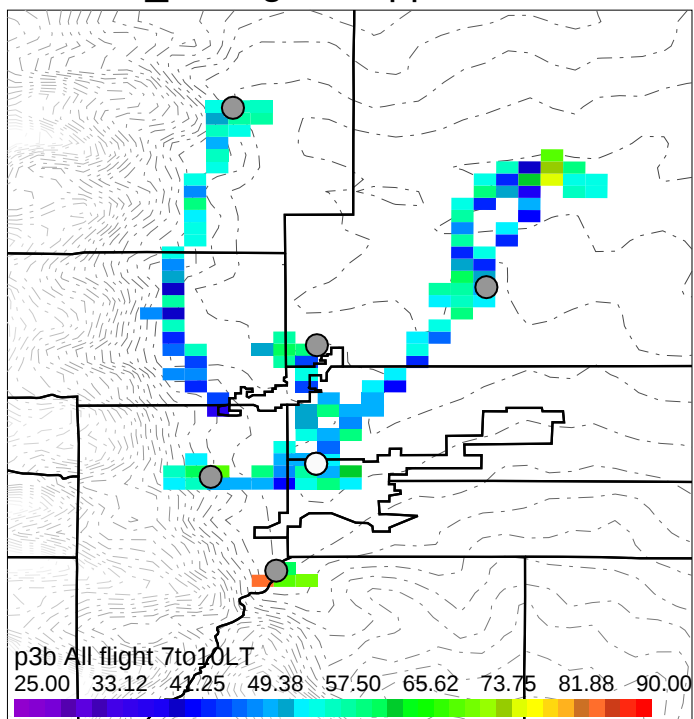
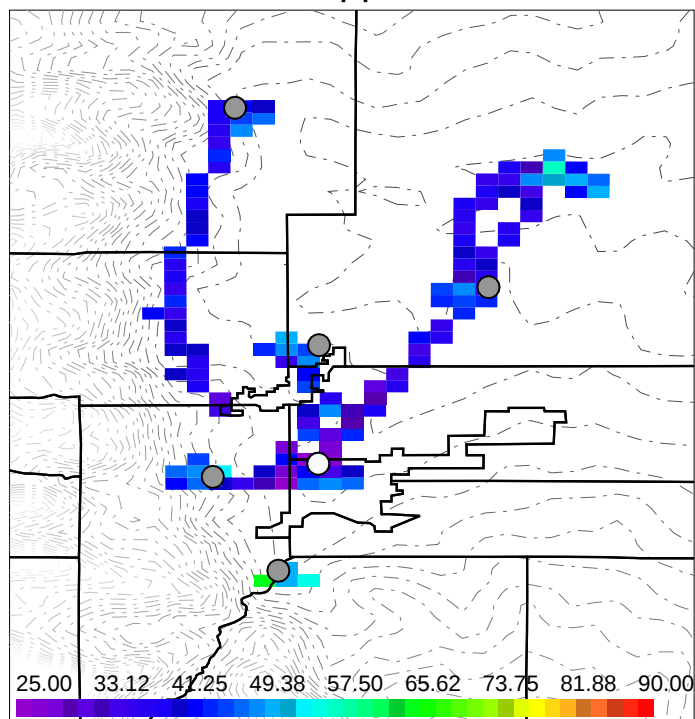


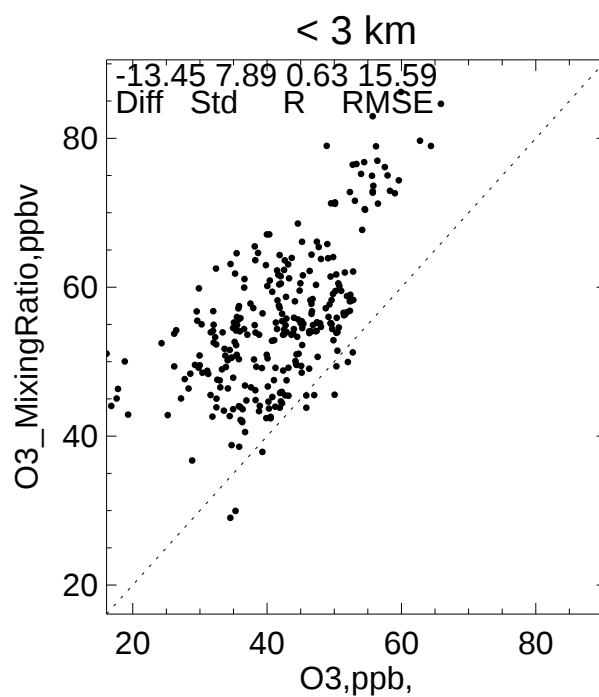
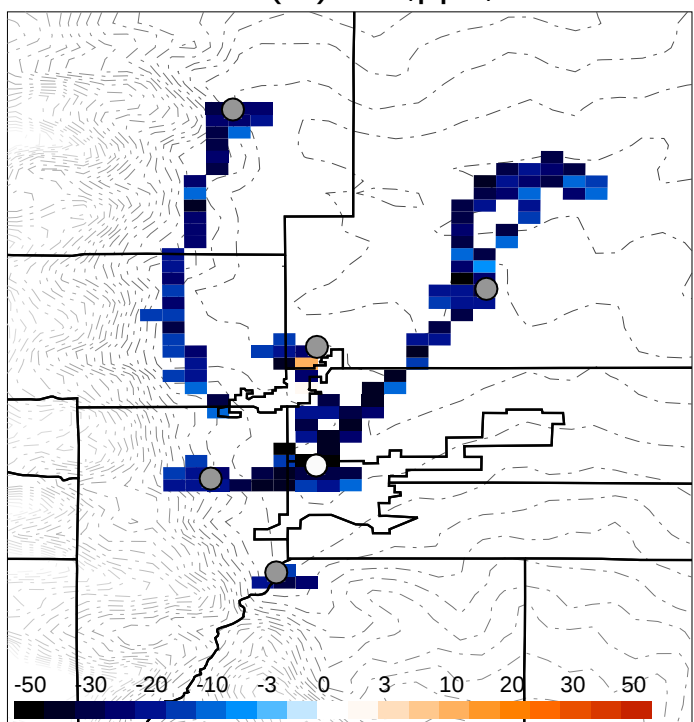
O3_MixingRatio,ppbv < 3 km



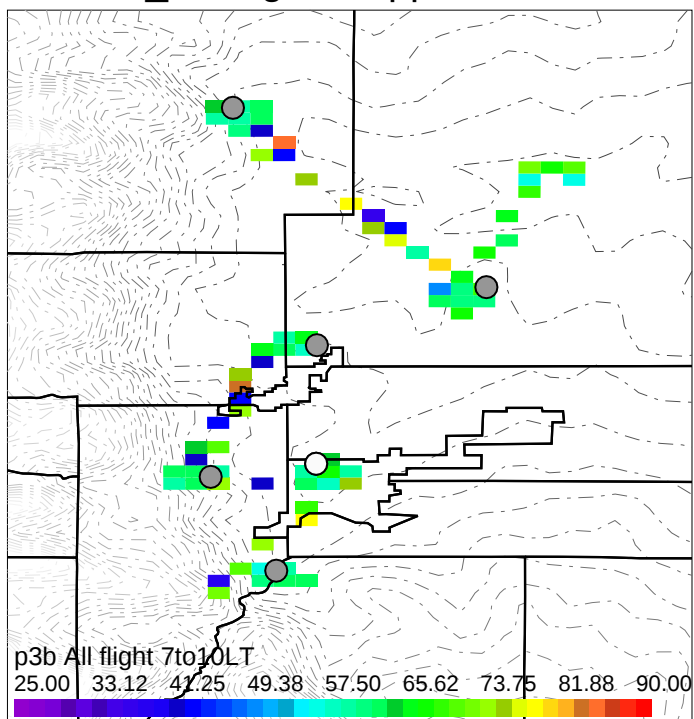
Model O3,ppb, < 3 km



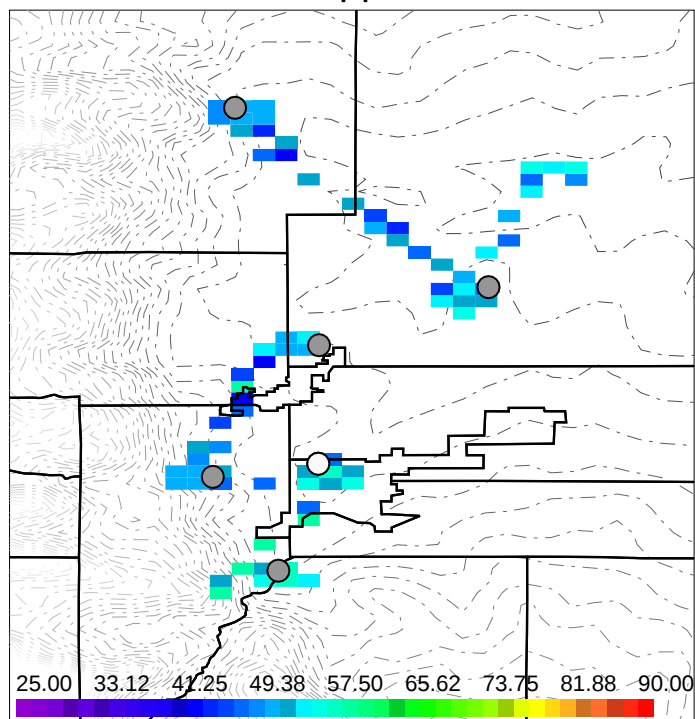
Model-Obs(%) O3,ppb, < 3 km



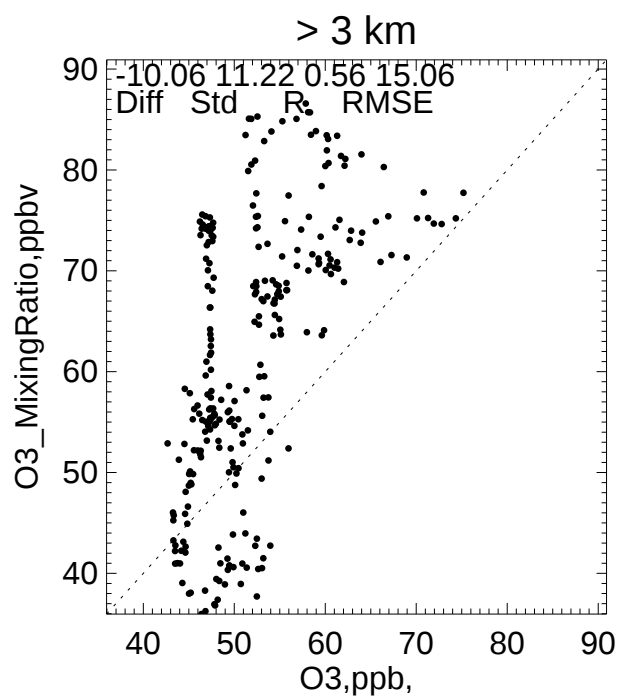
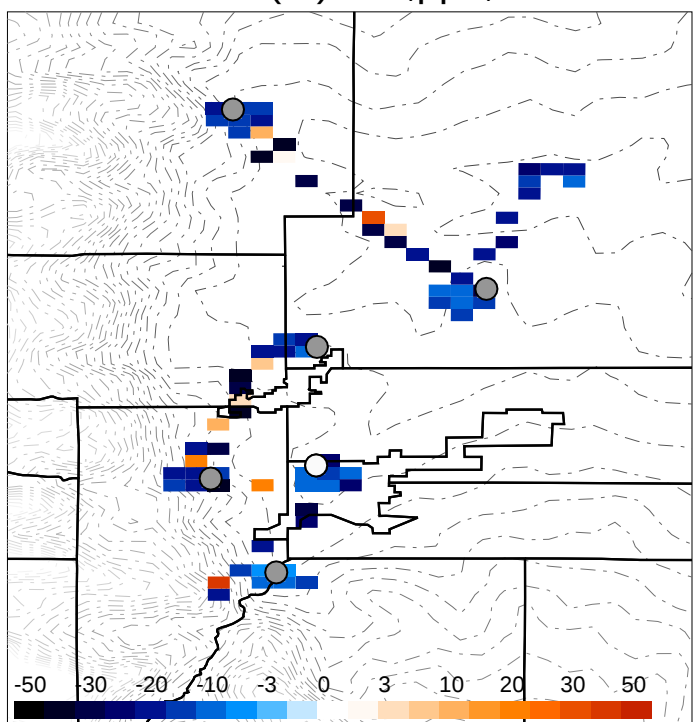
O3_MixingRatio,ppbv > 3 km



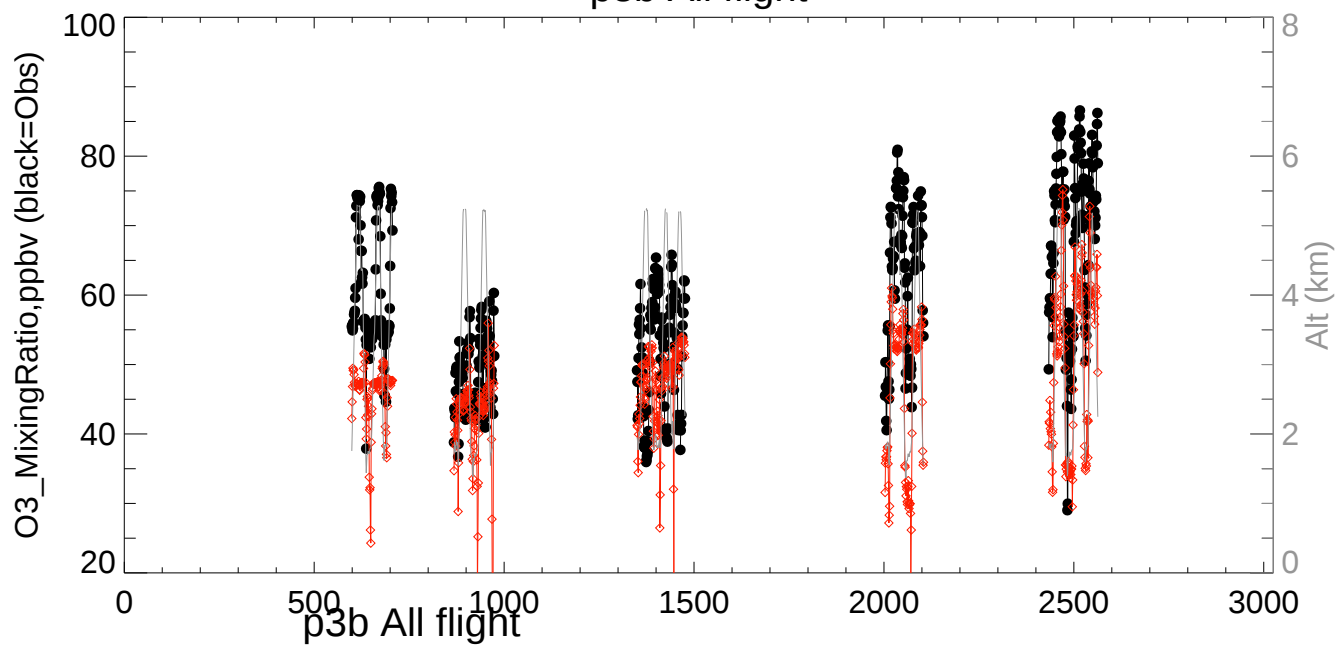
Model O3,ppb, > 3 km



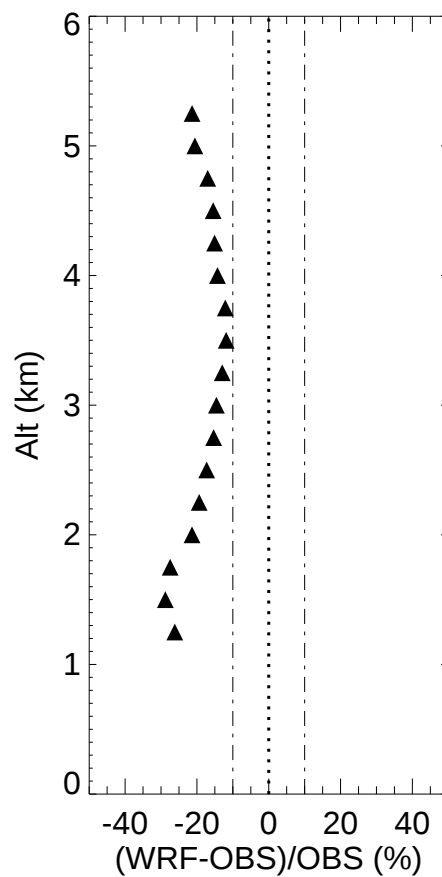
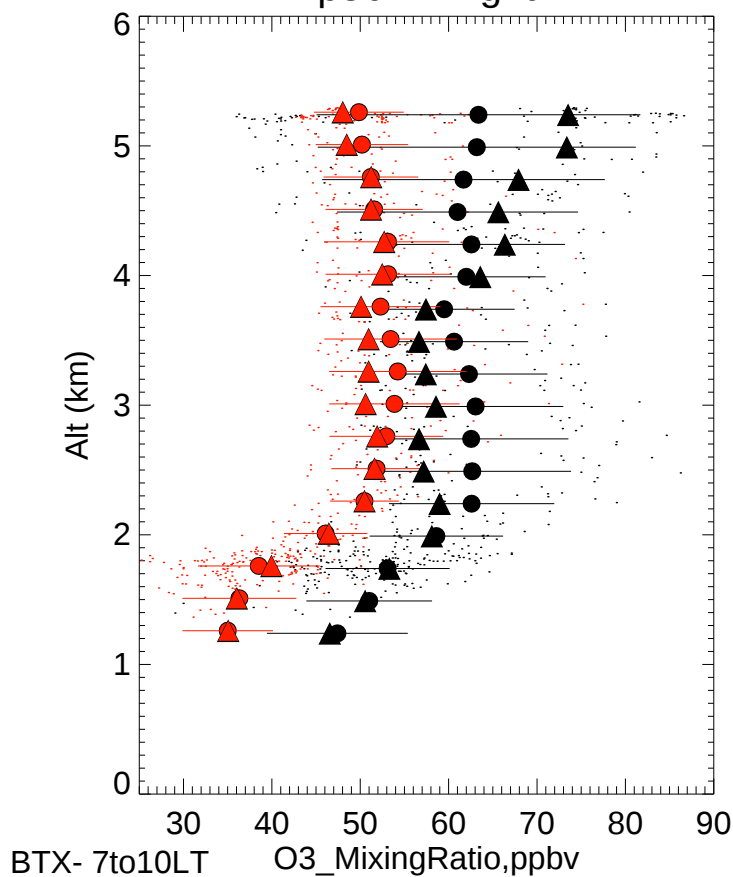
Model-Obs(%) O3,ppb, > 3 km



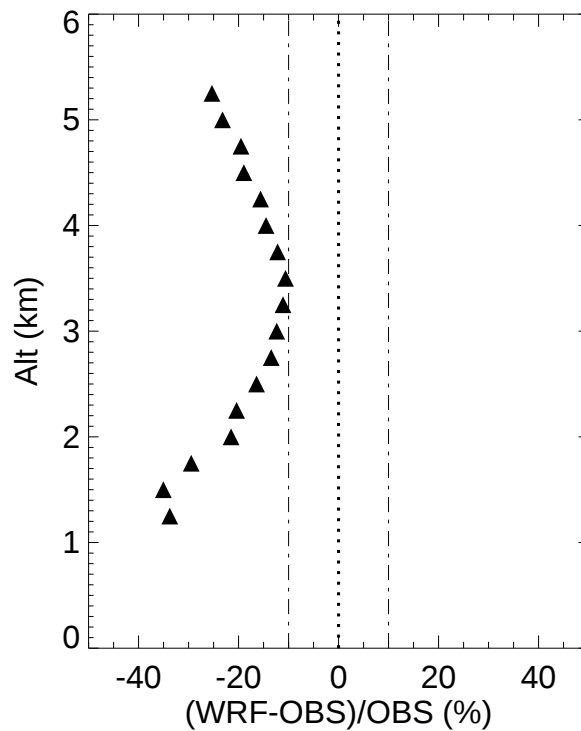
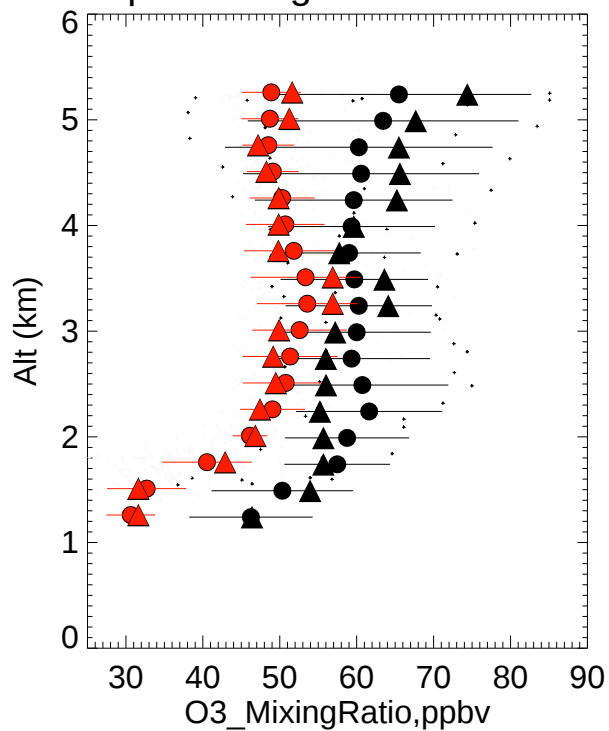
p3b All flight



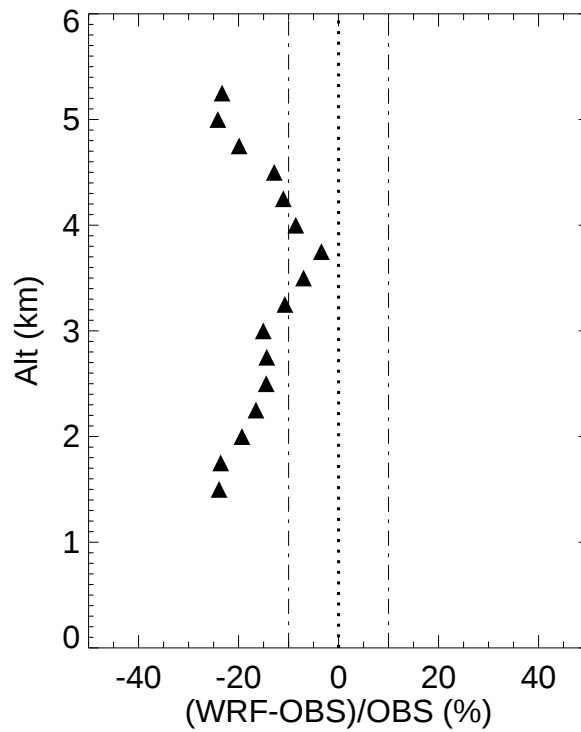
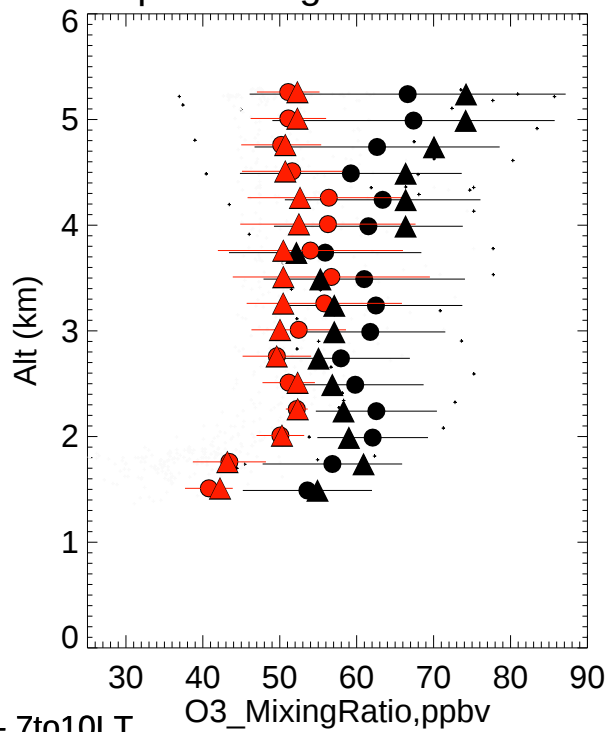
p3b All flight

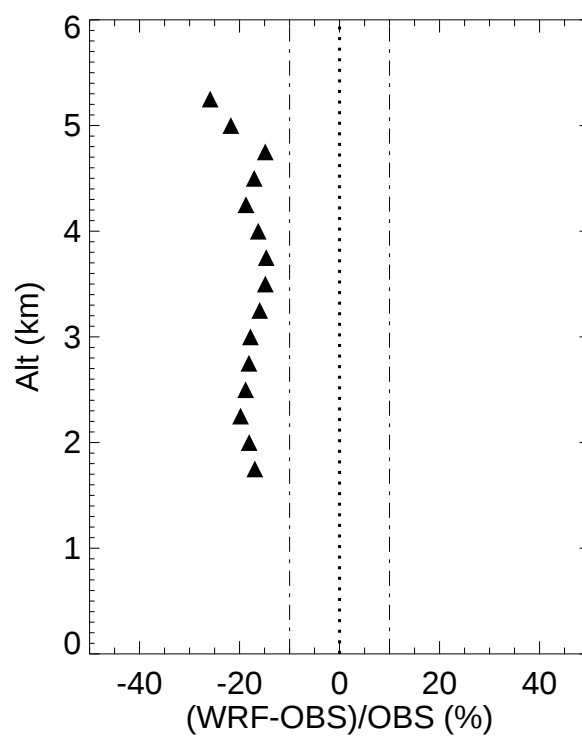
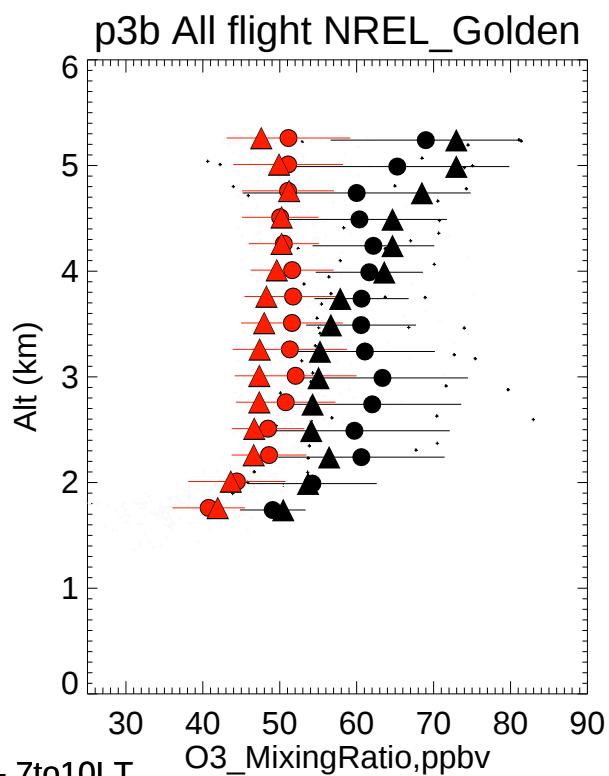
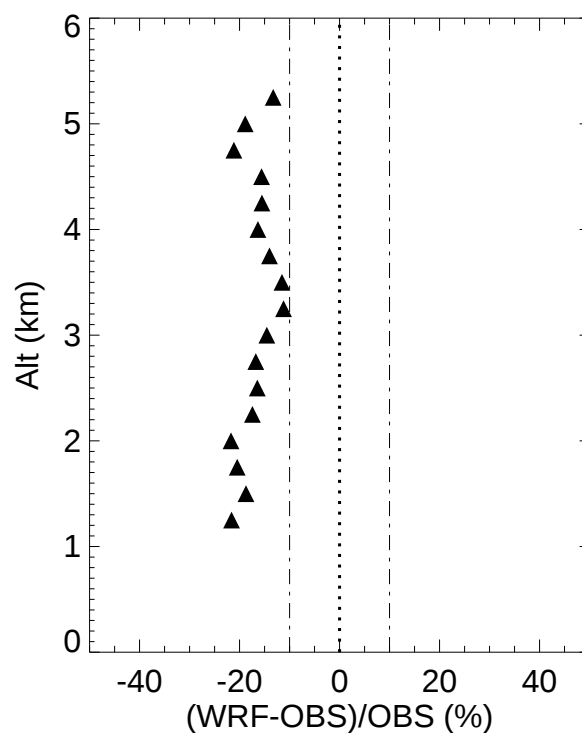
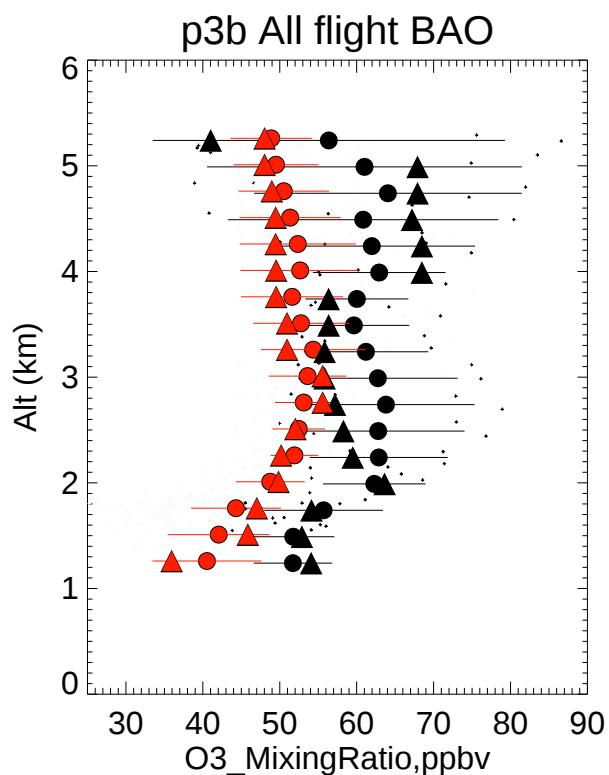


p3b All flight FortCollins

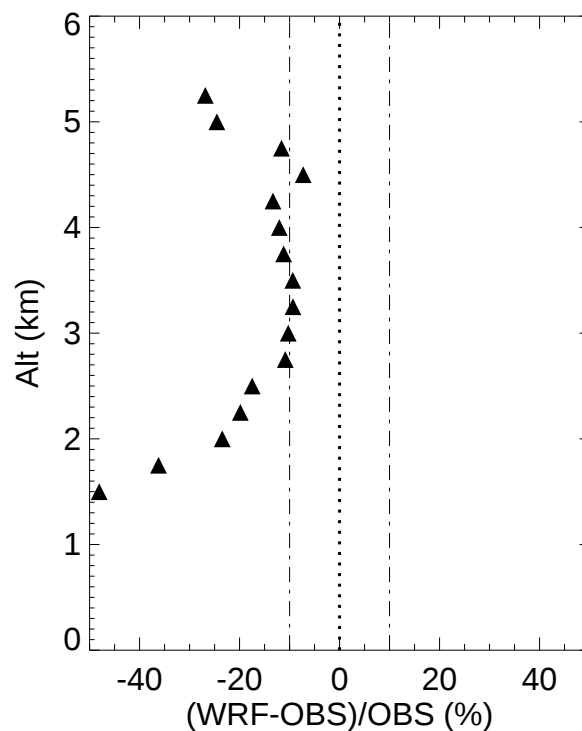
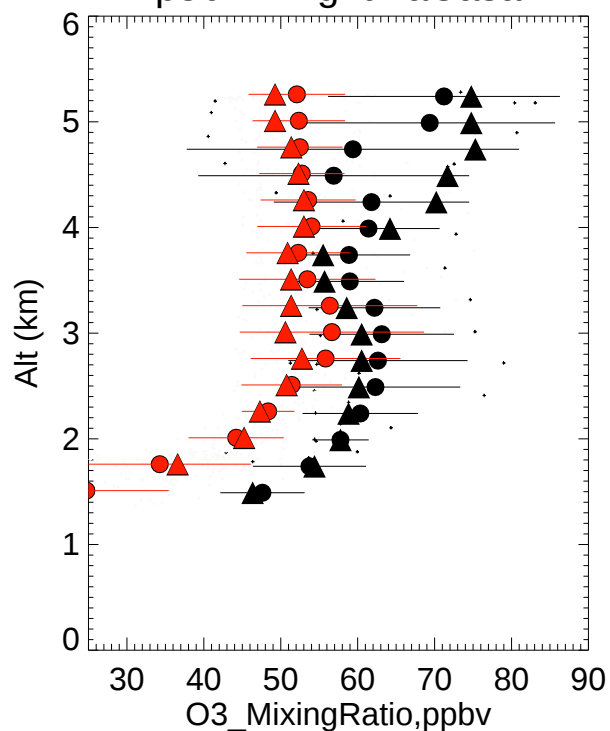


p3b All flight Platteville

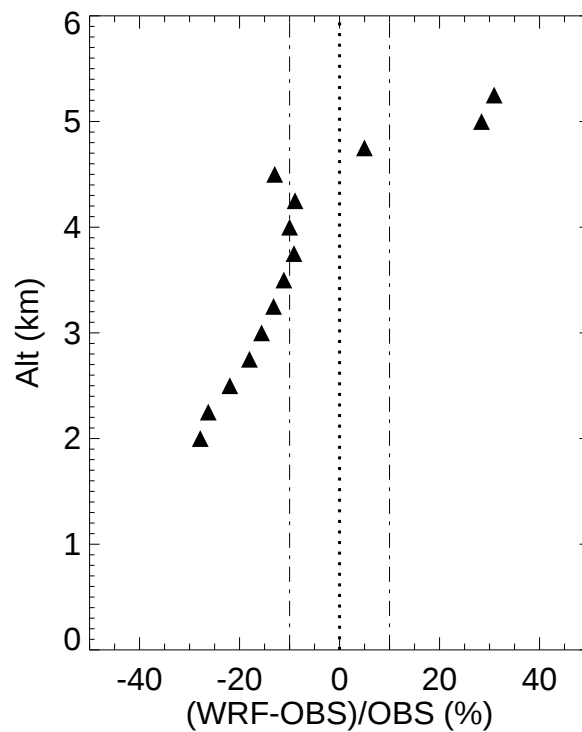
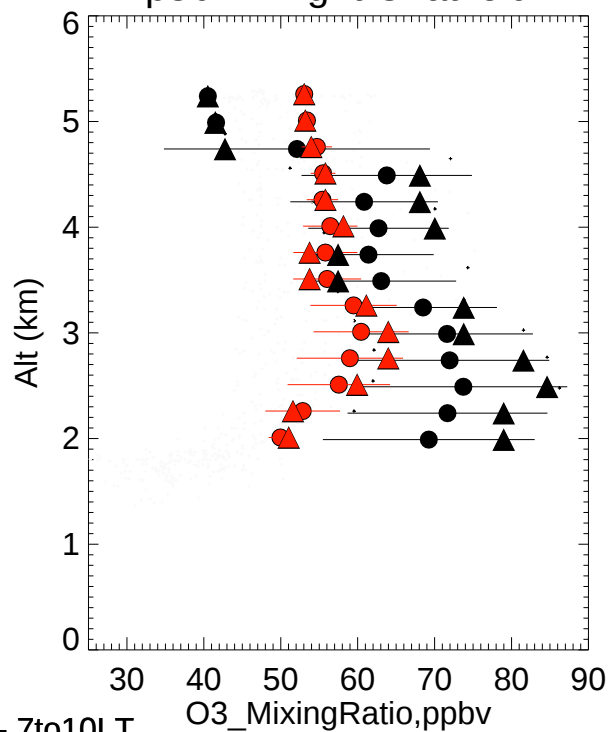




