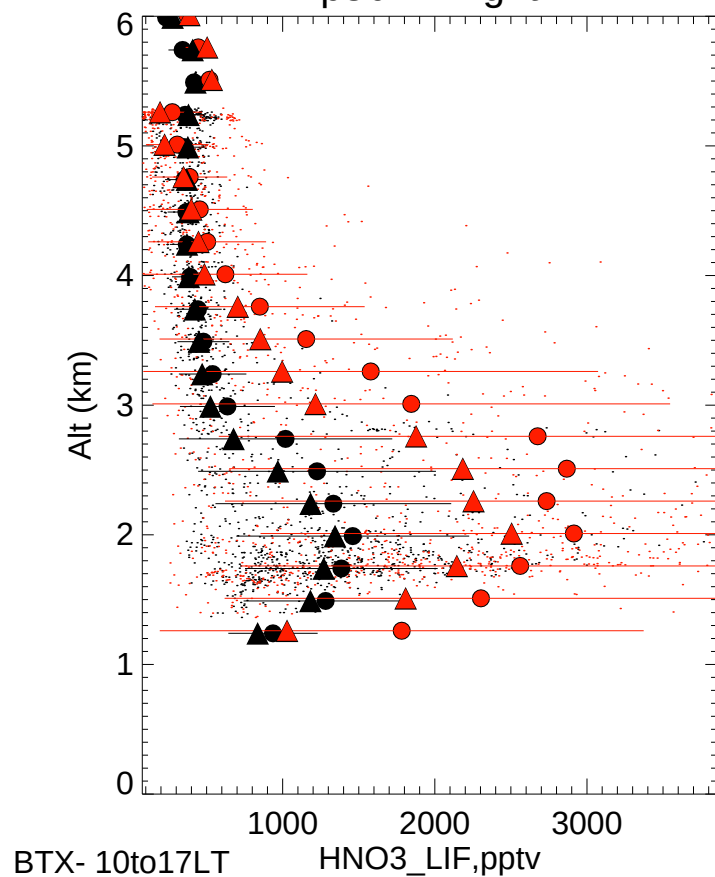
> 3 km



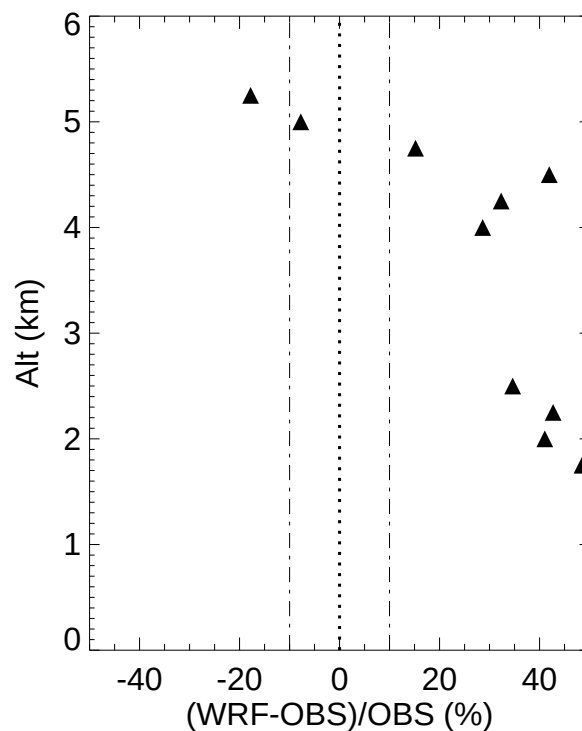
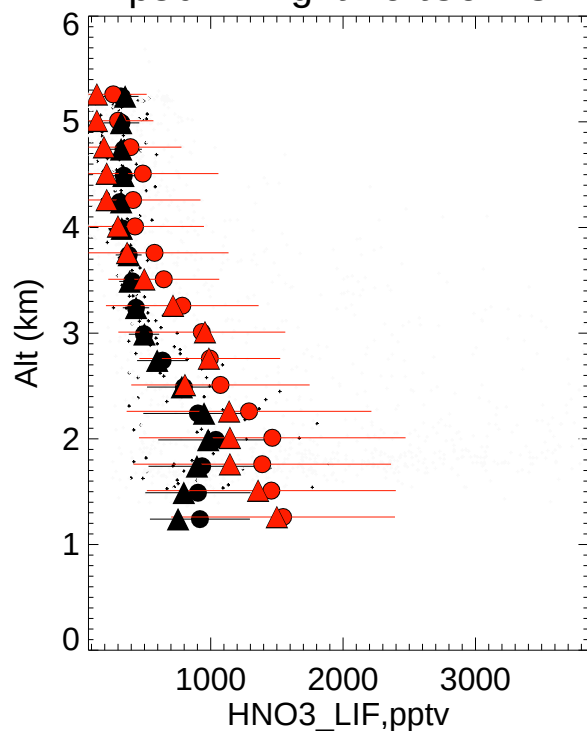
p3b All flight



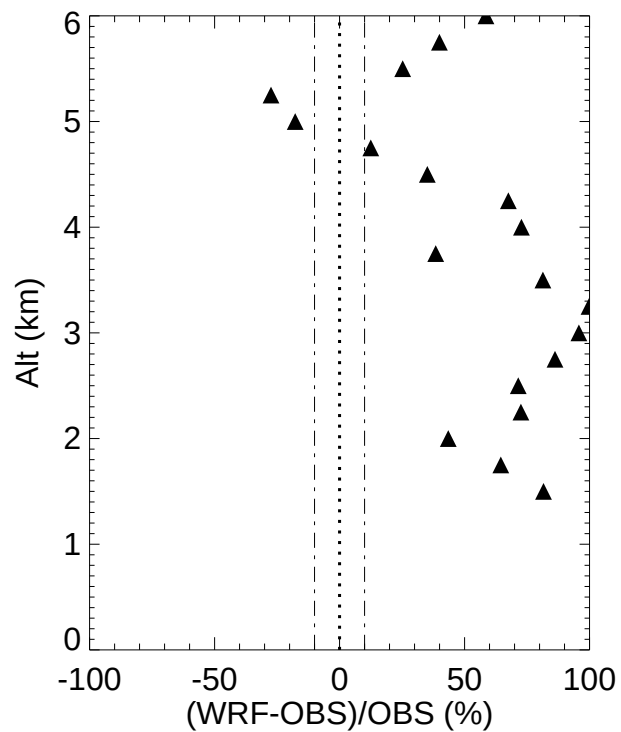
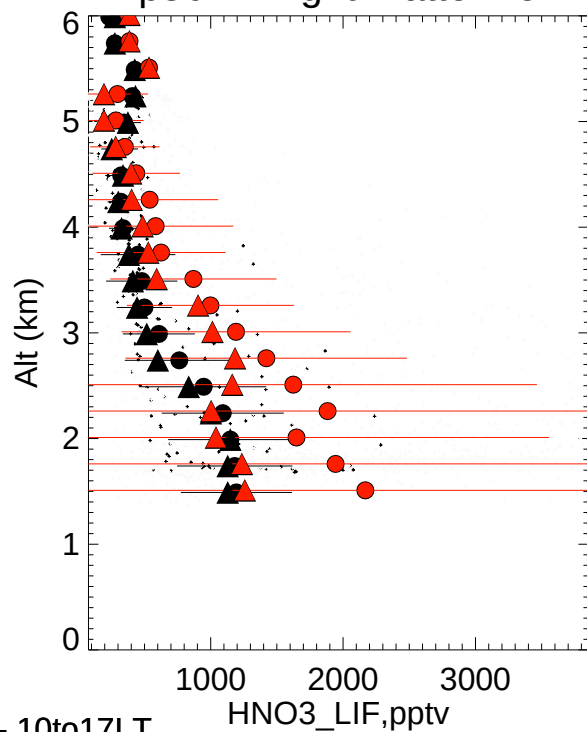
p3b All flight



p3b All flight FortCollins

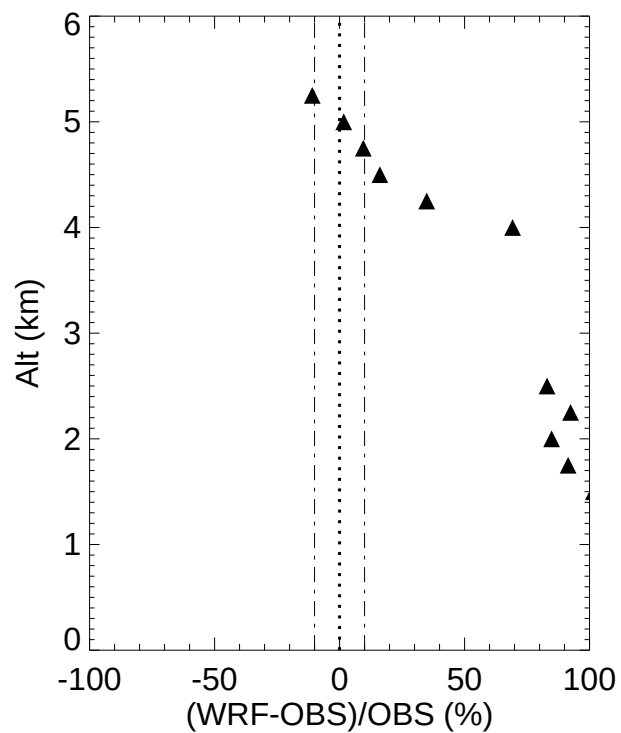
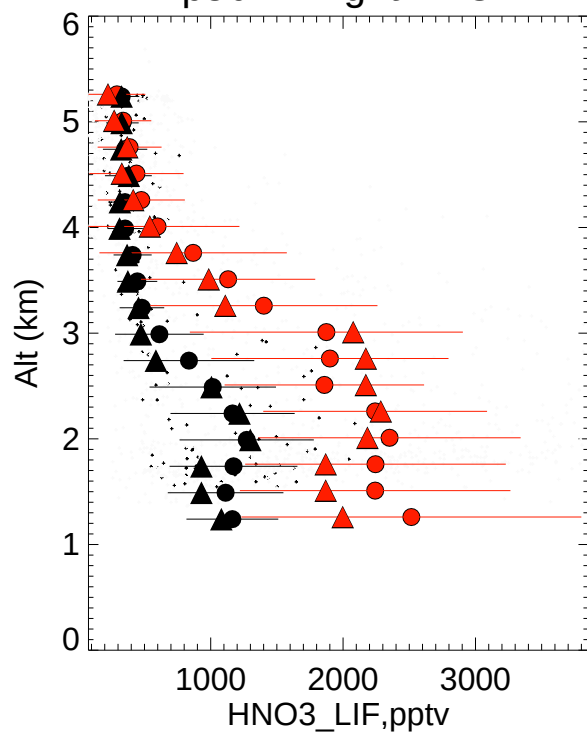


p3b All flight Platteville

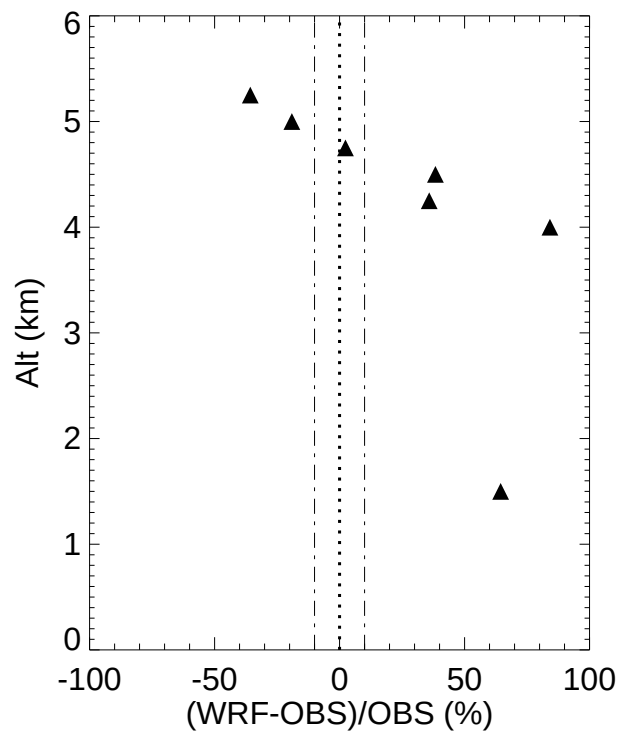
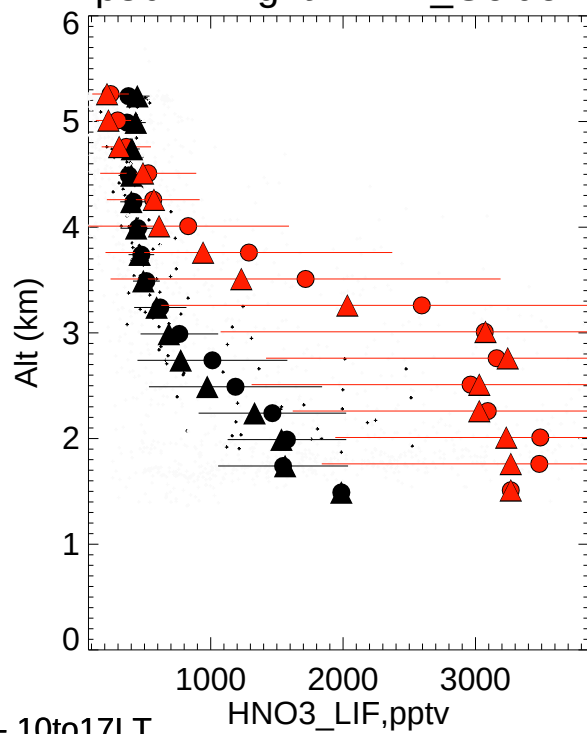


BTX- 10to17LT

p3b All flight BAO

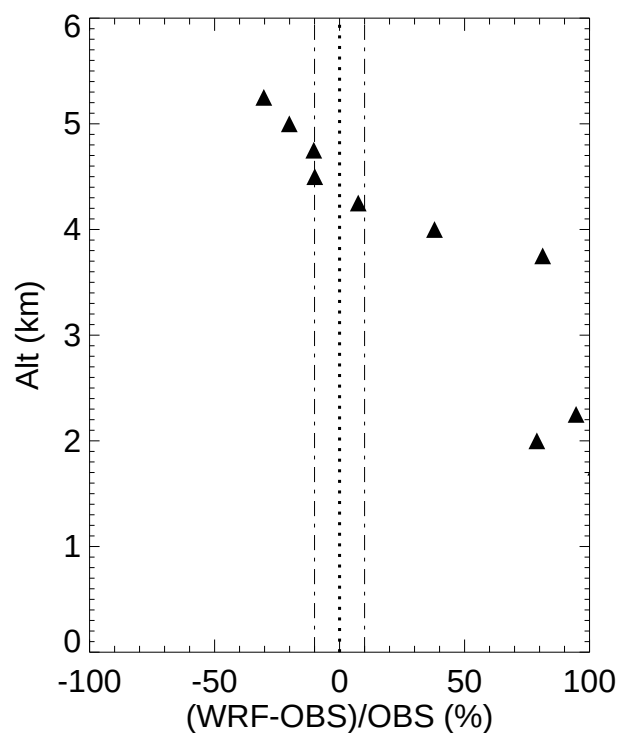
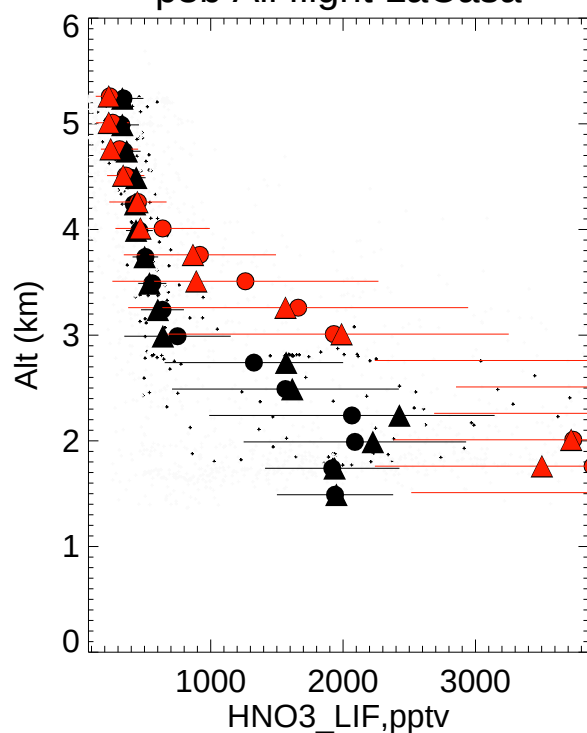


p3b All flight NREL_Golden

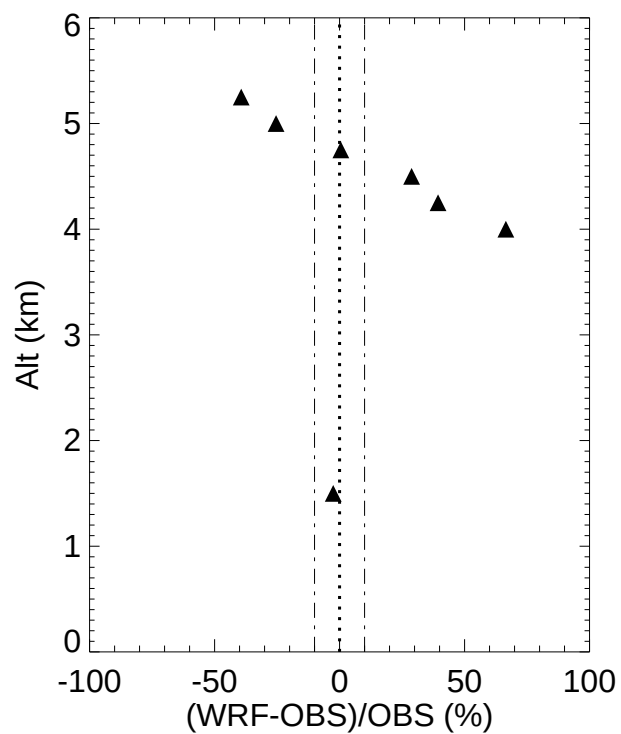
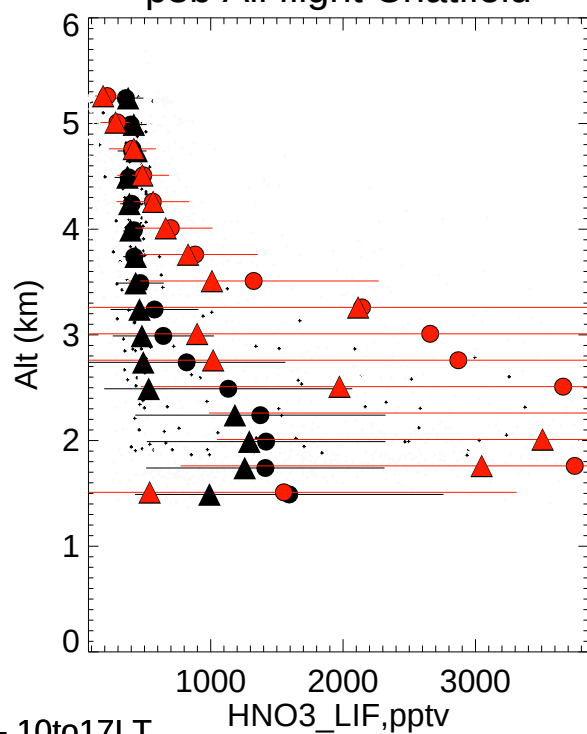