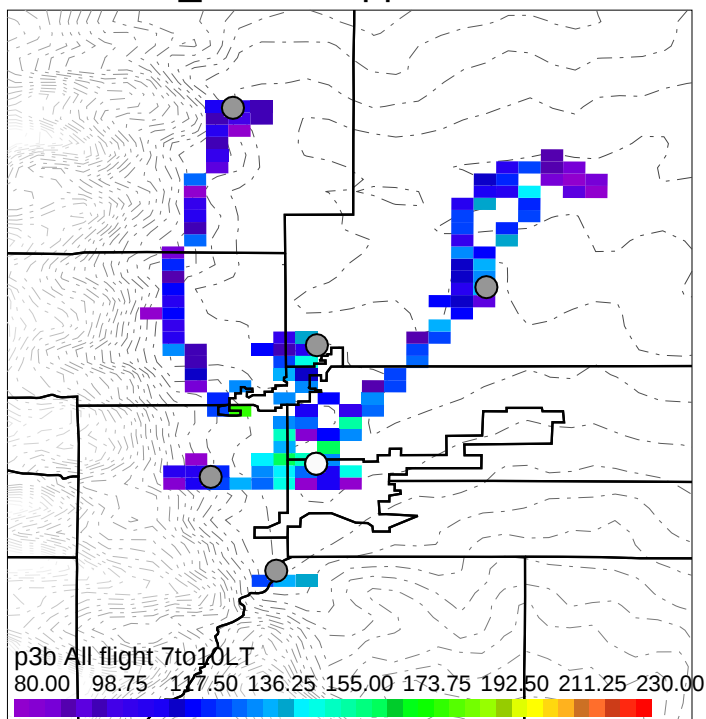
p3b All flight LaCasa



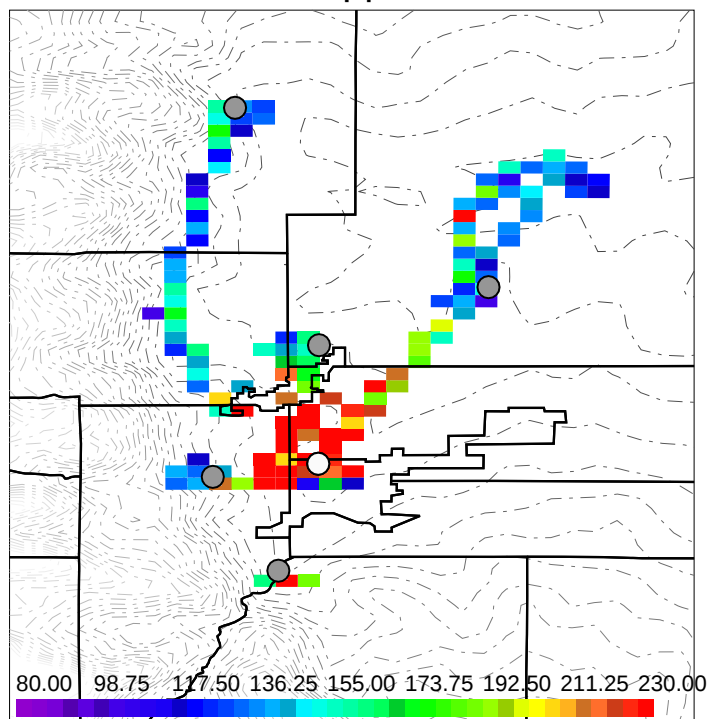
p3b All flight Chatfield



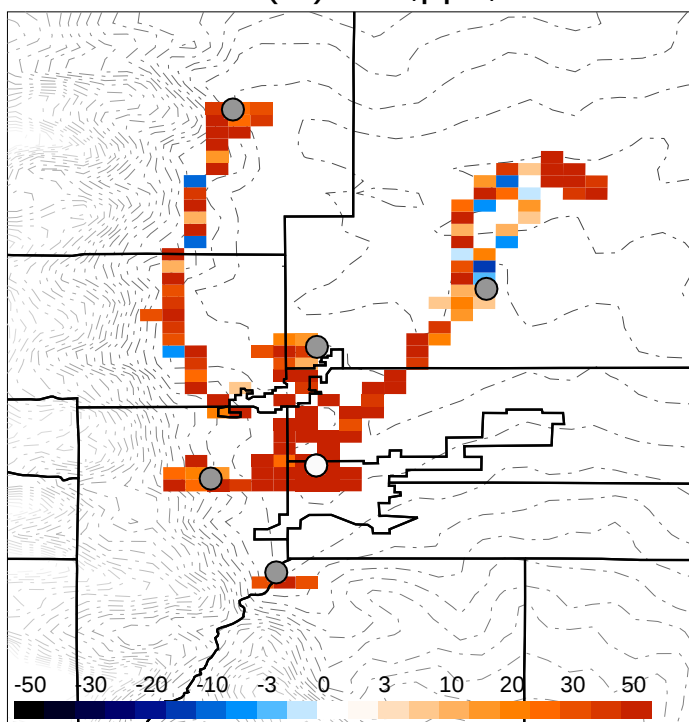
CO_DACOM,ppbv < 3 km



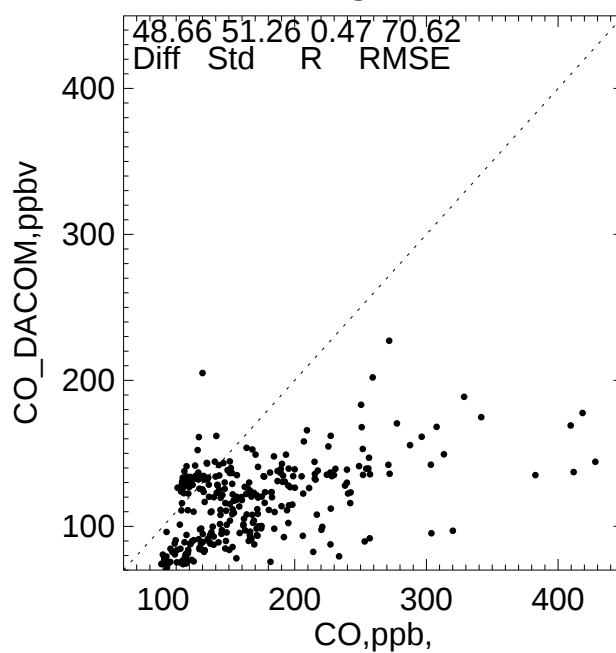
Model CO,ppb, < 3 km



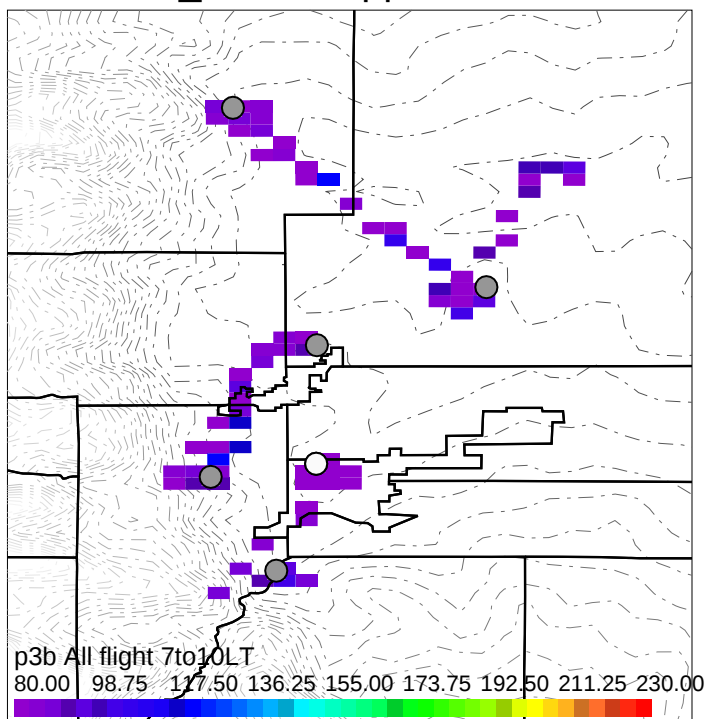
Model-Obs(%) CO,ppb, < 3 km



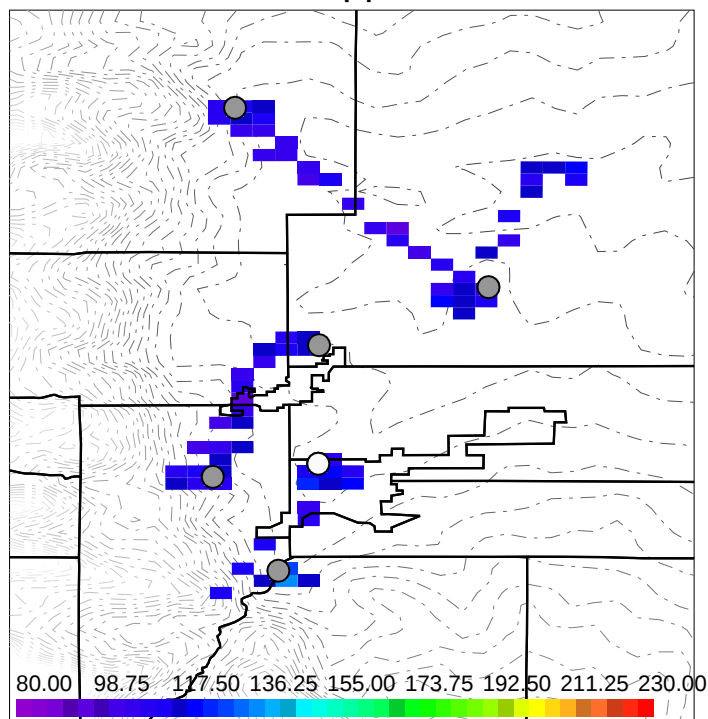
< 3 km



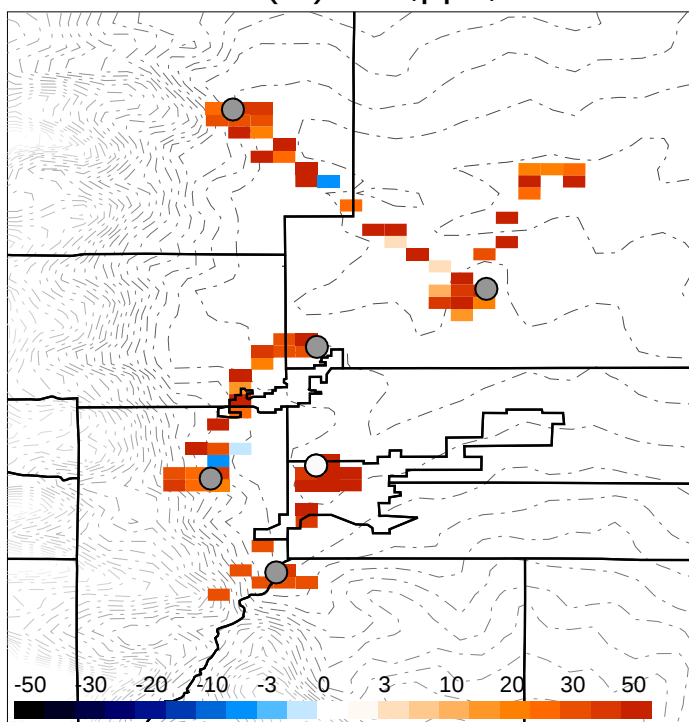
CO_DACOM,ppbv > 3 km



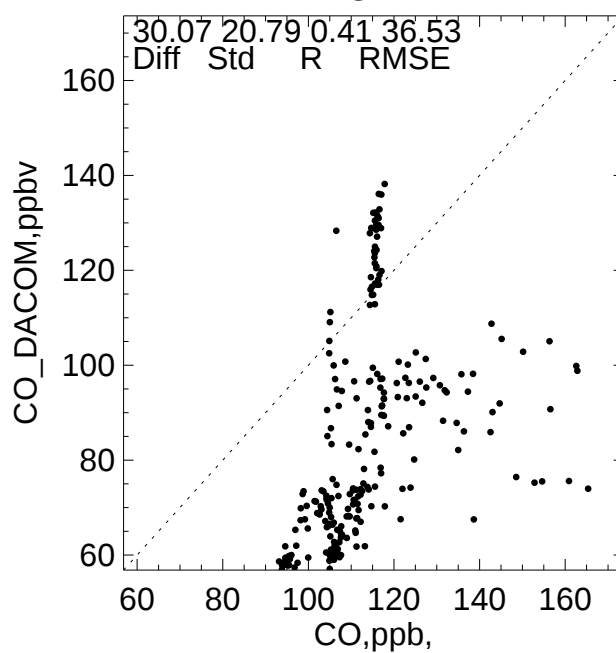
Model CO,ppb, > 3 km



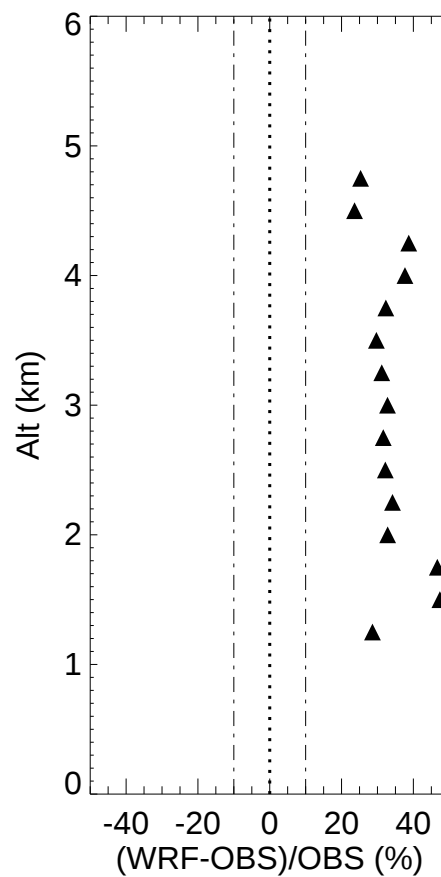
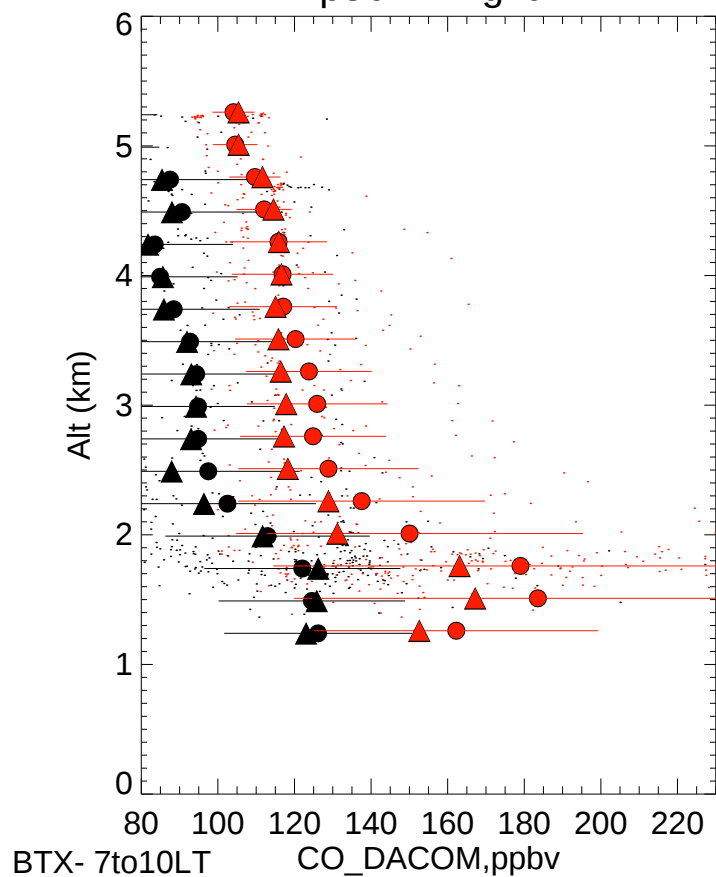
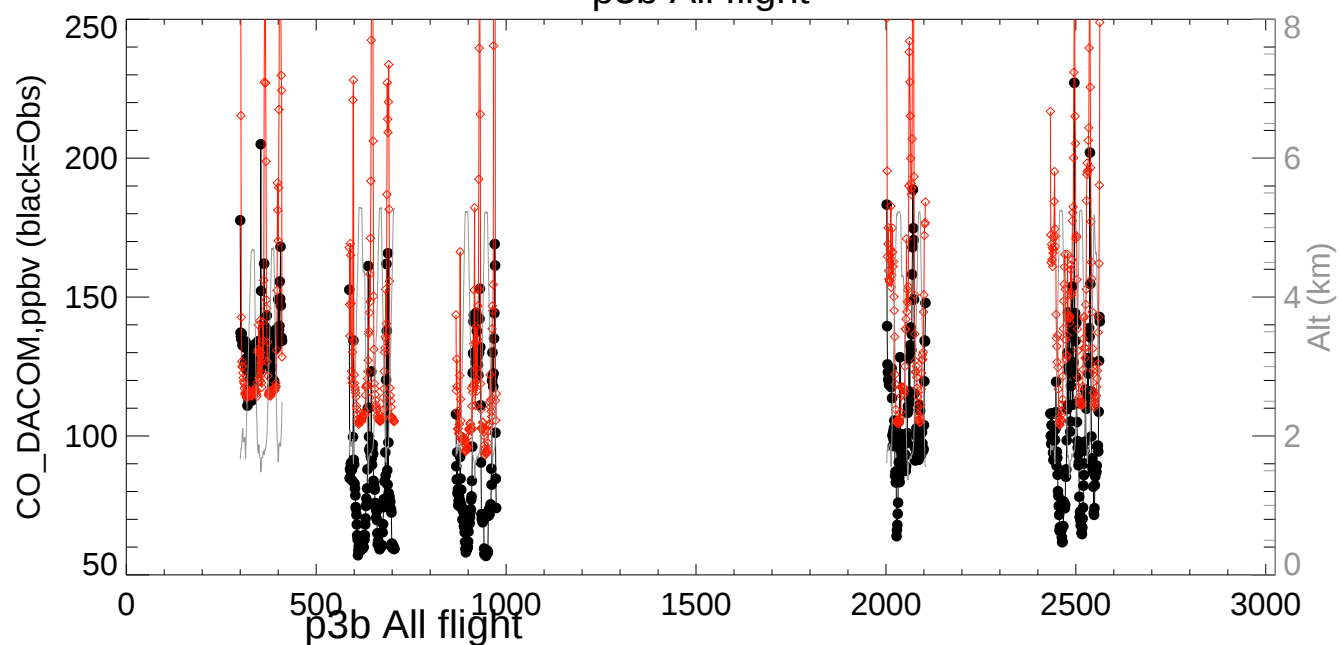
Model-Obs(%) CO,ppb, > 3 km



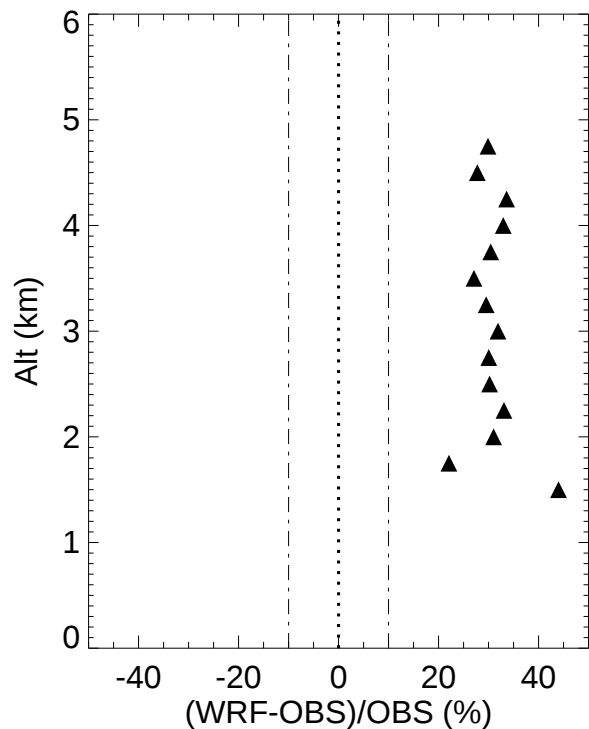
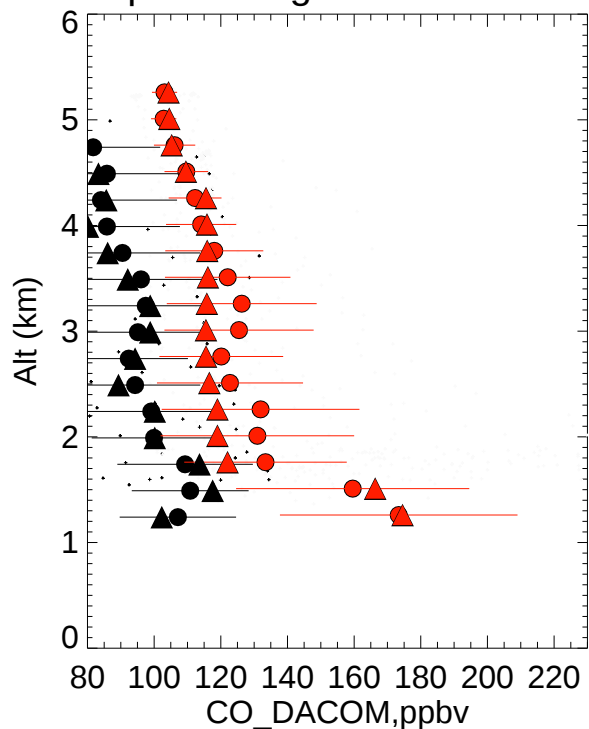
> 3 km



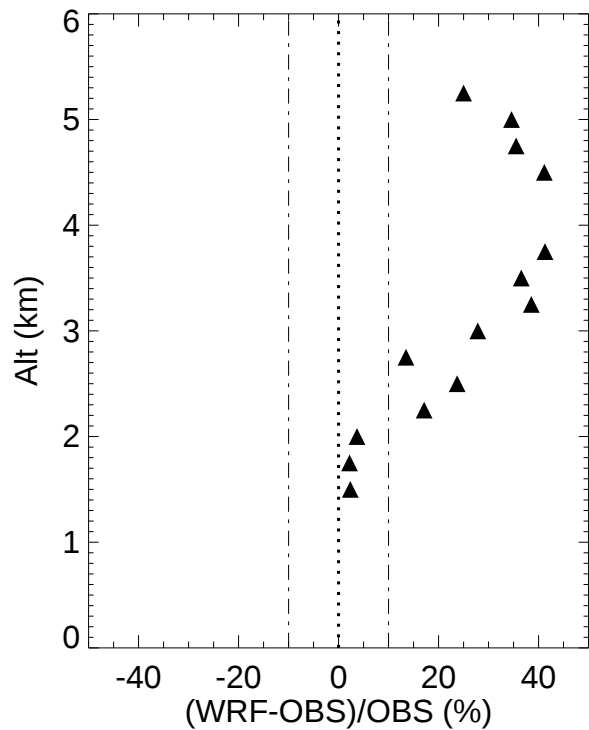
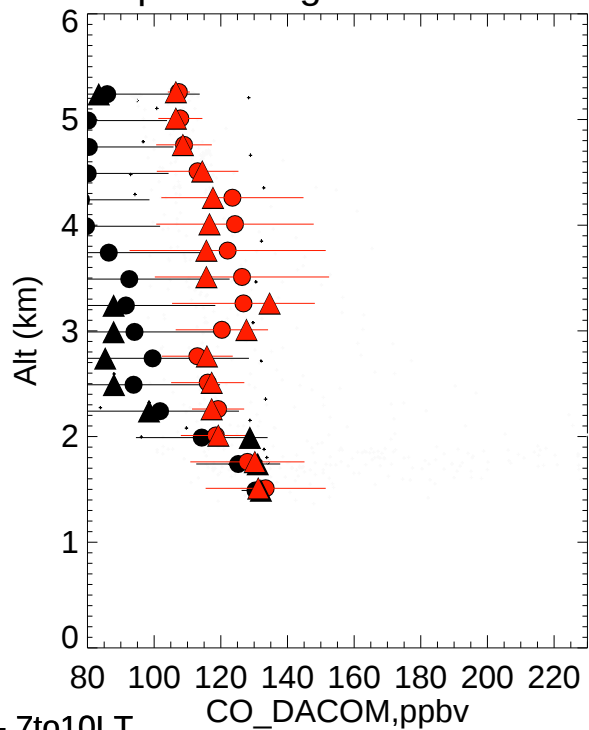
p3b All flight



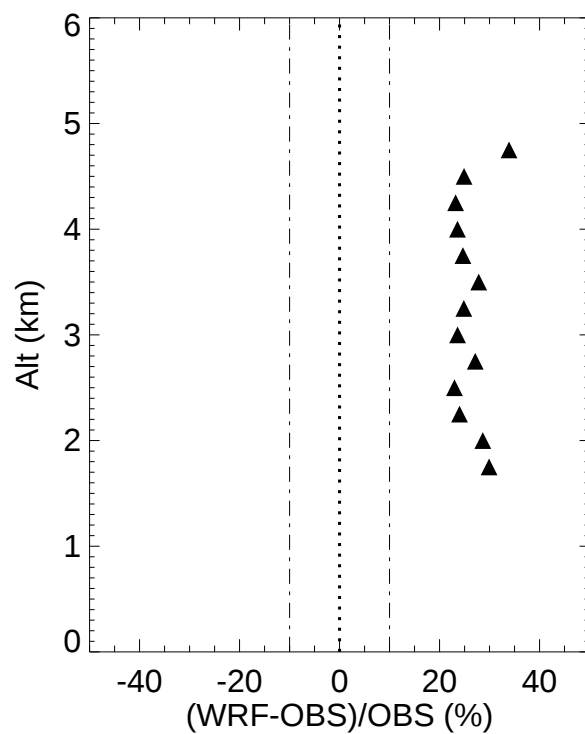
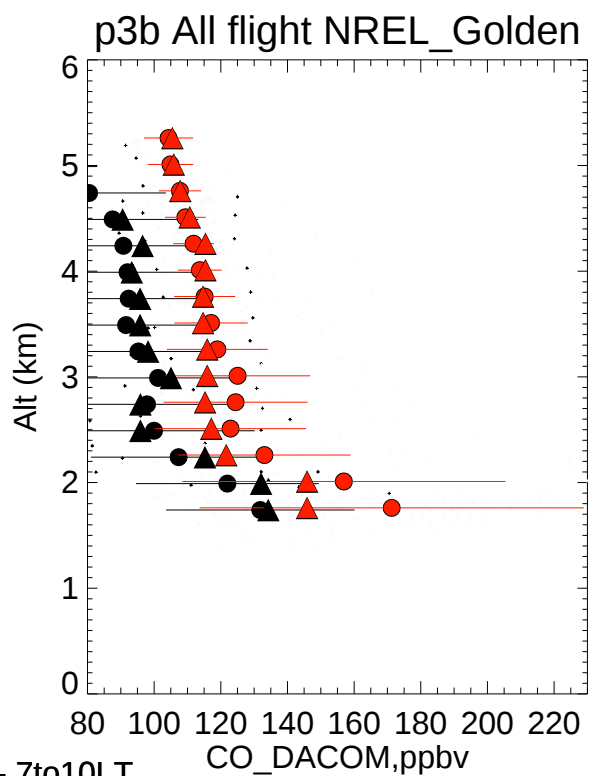
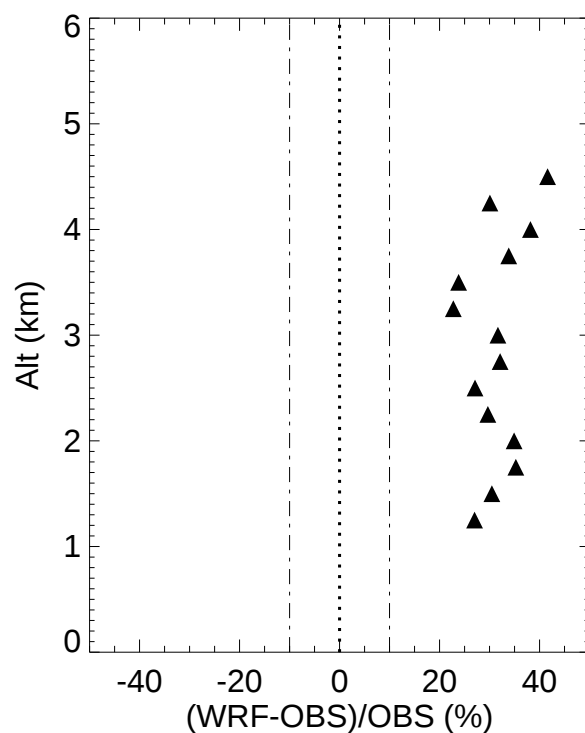
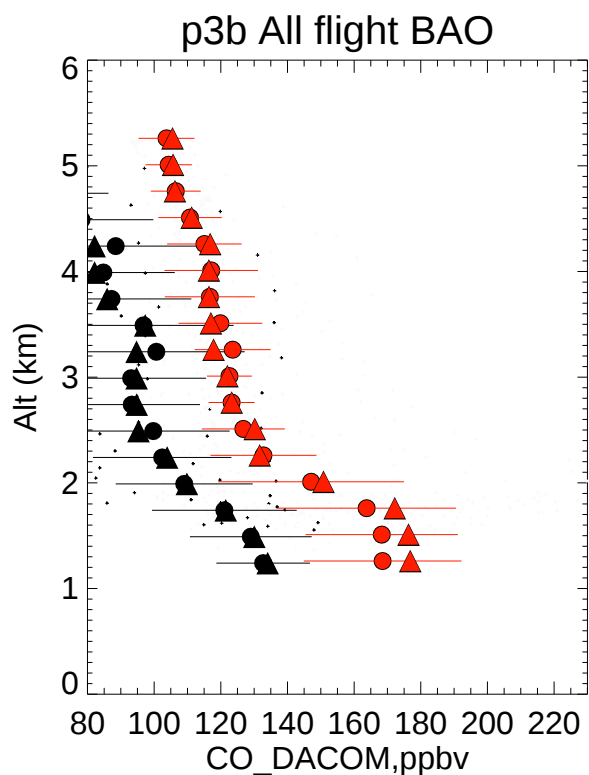
p3b All flight FortCollins



p3b All flight Platteville

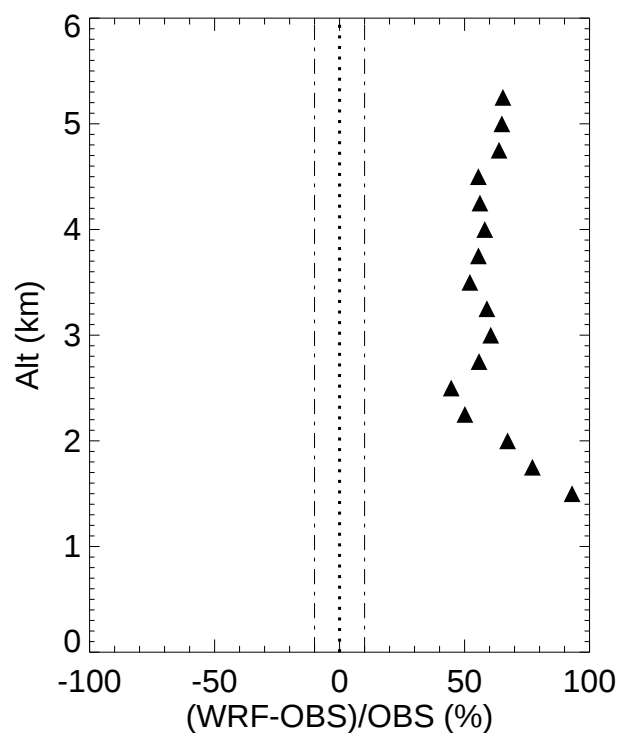
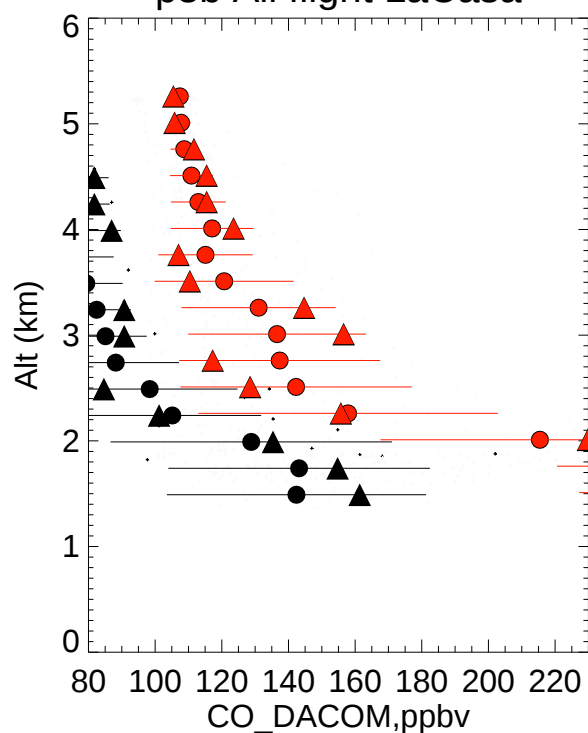


BTX- 7to10LT

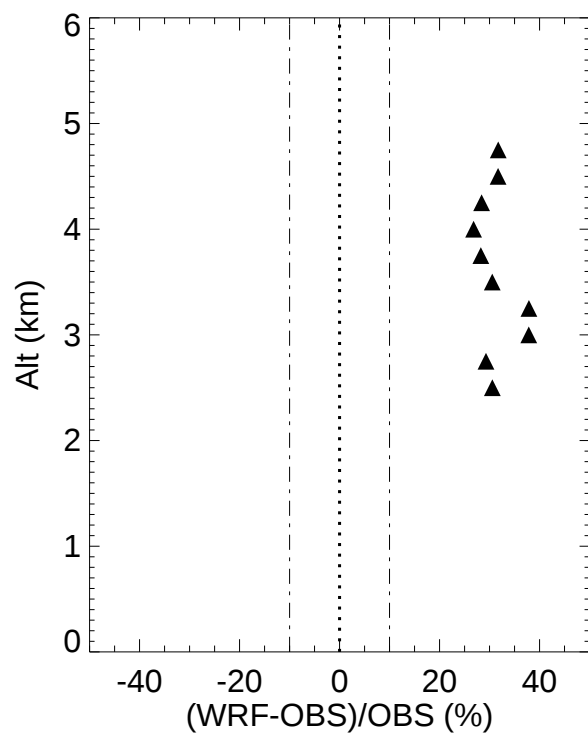
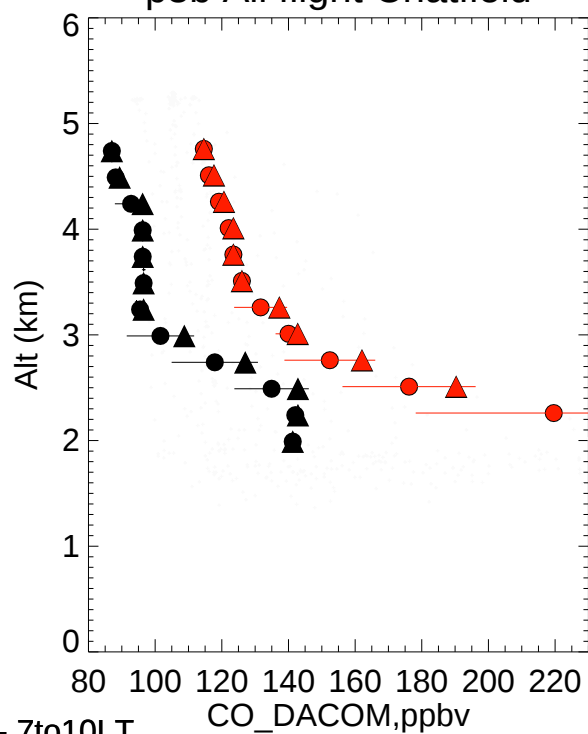