BTX- 10to17LT

p3b All flight LaCasa

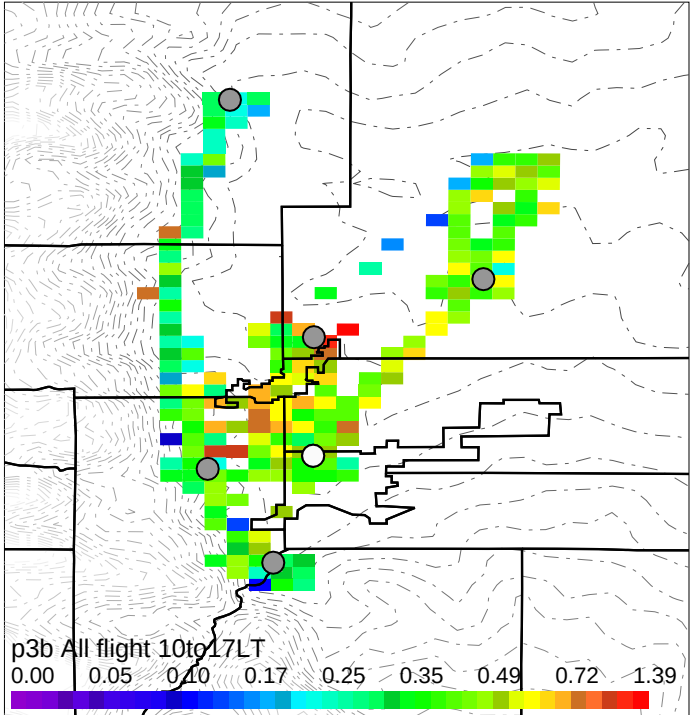


p3b All flight Chatfield

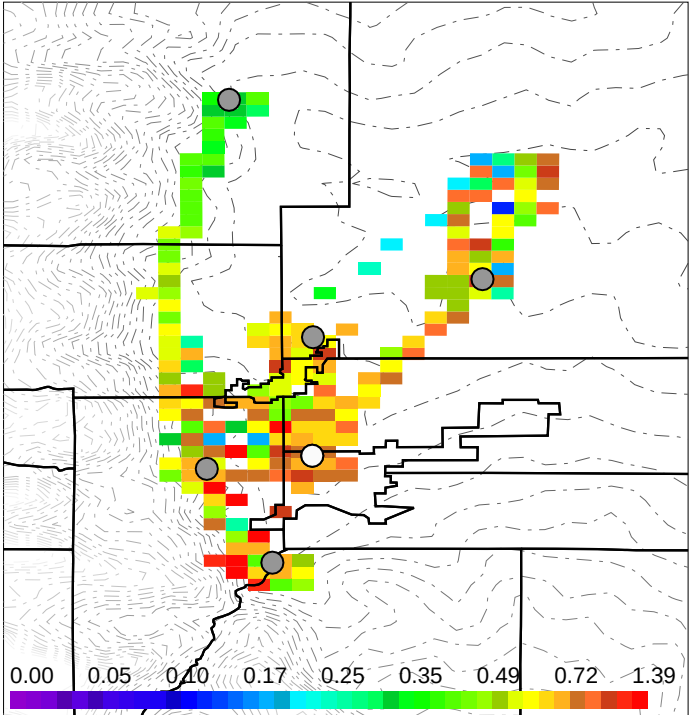


BTX- 10to17LT

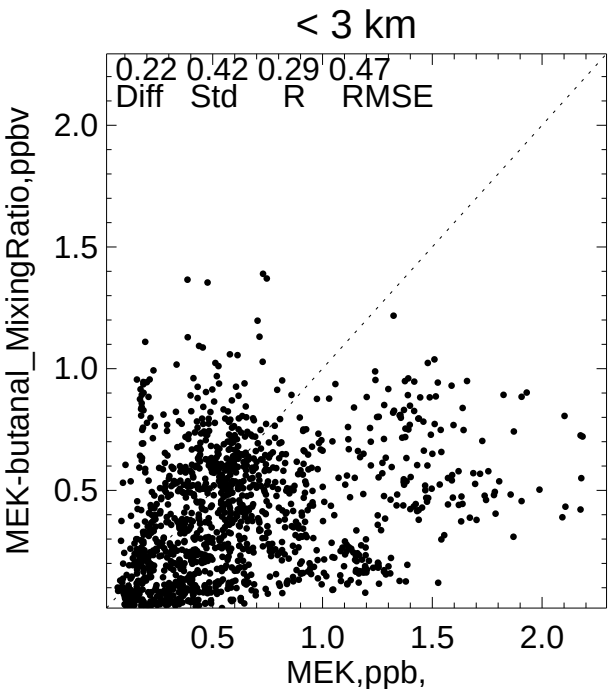
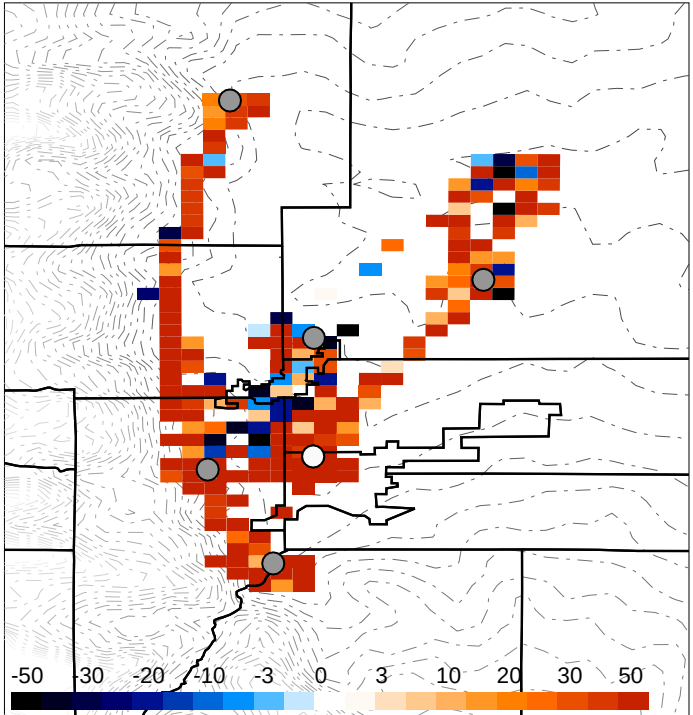
MEK-butanal_MixingRatio,ppbv < 3 km



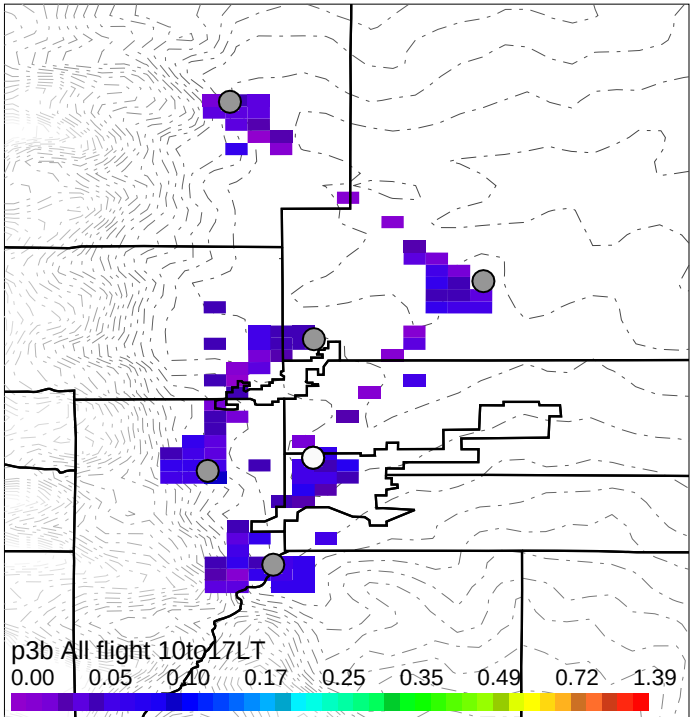
Model MEK,ppb, < 3 km



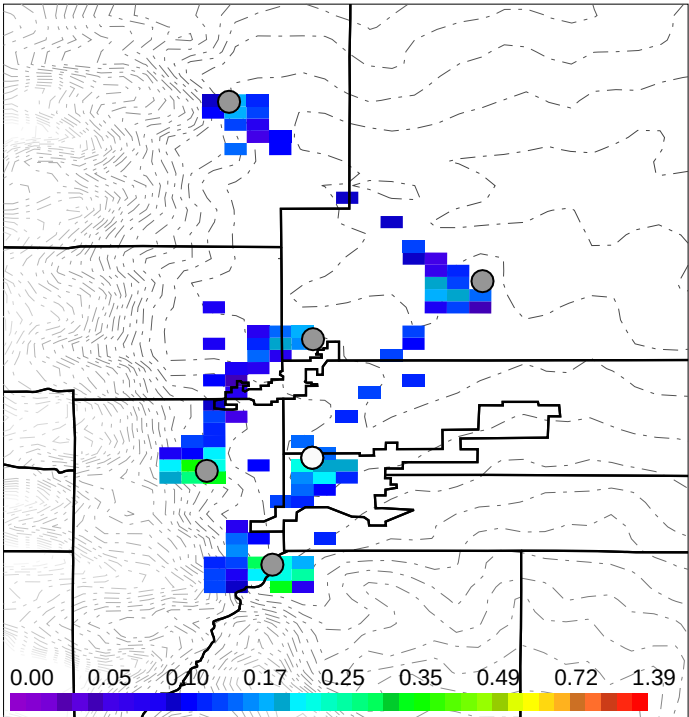
Model-Obs(%) MEK,ppb, < 3 km



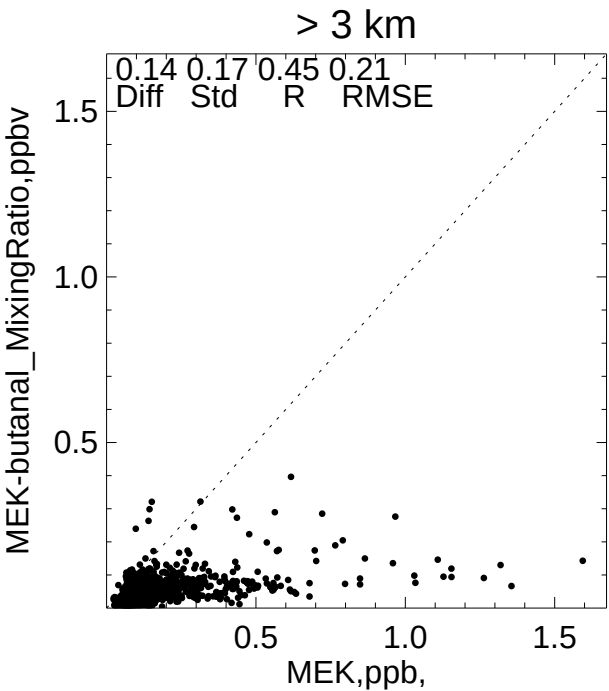
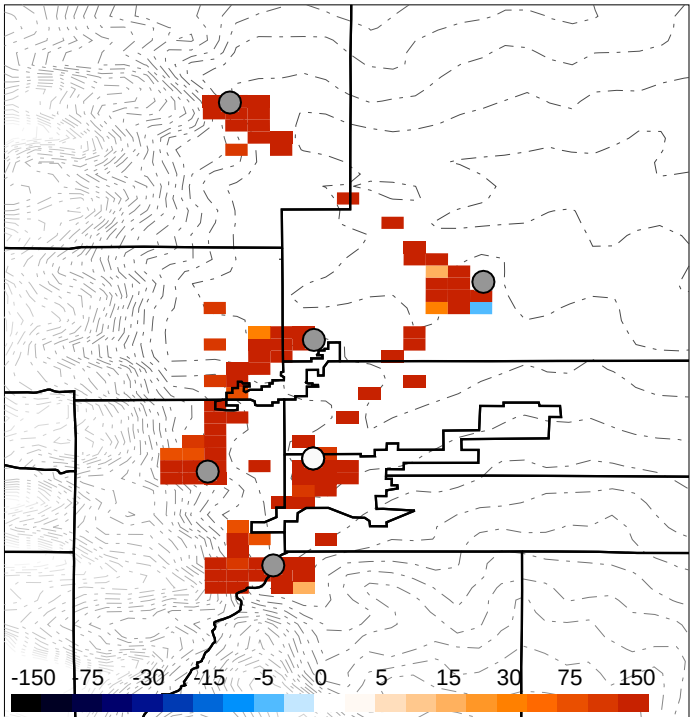
MEK-butanal_MixingRatio,ppbv > 3 km

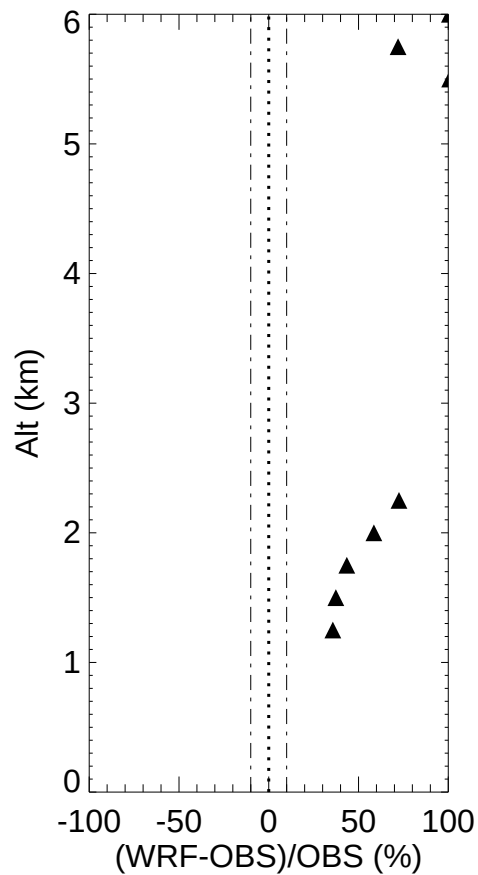
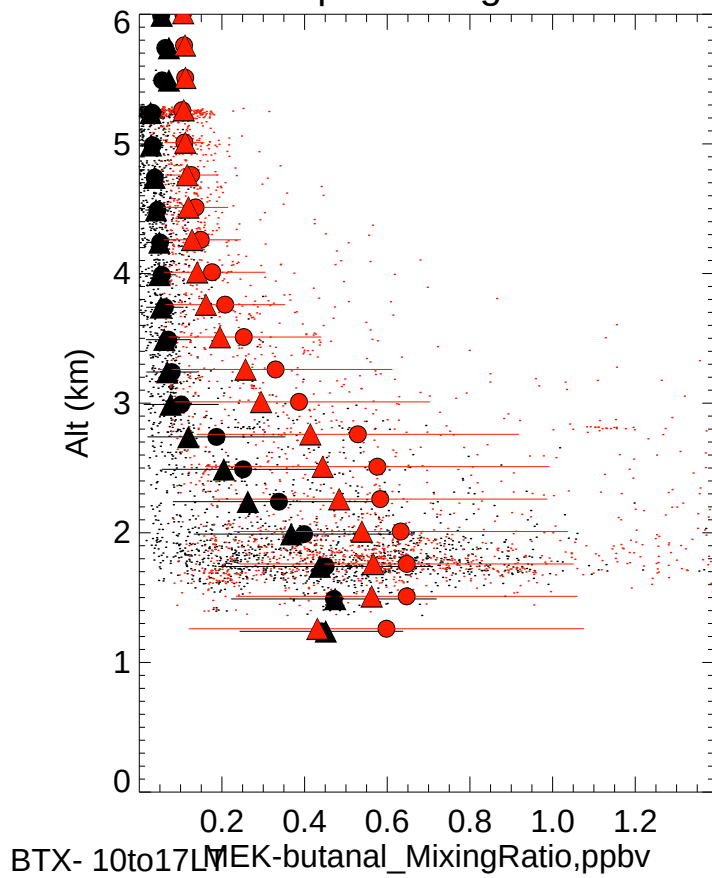
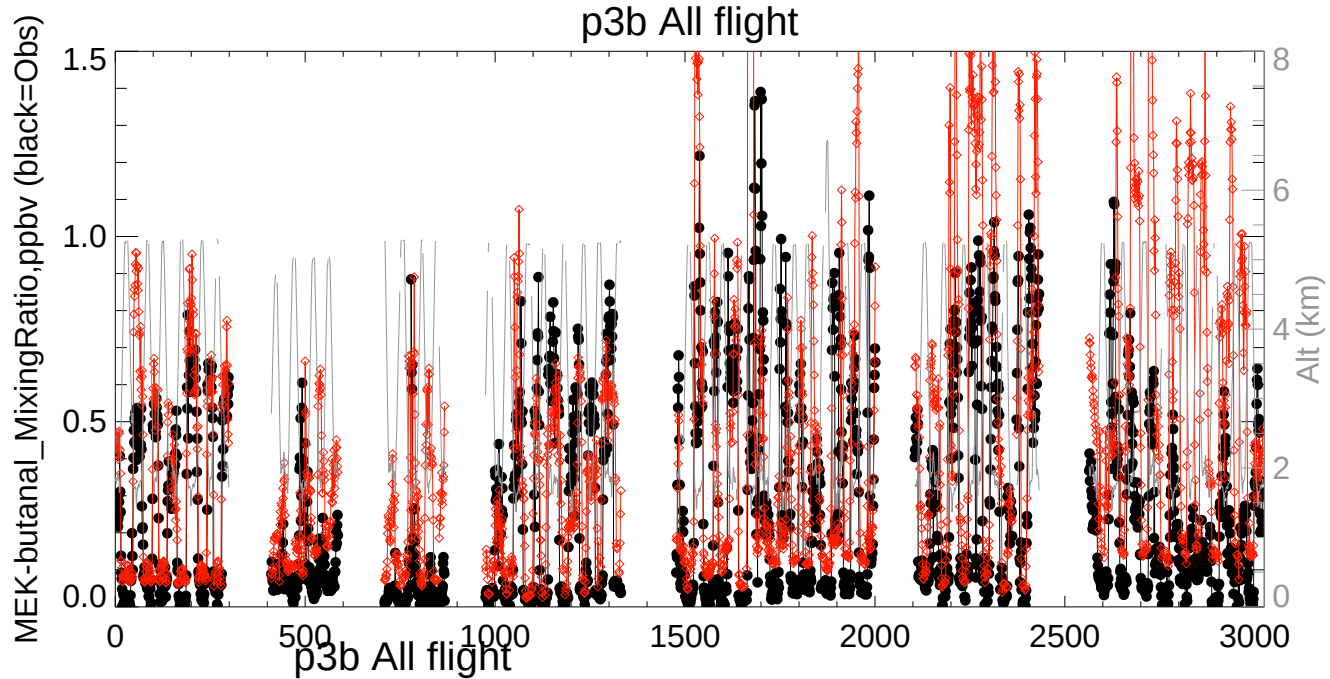


Model MEK,ppb, > 3 km

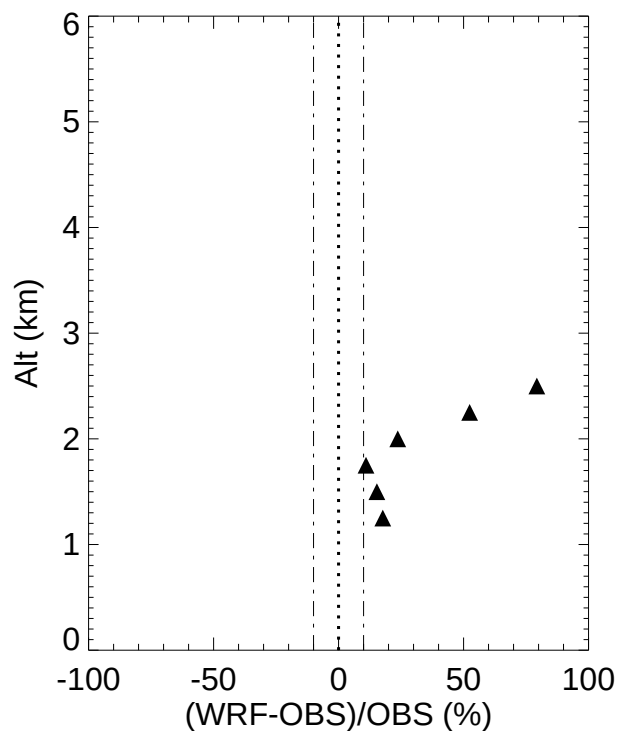
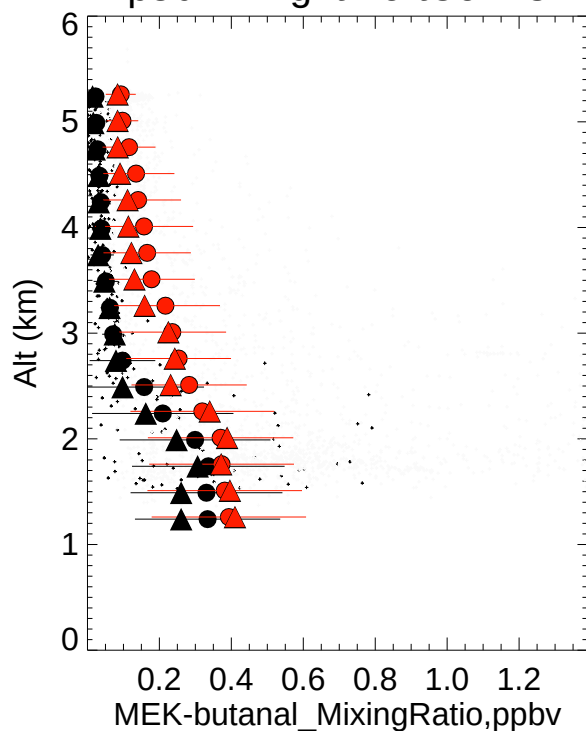