BTX- 7to10LT

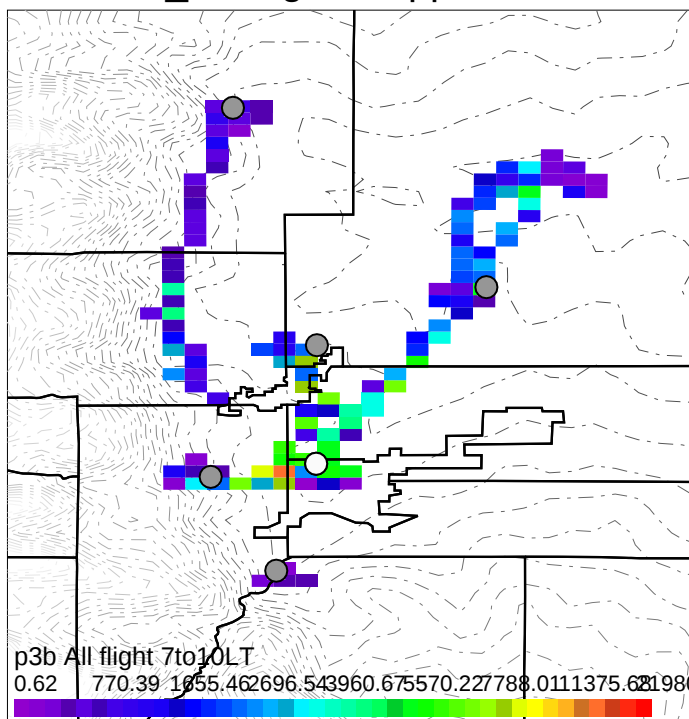
p3b All flight LaCasa



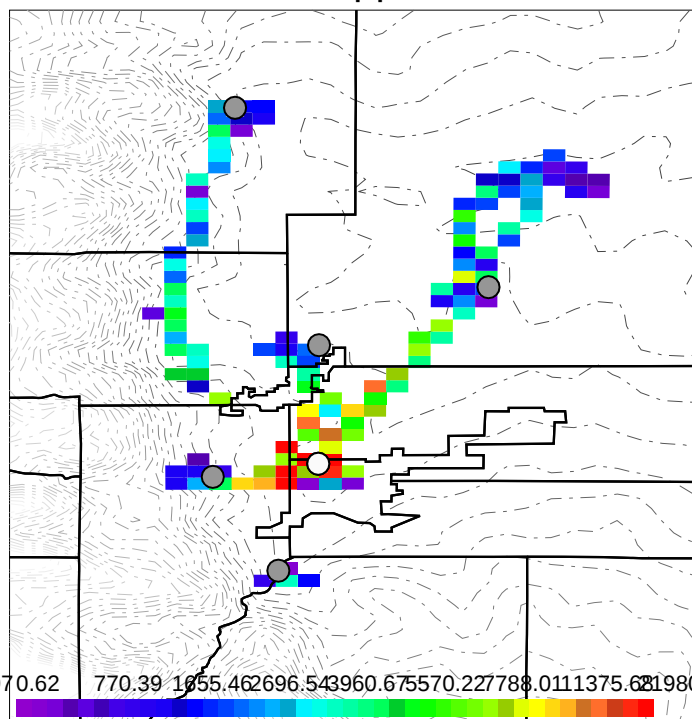
p3b All flight Chatfield



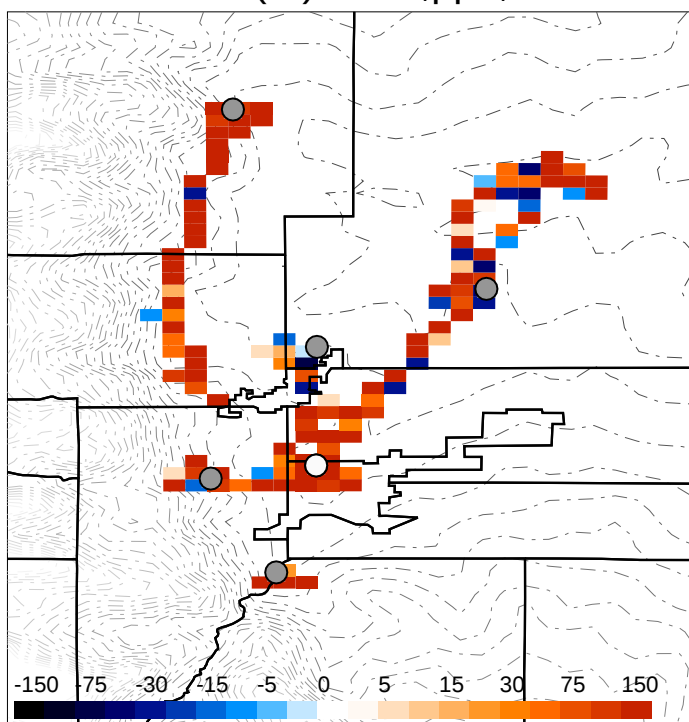
NO2_MixingRatio,pptv < 3 km



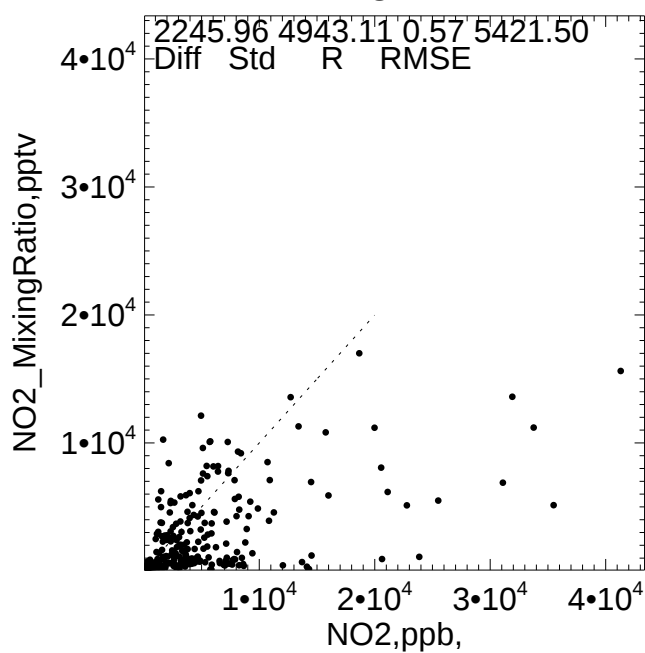
Model NO2,ppb, < 3 km



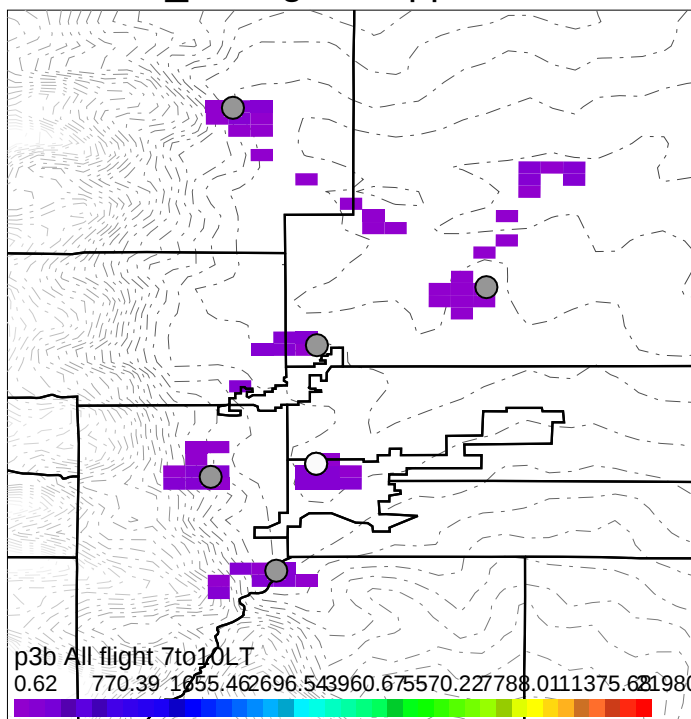
Model-Obs(%) NO2,ppb, < 3 km



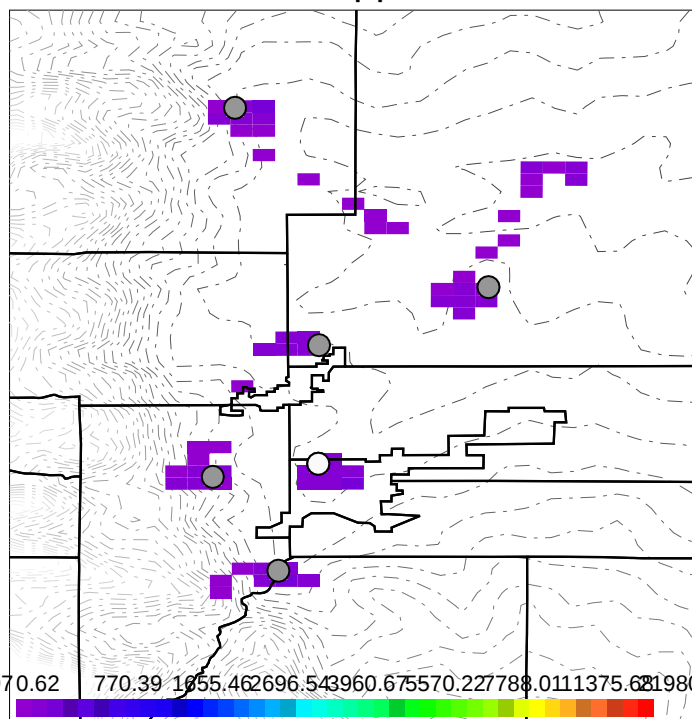
< 3 km



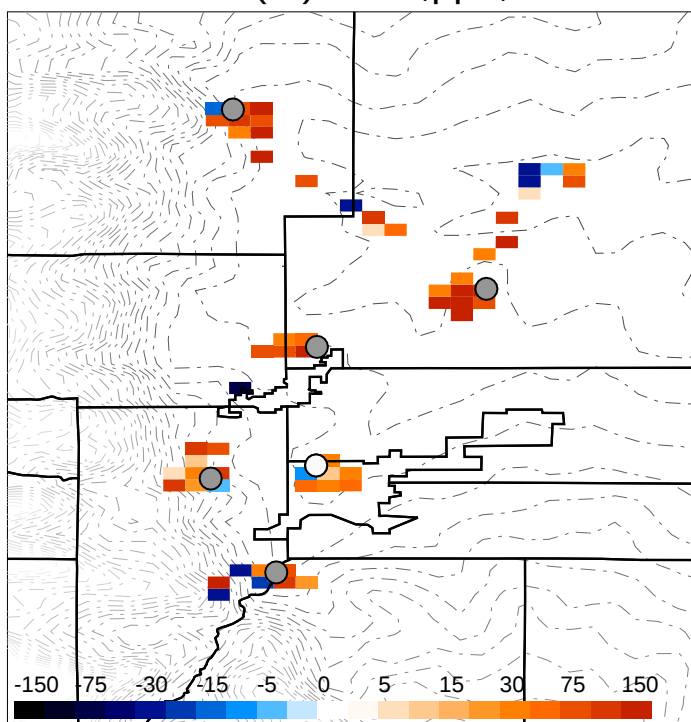
NO2_MixingRatio,pptv > 3 km



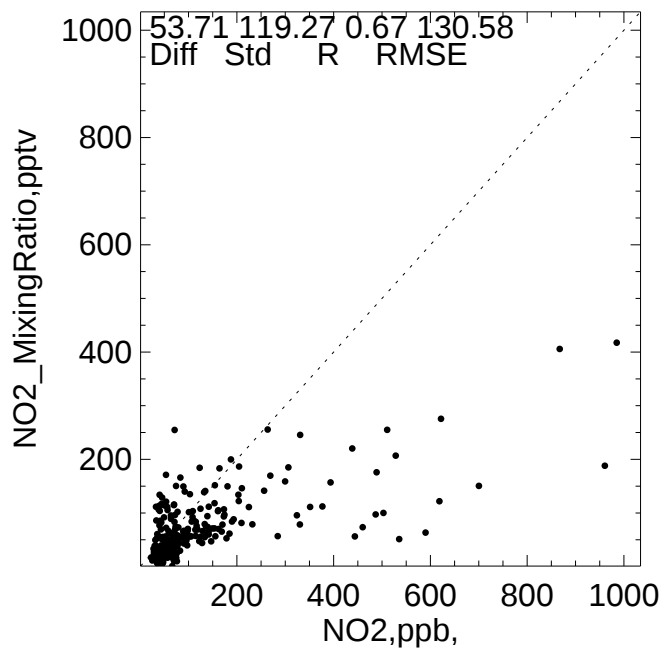
Model NO2,ppb, > 3 km



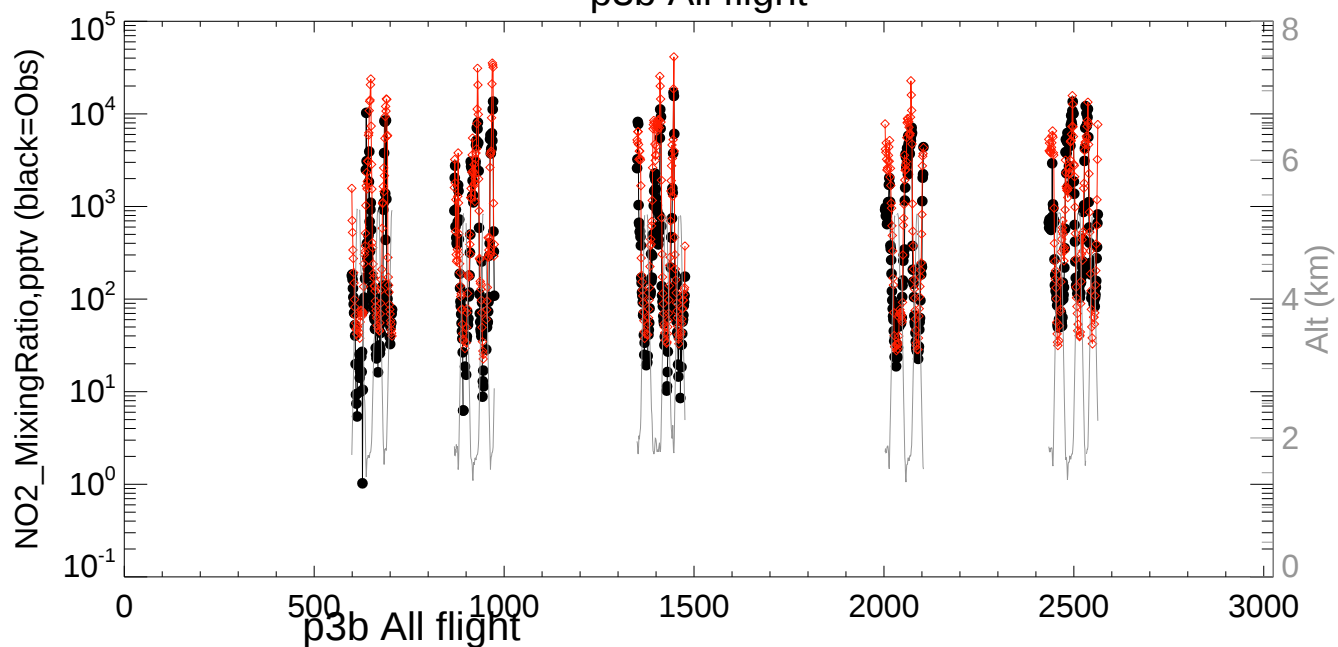
Model-Obs(%) NO2,ppb, > 3 km



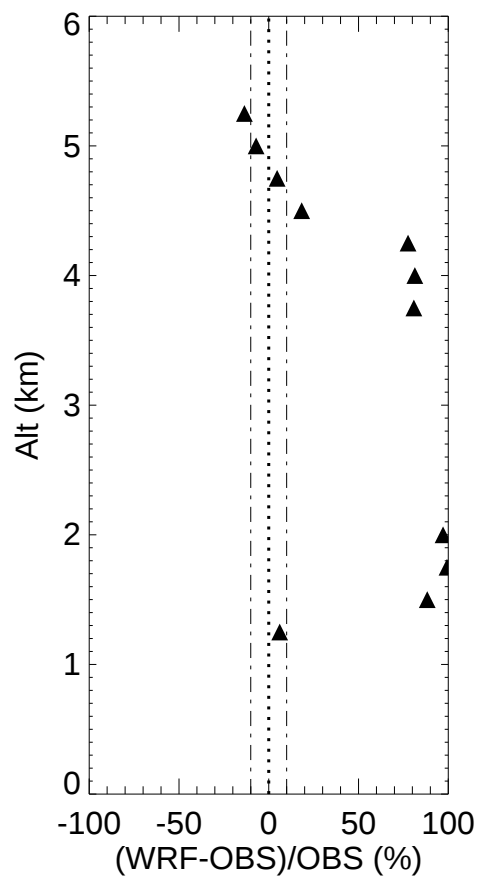
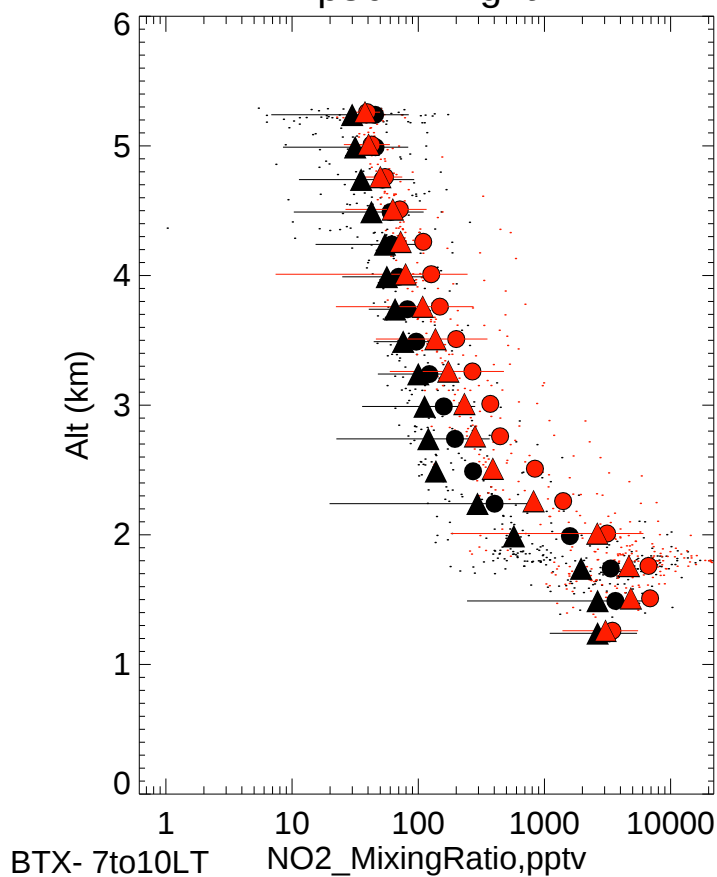
> 3 km



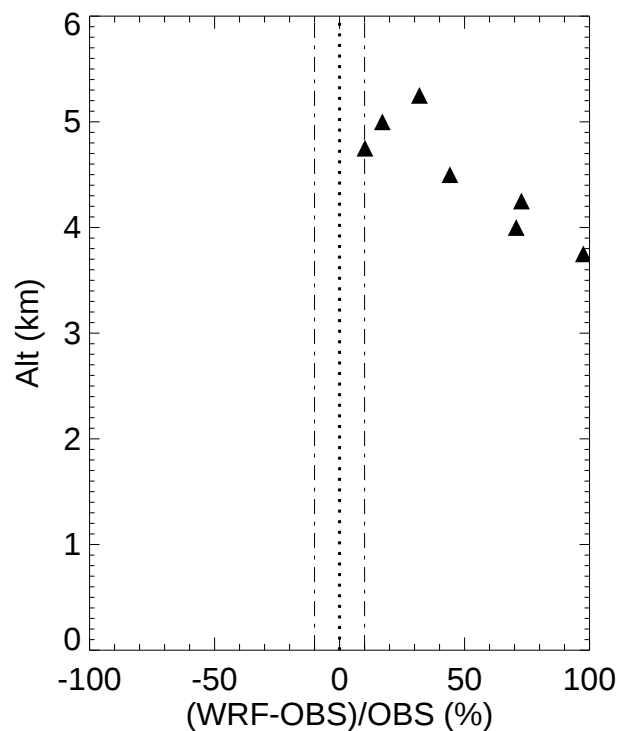
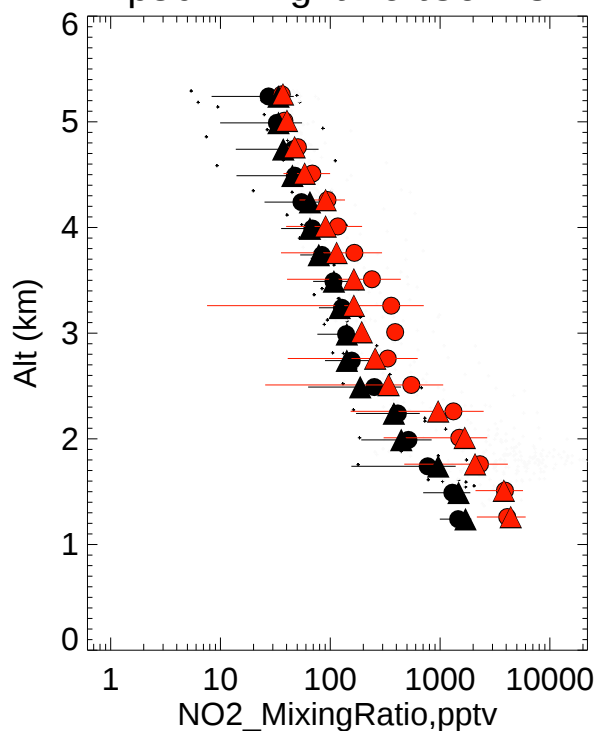
p3b All flight



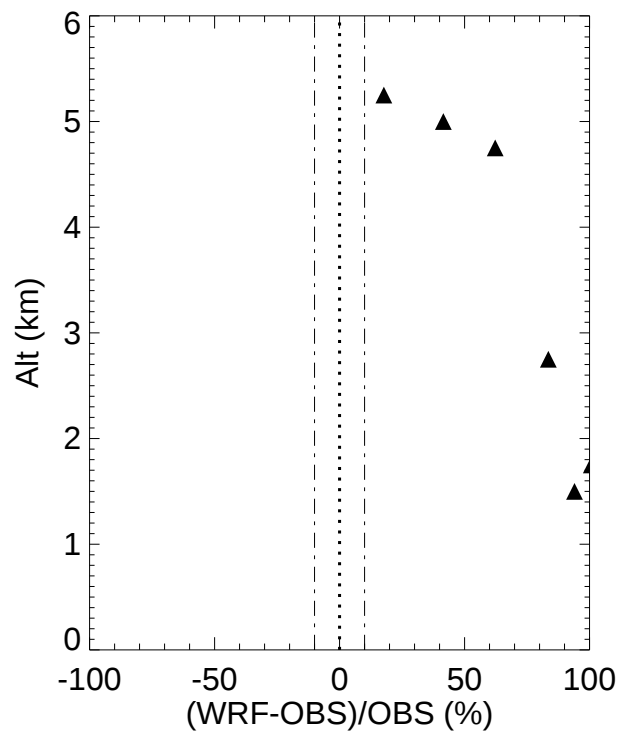
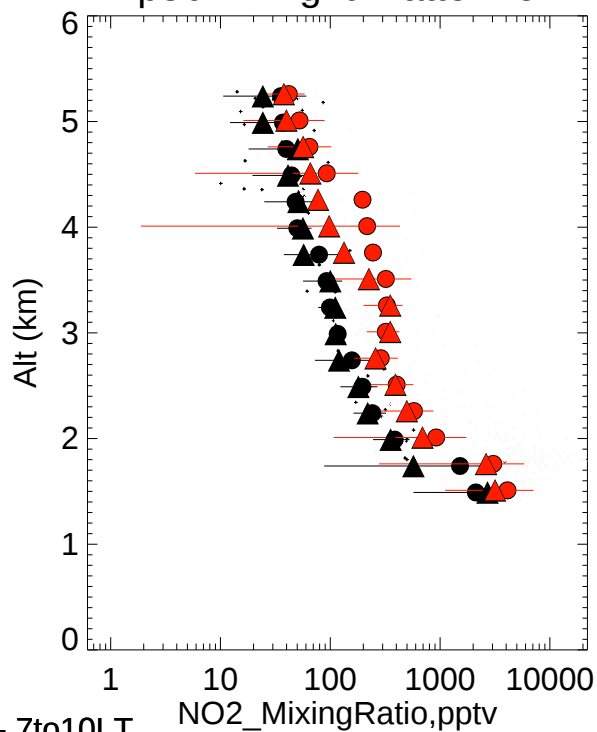
p3b All flight

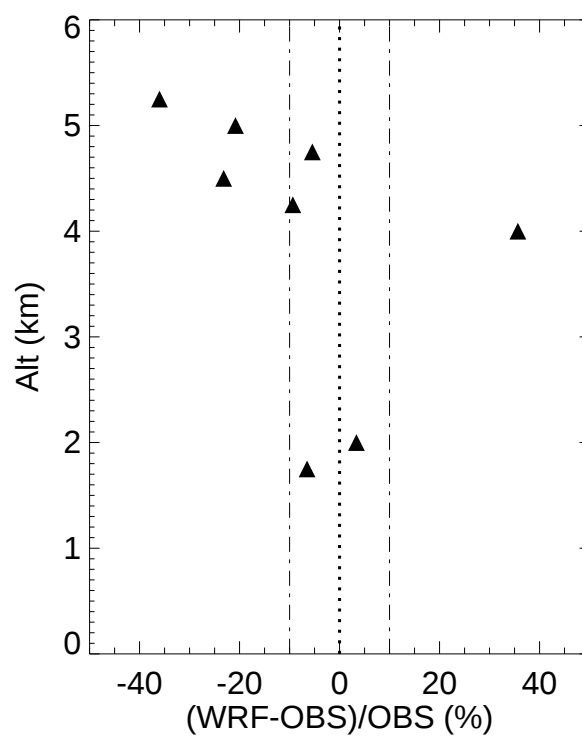
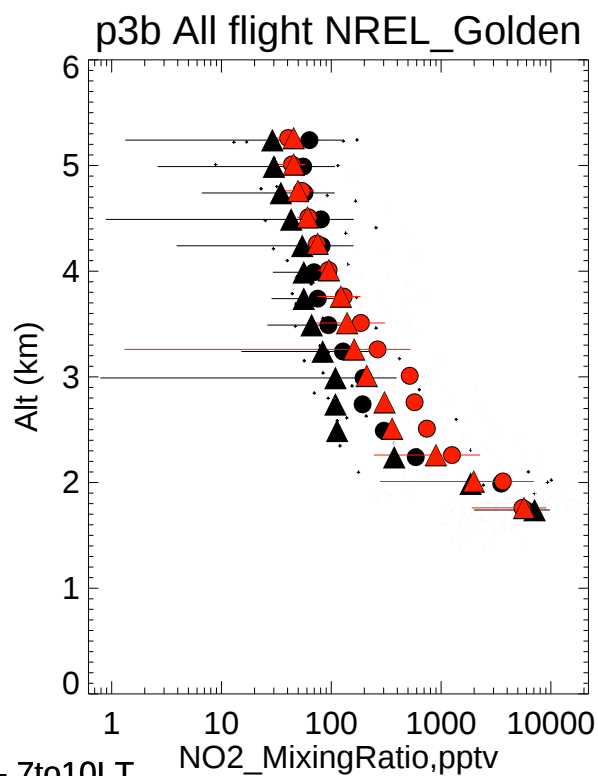
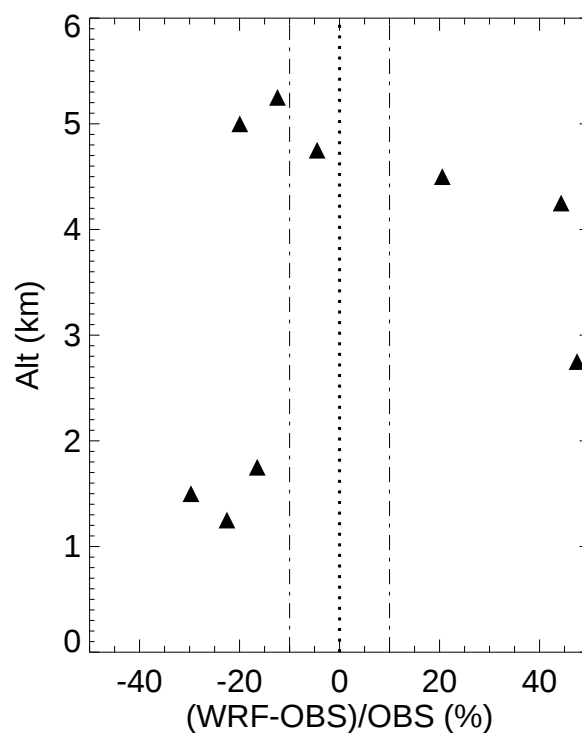
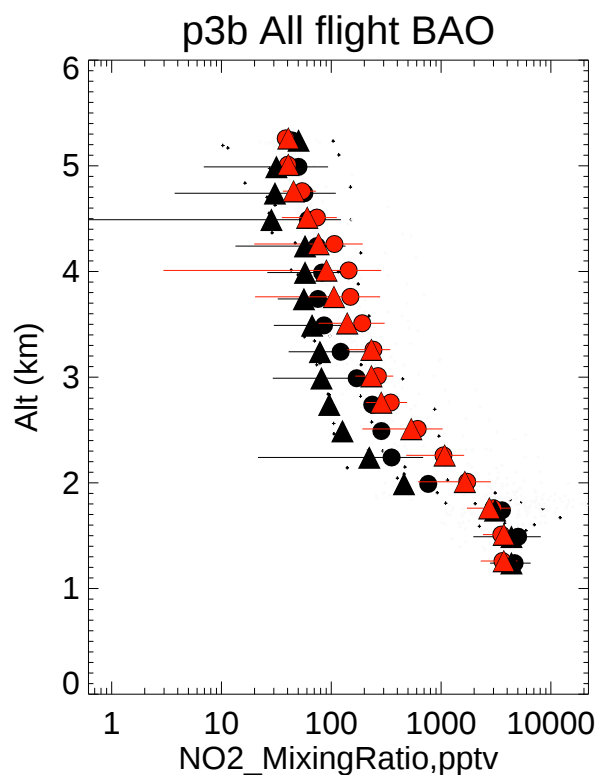


p3b All flight FortCollins

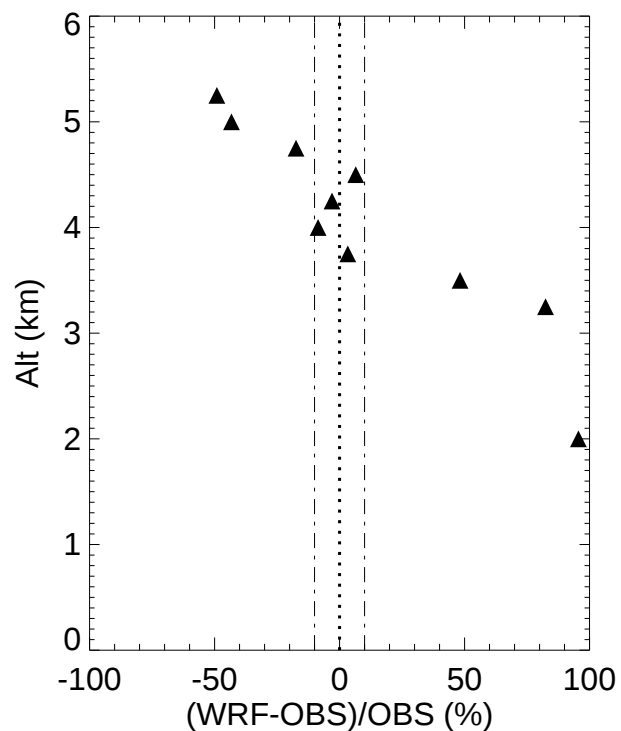
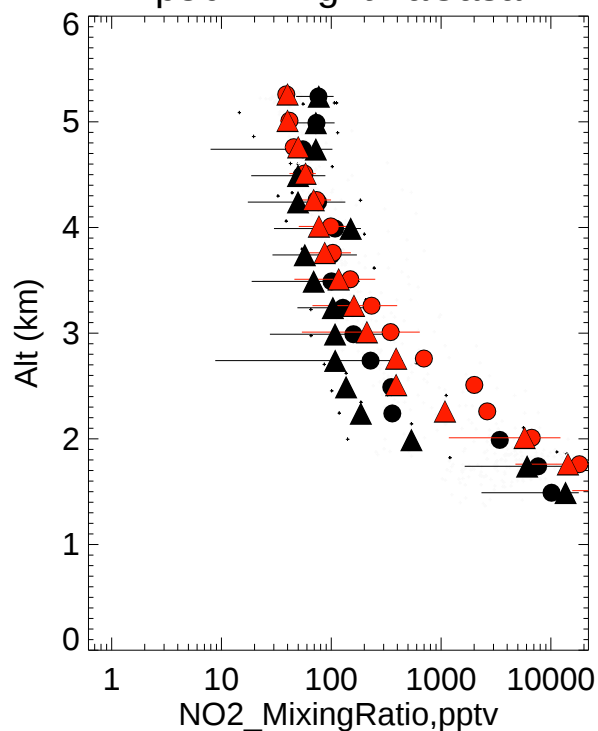


p3b All flight Platteville

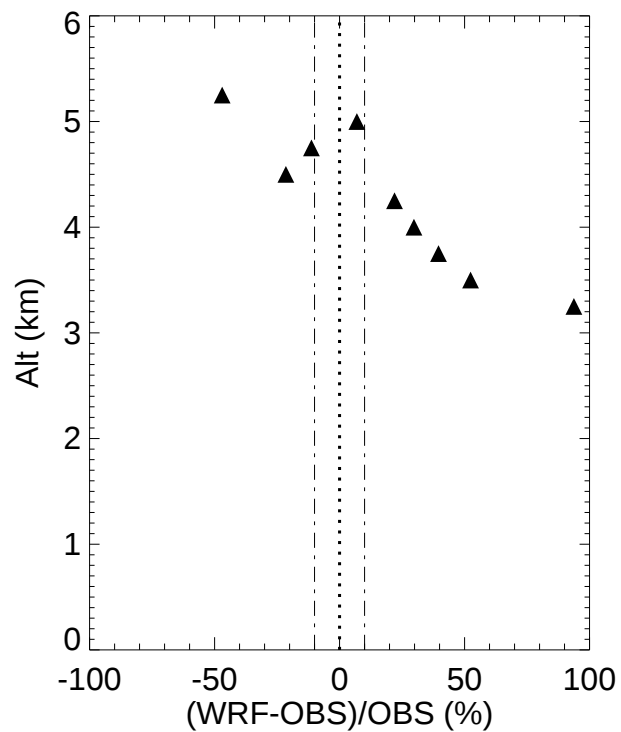
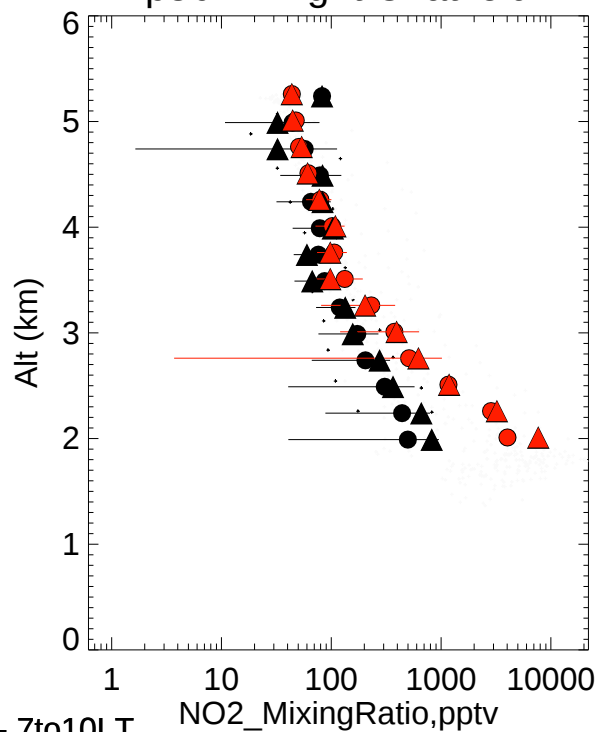




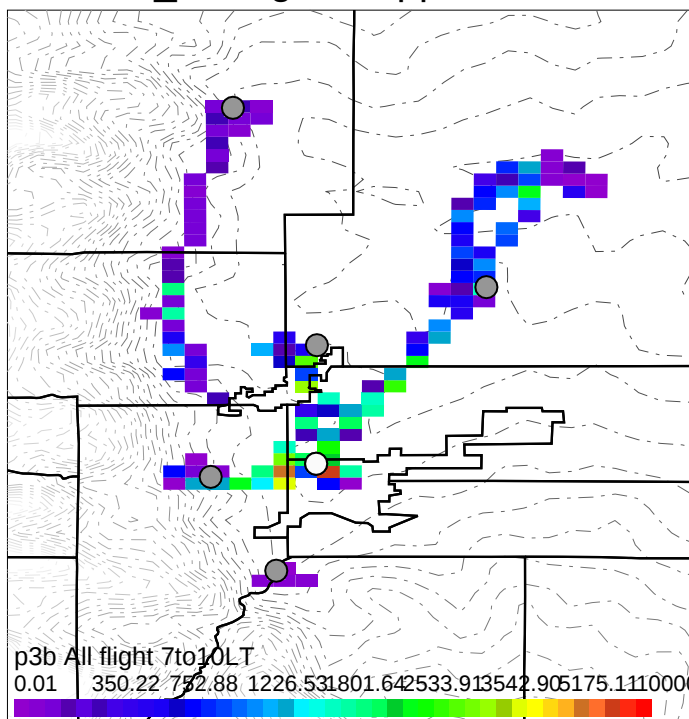
p3b All flight LaCasa



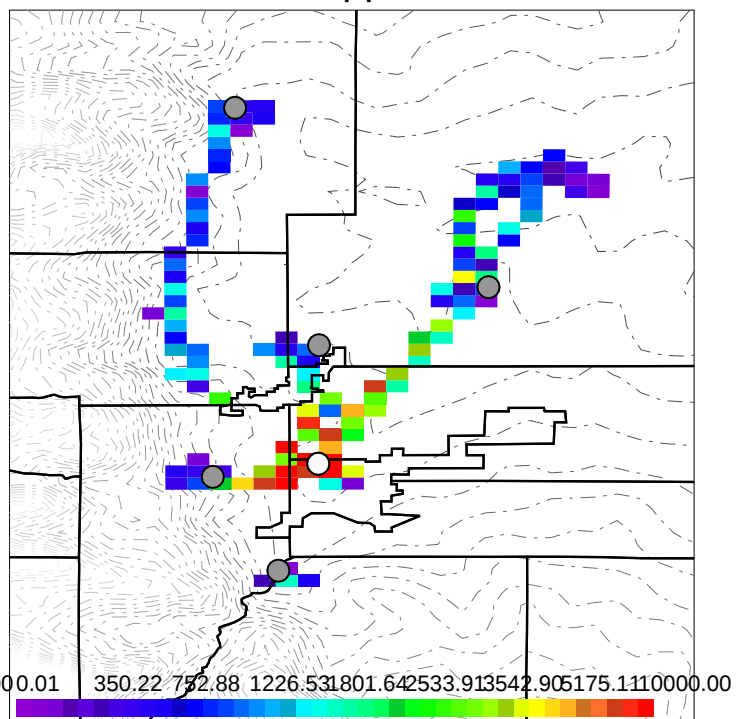
p3b All flight Chatfield



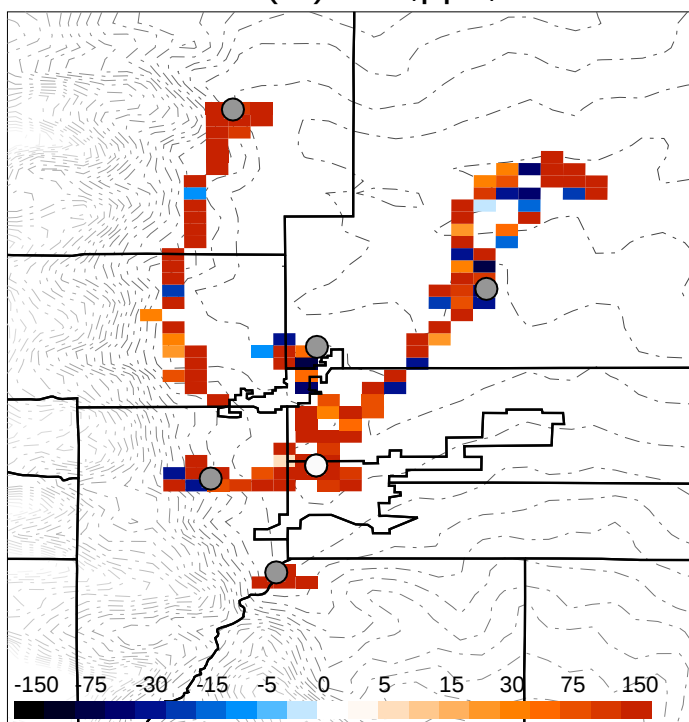
NO_MixingRatio,pptv < 3 km



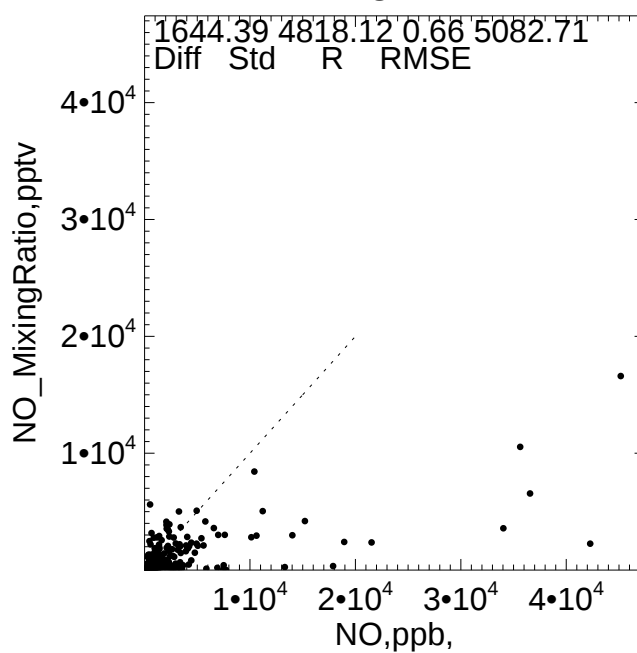
Model NO,ppb, < 3 km



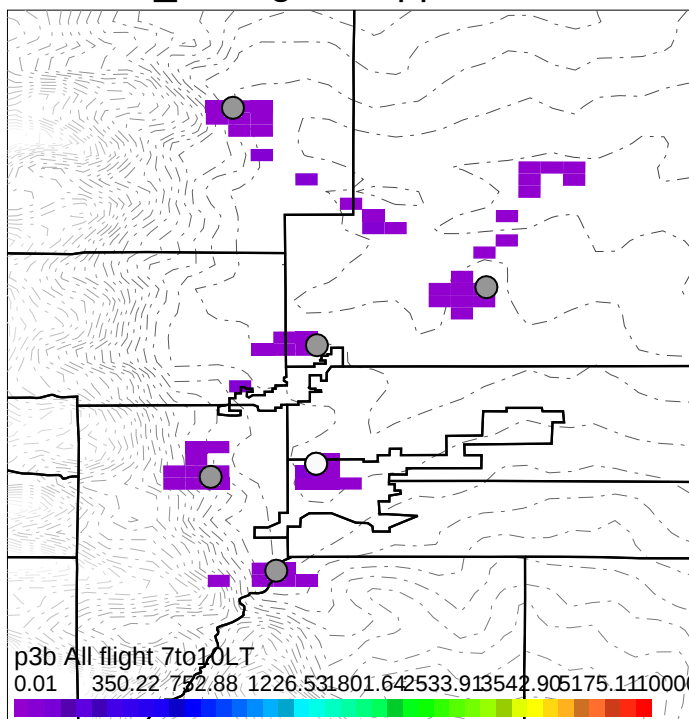
Model-Obs(%) NO,ppb, < 3 km



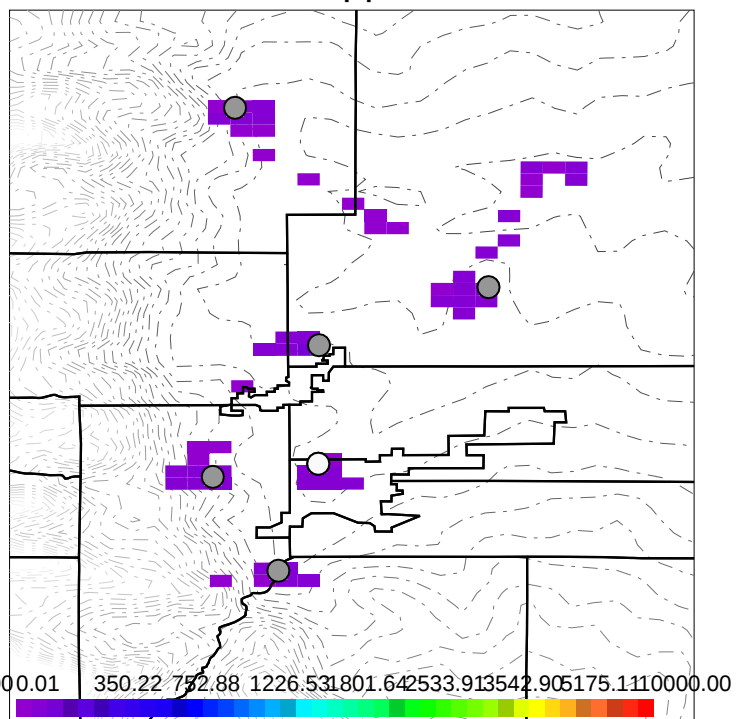
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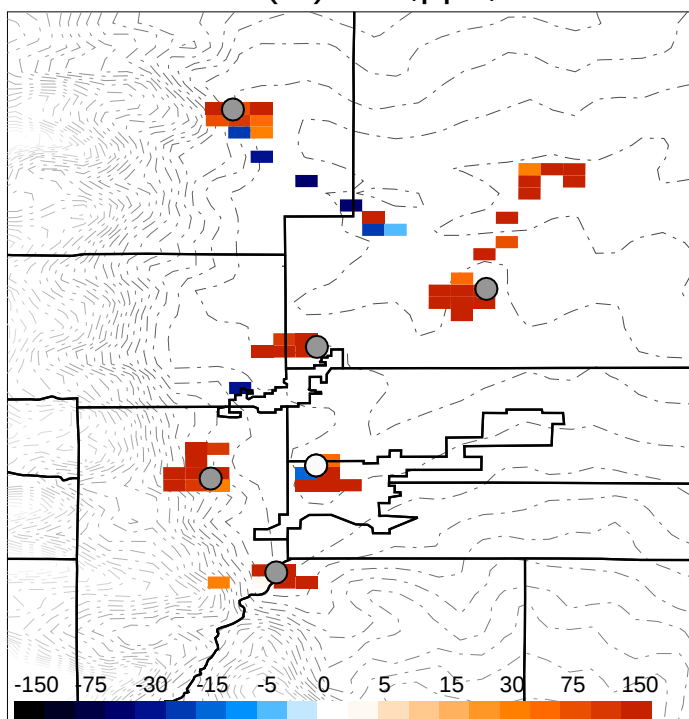
NO_MixingRatio,pptv > 3 km



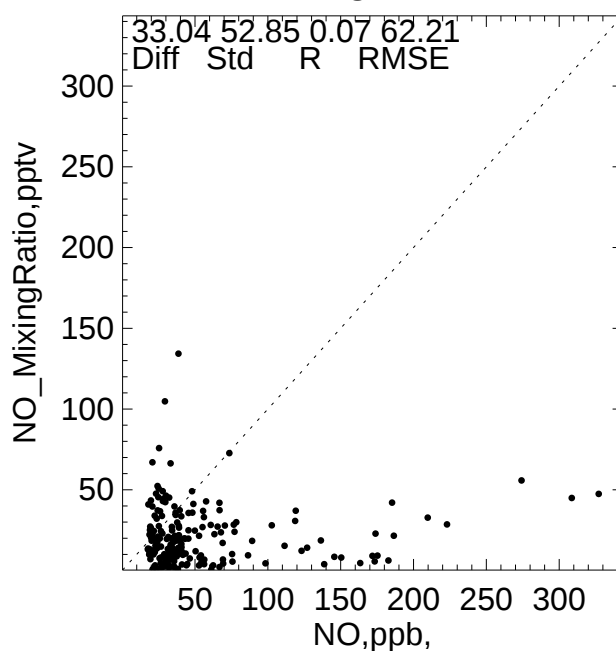
Model NO,ppb, > 3 km

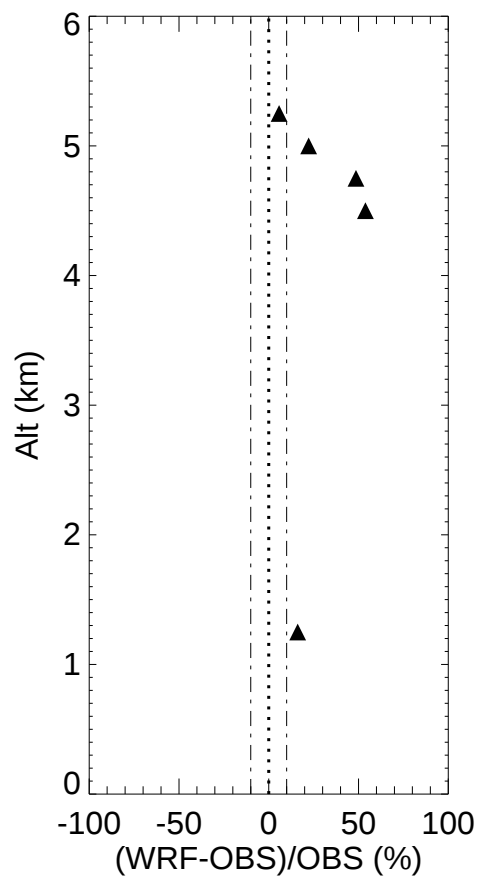
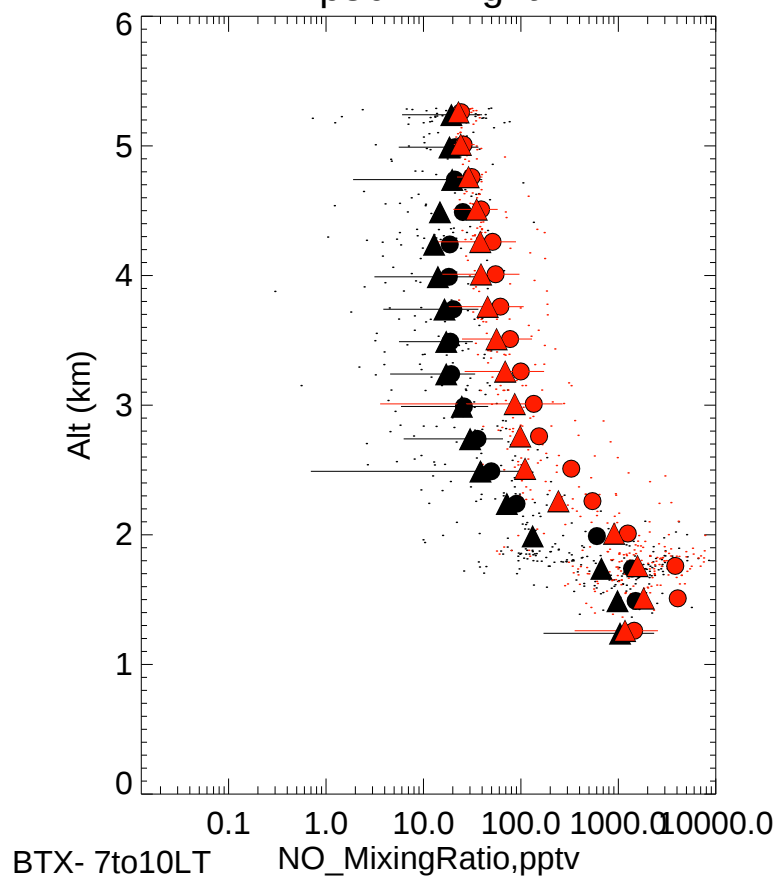
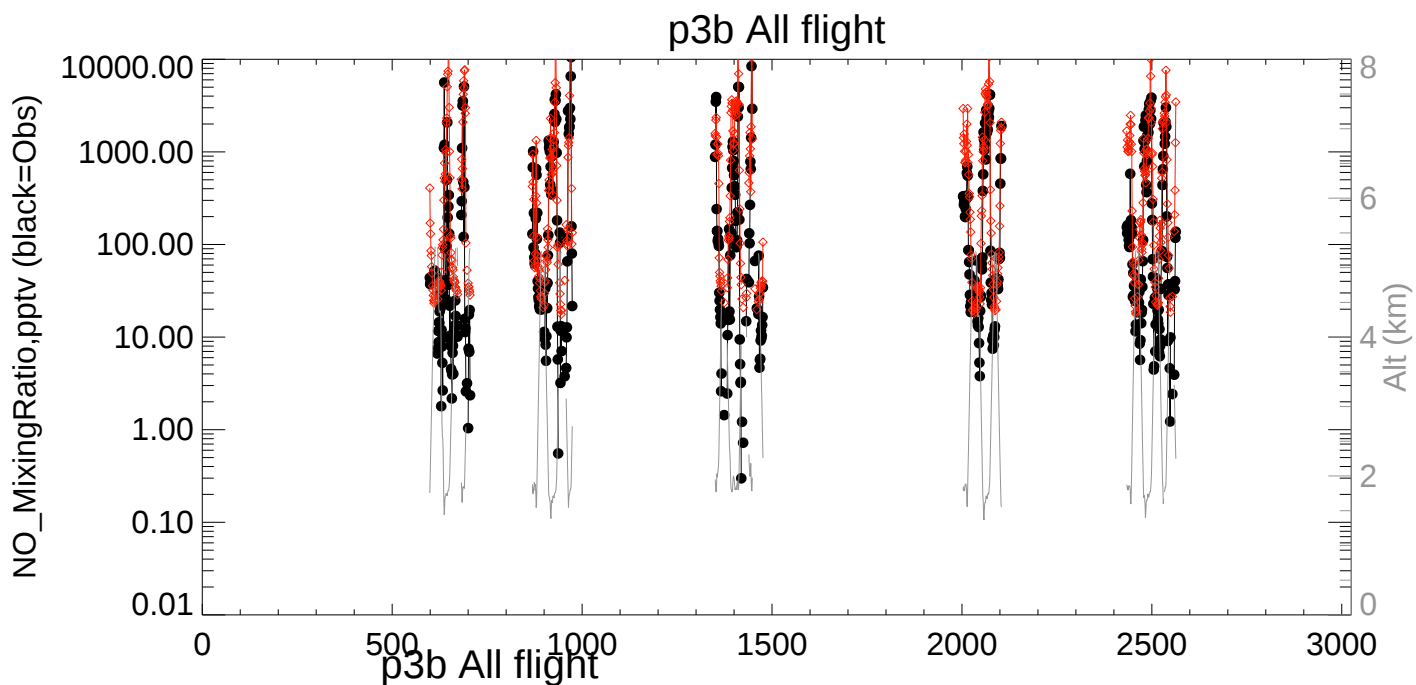


Model-Obs(%) NO,ppb, > 3 km

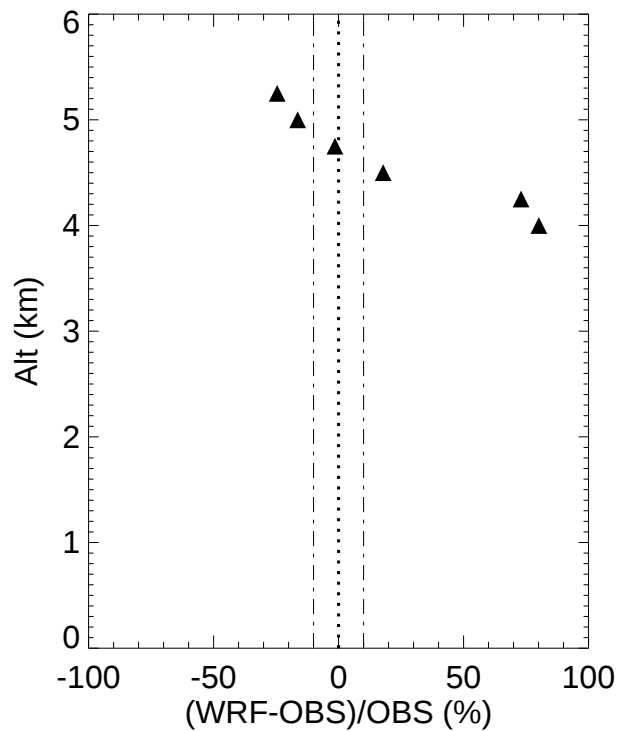
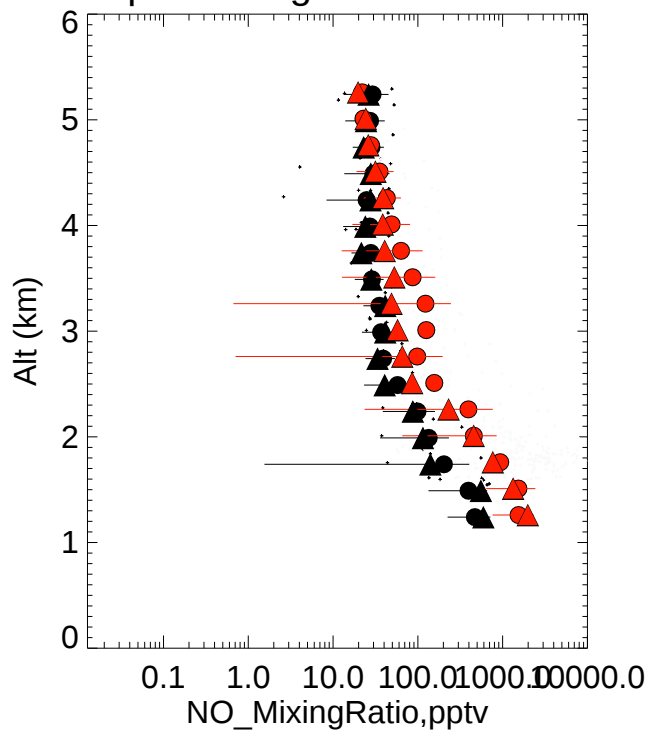


> 3 km

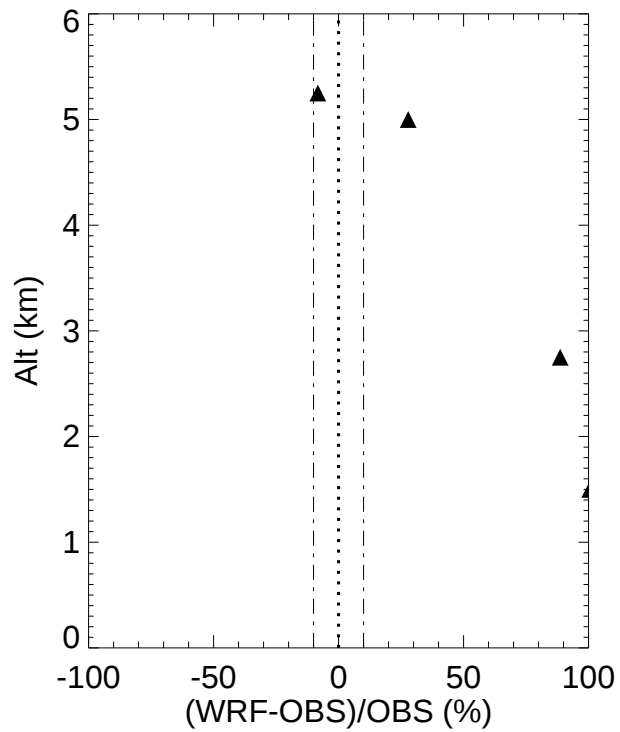
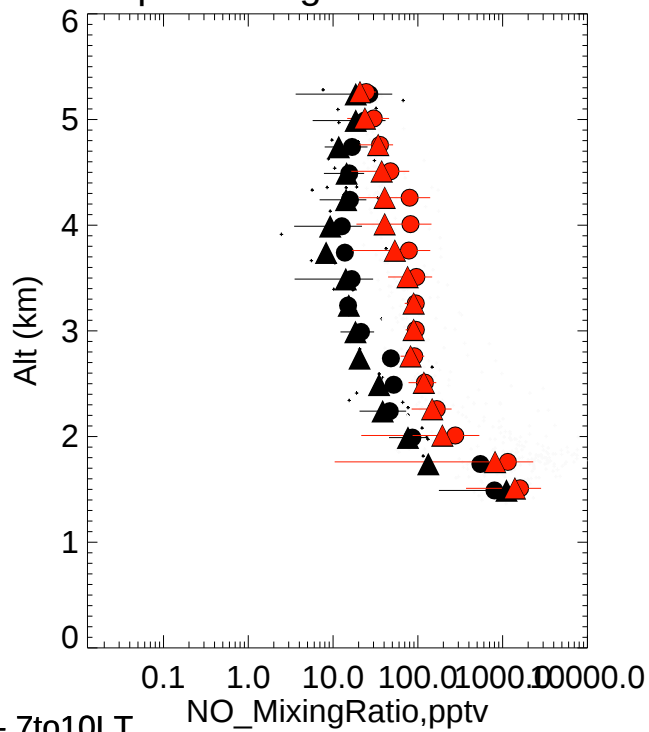




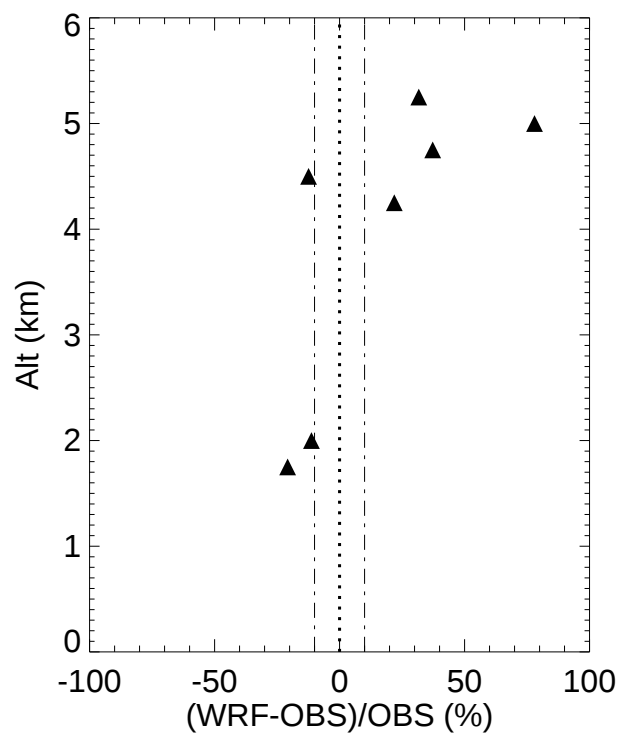
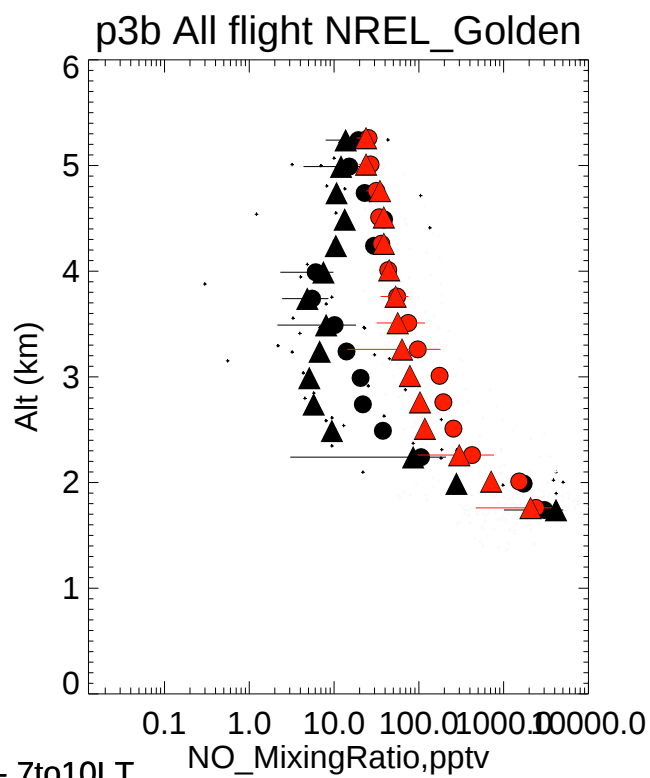
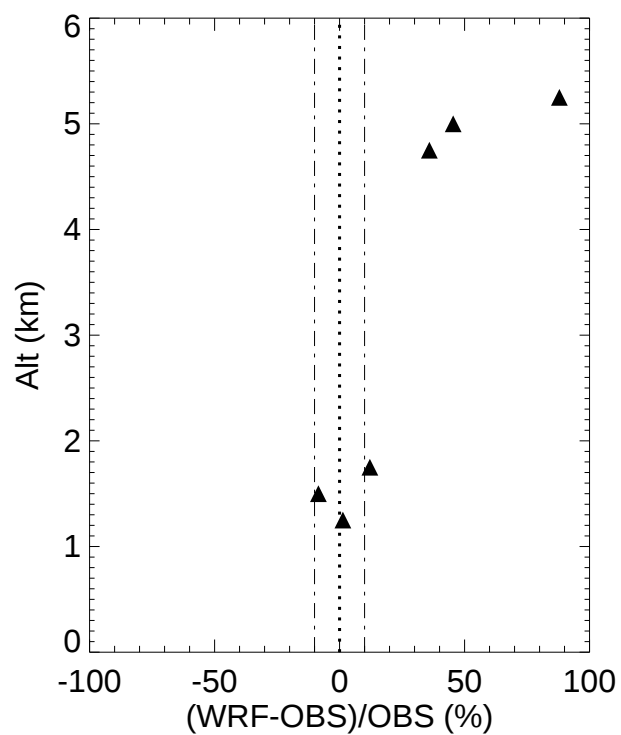
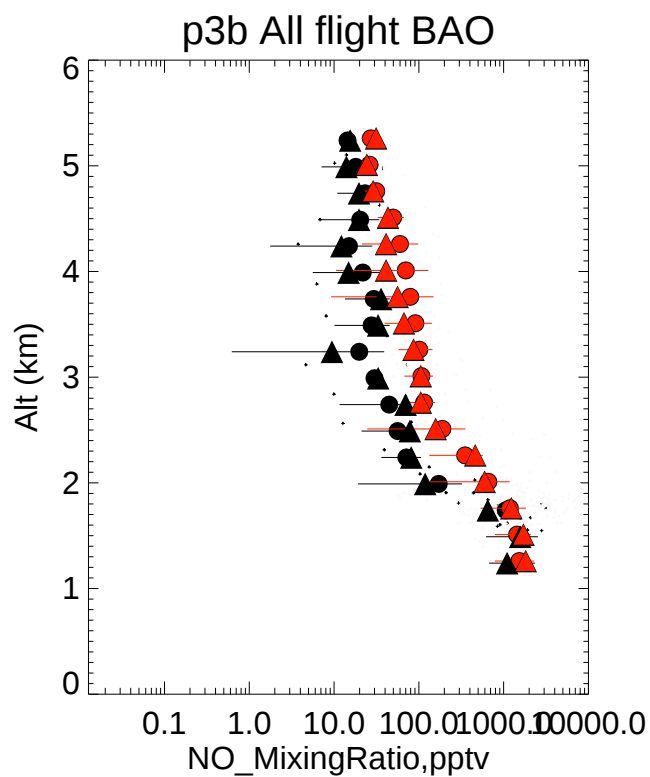
p3b All flight FortCollins



p3b All flight Platteville

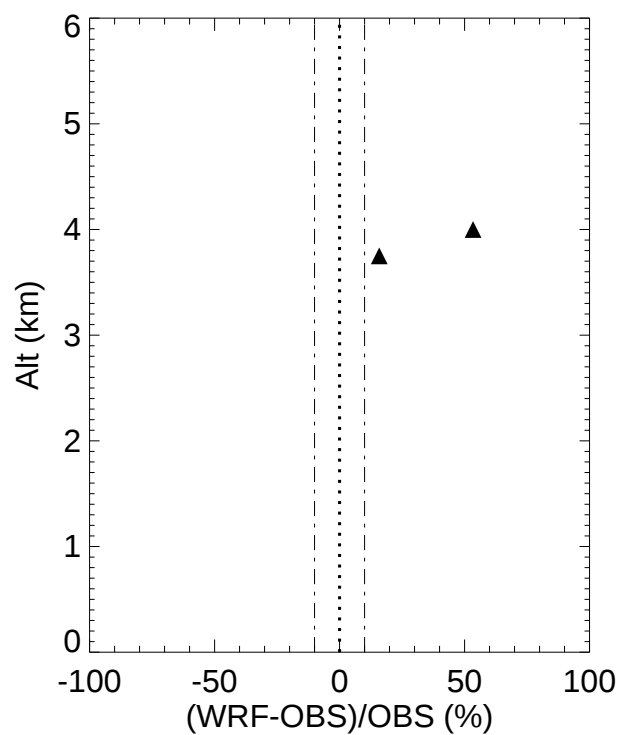
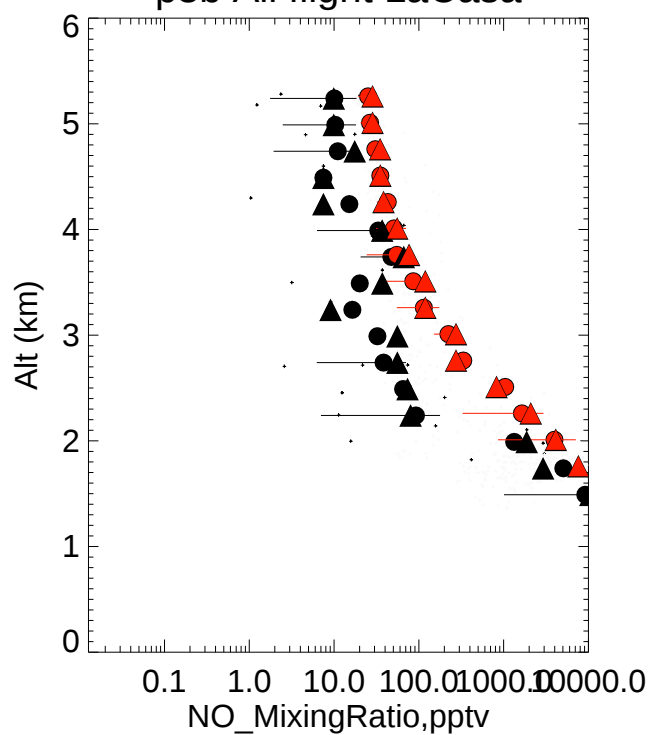