Model-Obs(%) MEK,ppb, > 3 km

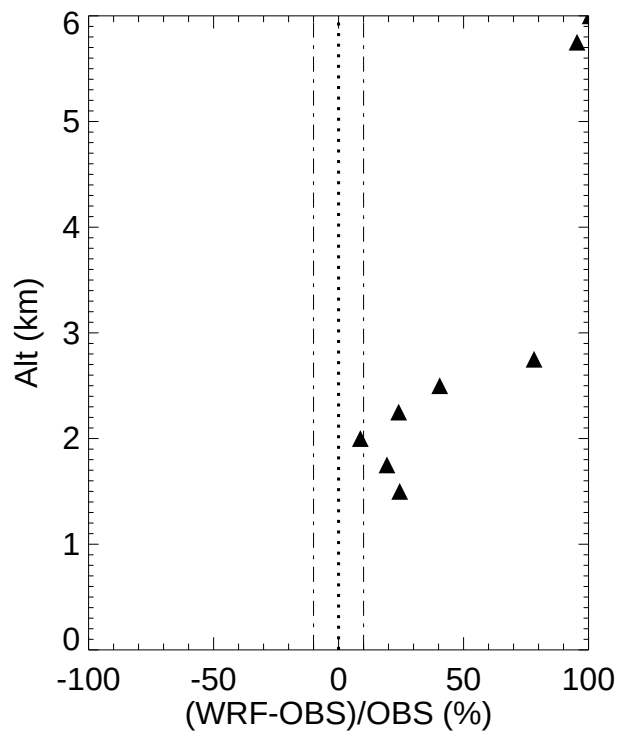
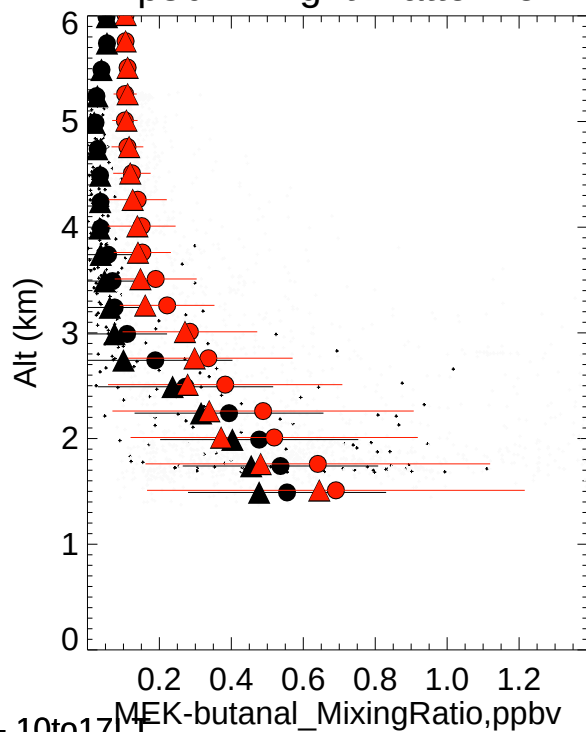


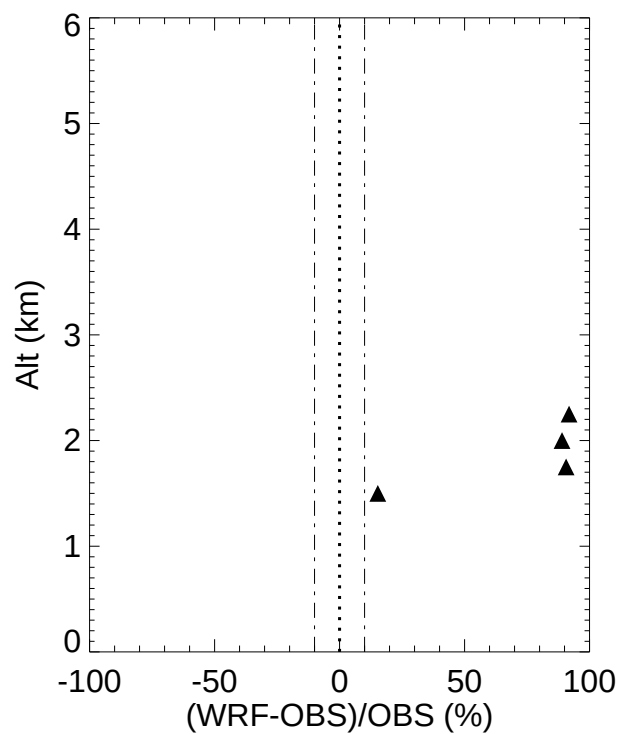
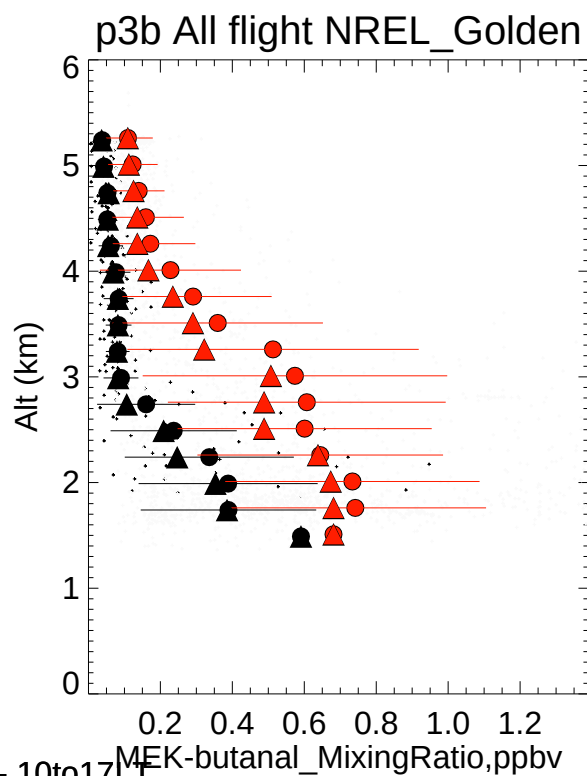
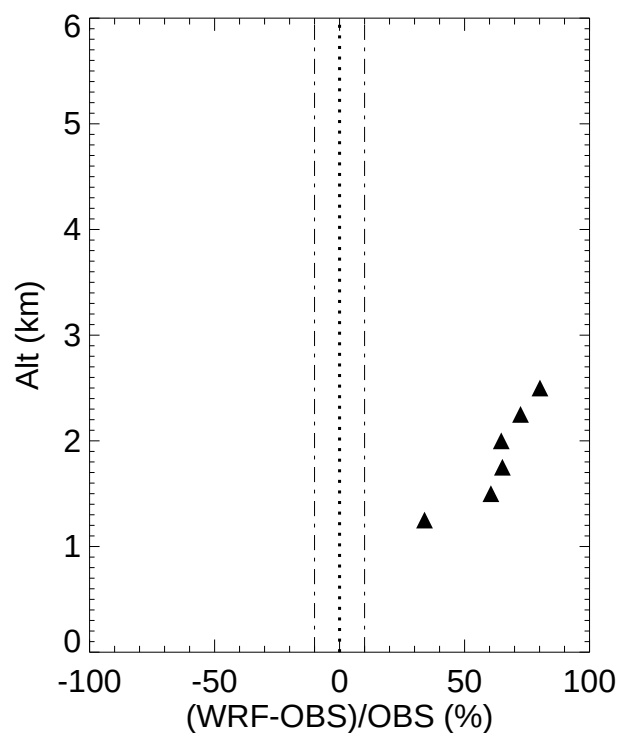
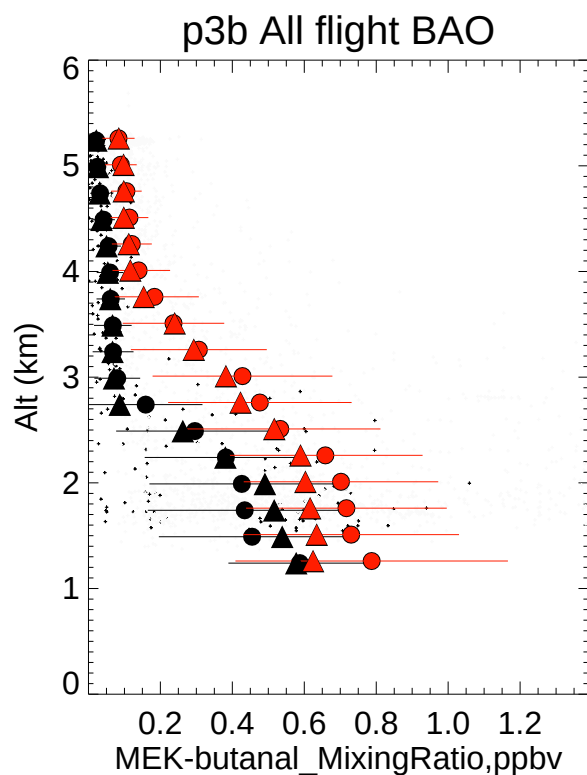


p3b All flight FortCollins

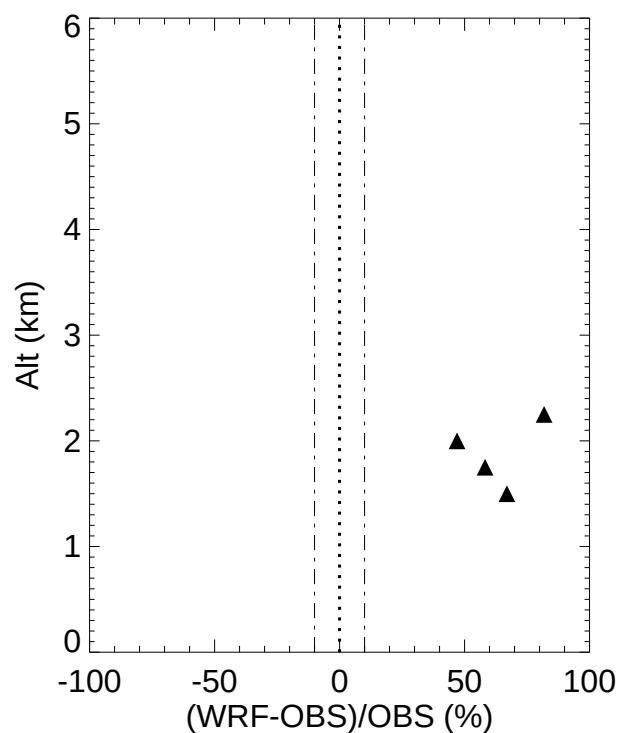
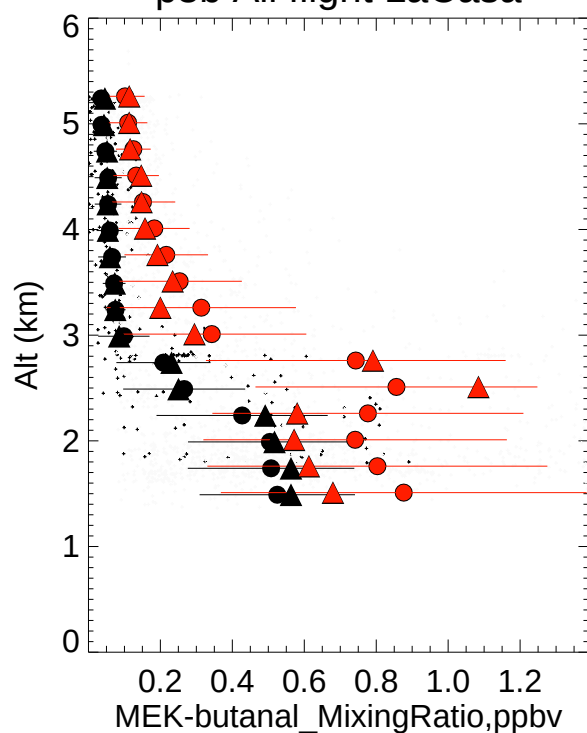


p3b All flight Platteville

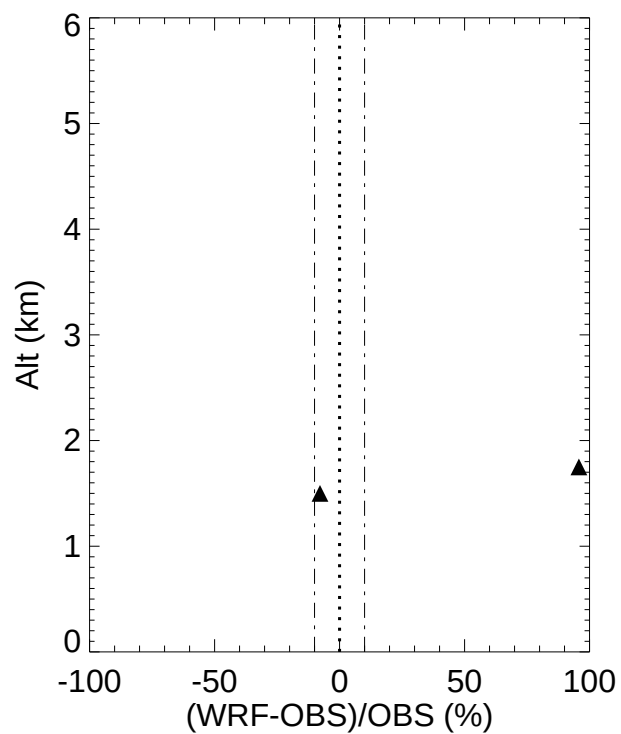
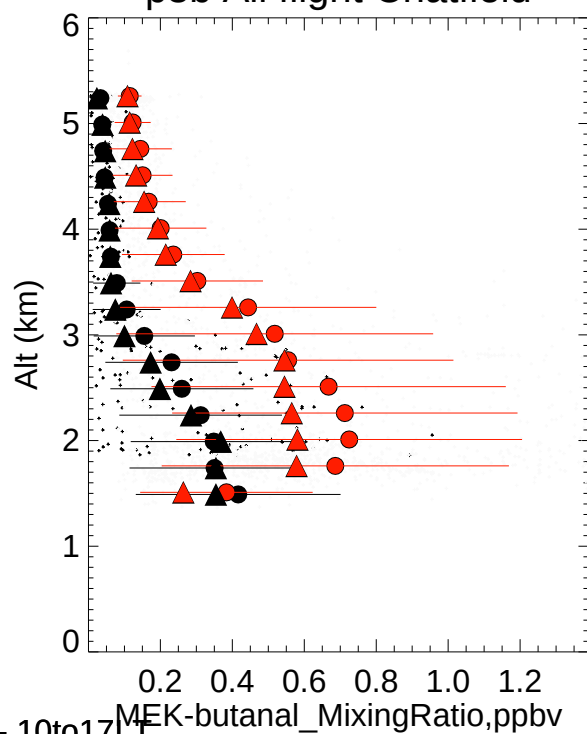




p3b All flight LaCasa

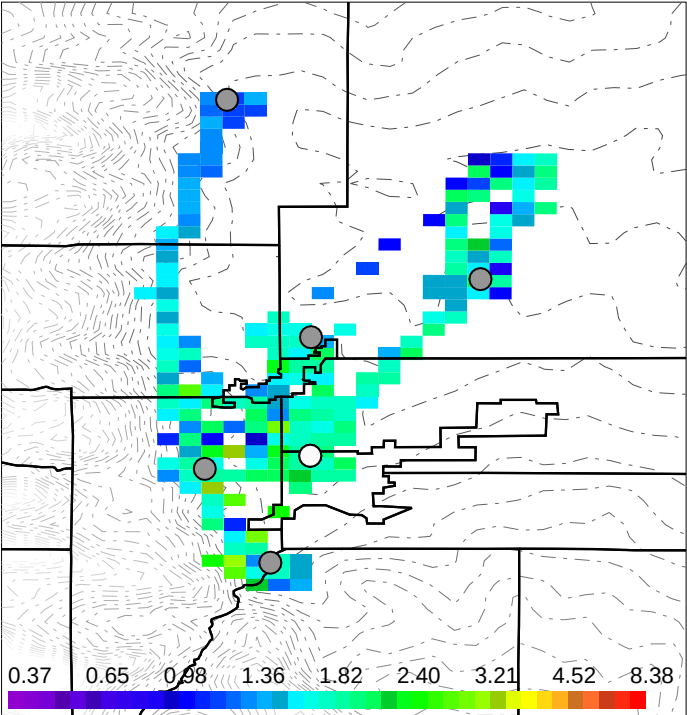
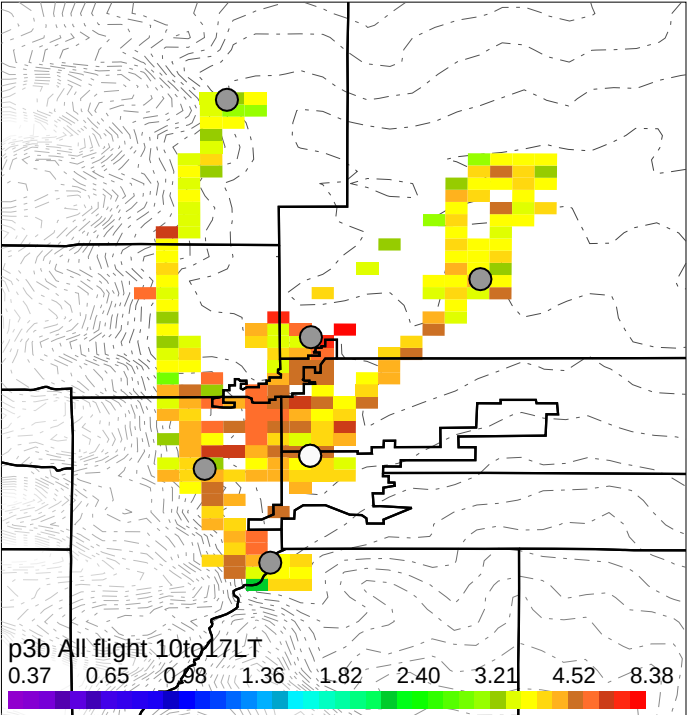


p3b All flight Chatfield

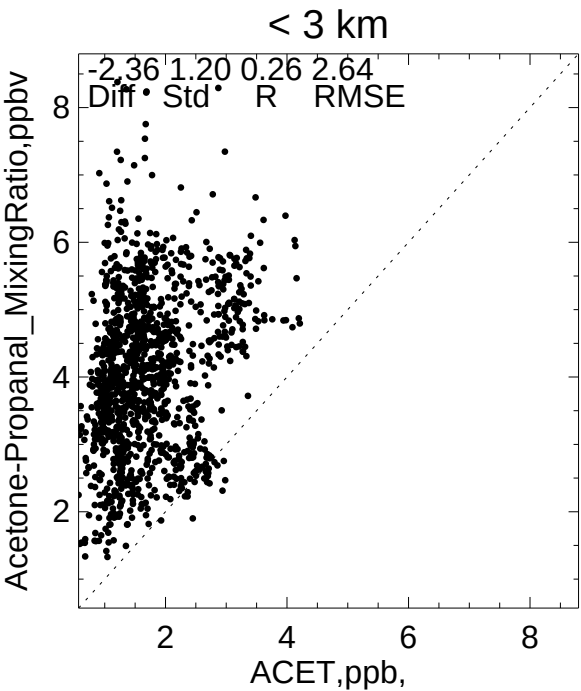
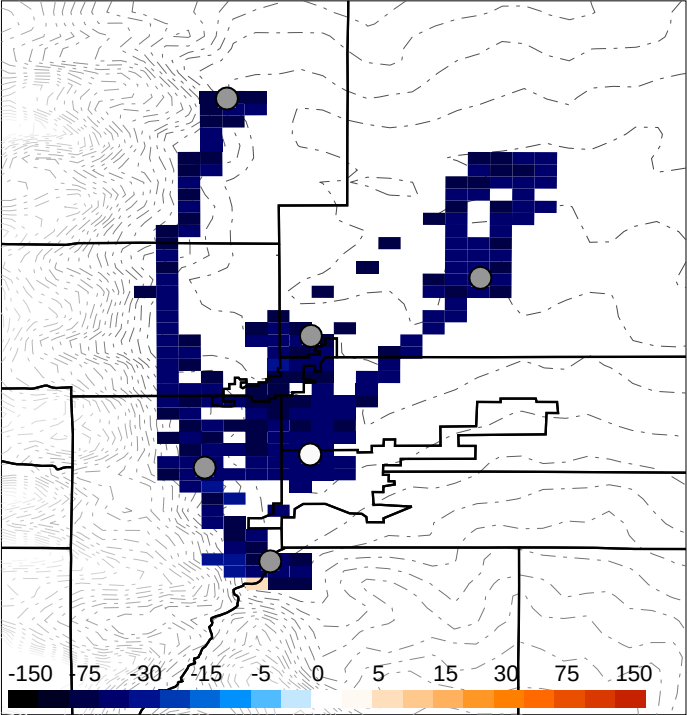


Acetone-Propanal_MixingRatio,ppbv < 3 km

Model ACET,ppb, < 3 km

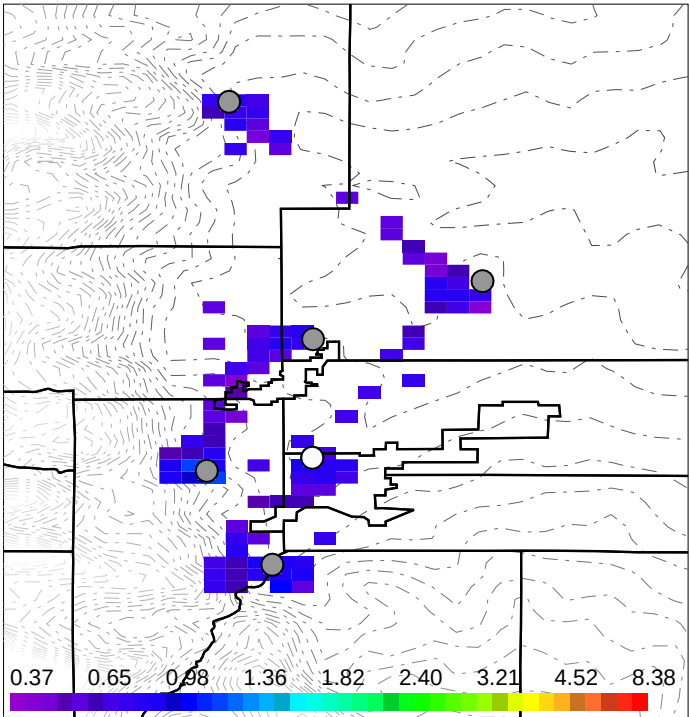
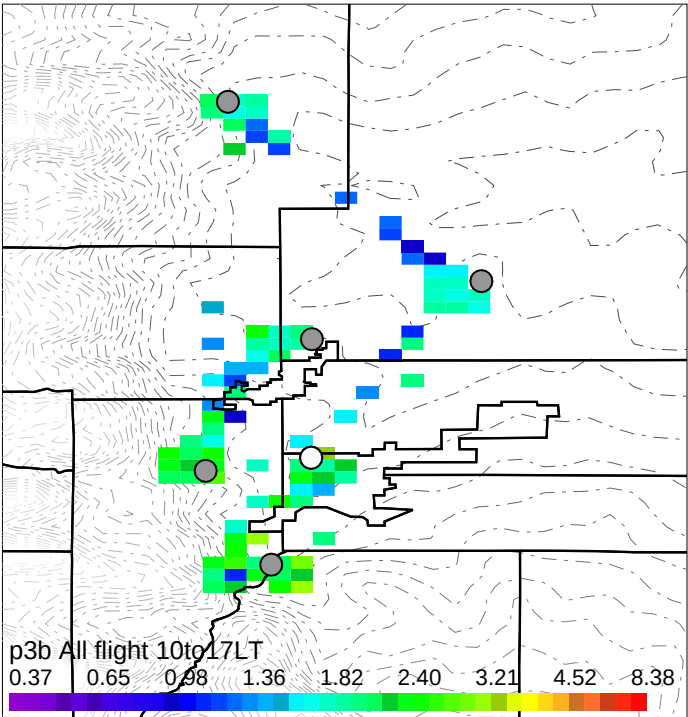


Model-Obs(%) ACET,ppb, < 3 km

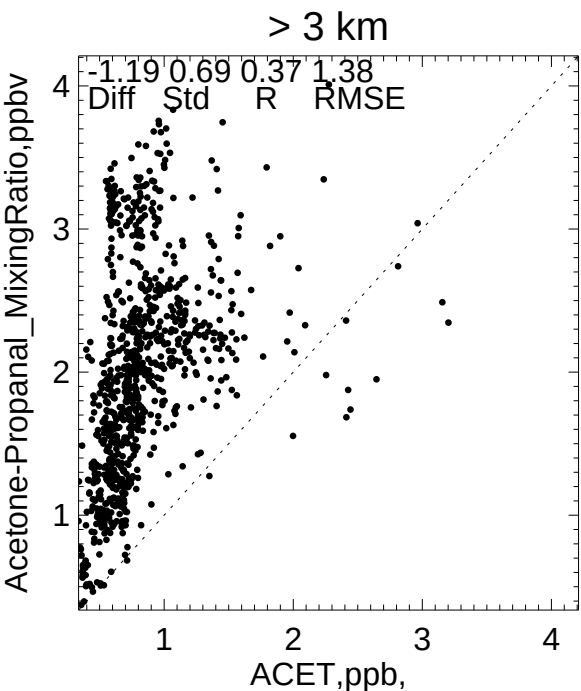
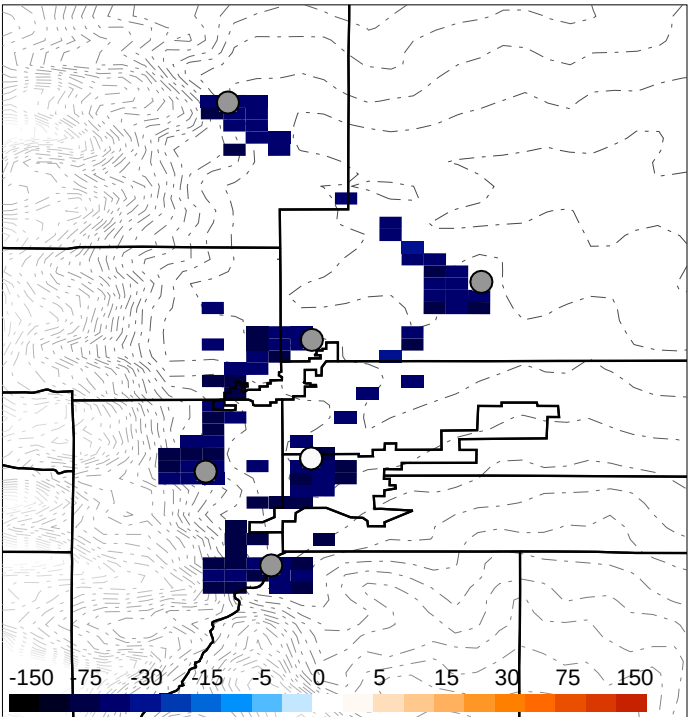


Acetone-Propanal_MixingRatio,ppbv > 3 km

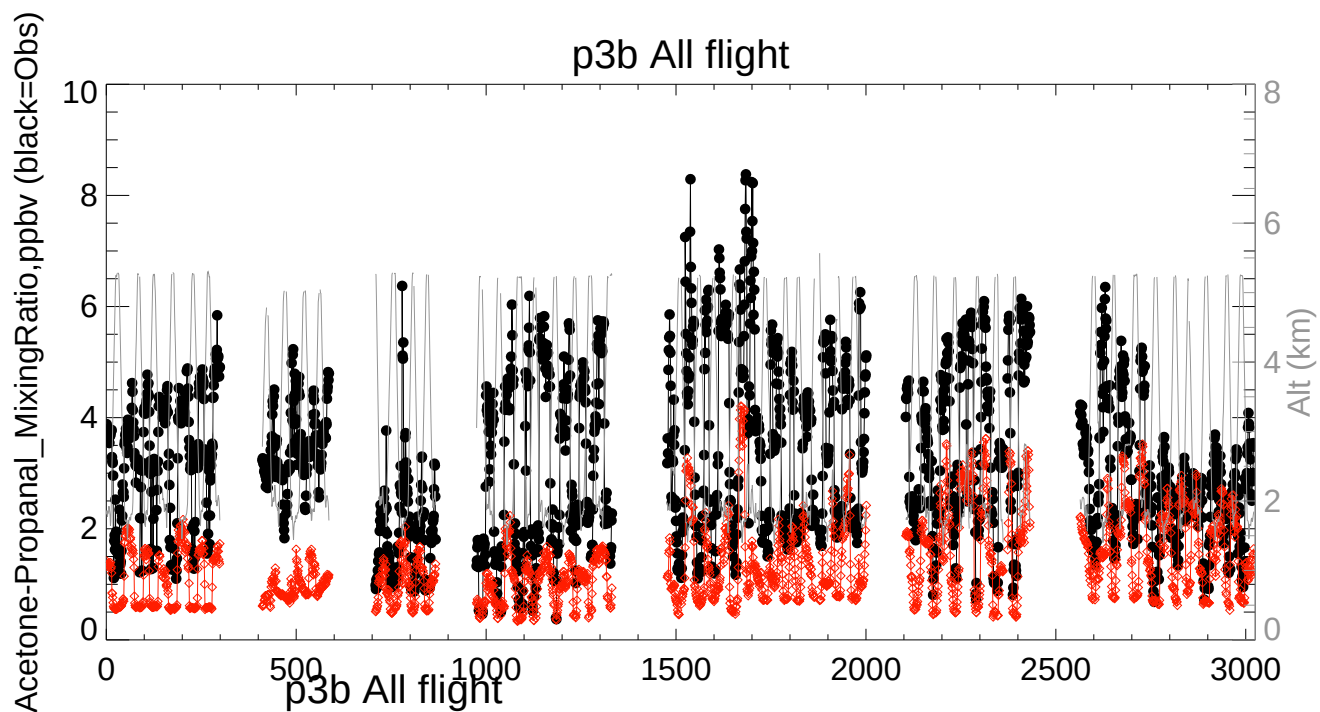
Model ACET,ppb, > 3 km



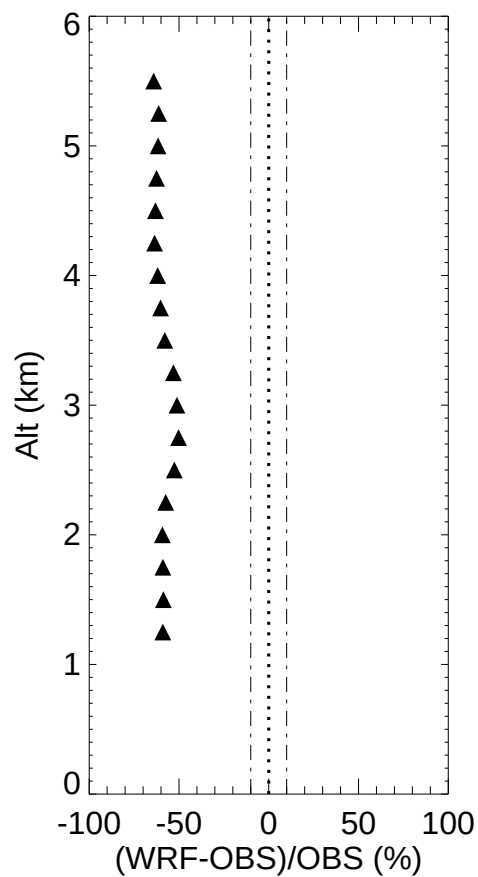
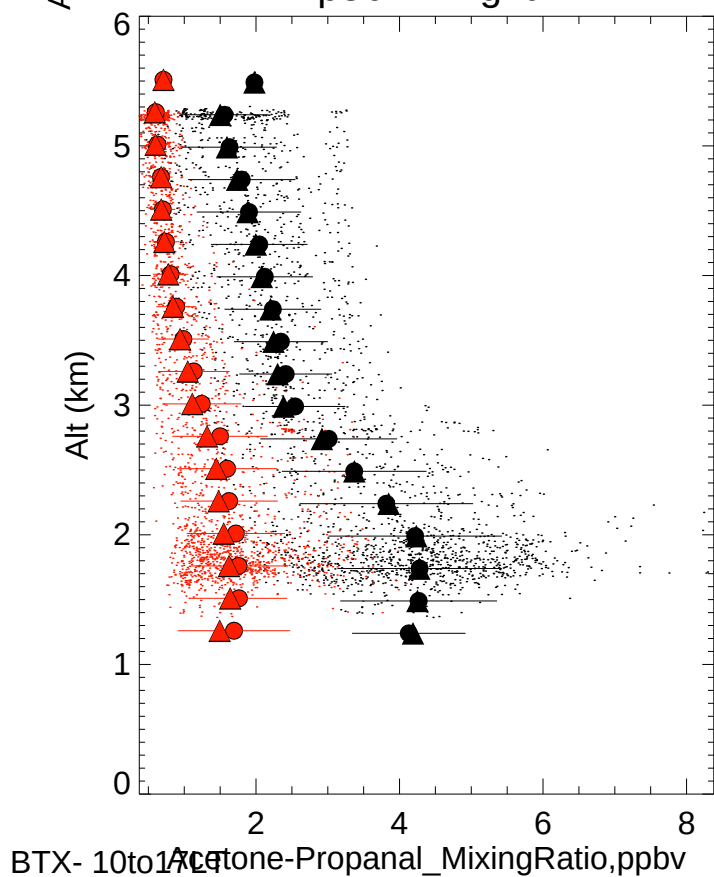
Model-Obs(%) ACET,ppb, > 3 km



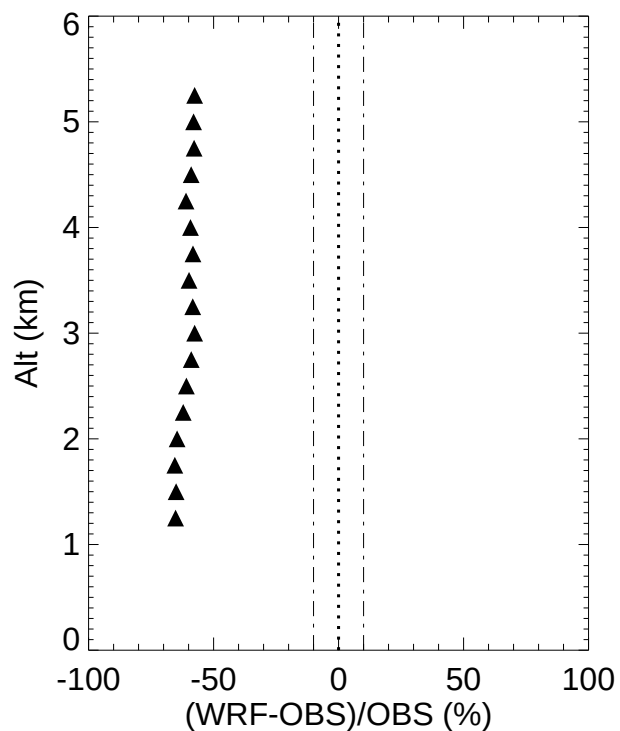
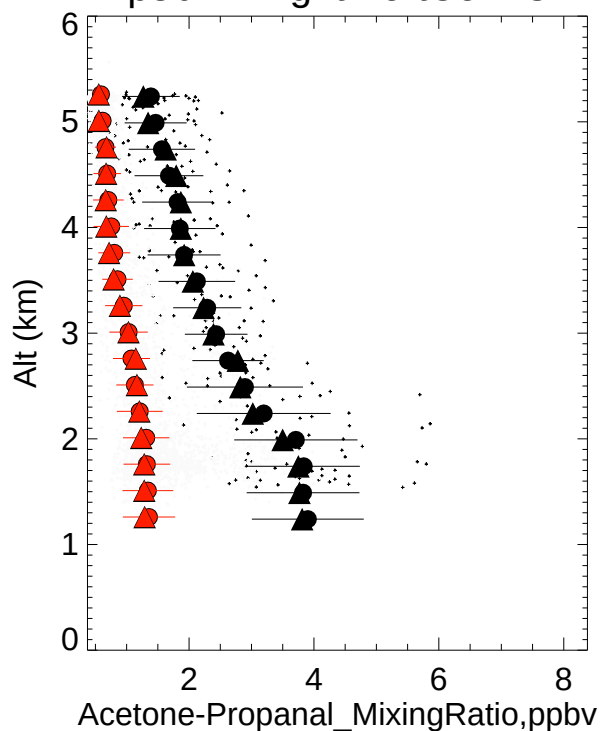
p3b All flight



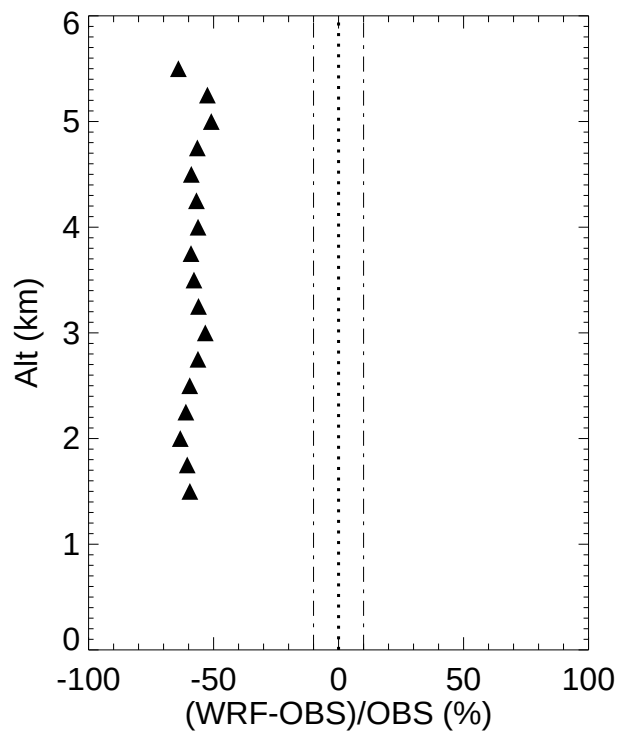
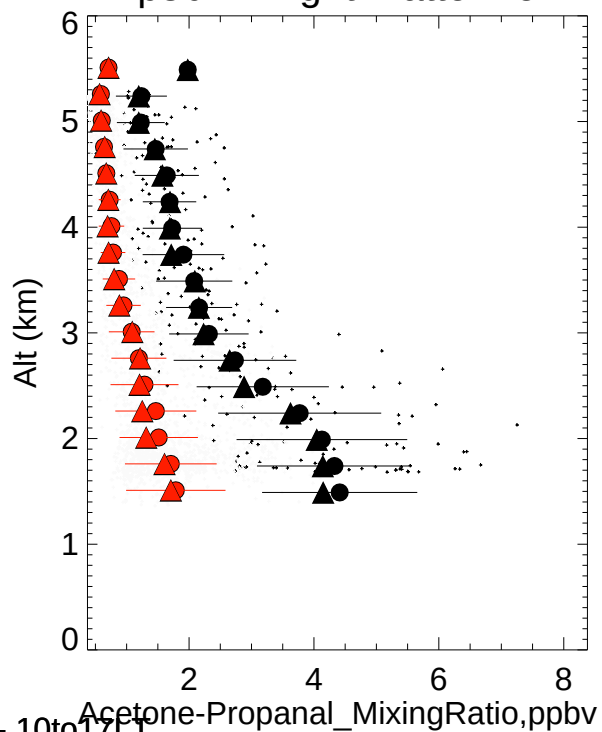
p3b All flight