BTX- 7to10LT

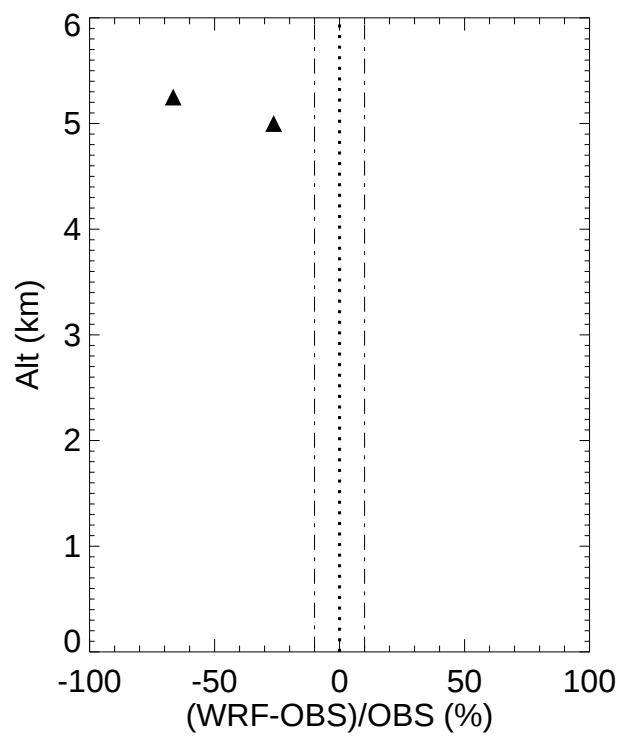
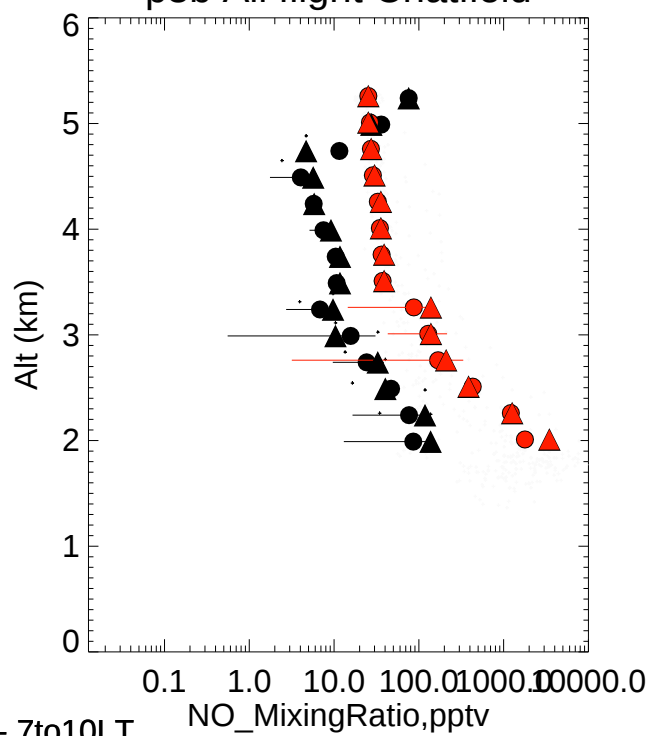


BTX- 7to10LT

p3b All flight LaCasa

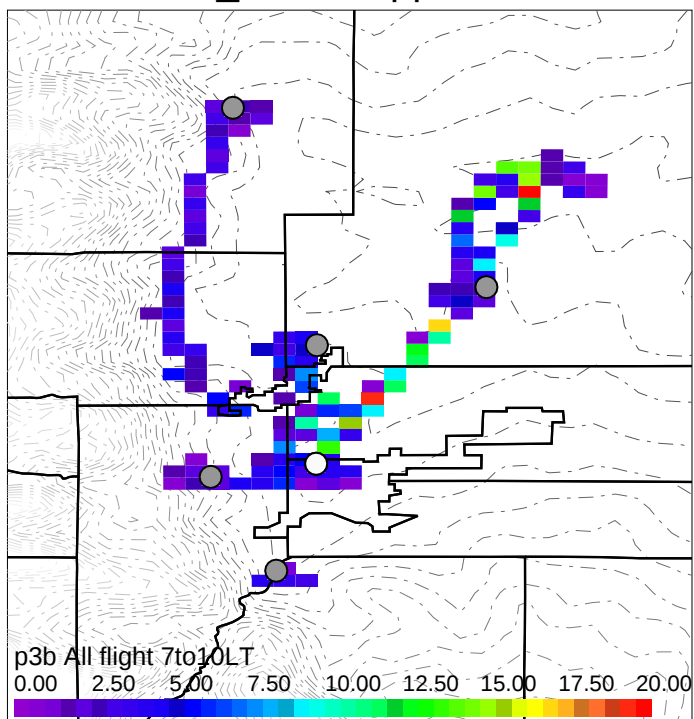


p3b All flight Chatfield

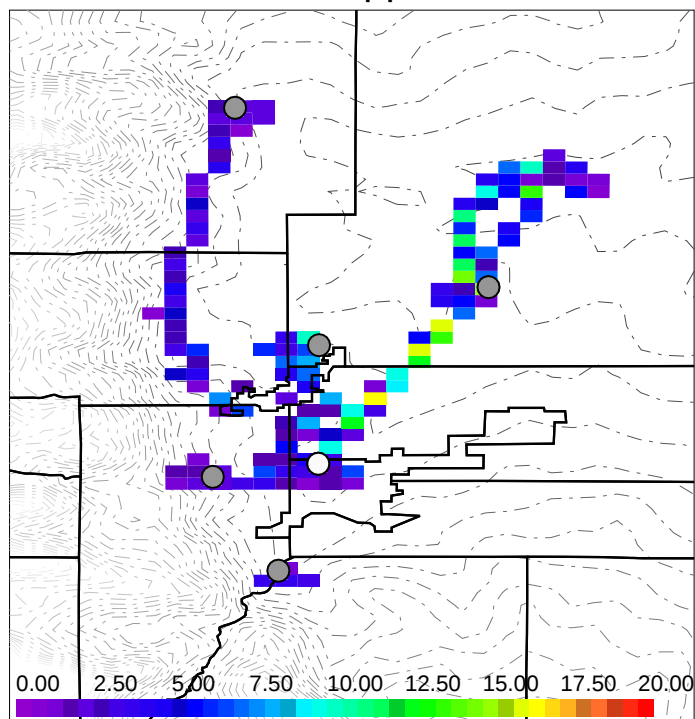


BTX- 7to10LT

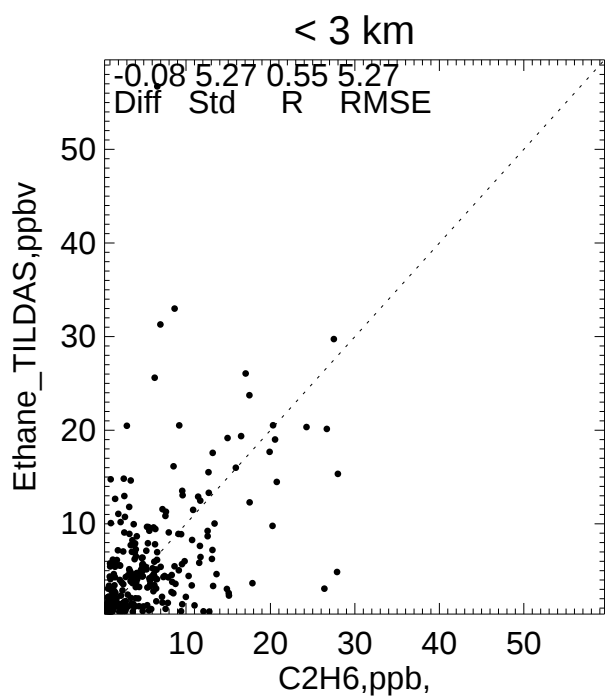
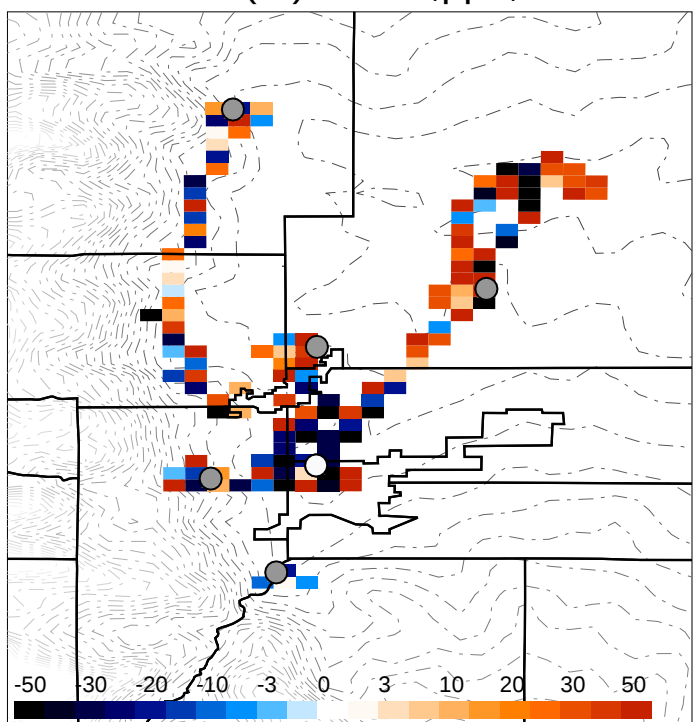
Ethane_TILDAS,ppbv < 3 km



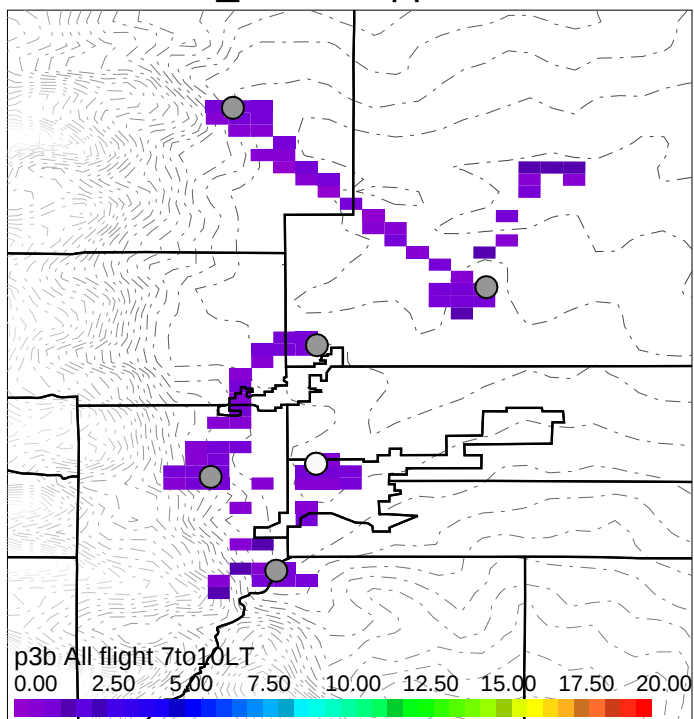
Model C2H6,ppb, < 3 km



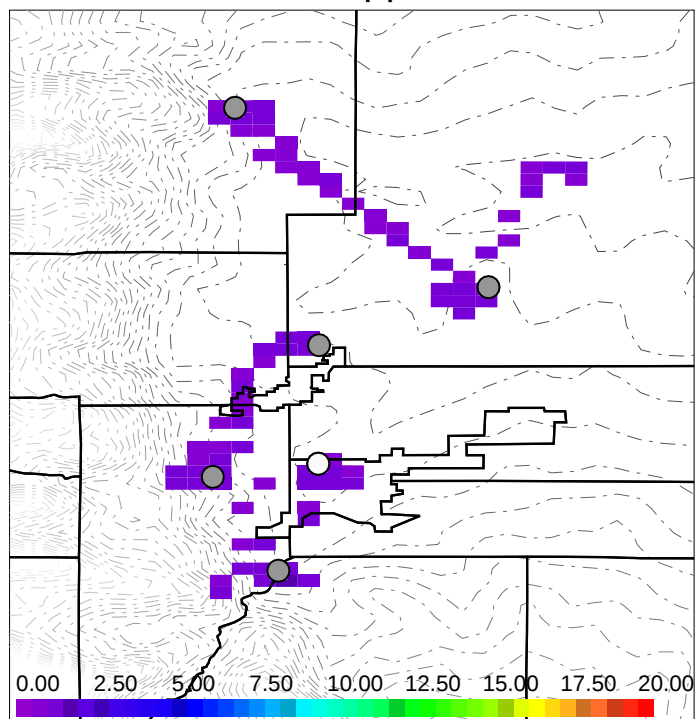
Model-Obs(%) C2H6,ppb, < 3 km



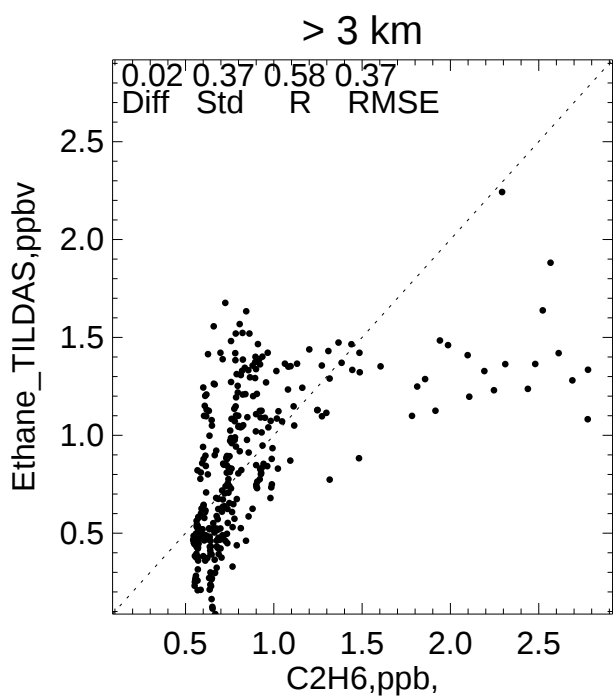
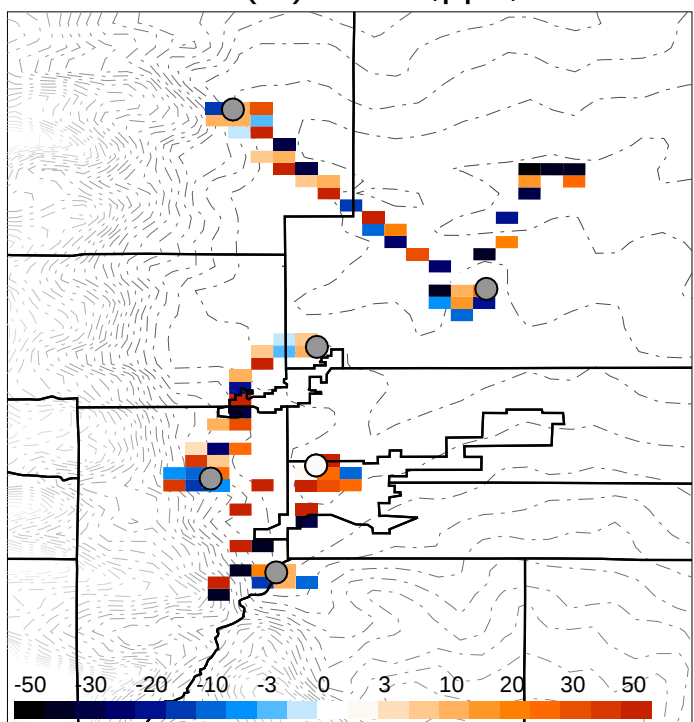
Ethane_TILDAS,ppbv > 3 km



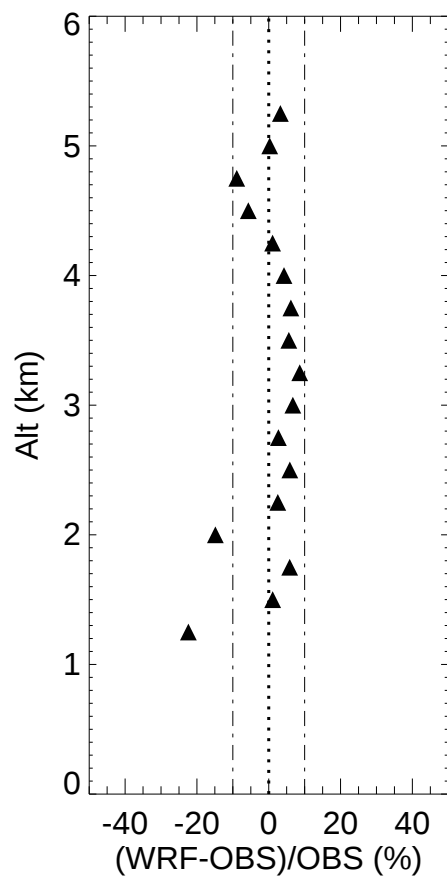
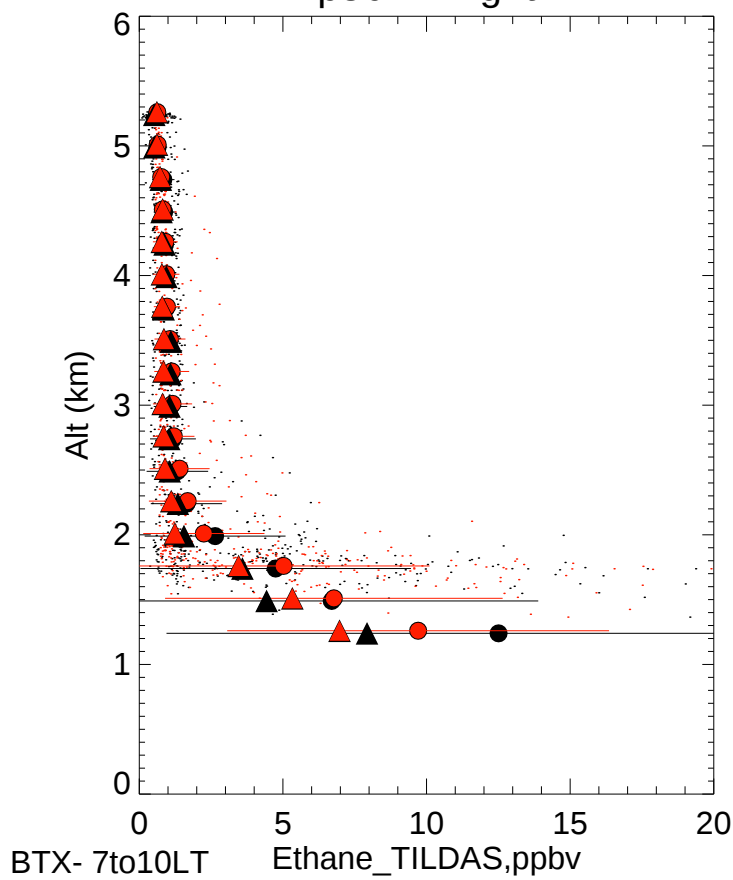
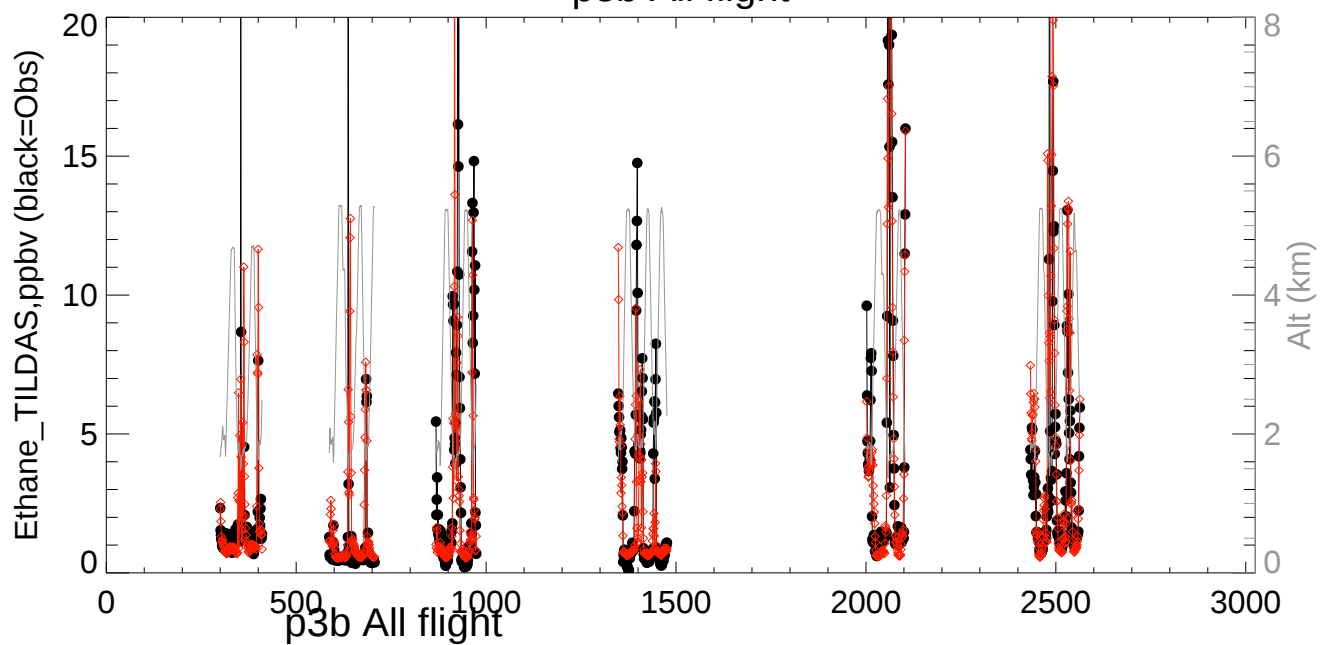
Model C2H6,ppb, > 3 km



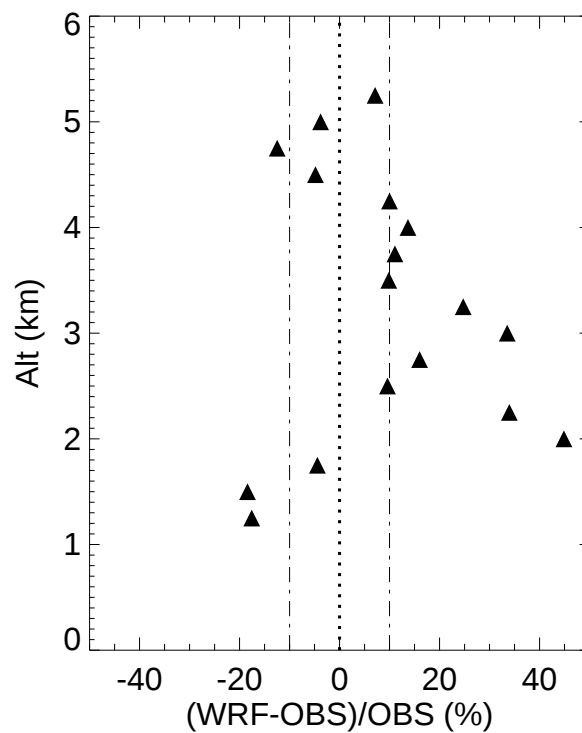
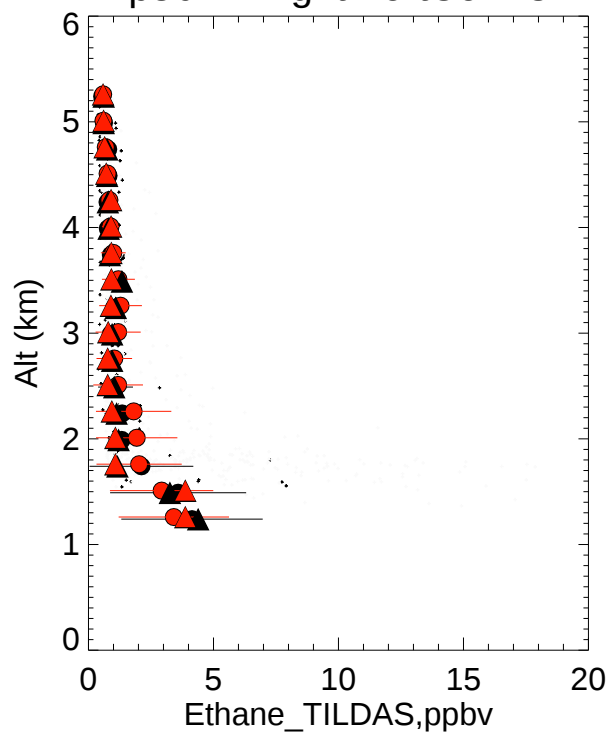
Model-Obs(%) C2H6,ppb, > 3 km



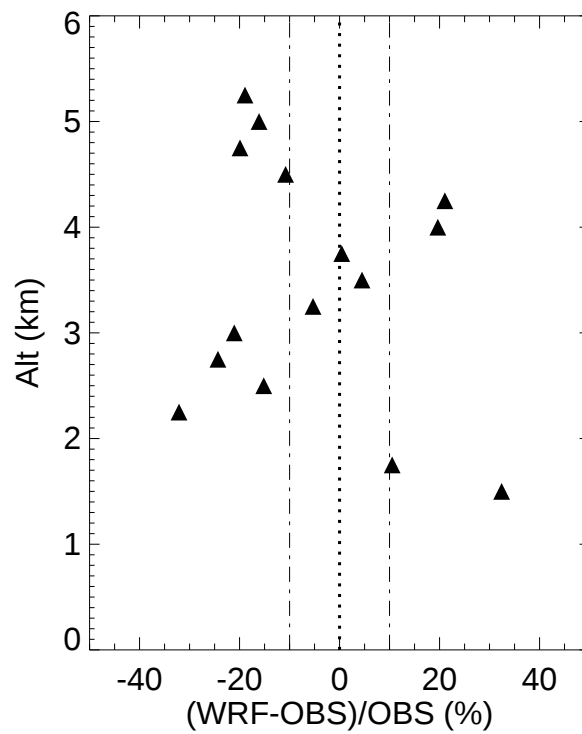
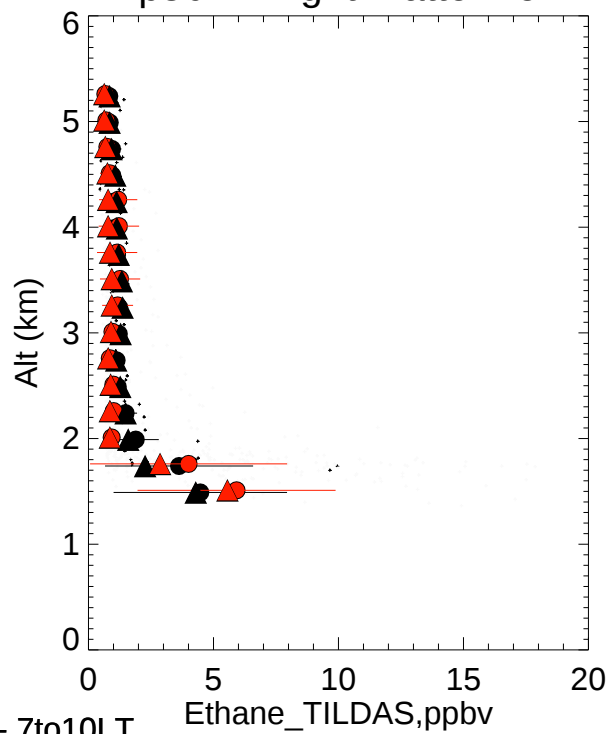
p3b All flight

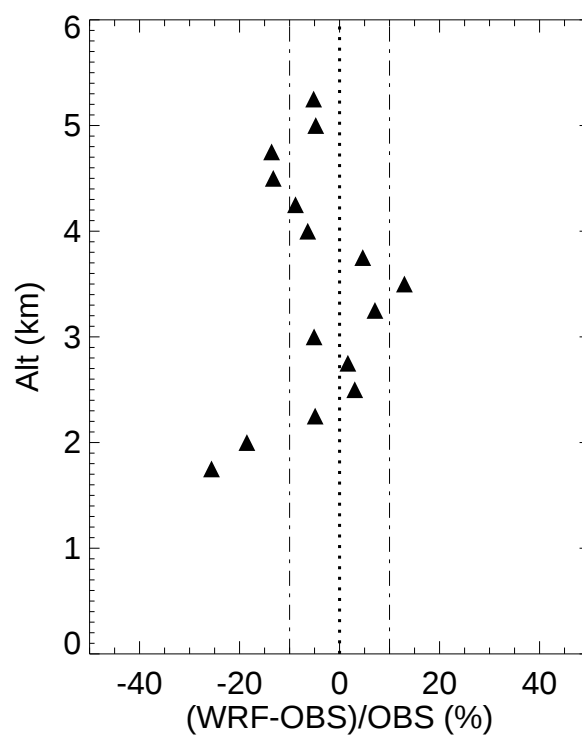
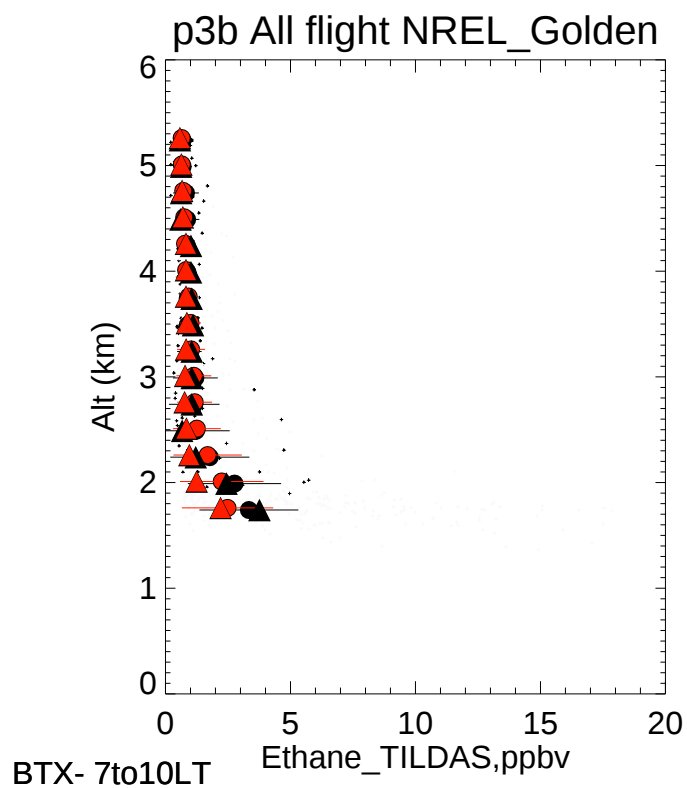
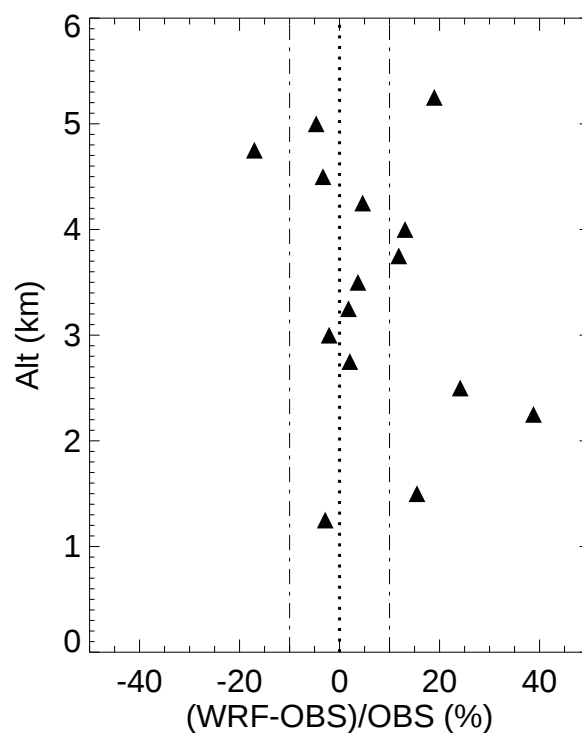
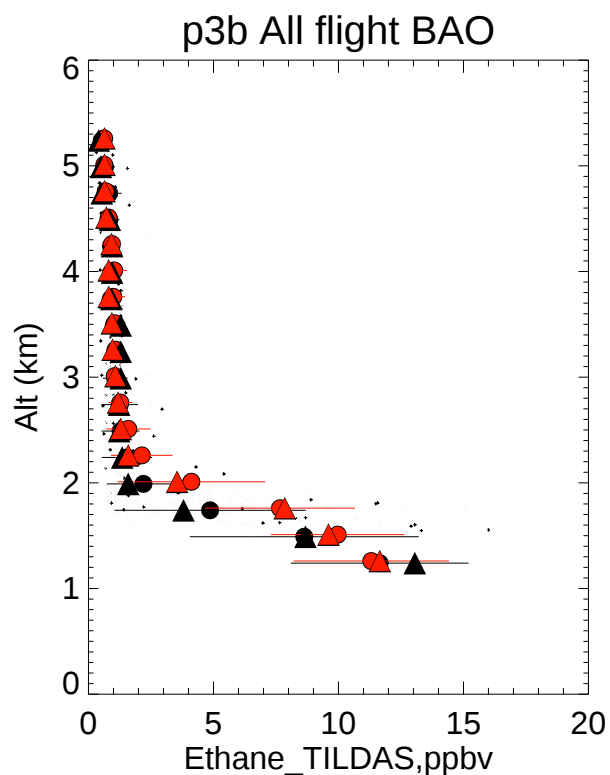


p3b All flight FortCollins

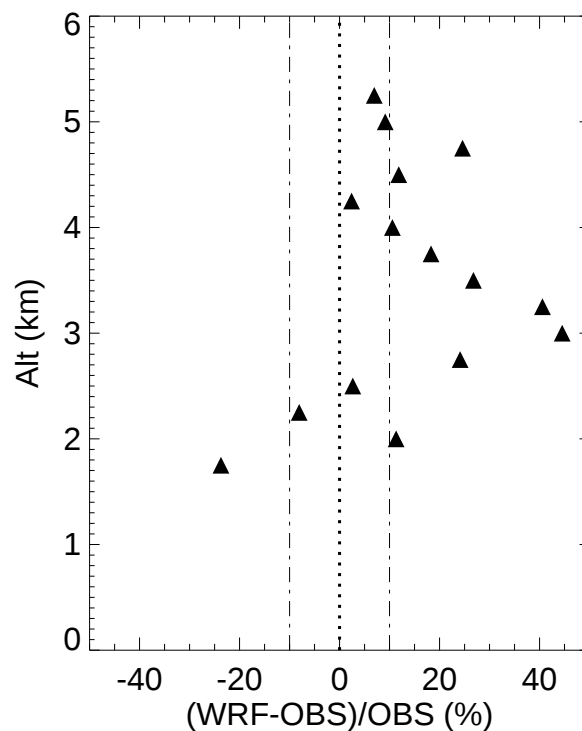
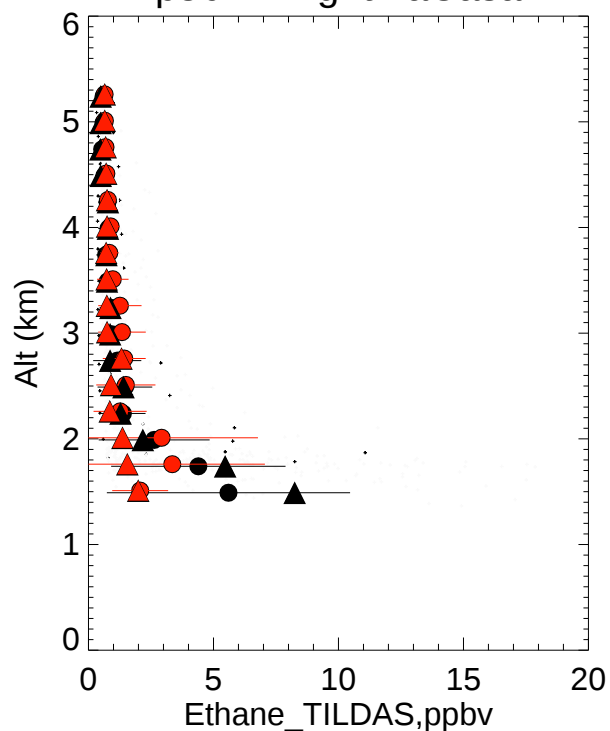