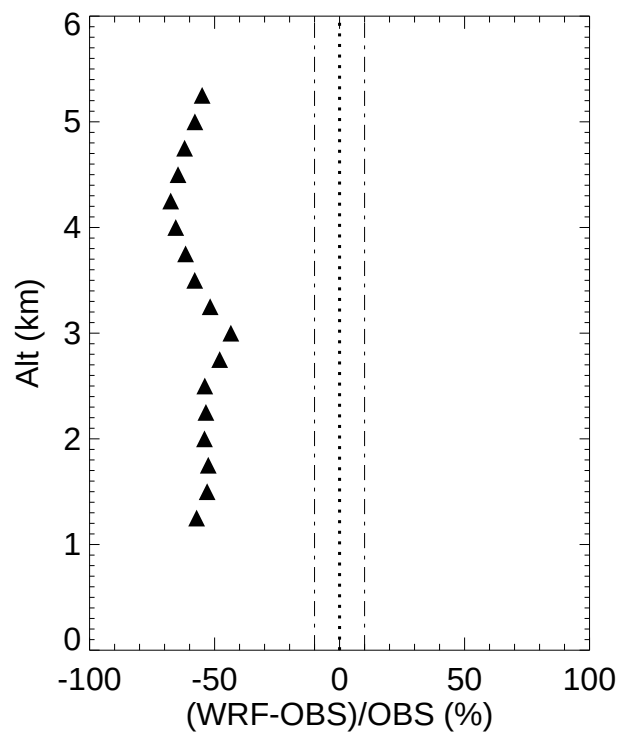
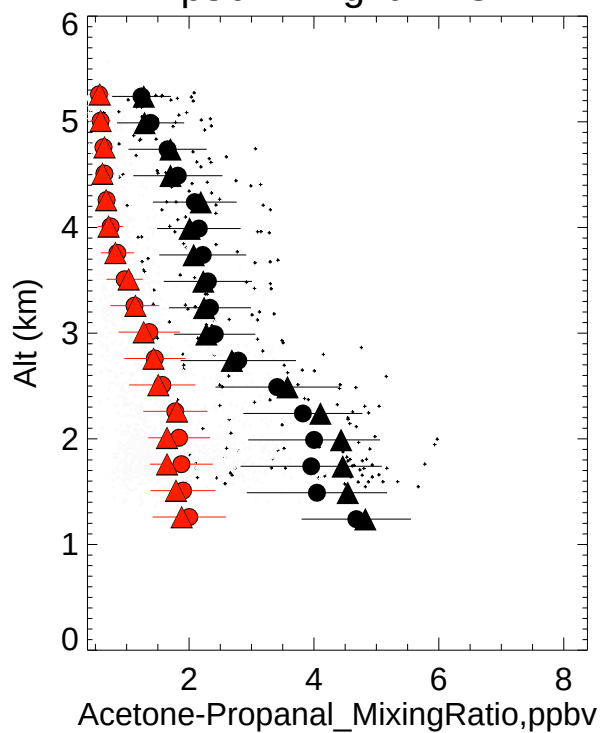
p3b All flight FortCollins



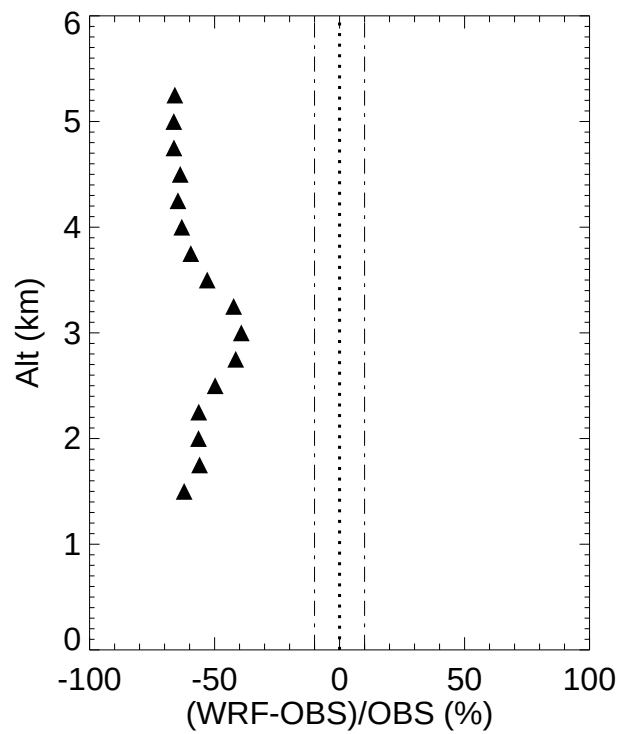
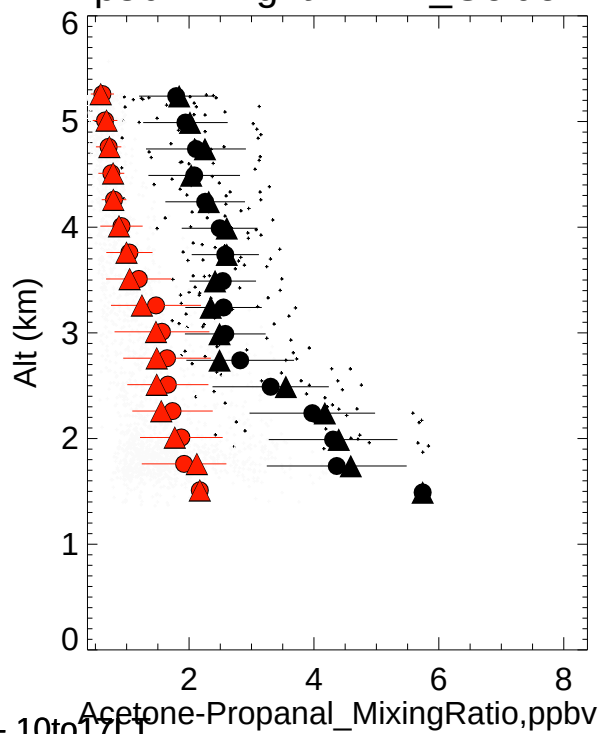
p3b All flight Platteville



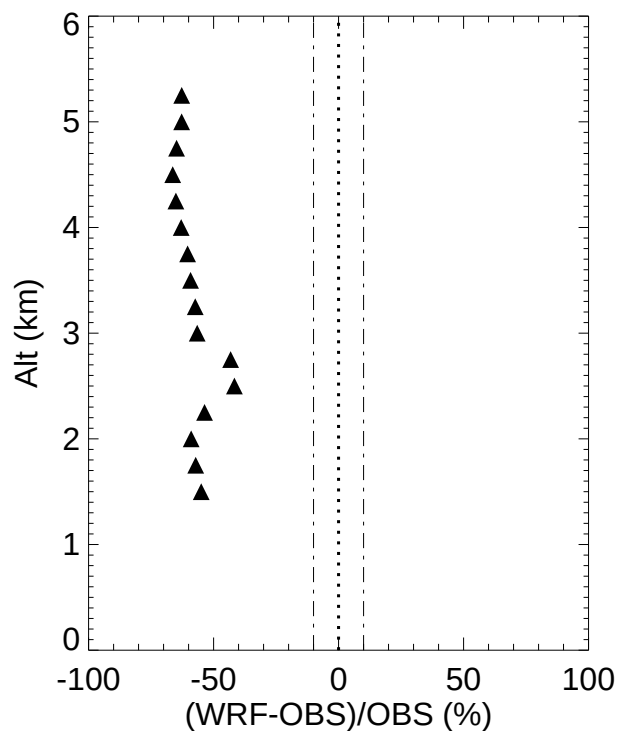
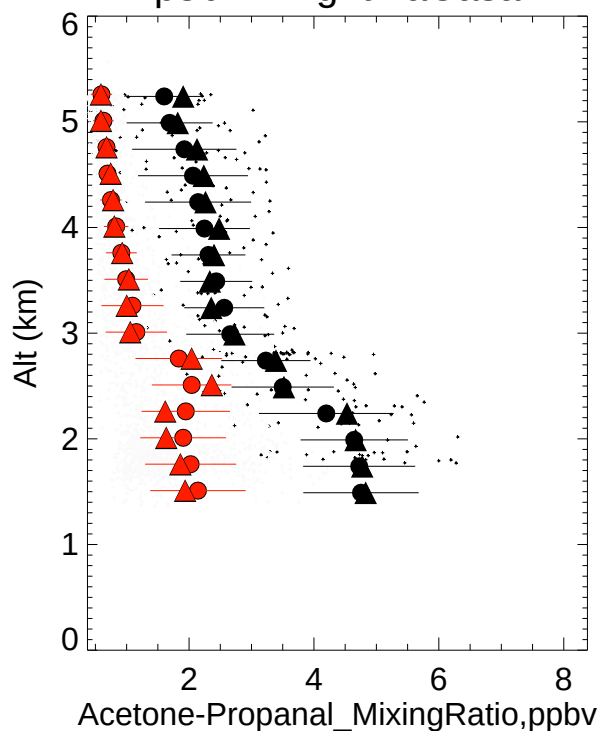
p3b All flight BAO



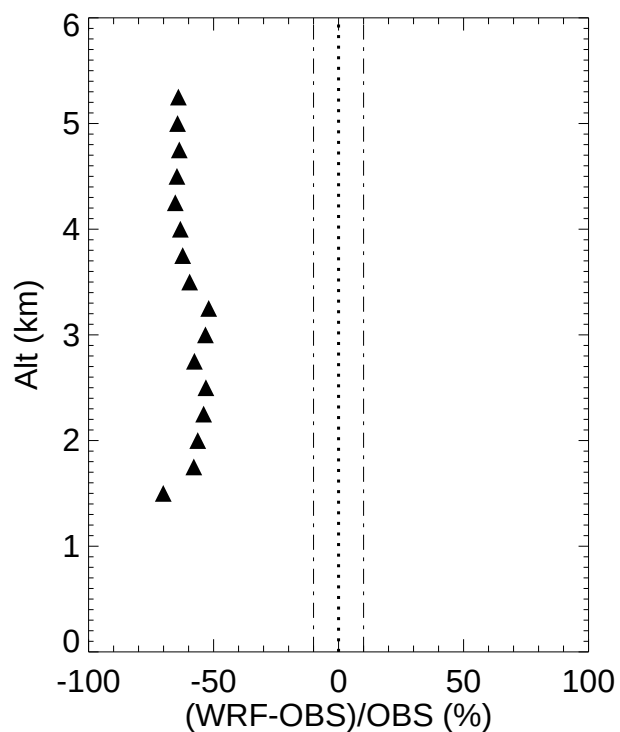
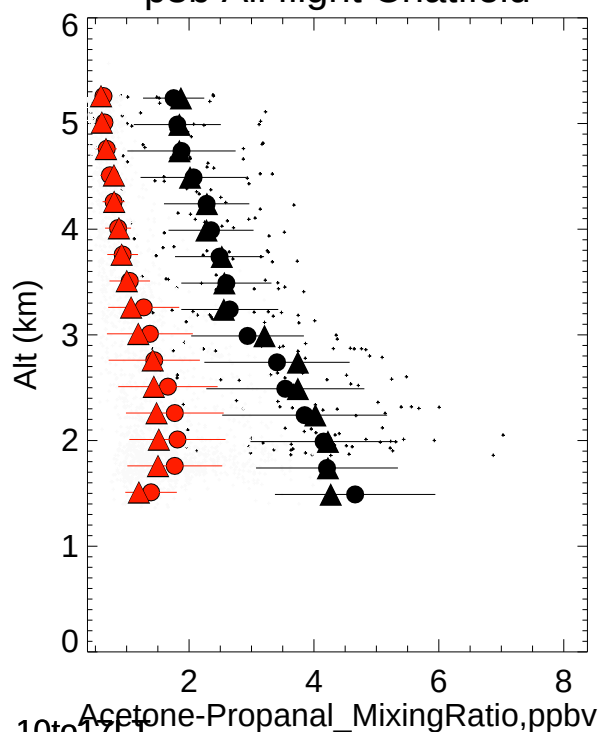
p3b All flight NREL_Golden



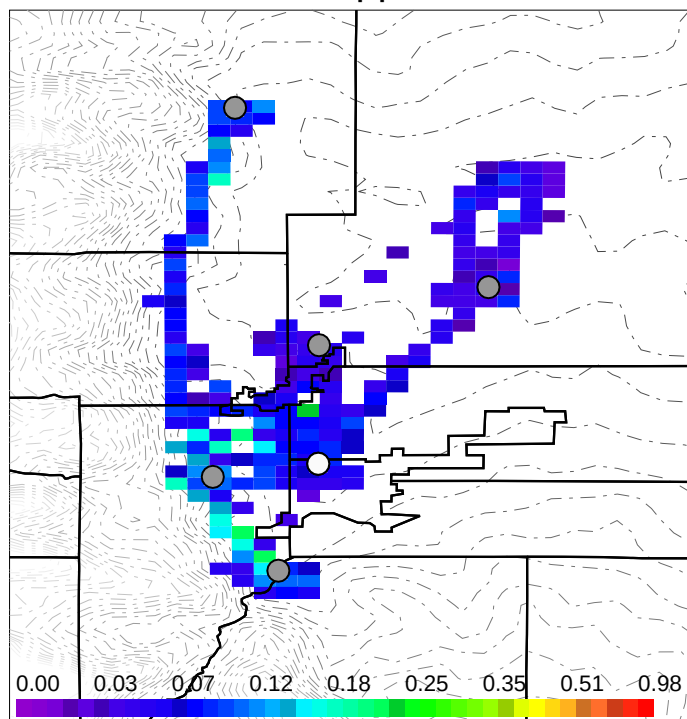
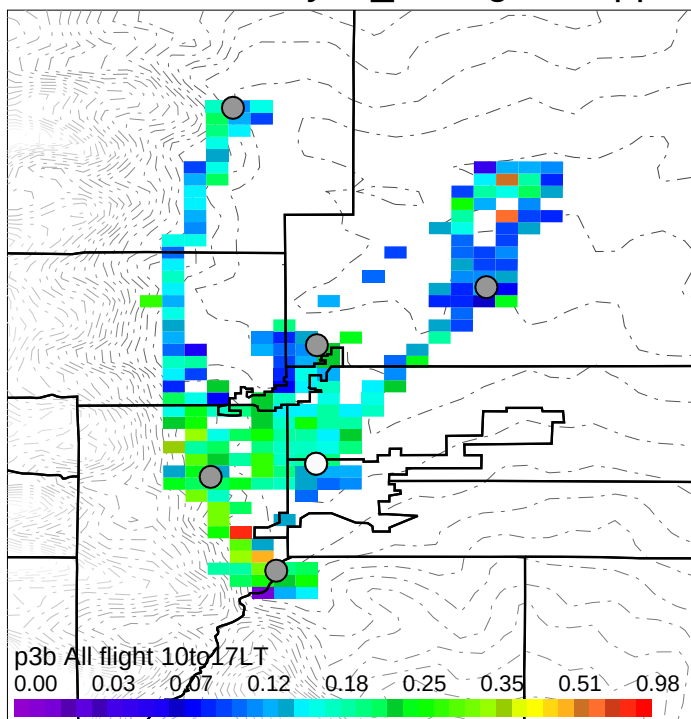
p3b All flight LaCasa



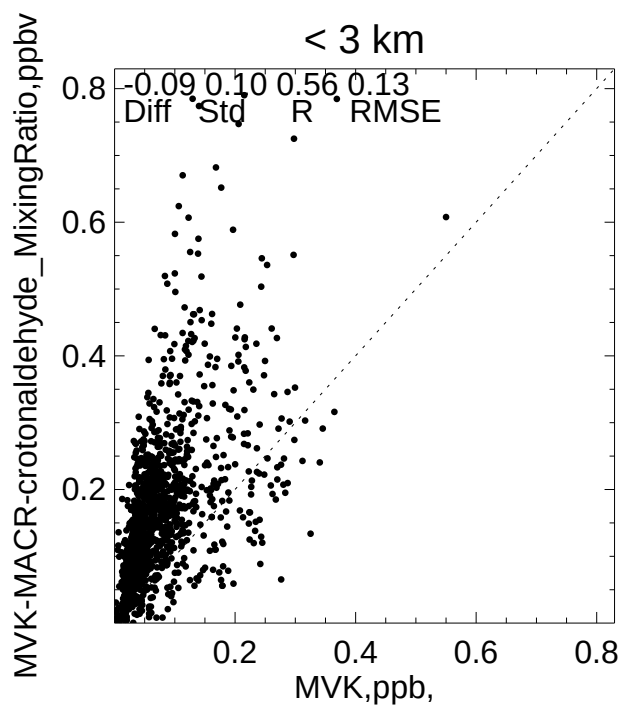
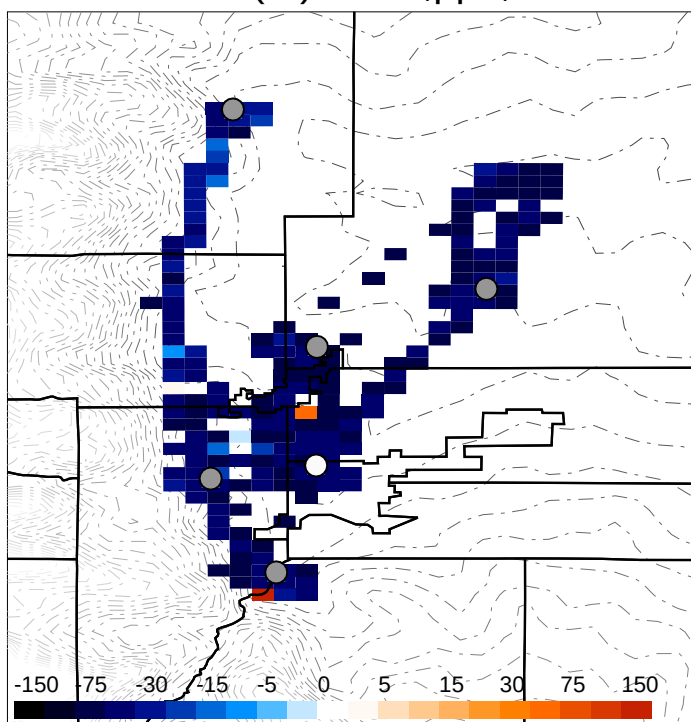
p3b All flight Chatfield



MVK-MACR-crotonaldehyde_MixingRatio,ppbv < 3 km Model MVK,ppb, < 3 km

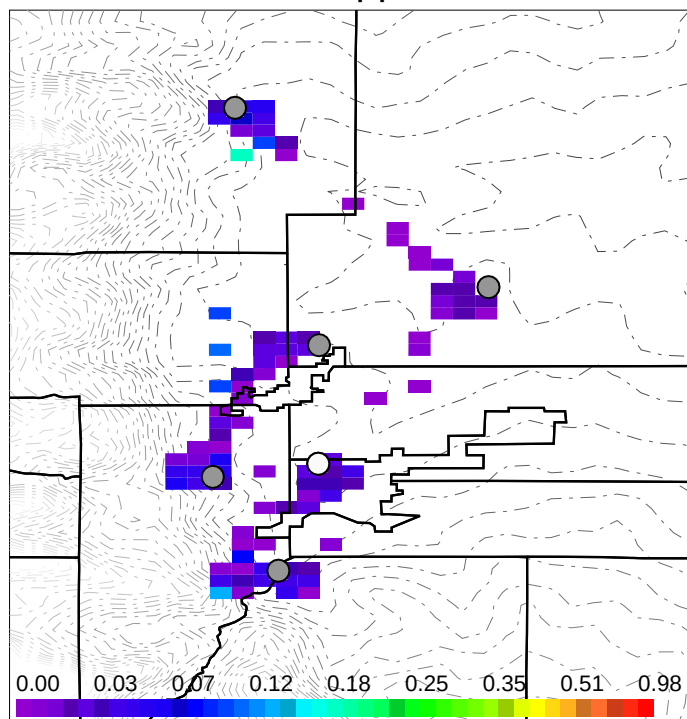
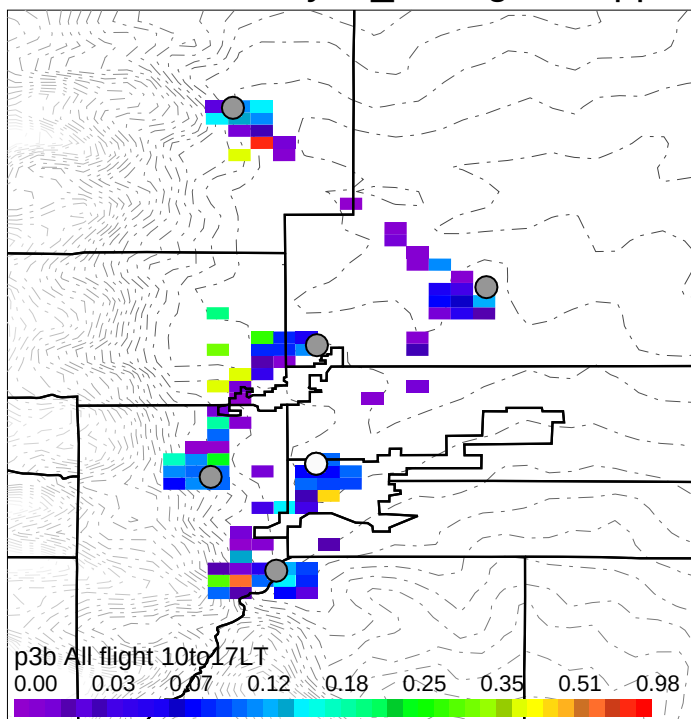