p3b All flight Platteville

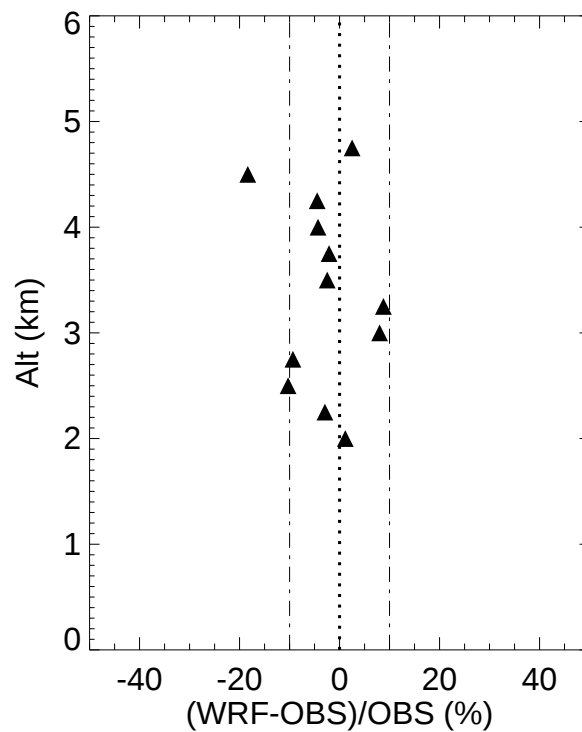
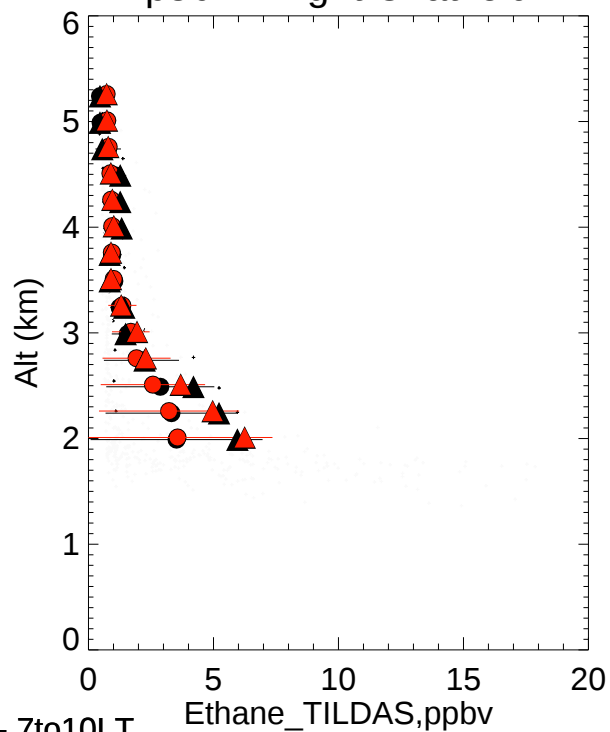




p3b All flight LaCasa

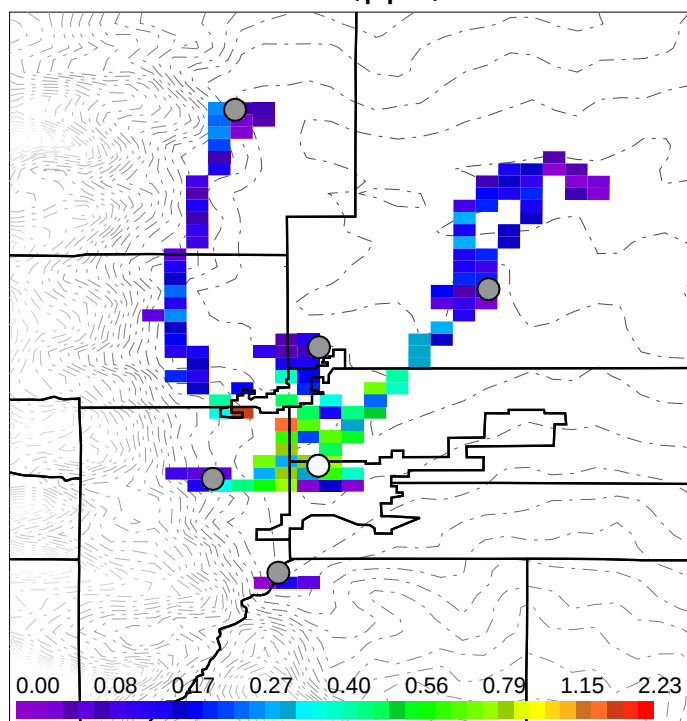
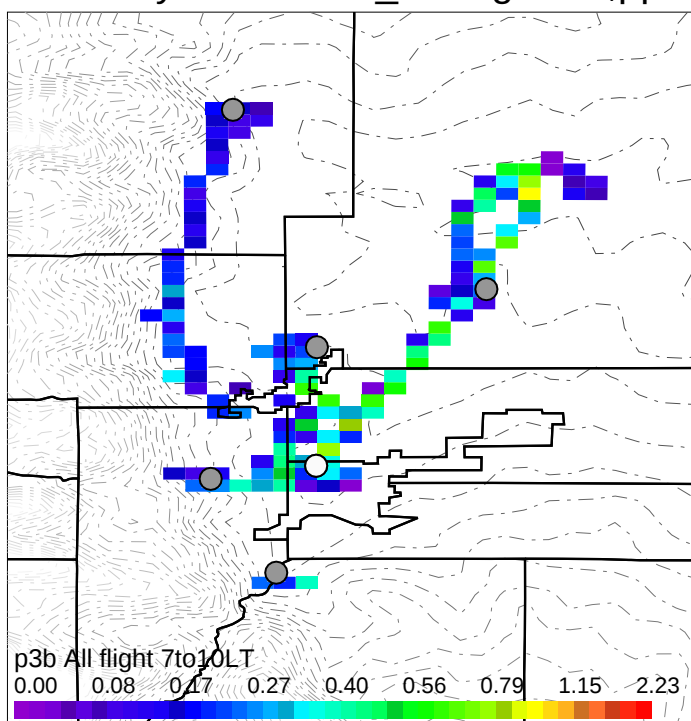


p3b All flight Chatfield

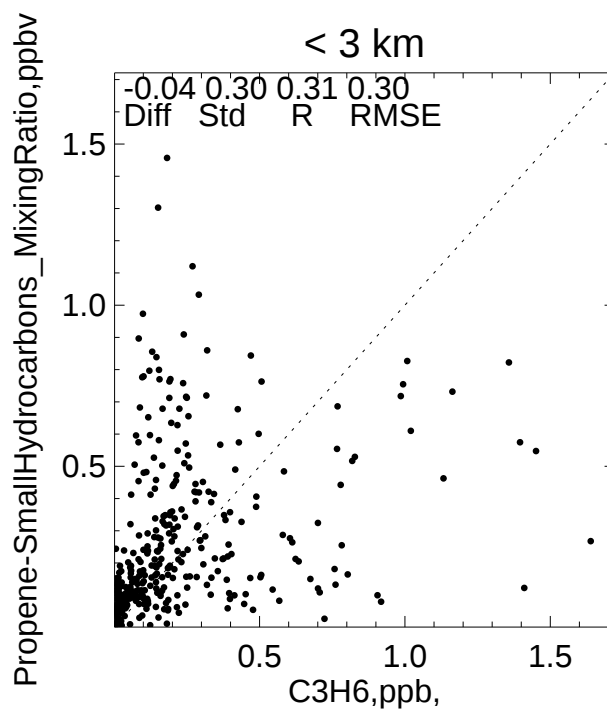
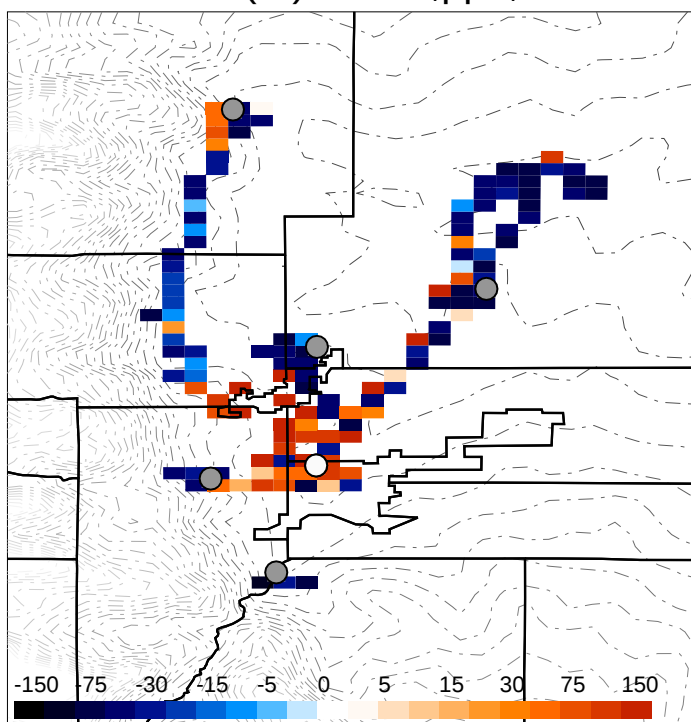


BTX- 7to10LT

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

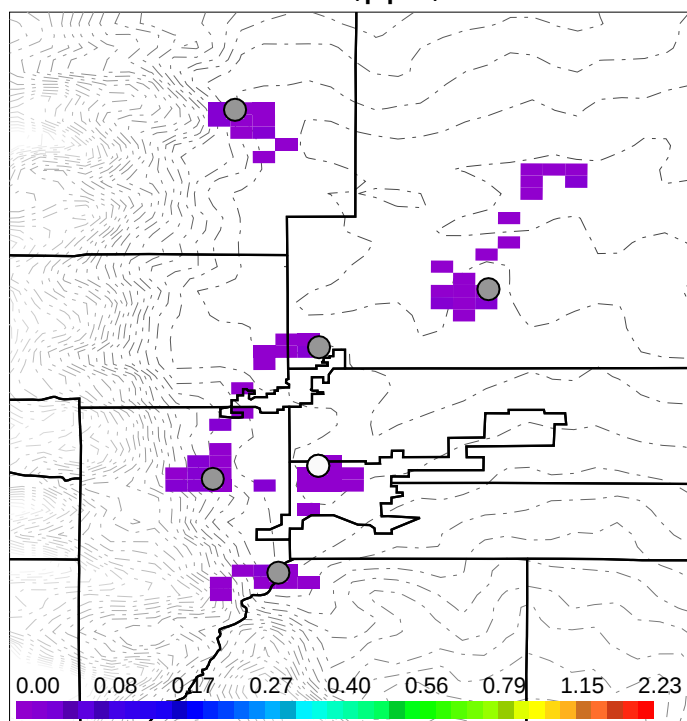
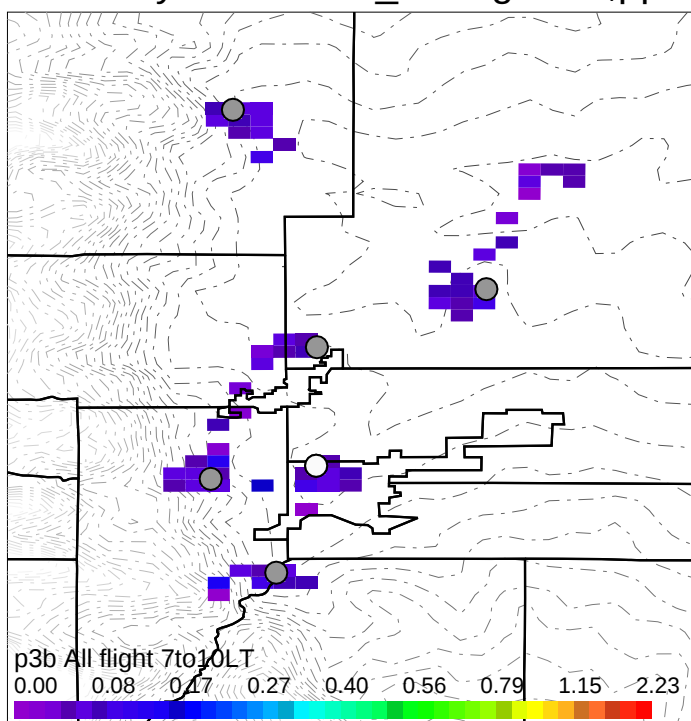


Model-Obs(%) C3H6,ppb, < 3 km

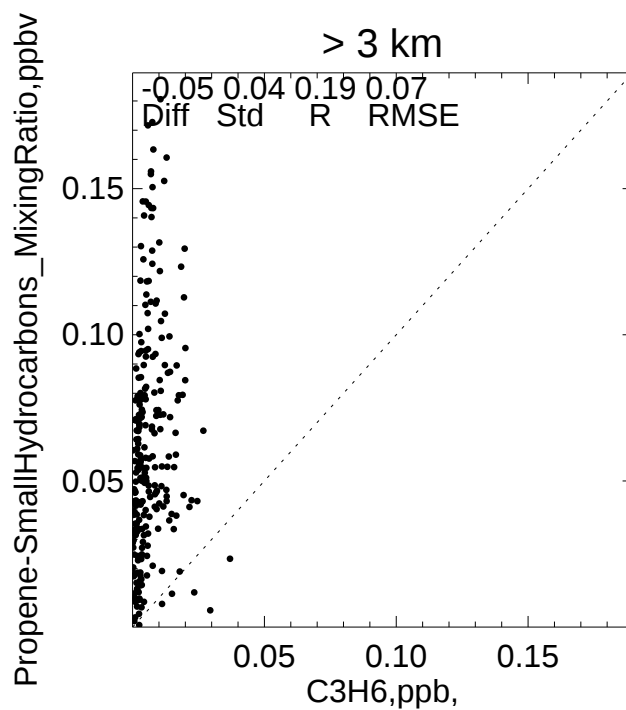
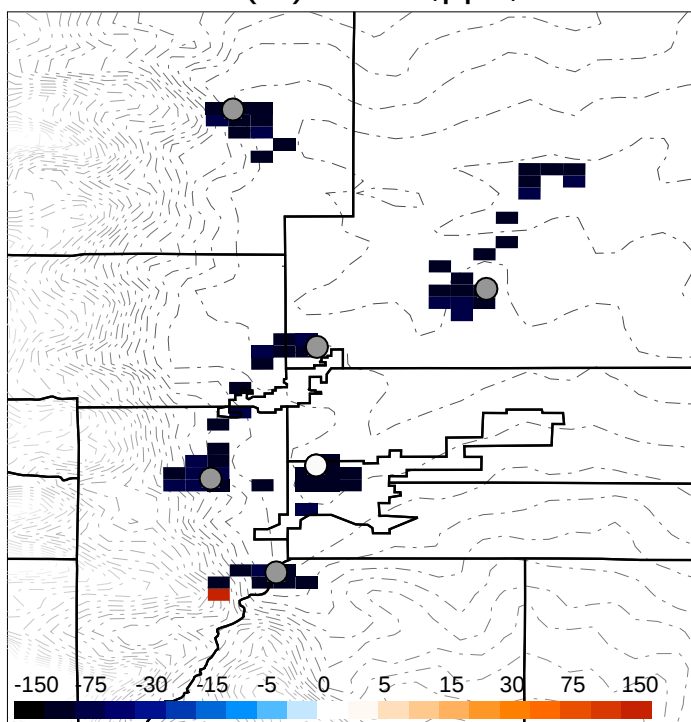


BTX- 7to10LT

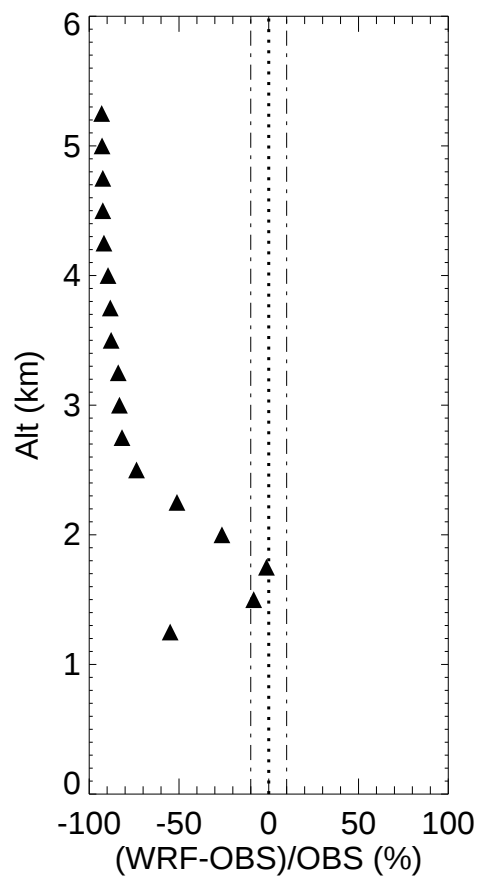
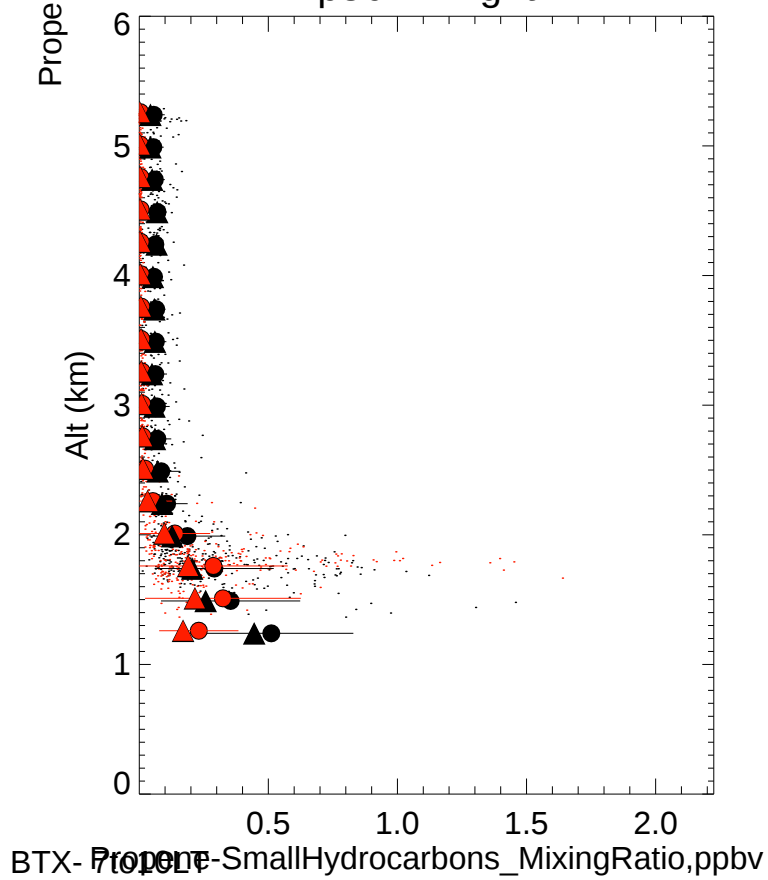
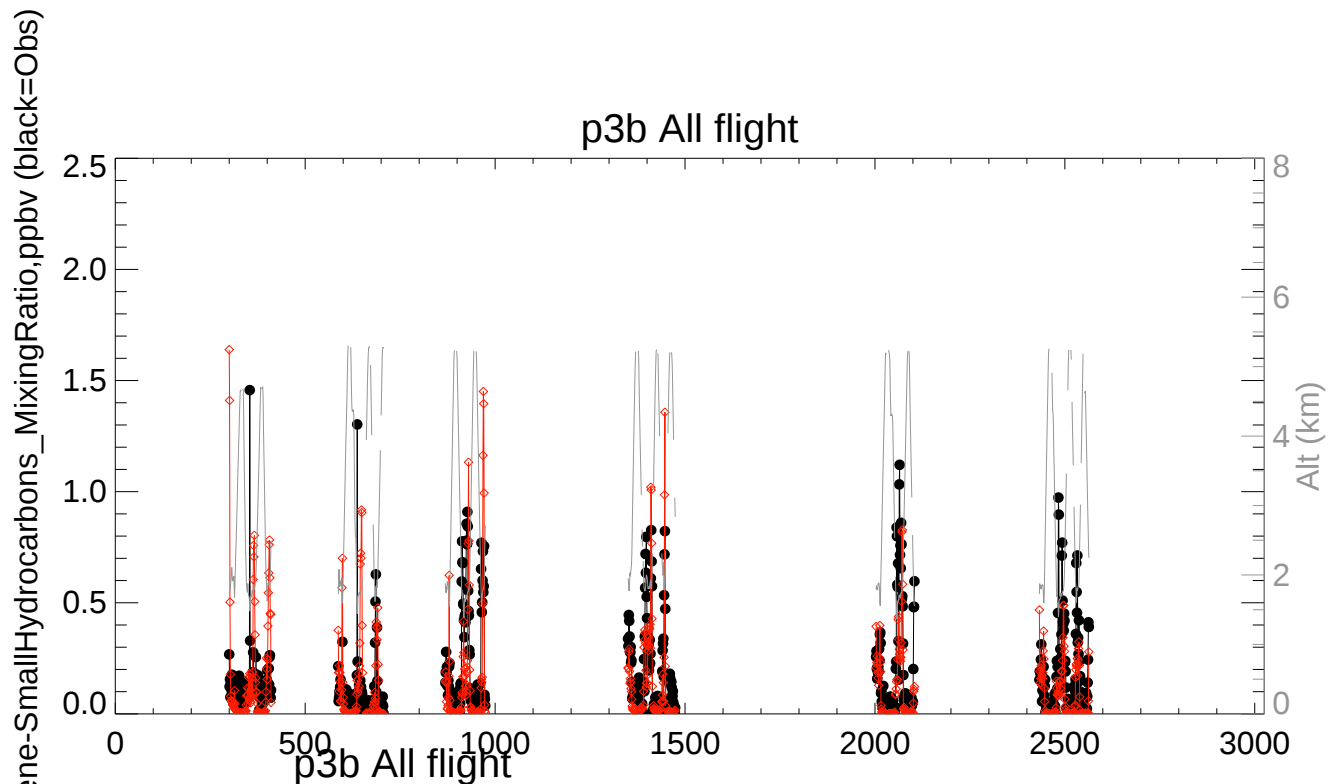
Propene-SmallHydrocarbons_MixingRatio,ppbv > 3 km Model C3H6,ppb, > 3 km



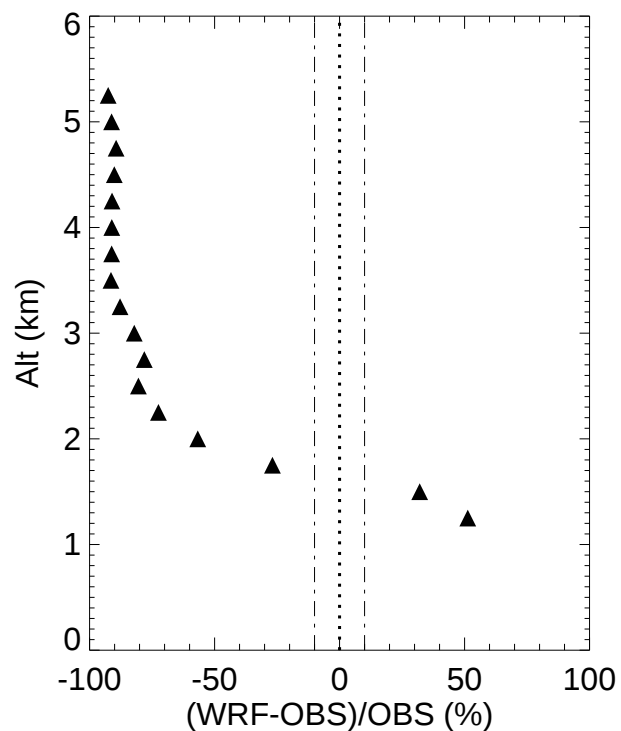
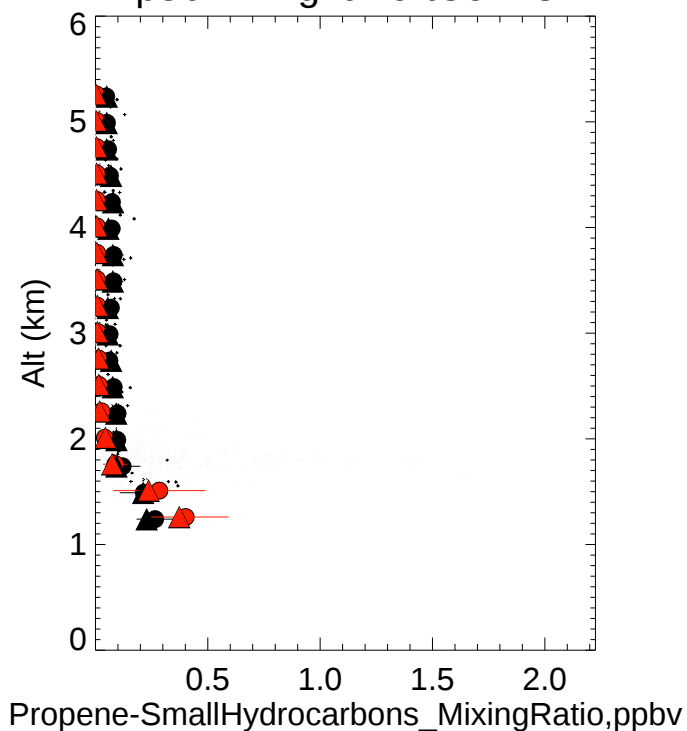
Model-Obs(%) C3H6,ppb, > 3 km



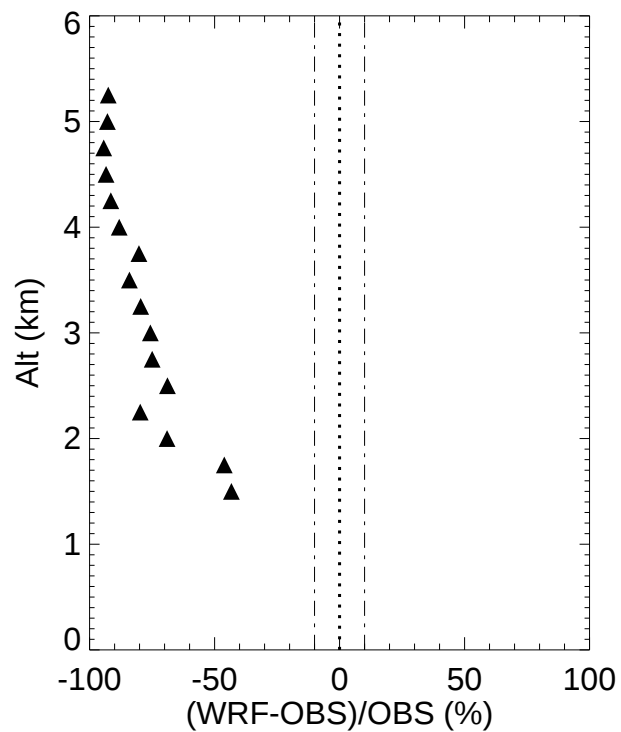
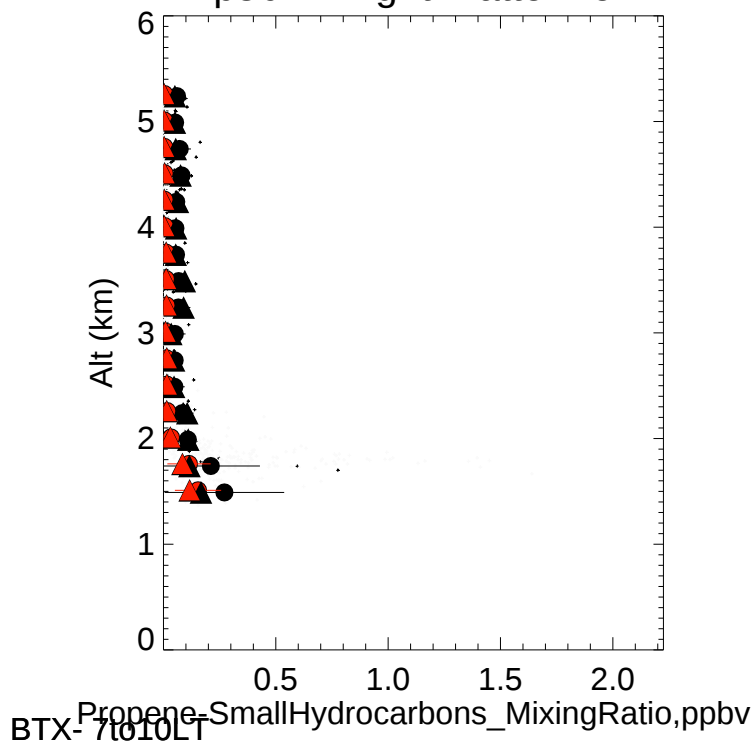
BTX- 7to10LT

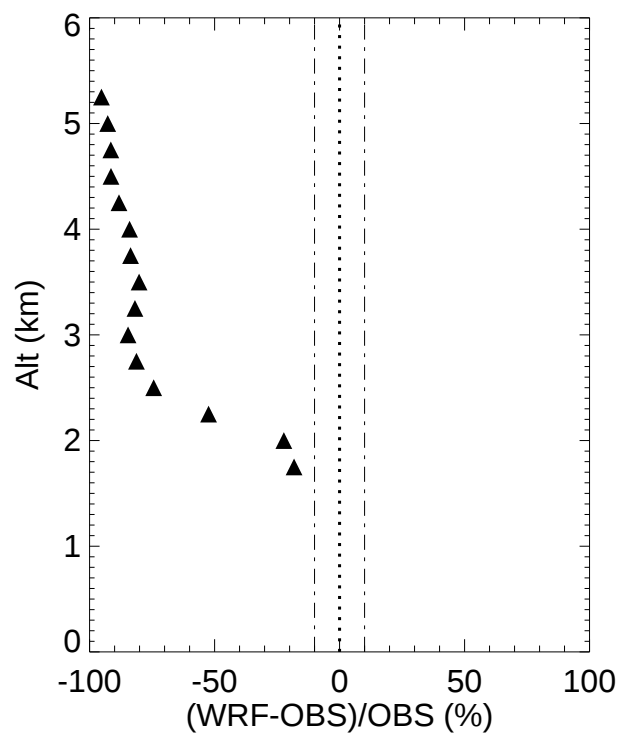
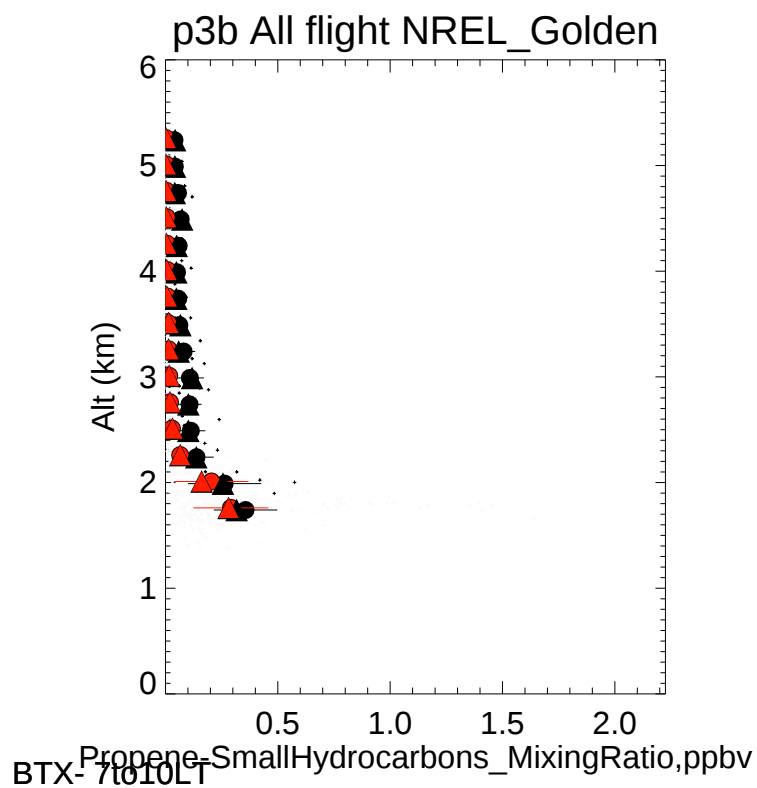
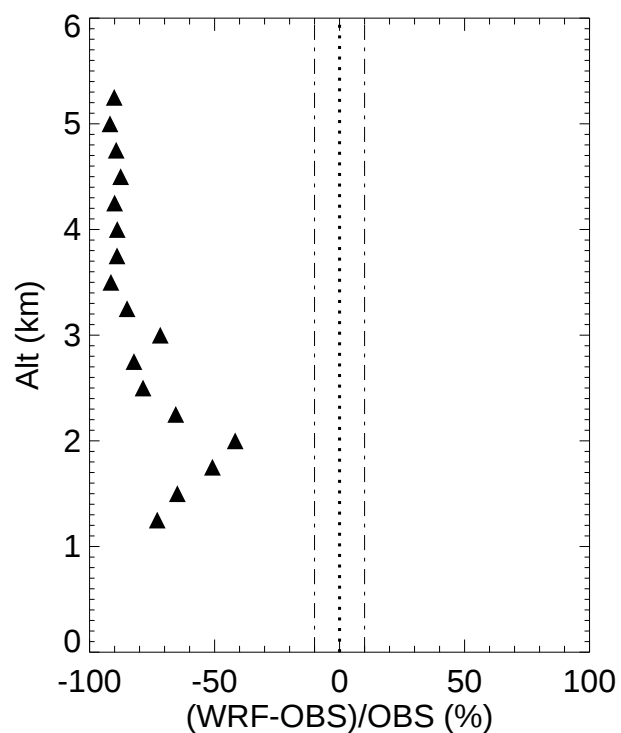
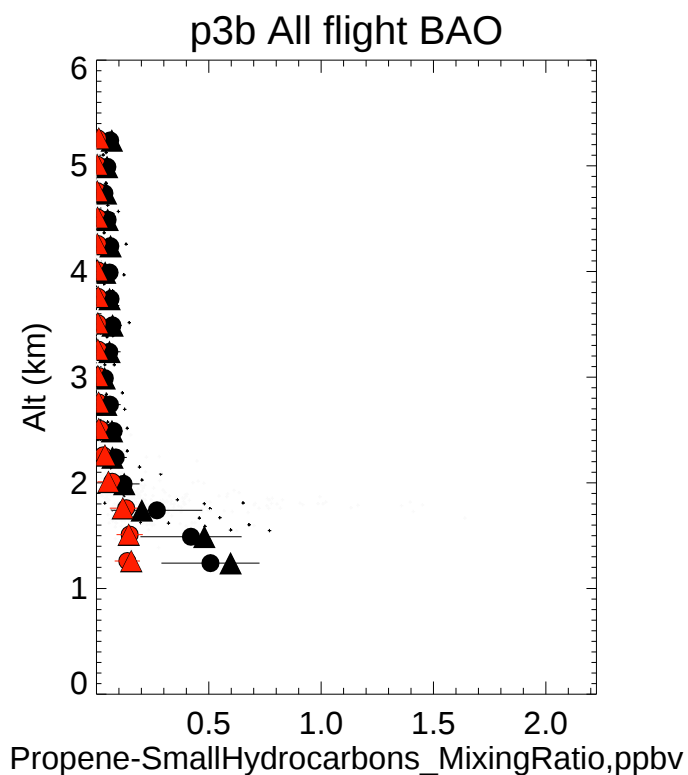