Model-Obs(%) MVK,ppb, < 3 km

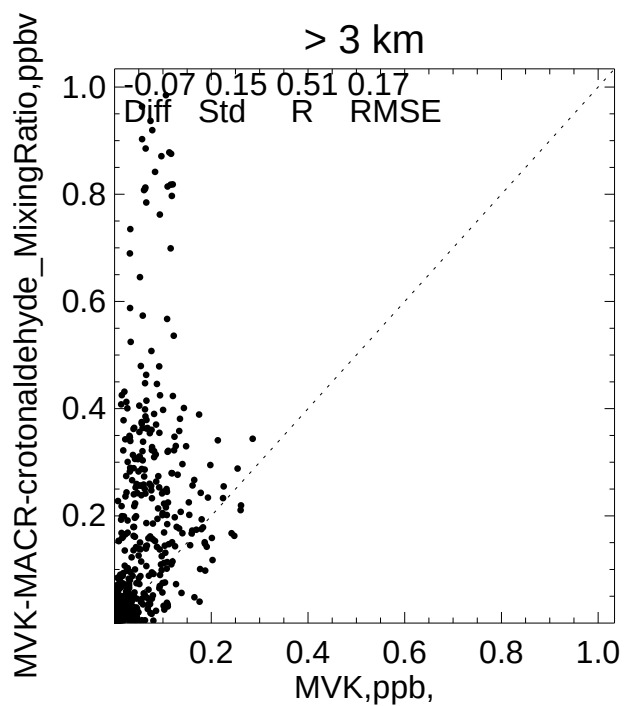
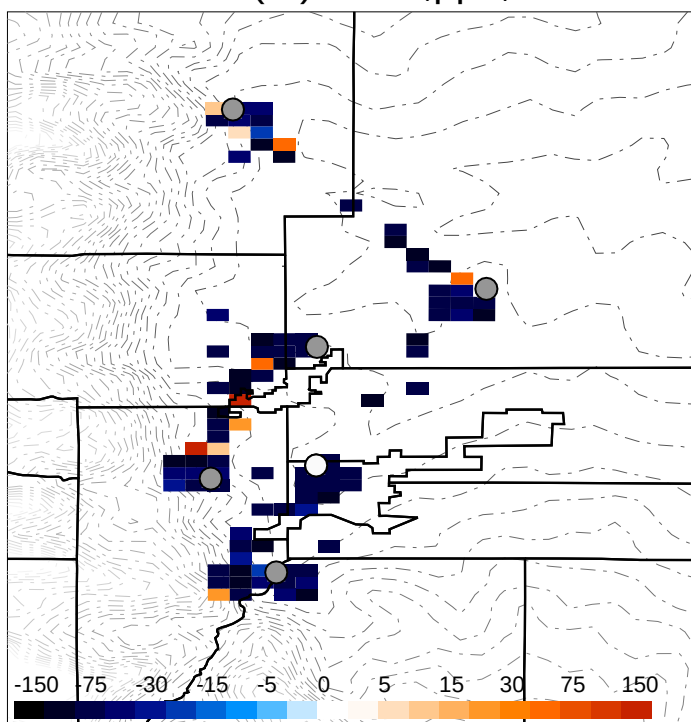


BTX- 10to17LT

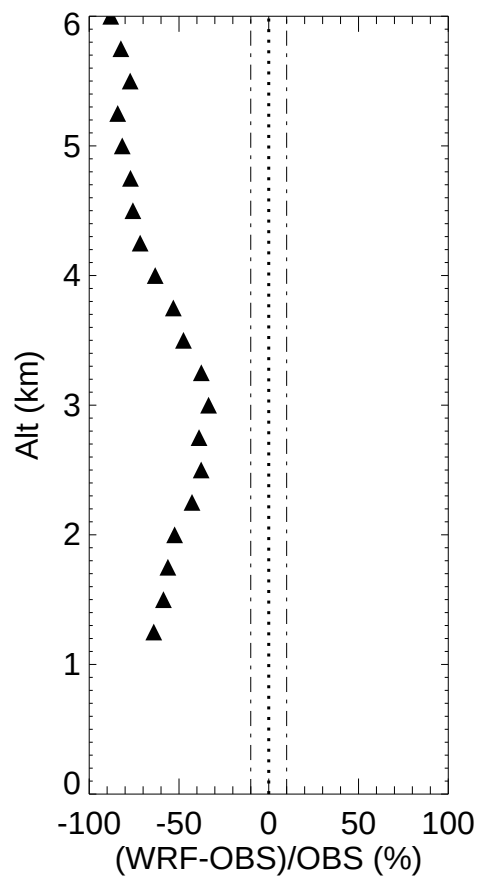
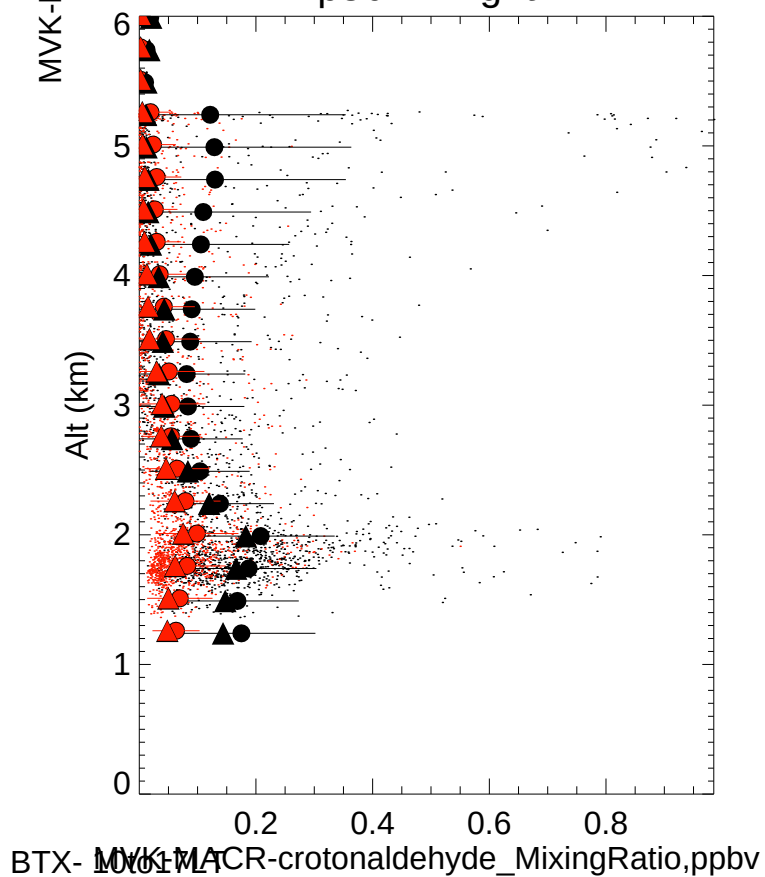
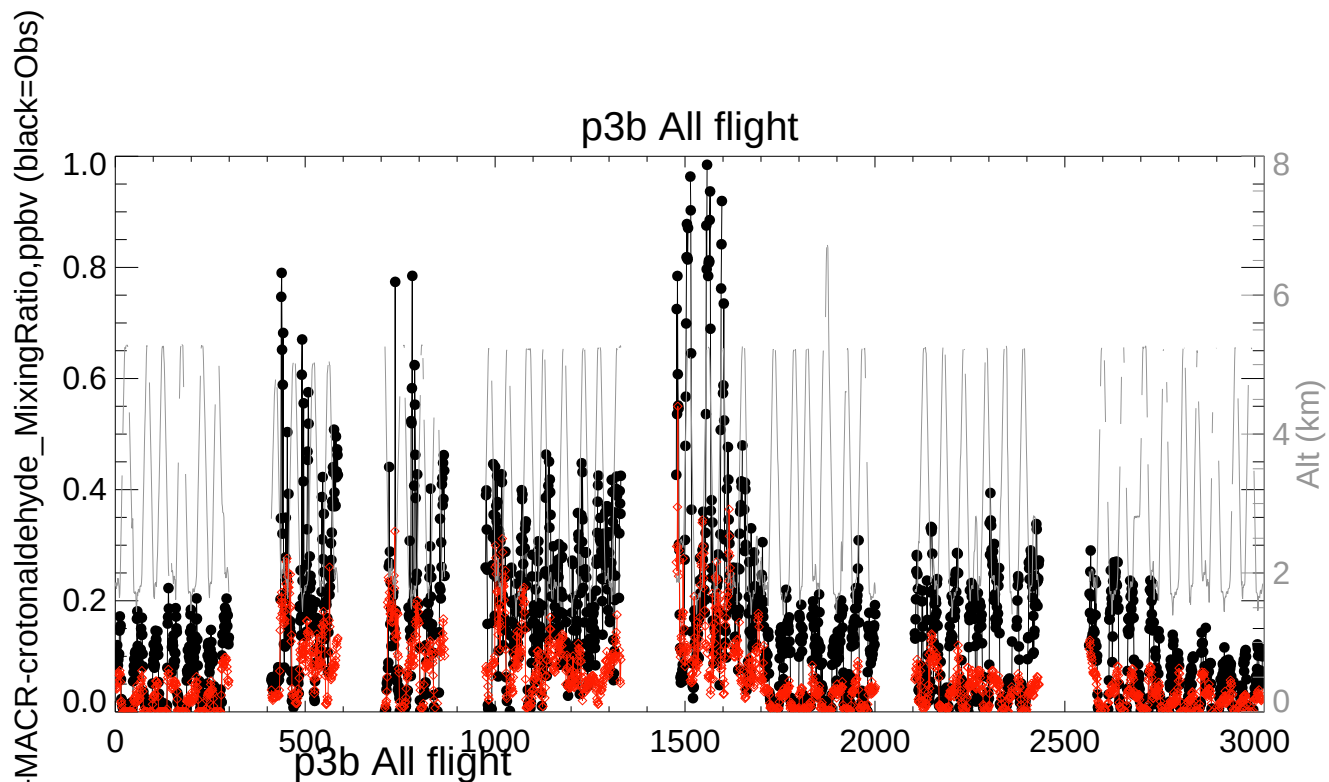
VK-MACR-crotonaldehyde_MixingRatio,ppbv > 3 km Model MVK,ppb, > 3 km



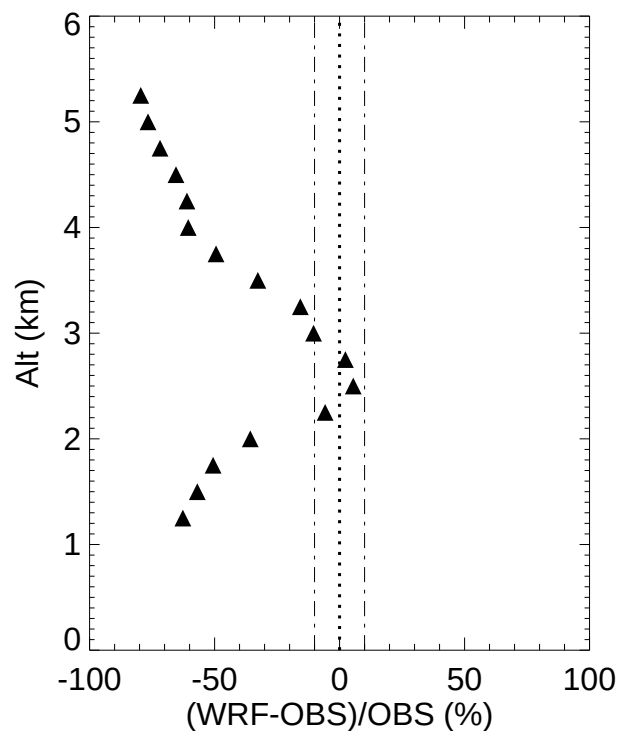
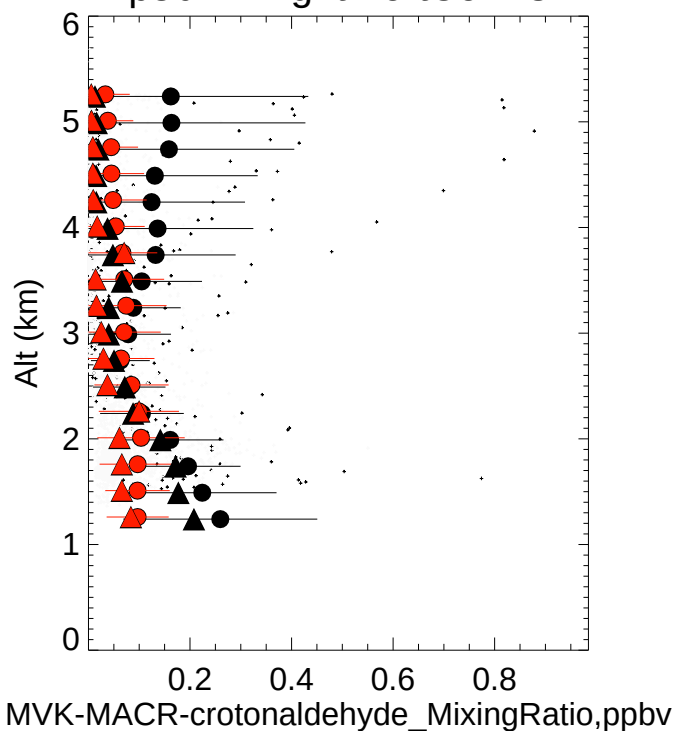
Model-Obs(%) MVK,ppb, > 3 km



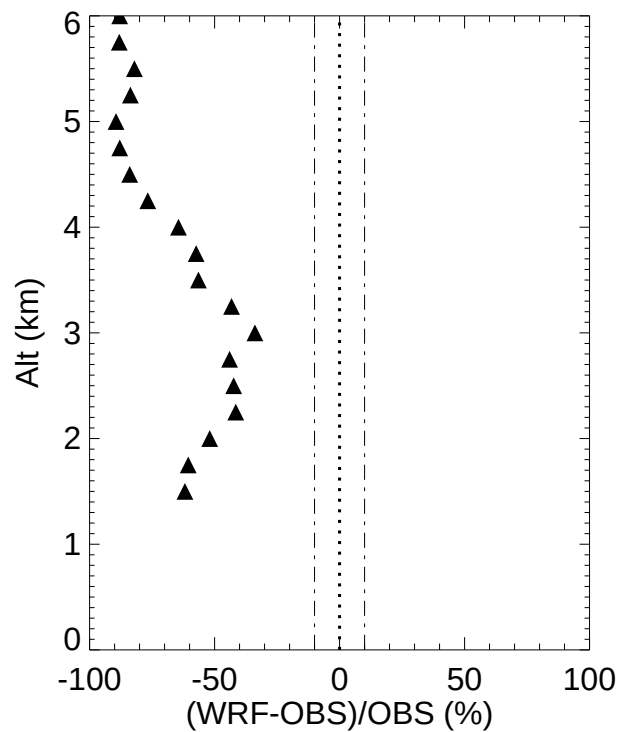
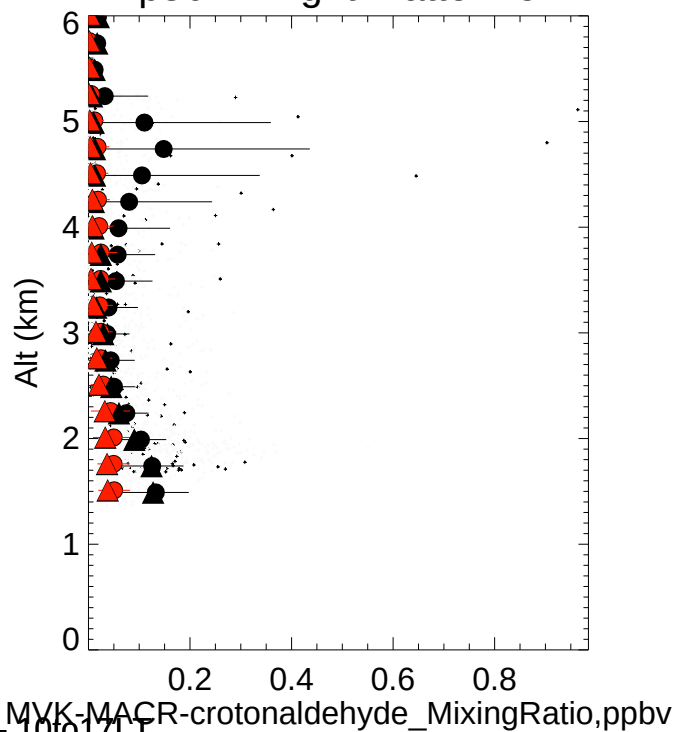
BTX- 10to17LT

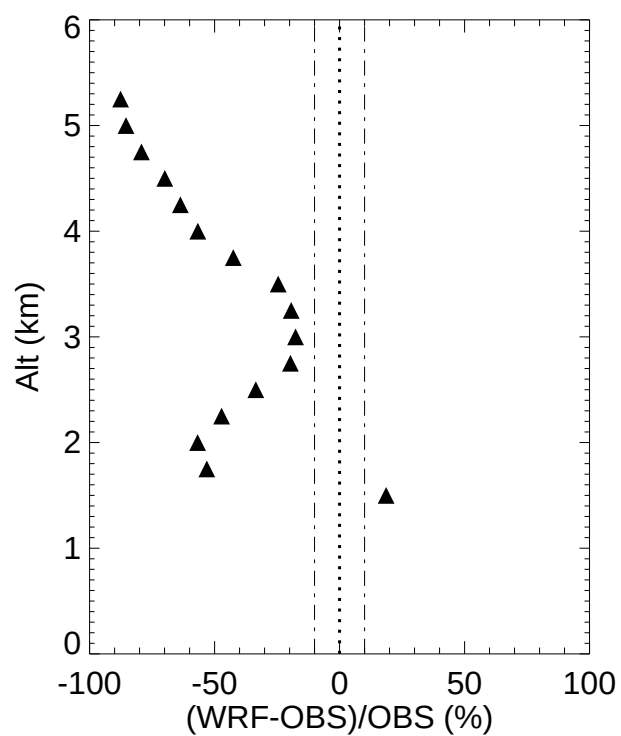
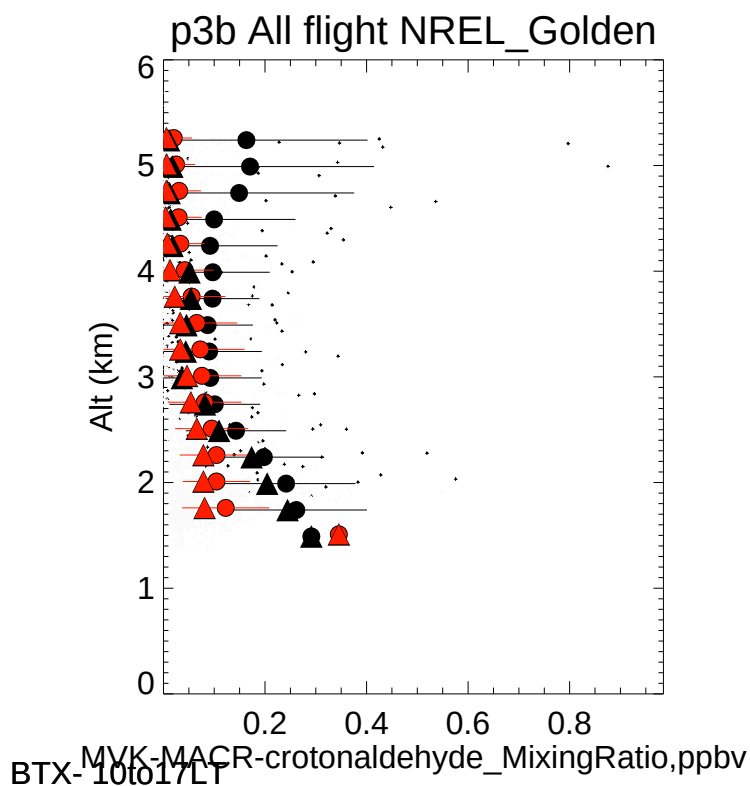
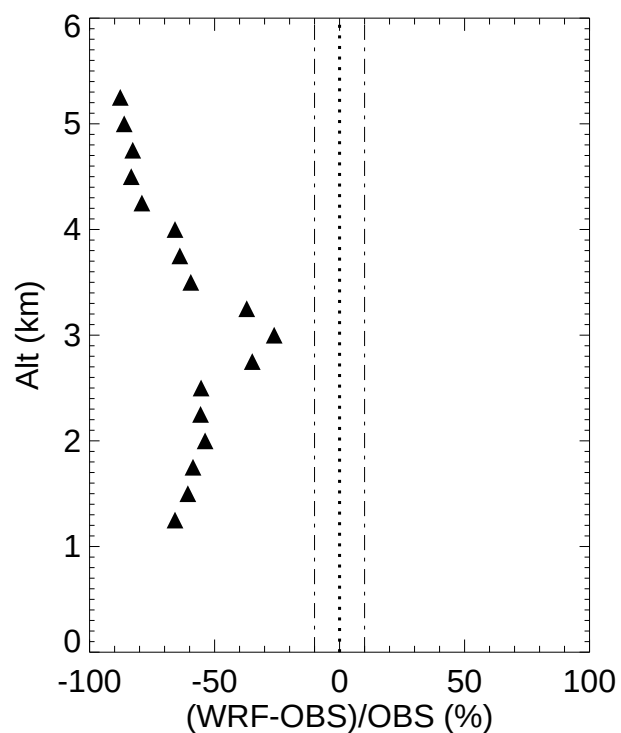
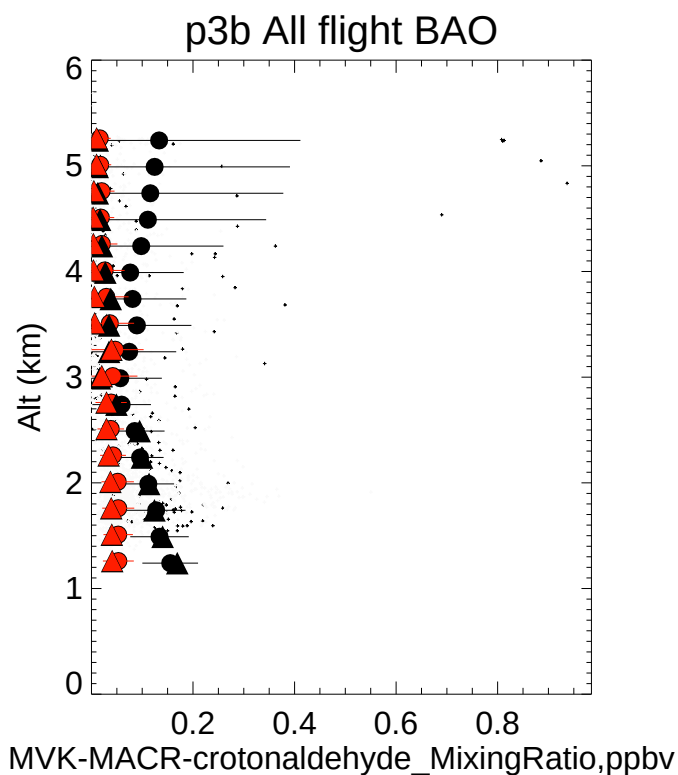