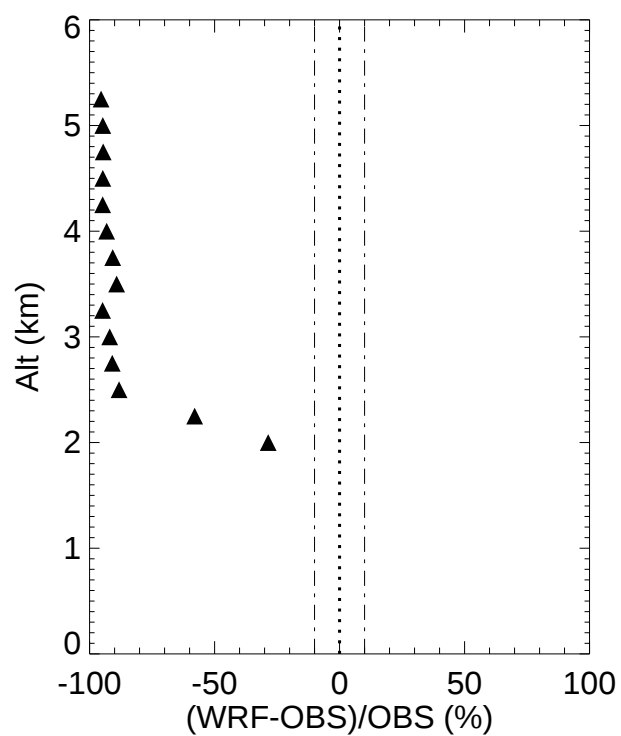
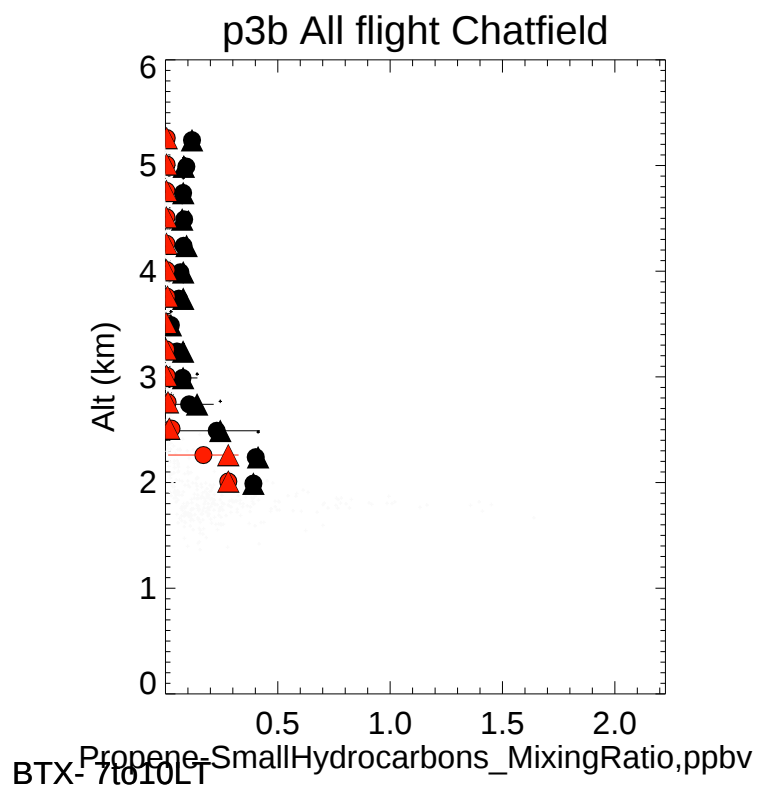
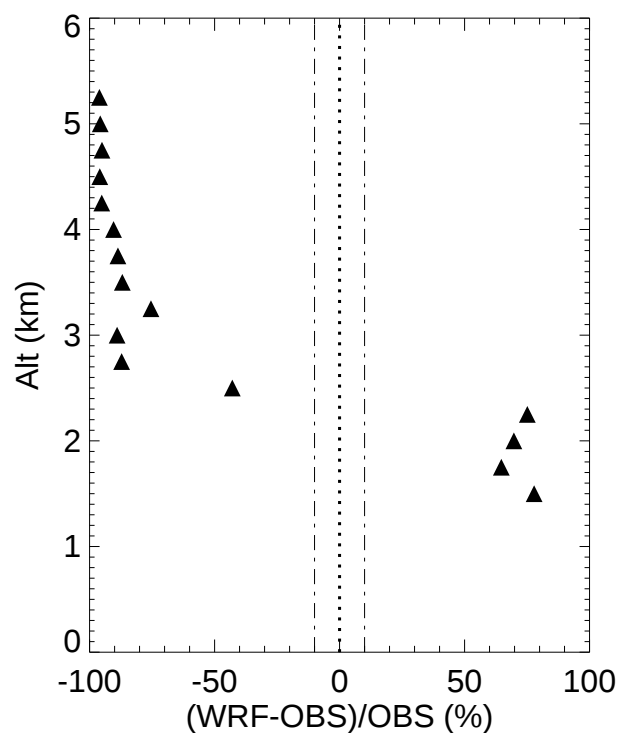
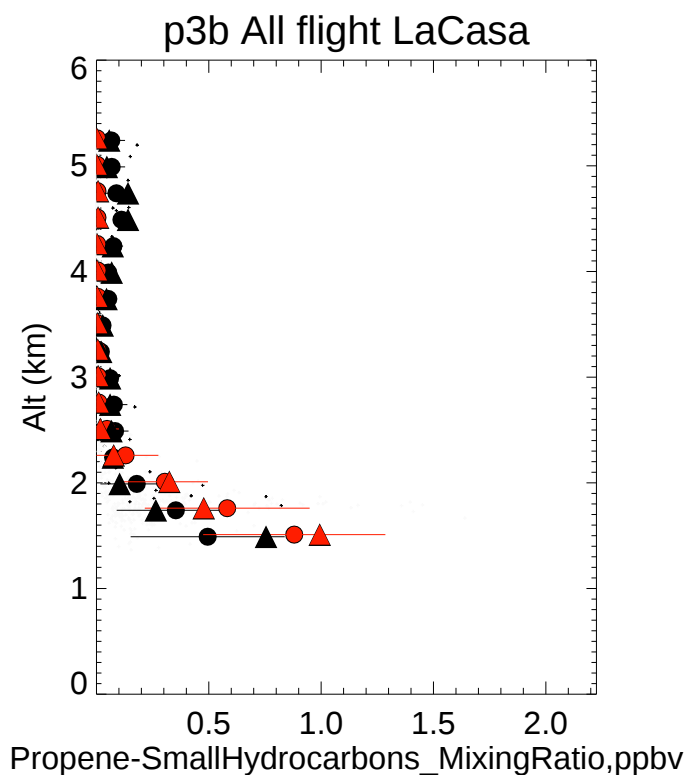
p3b All flight FortCollins



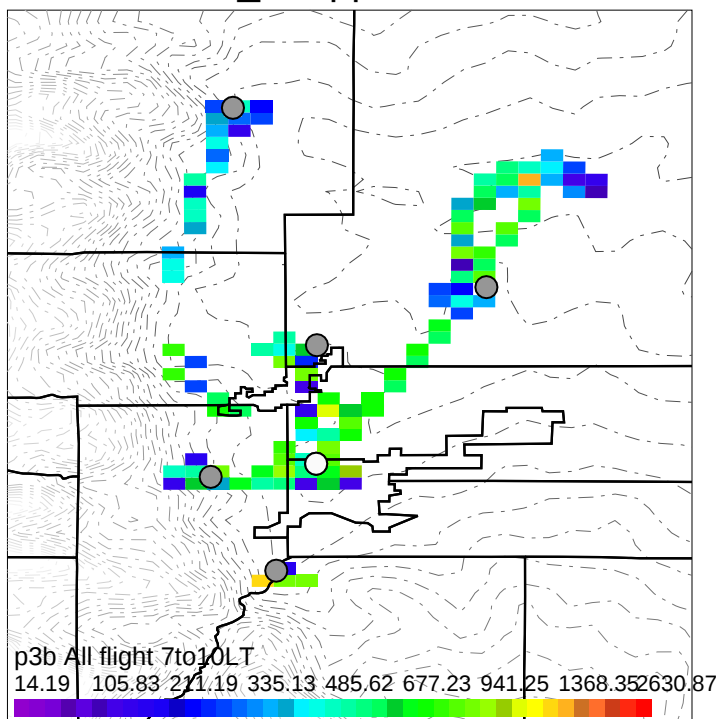
p3b All flight Platteville



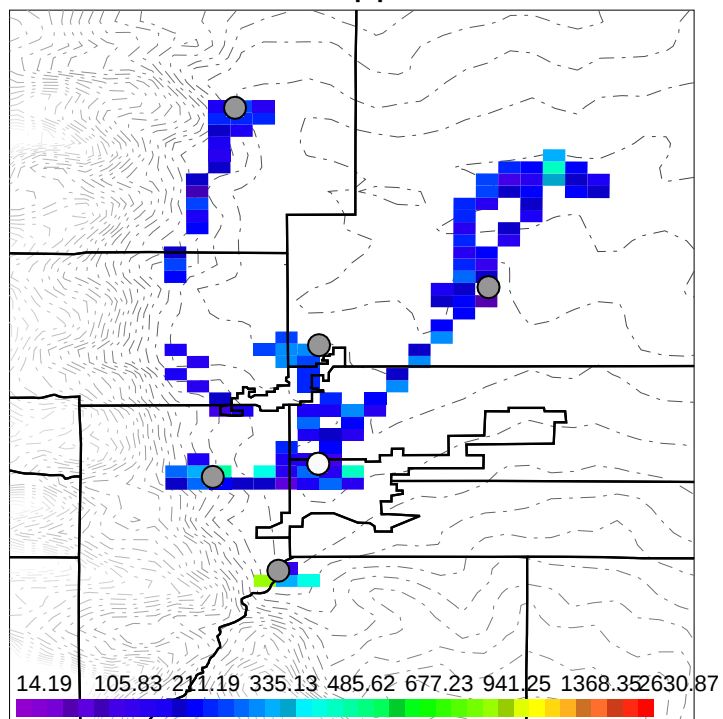




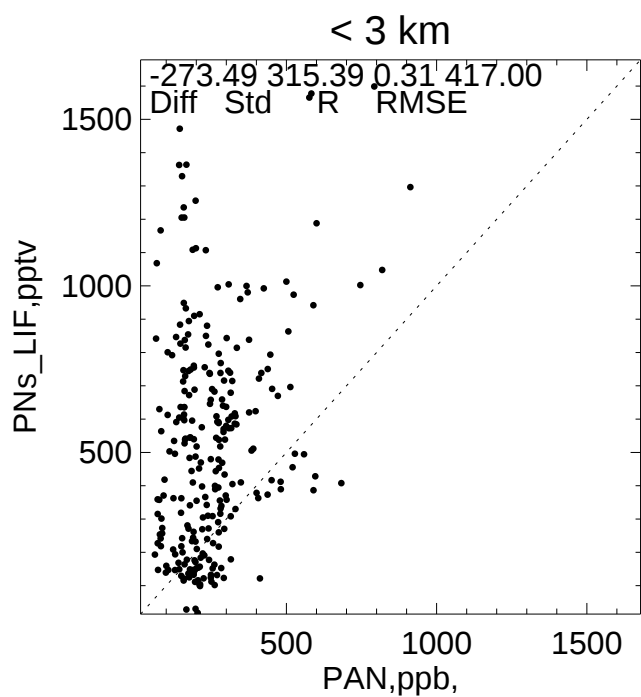
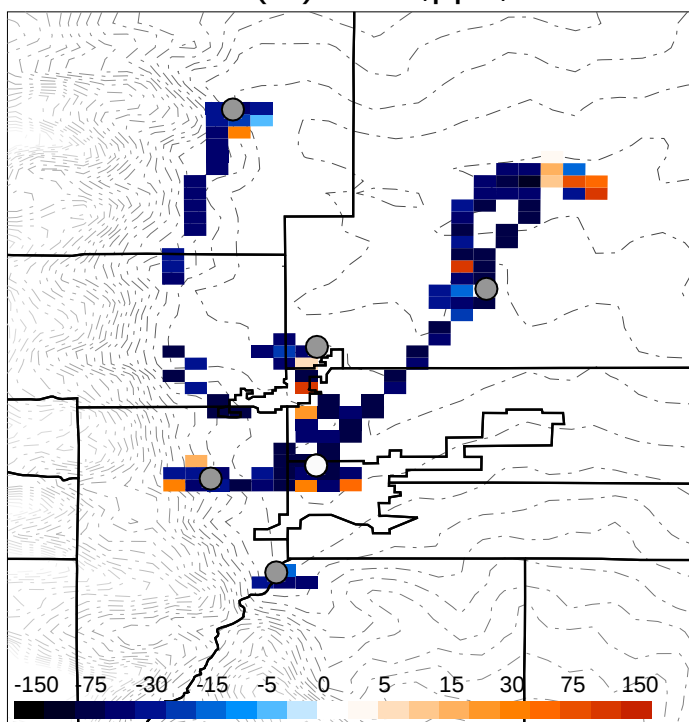
PNS_LIF,pptv < 3 km



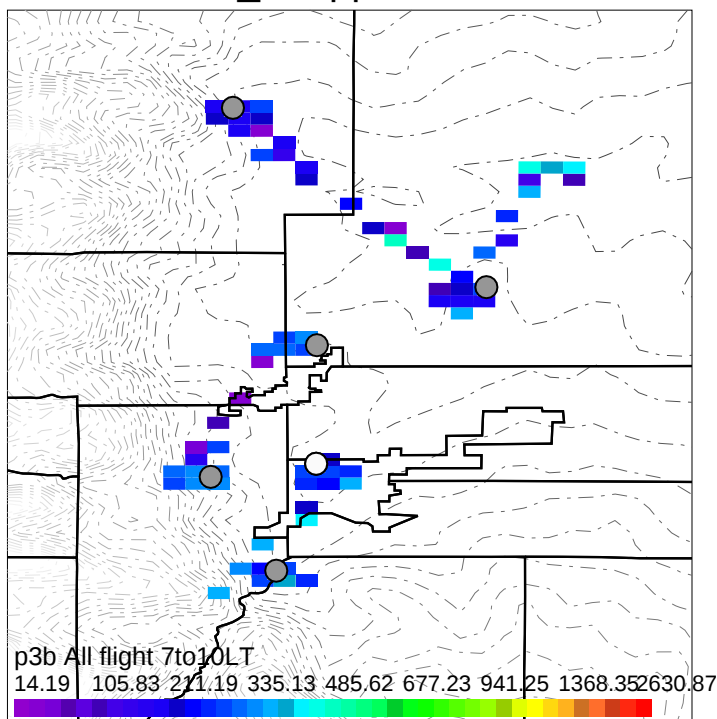
Model PAN,ppb, < 3 km



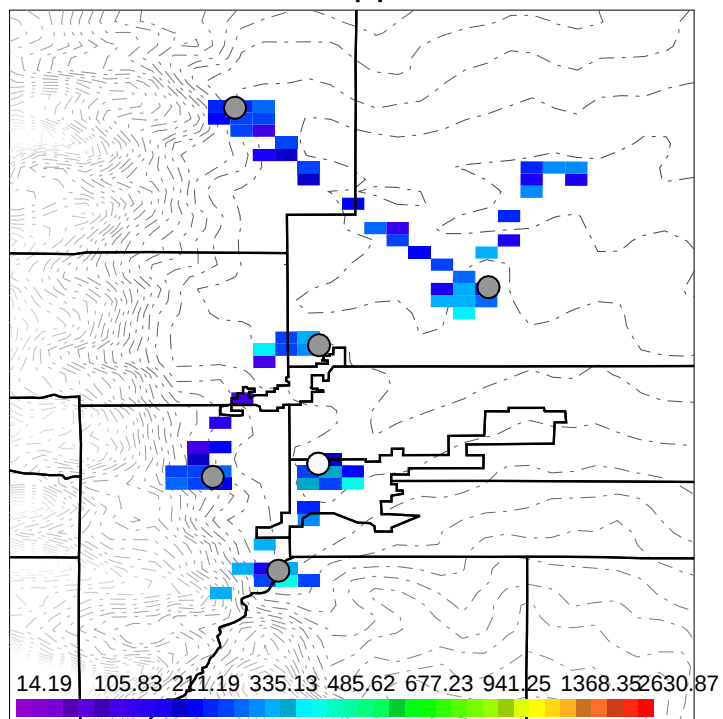
Model-Obs(%) PAN,ppb, < 3 km



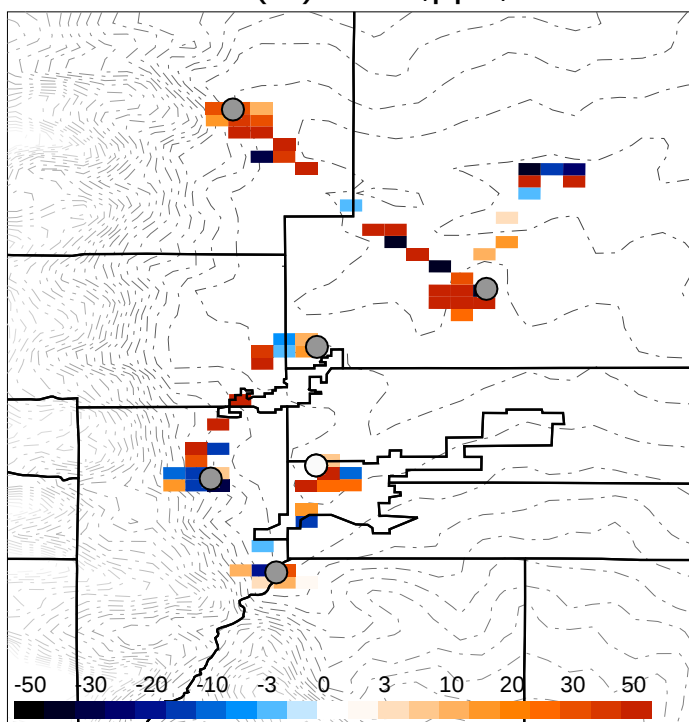
PNs_LIF,pptv > 3 km



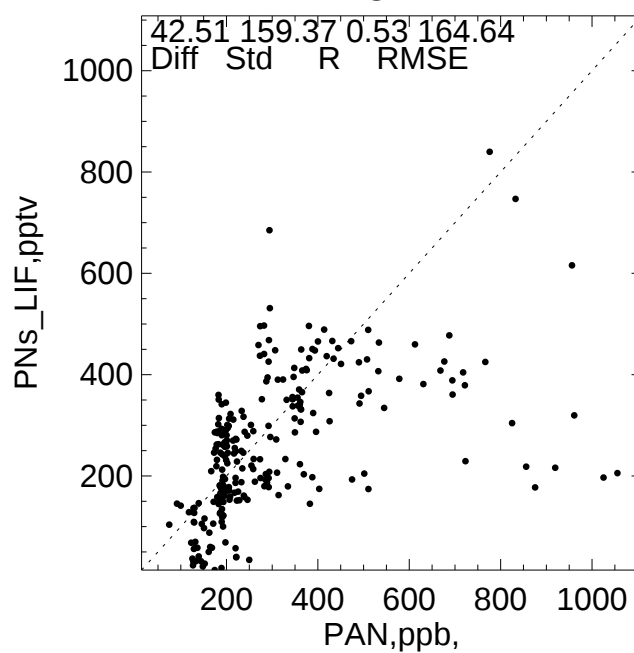
Model PAN,ppb, > 3 km



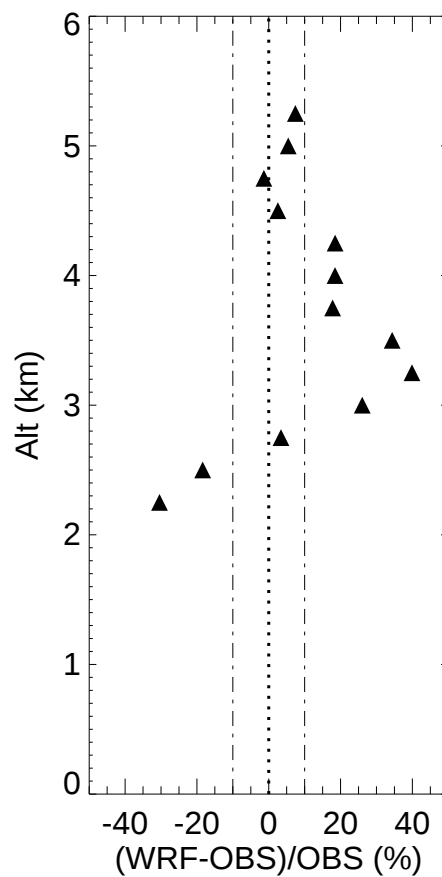
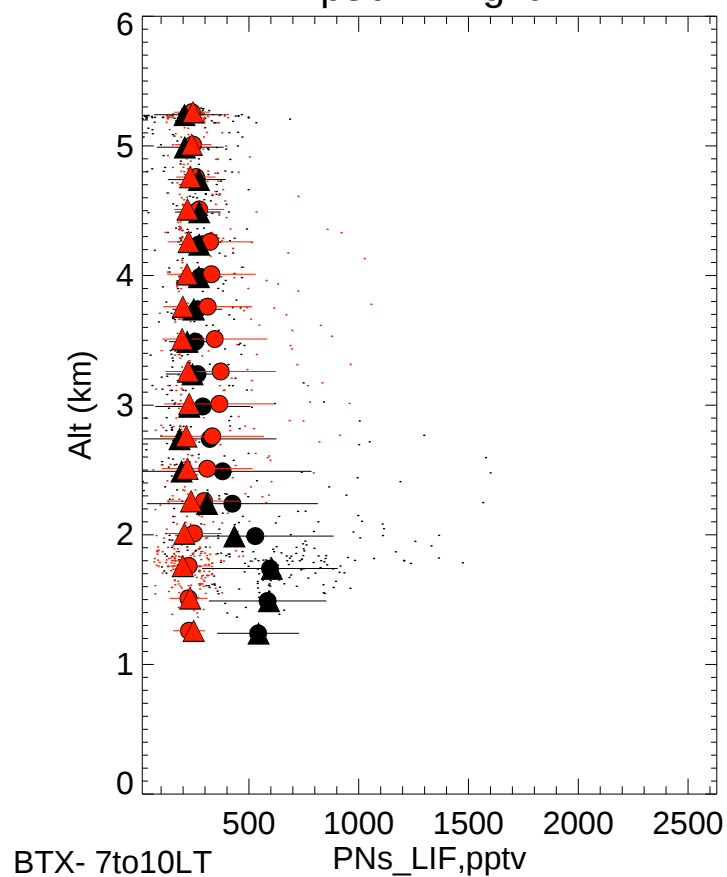
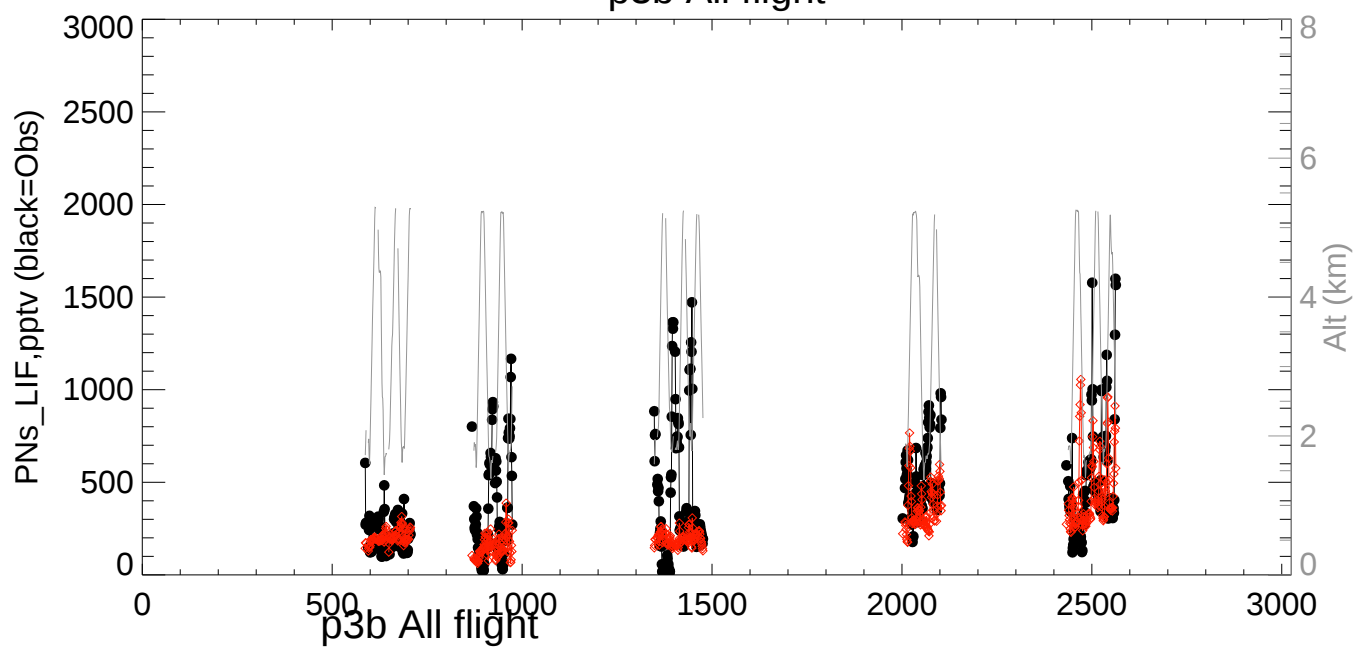
Model-Obs(%) PAN,ppb, > 3 km



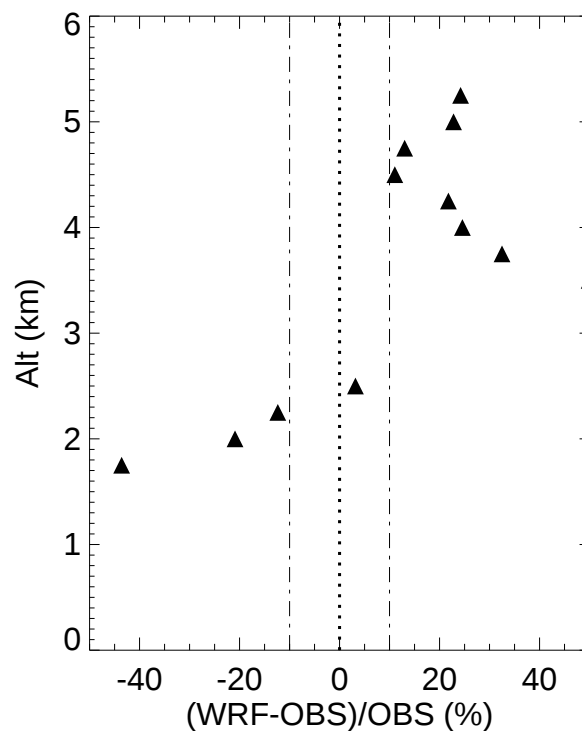
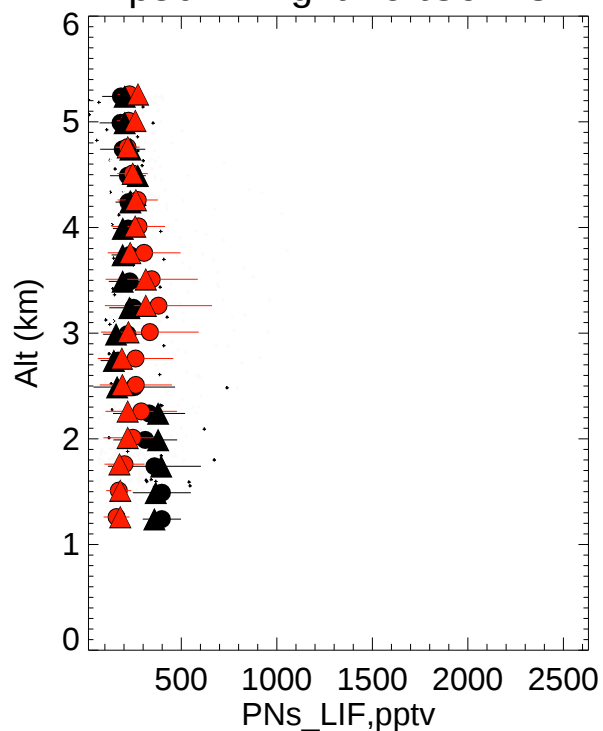
> 3 km



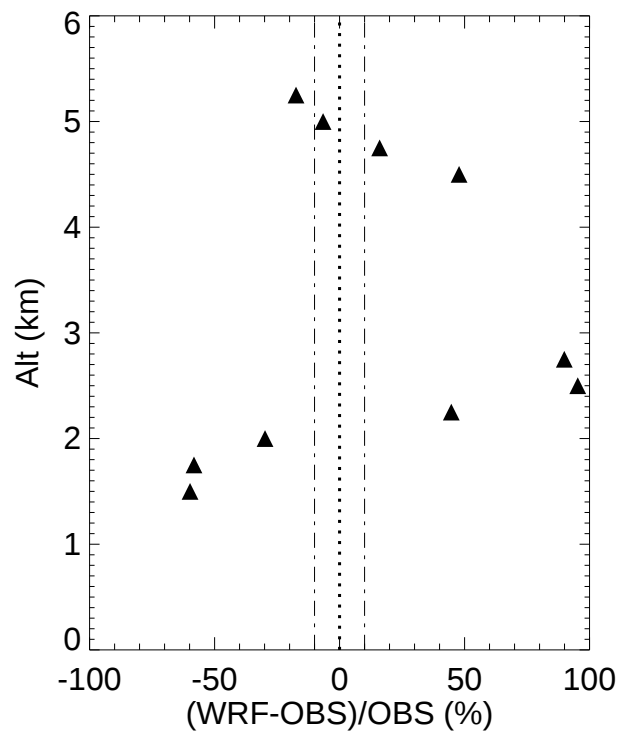
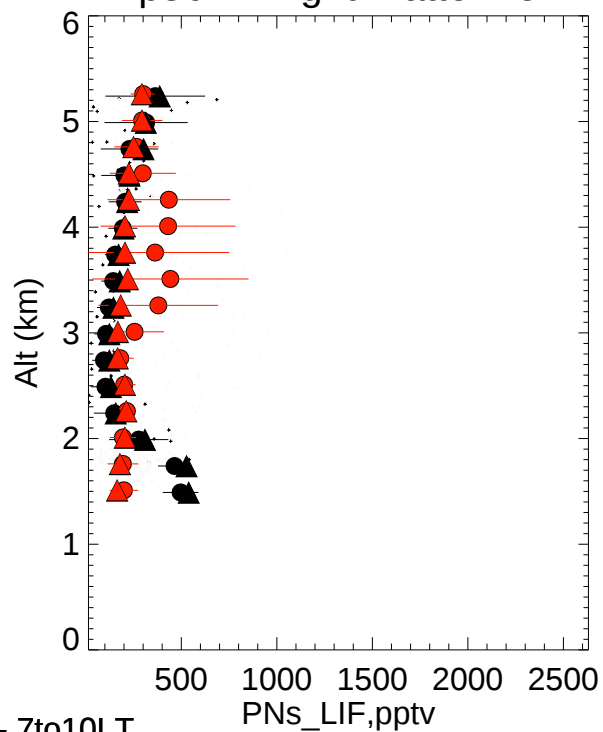
p3b All flight



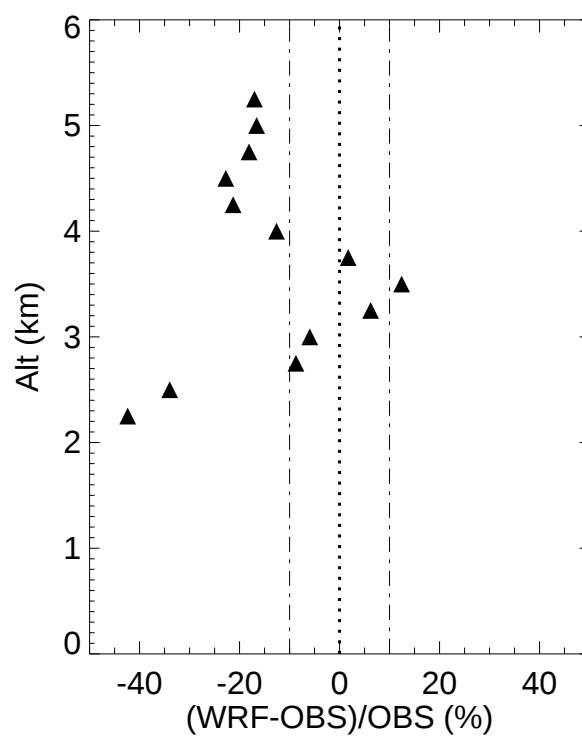
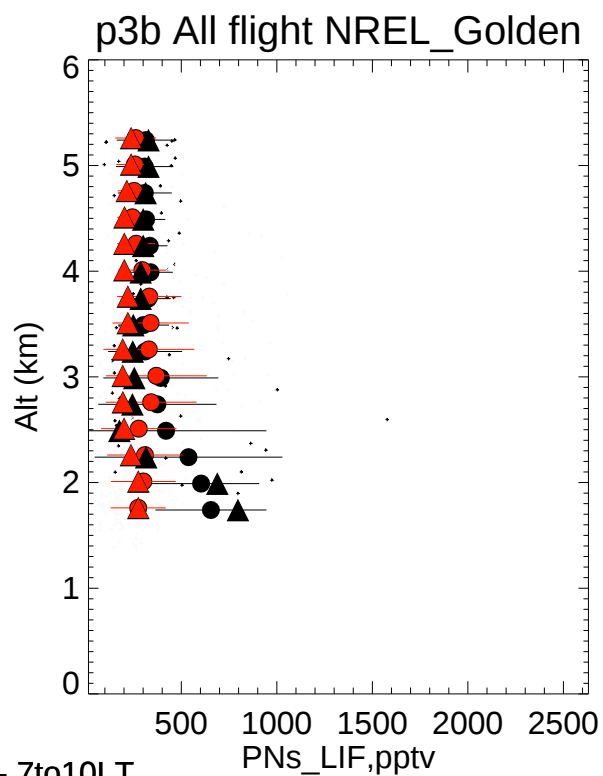
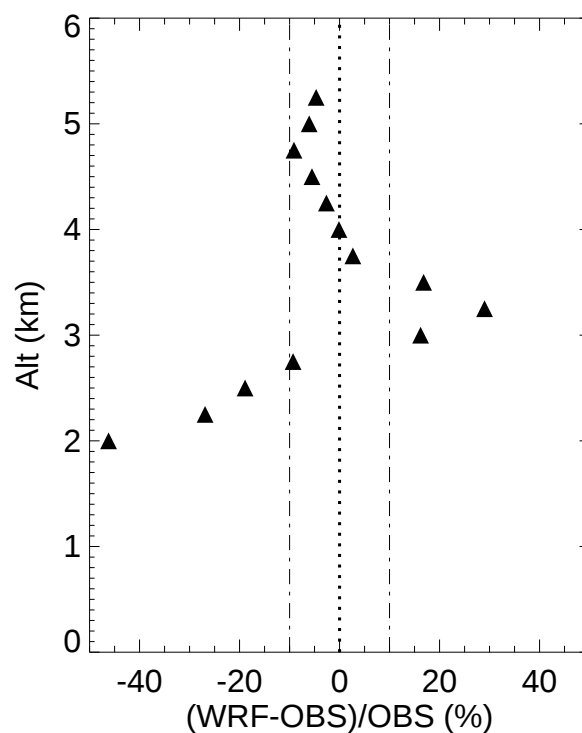
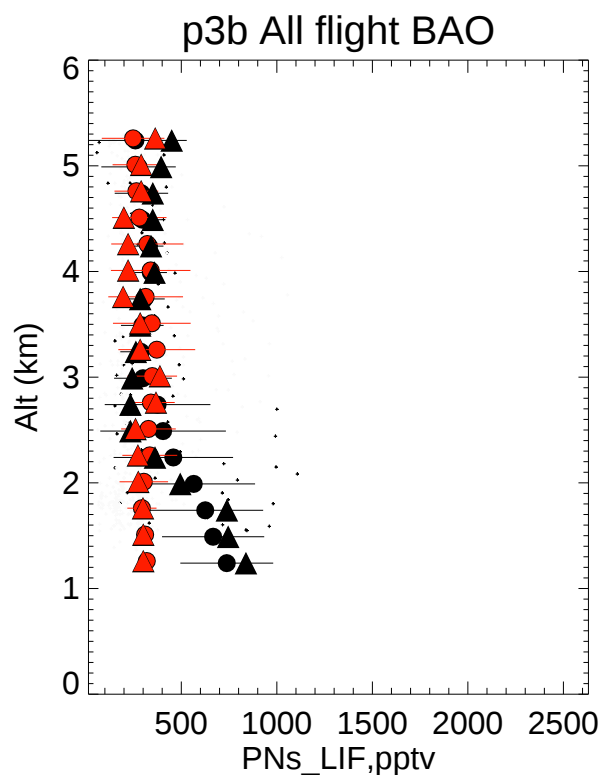
p3b All flight FortCollins



p3b All flight Platteville

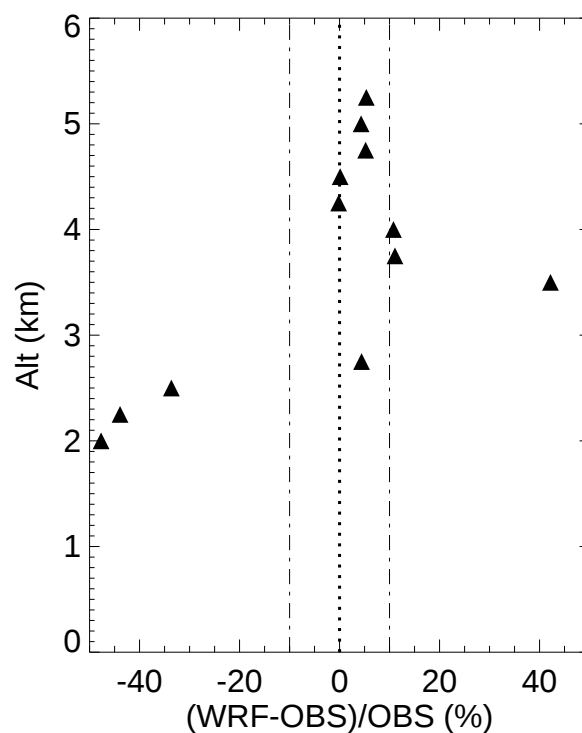
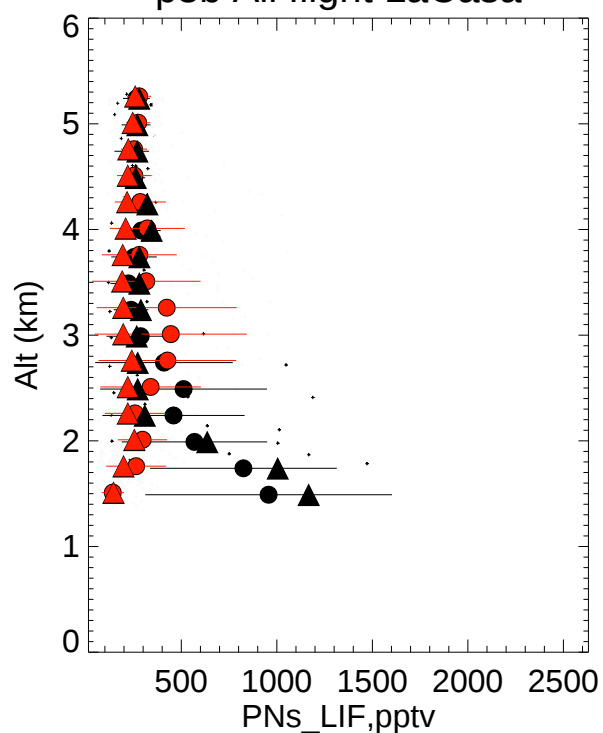