p3b All flight FortCollins

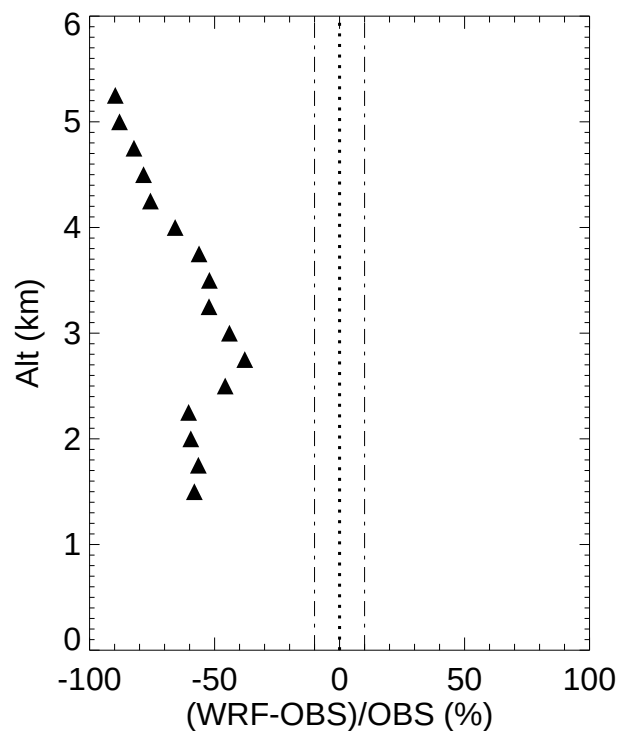
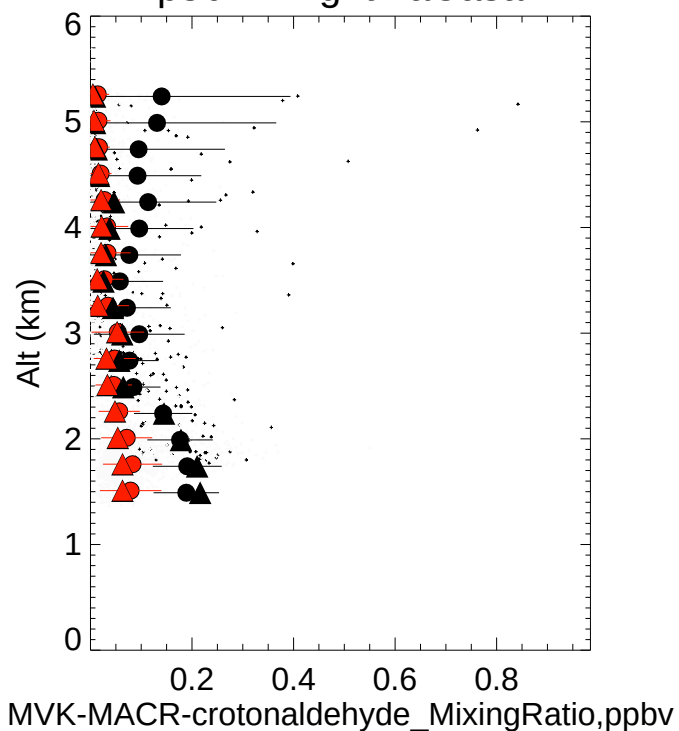


p3b All flight Platteville

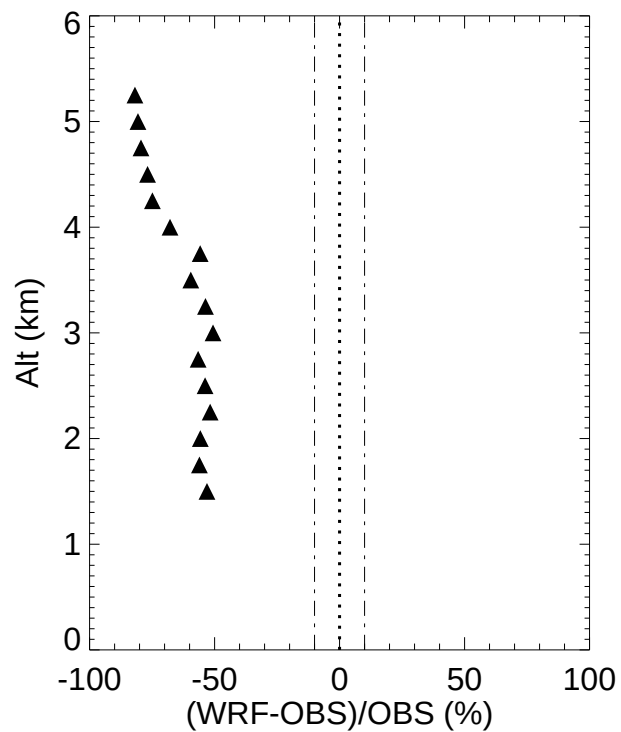
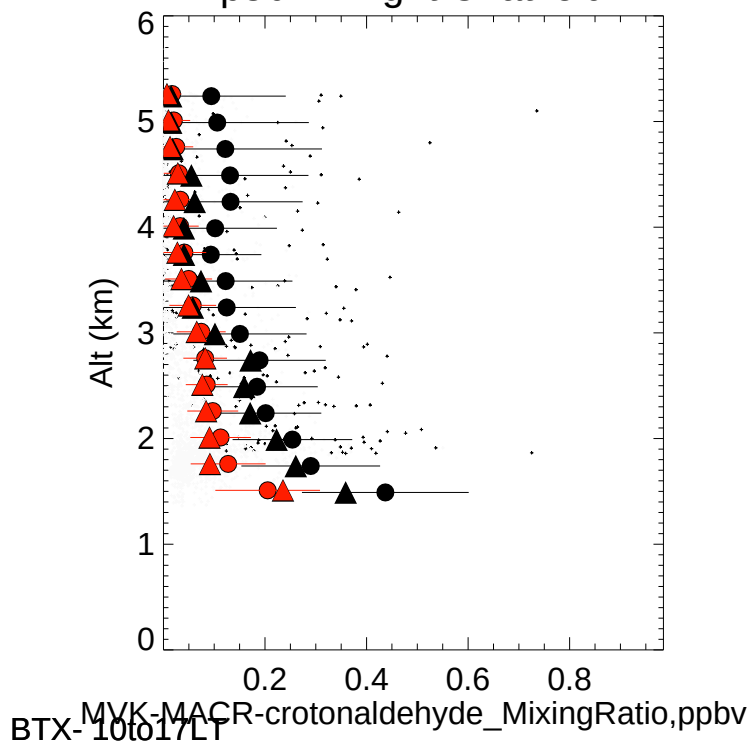




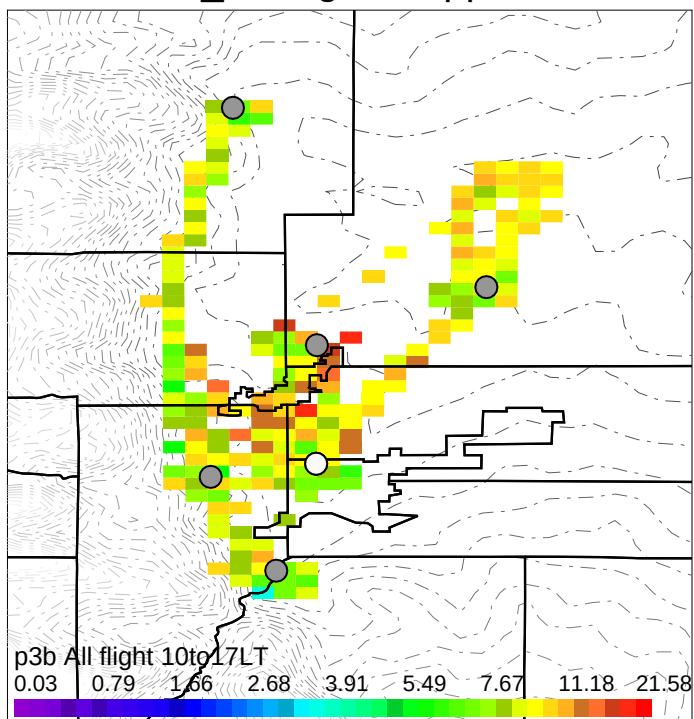
p3b All flight LaCasa



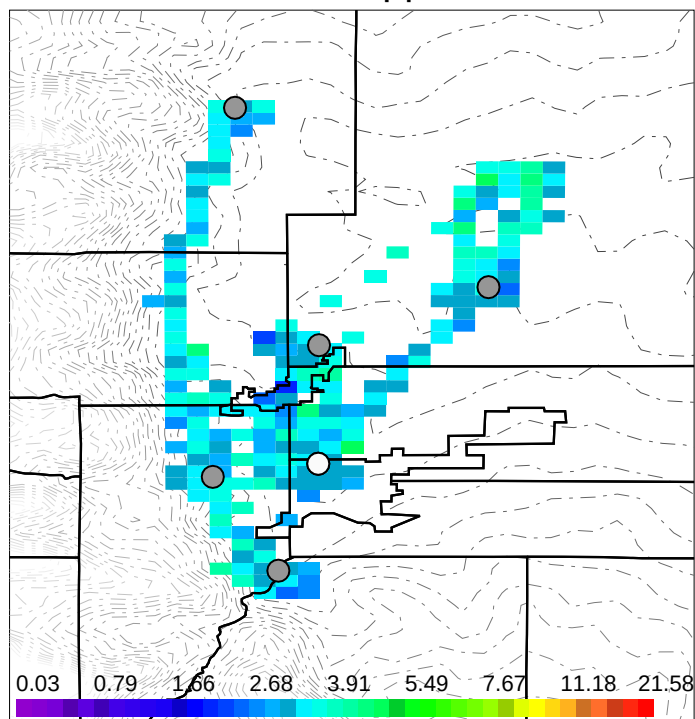
p3b All flight Chatfield



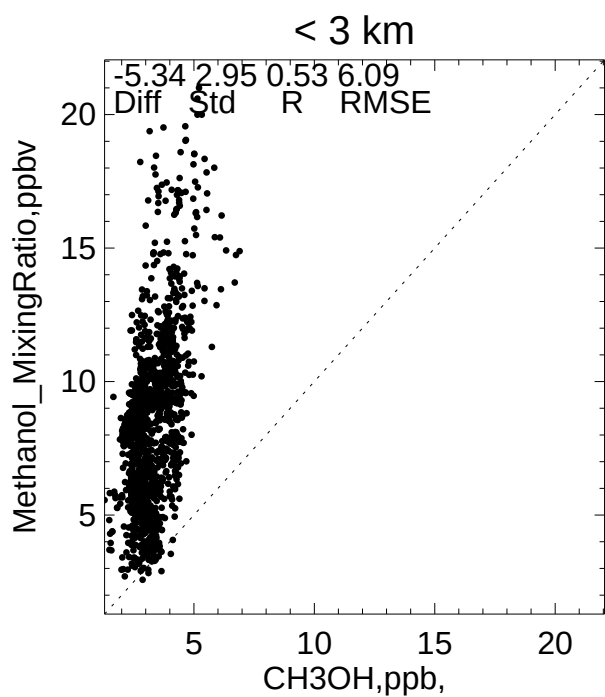
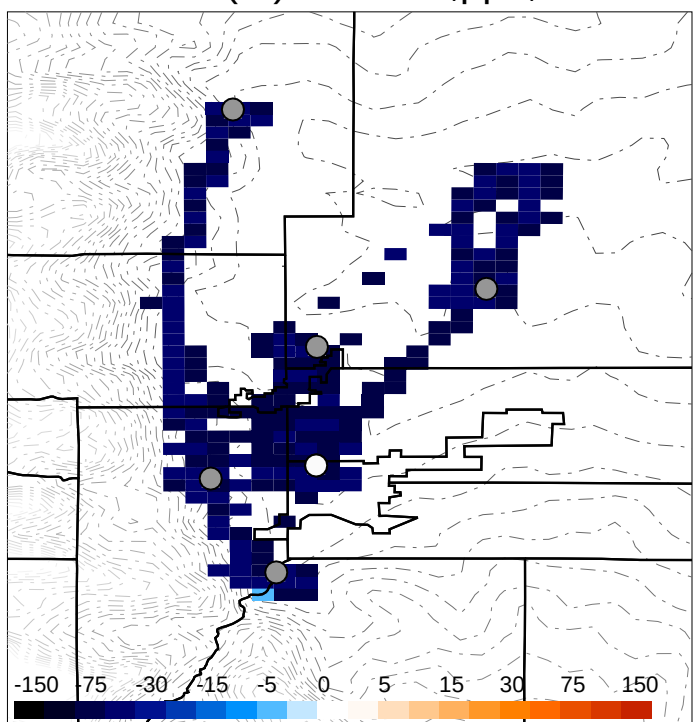
Methanol_MixingRatio,ppbv < 3 km



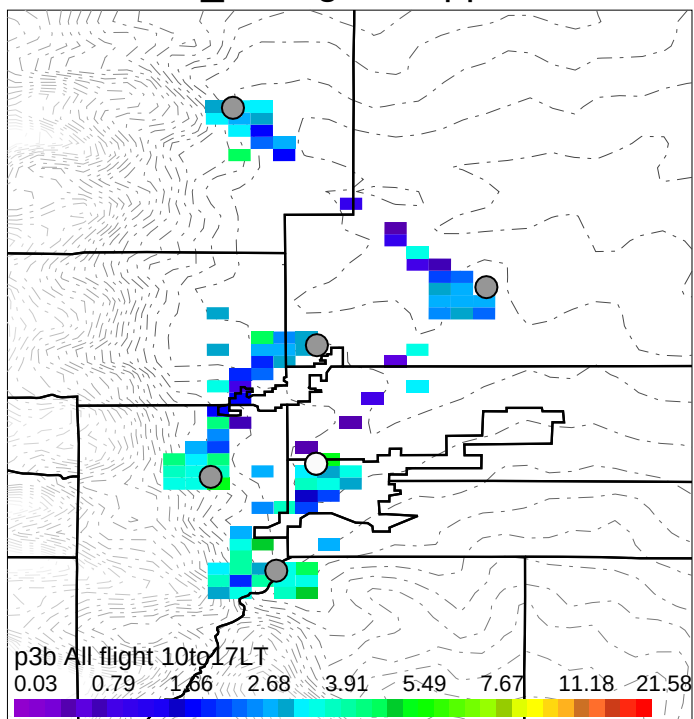
Model CH₃OH,ppb, < 3 km



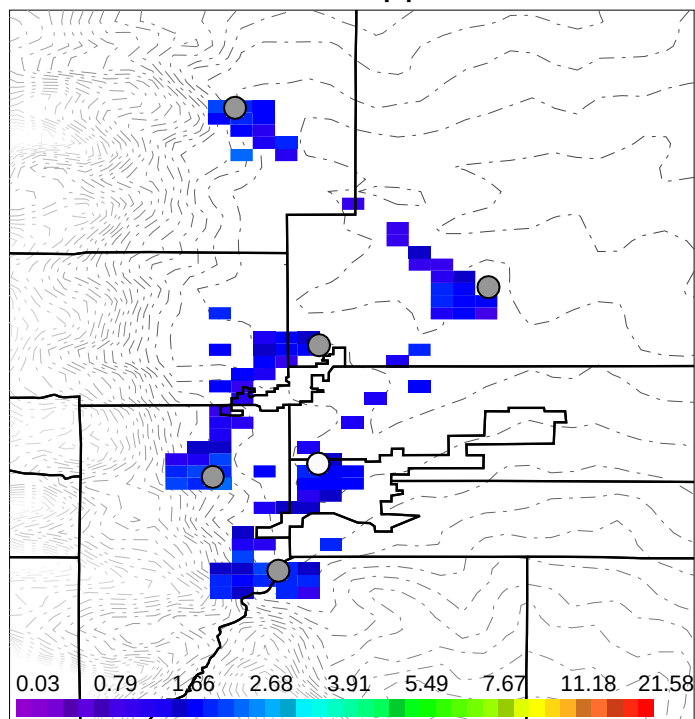
Model-Obs(%) CH₃OH,ppb, < 3 km



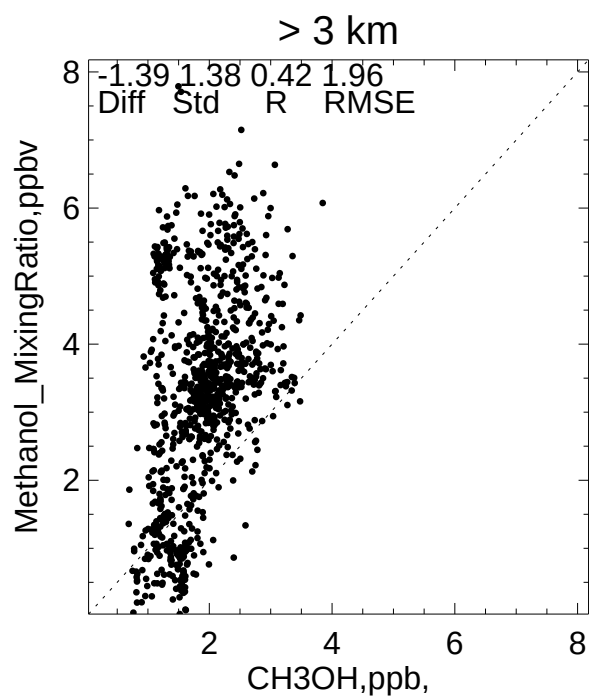
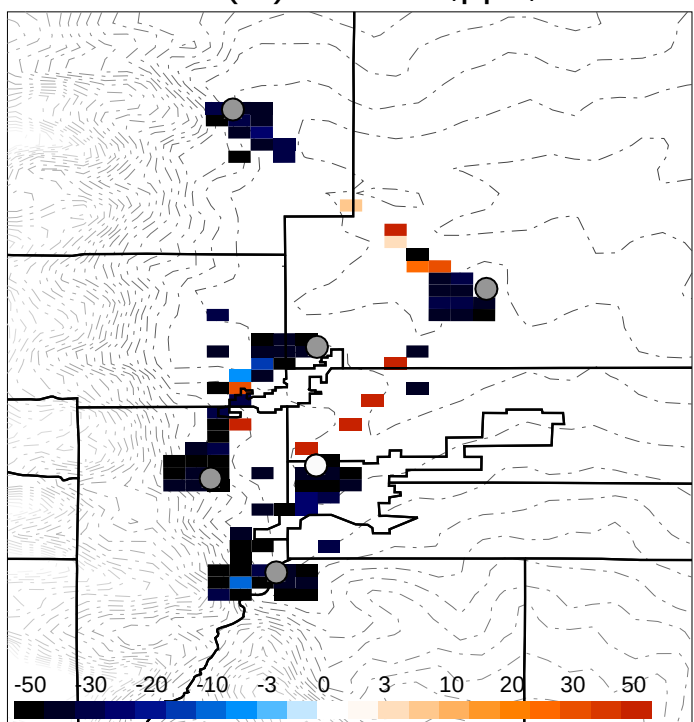
Methanol_MixingRatio,ppbv > 3 km



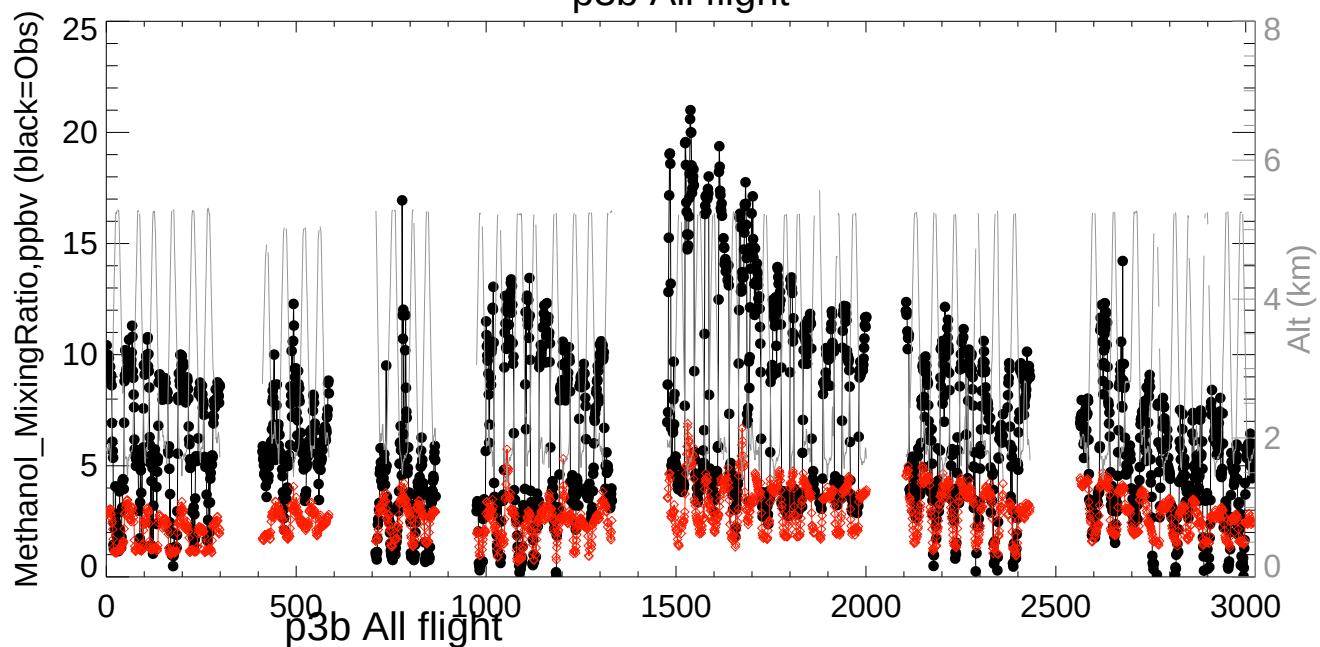
Model CH₃OH,ppb, > 3 km



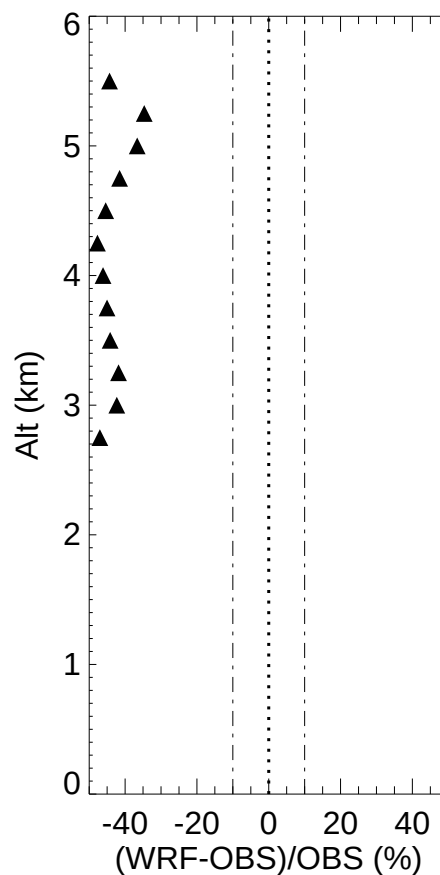
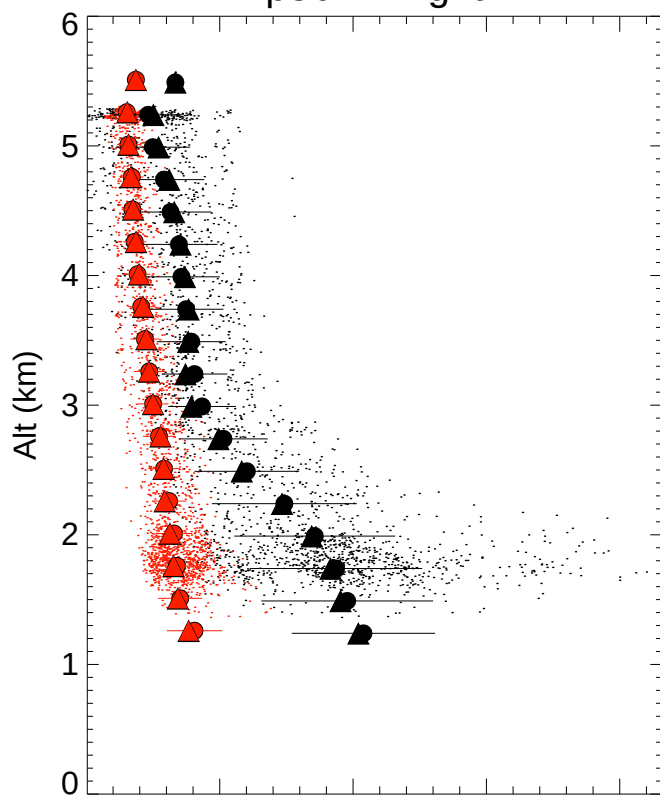
Model-Obs(%) CH₃OH,ppb, > 3 km



p3b All flight

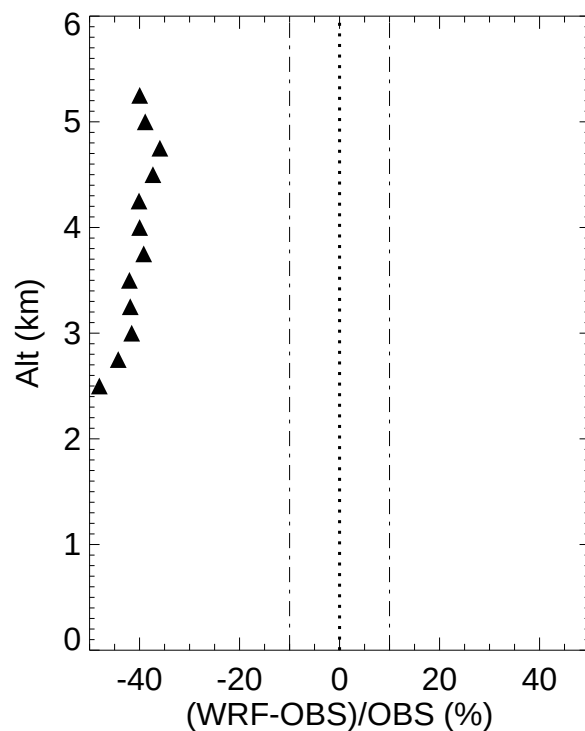
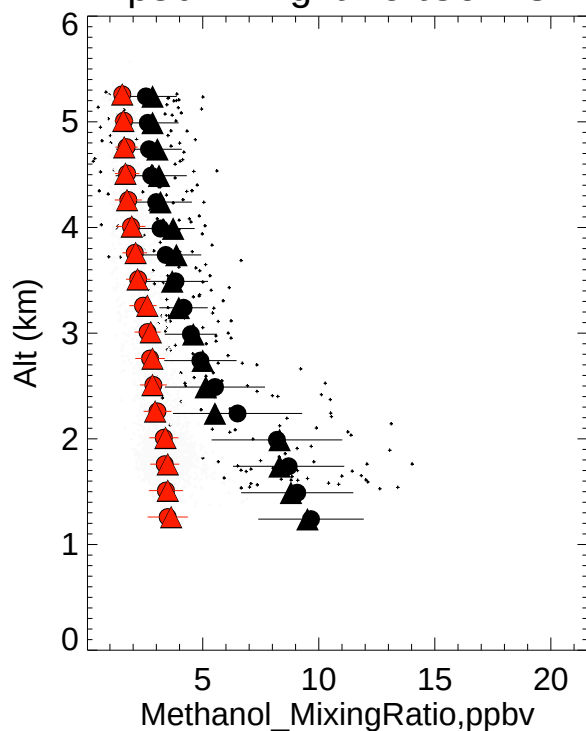


p3b All flight

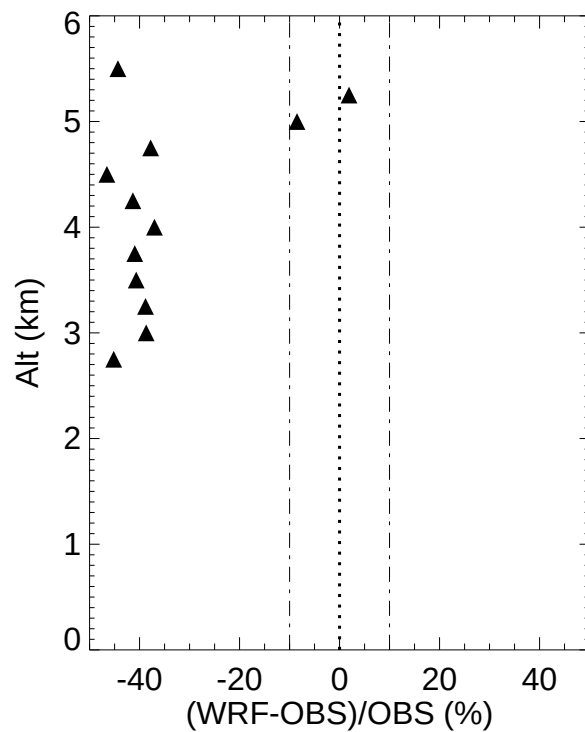
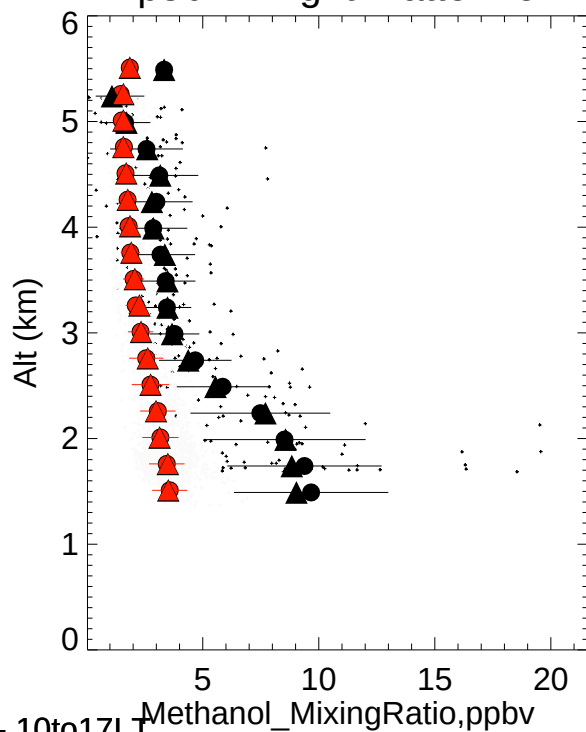


BTX- 10to17LT Methanol_MixingRatio,ppbv

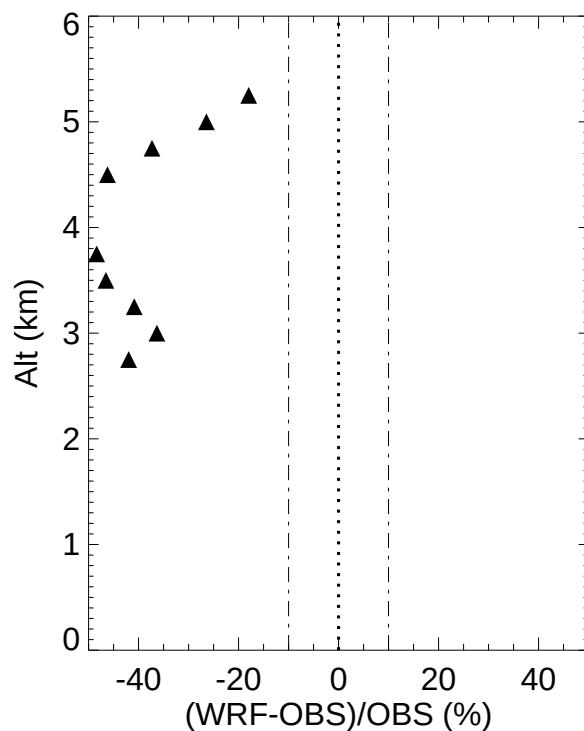
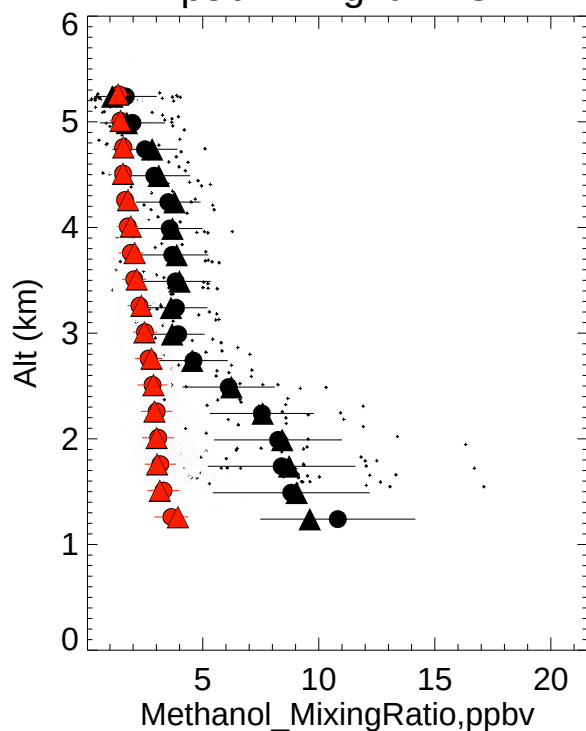
p3b All flight FortCollins



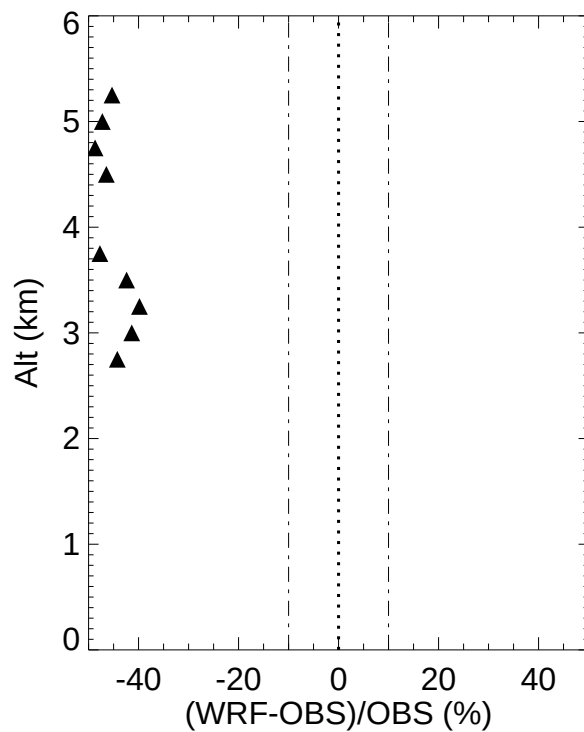
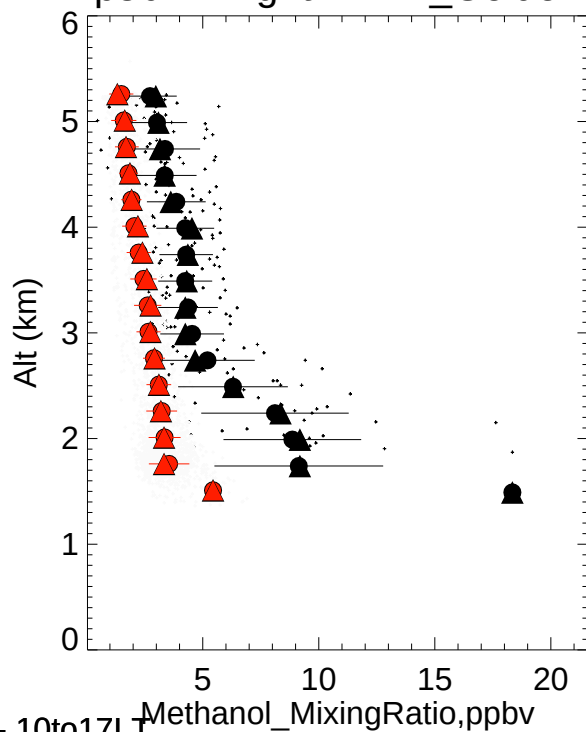
p3b All flight Platteville



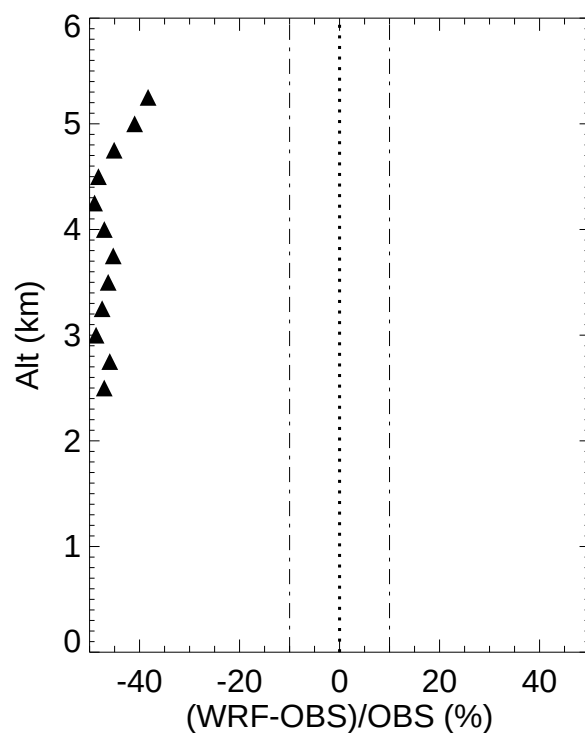
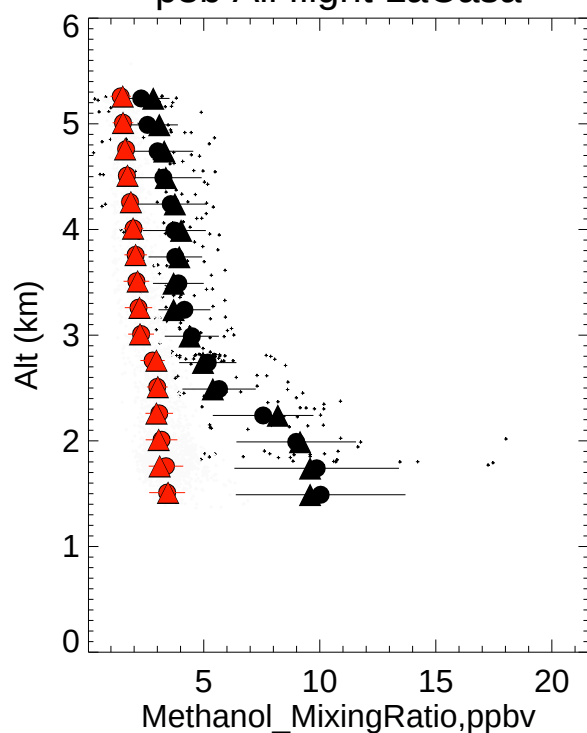
p3b All flight BAO



p3b All flight NREL_Golden



p3b All flight LaCasa



p3b All flight Chatfield