BTX- 7to10LT

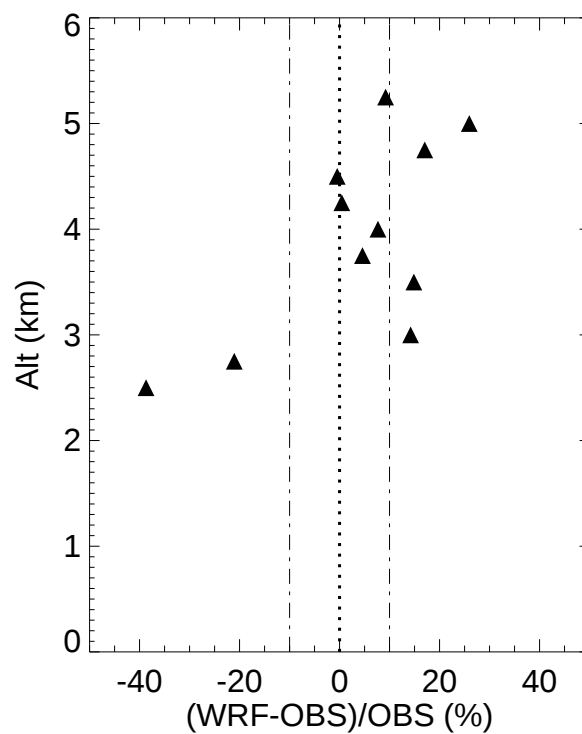
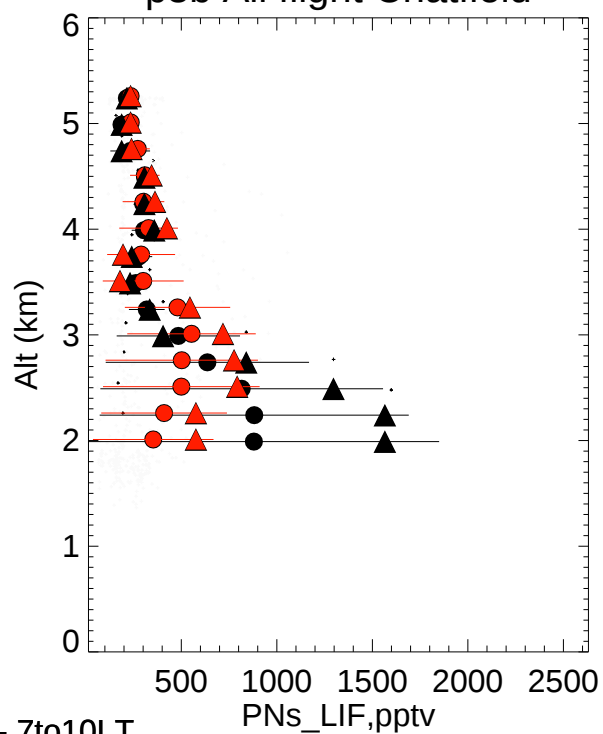


BTX- 7to10LT

p3b All flight LaCasa

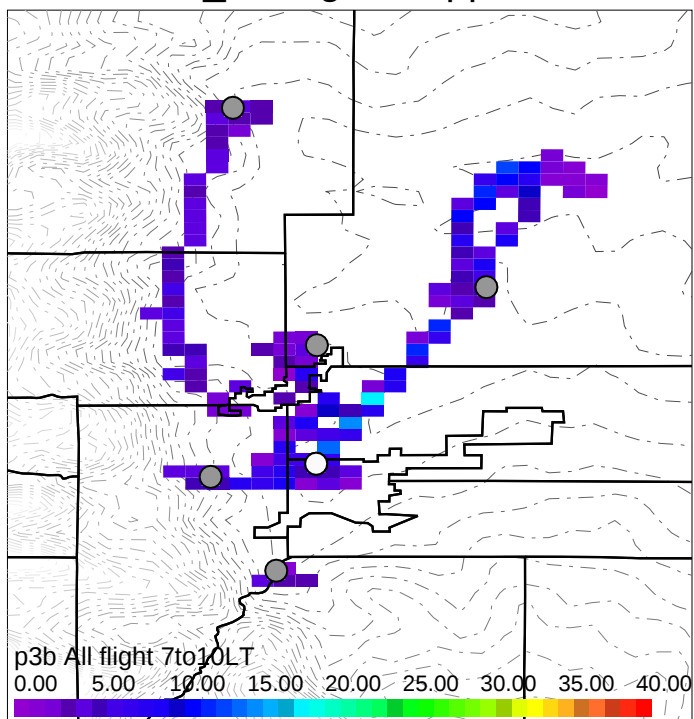


p3b All flight Chatfield

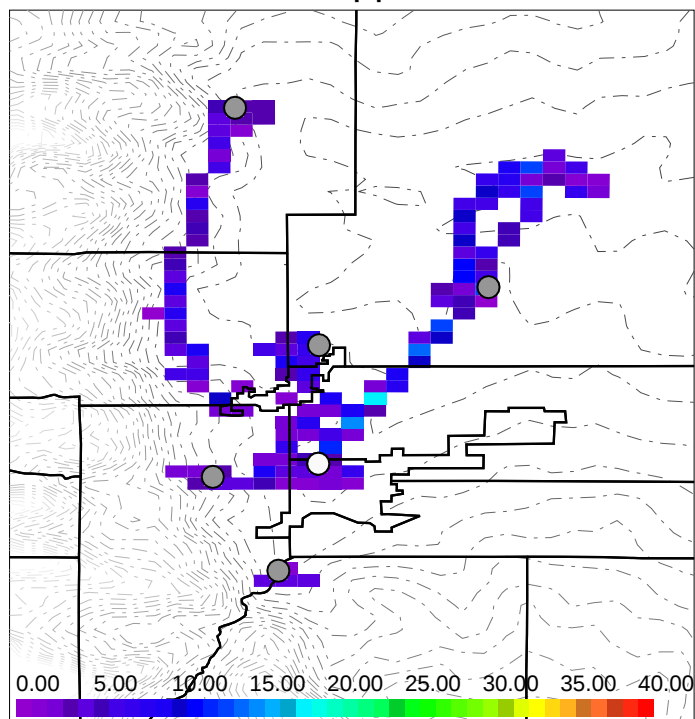


BTX- 7to10LT

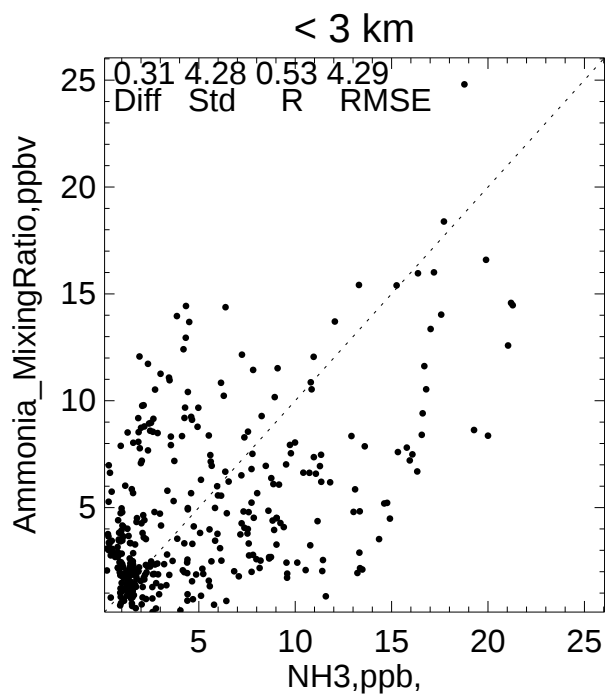
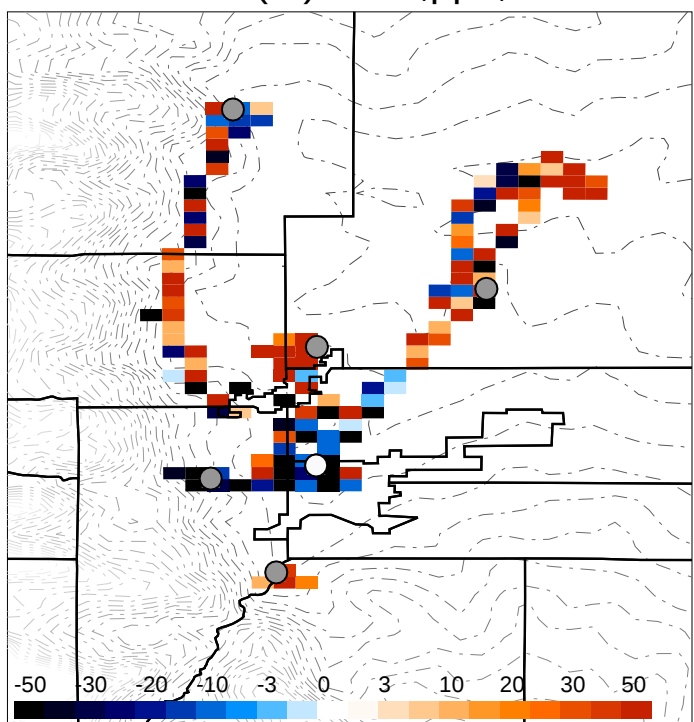
Ammonia_MixingRatio,ppbv < 3 km



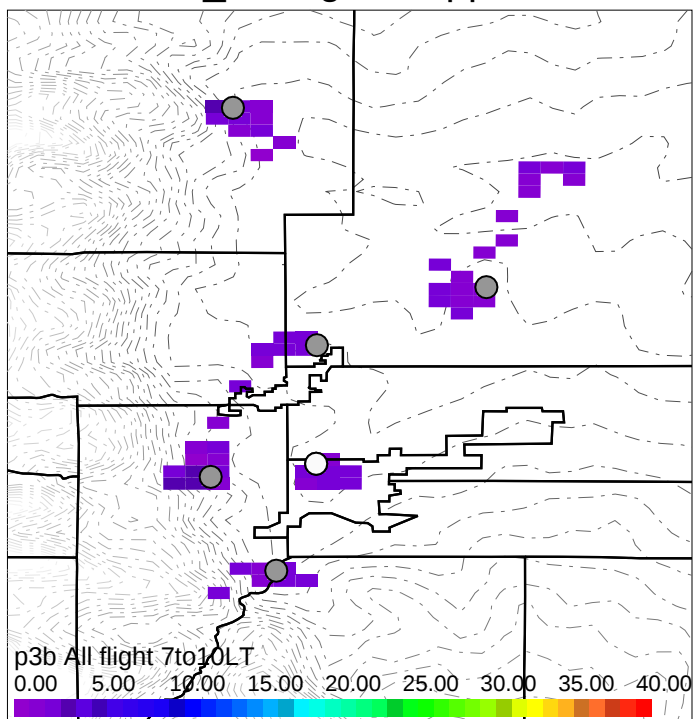
Model NH3,ppb, < 3 km



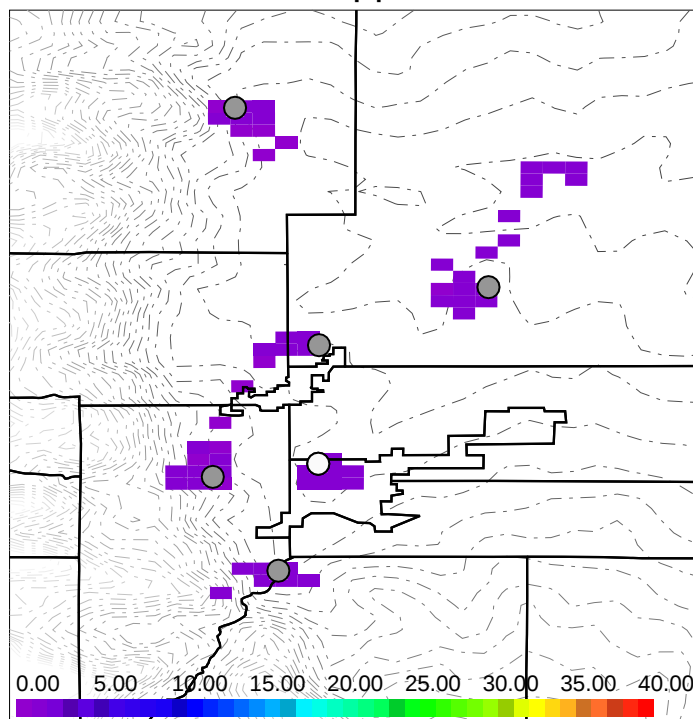
Model-Obs(%) NH3,ppb, < 3 km



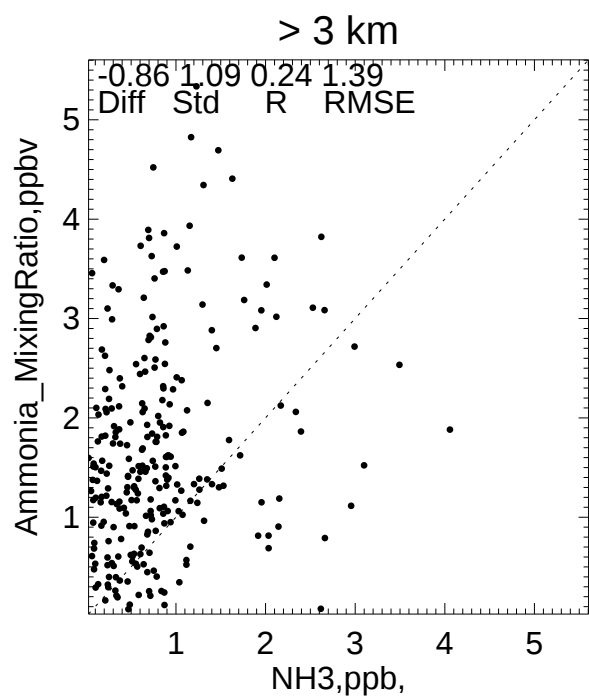
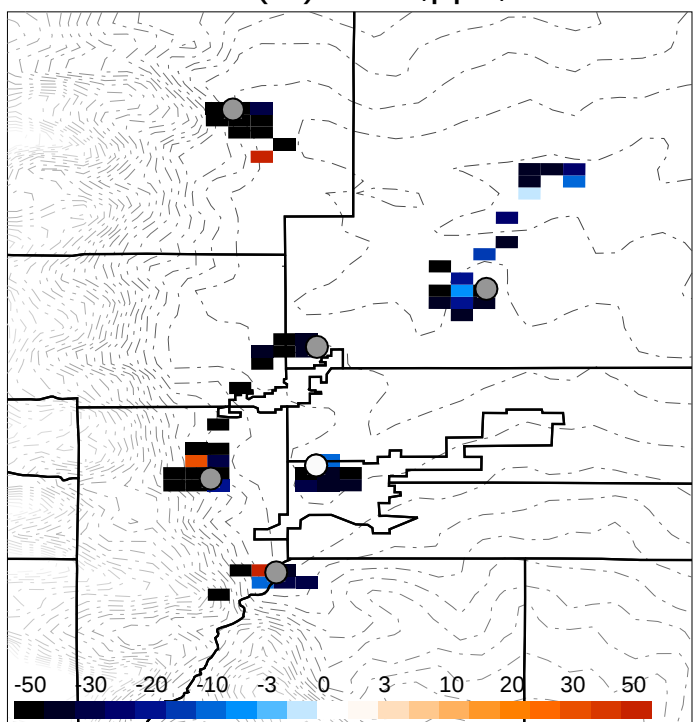
Ammonia_MixingRatio,ppbv > 3 km



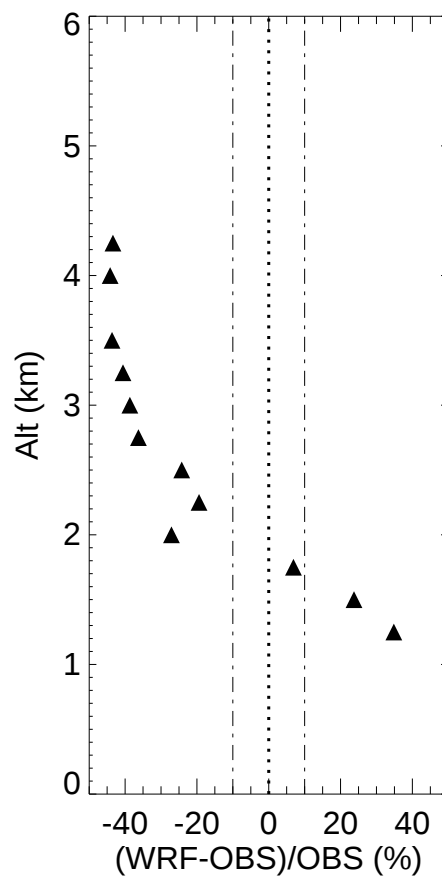
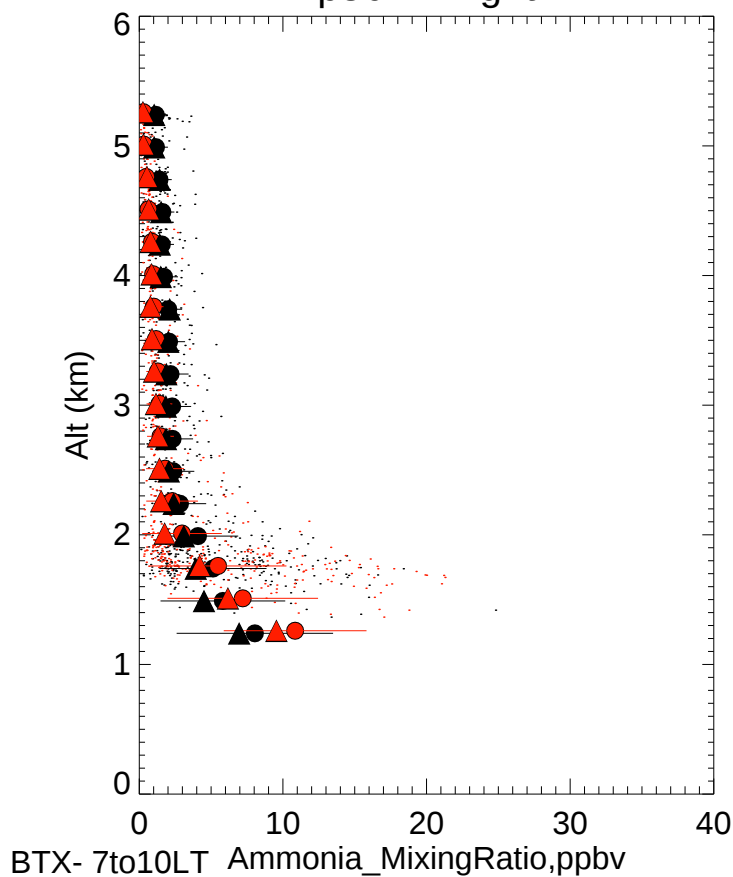
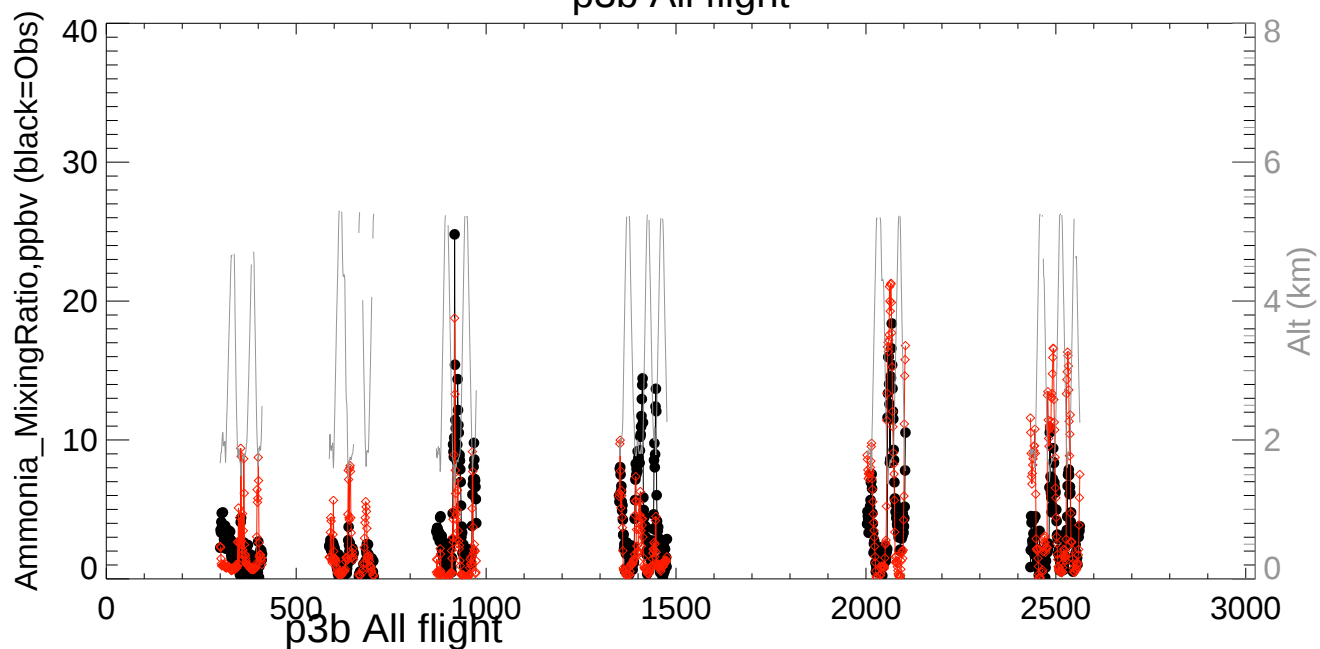
Model NH3,ppb, > 3 km



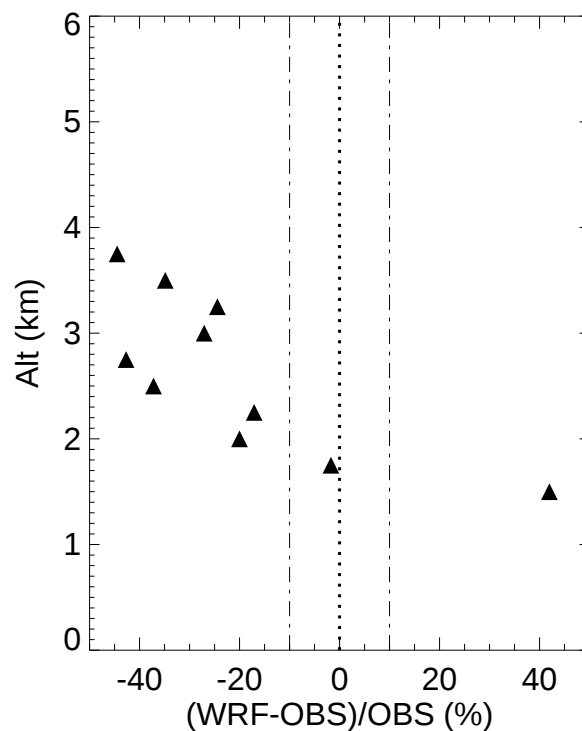
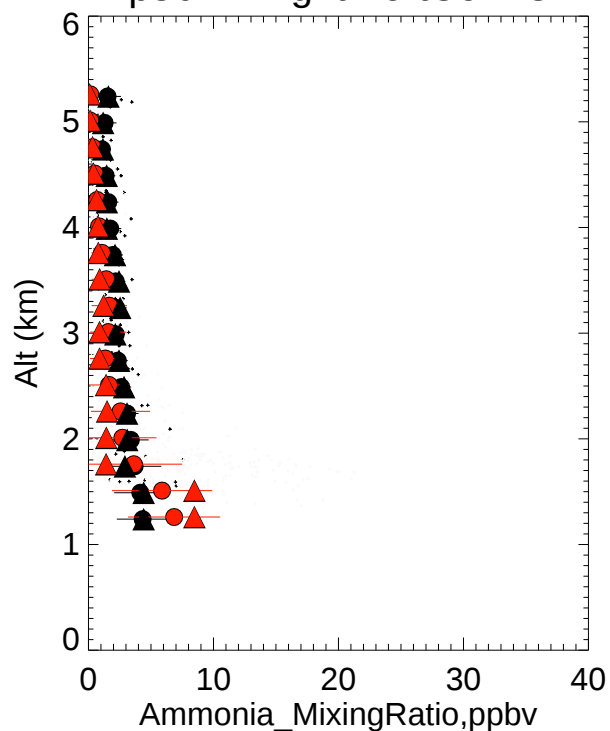
Model-Obs(%) NH3,ppb, > 3 km



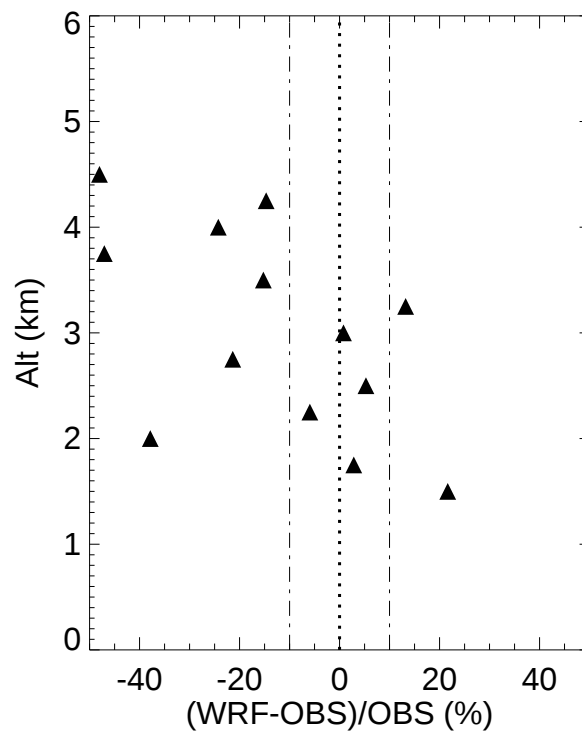
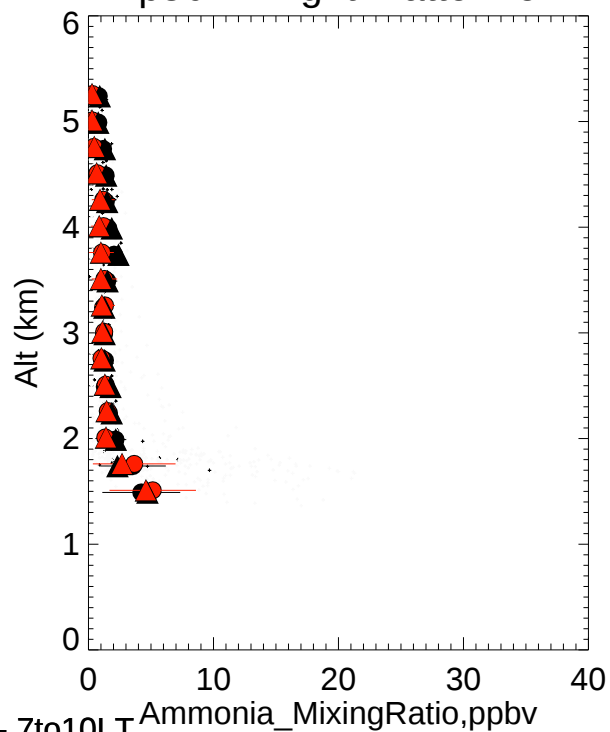
p3b All flight



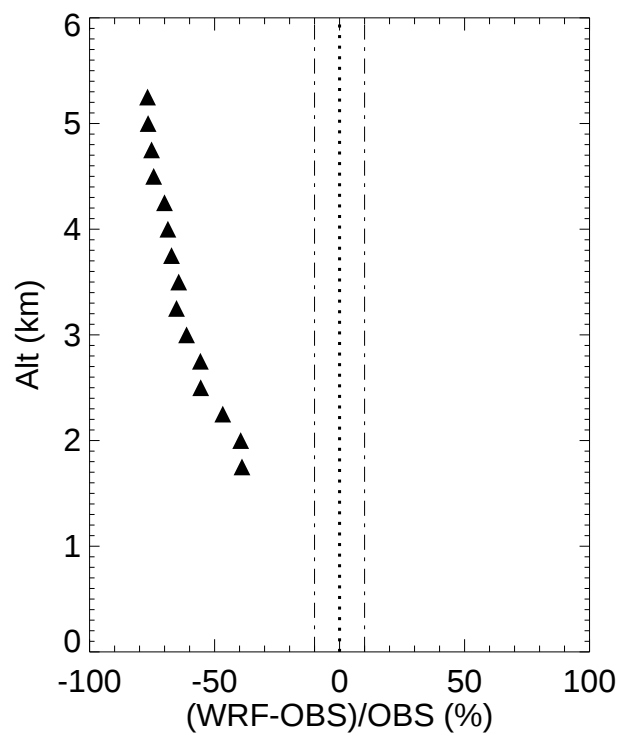
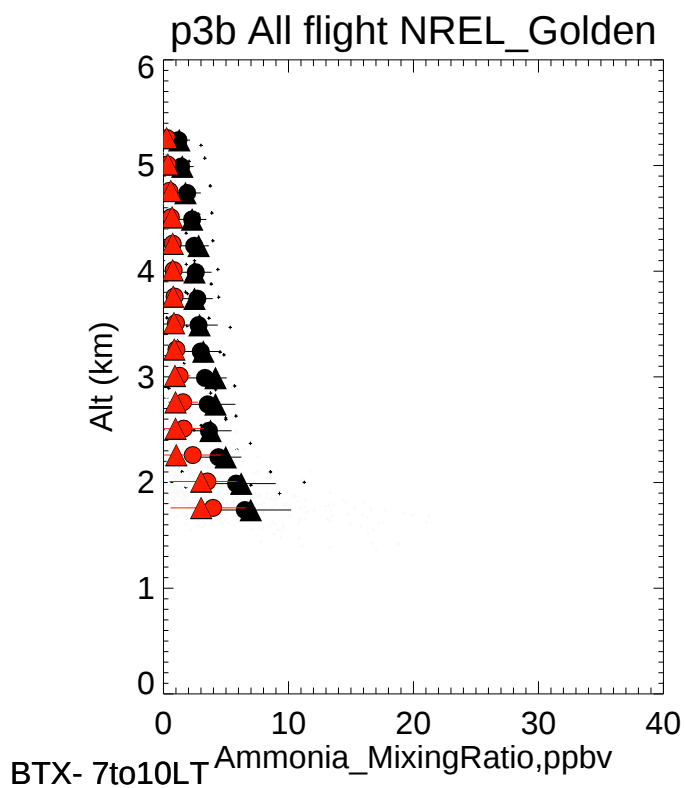
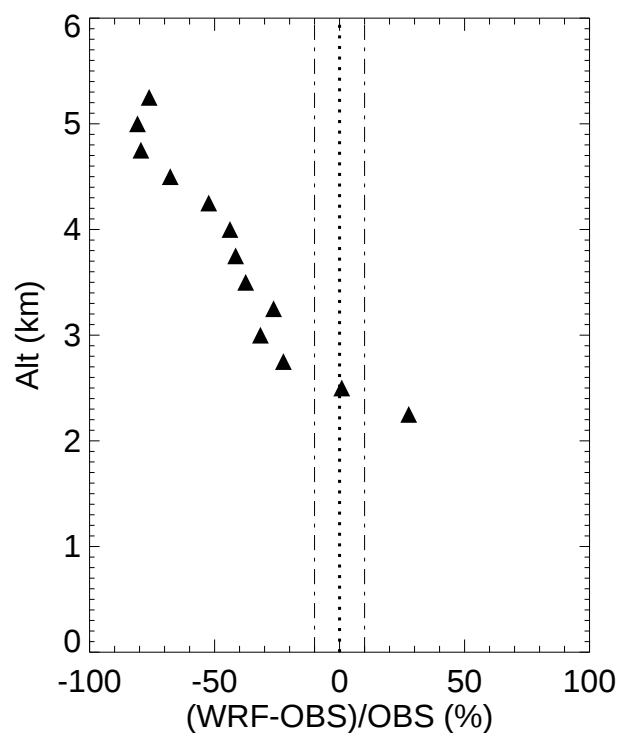
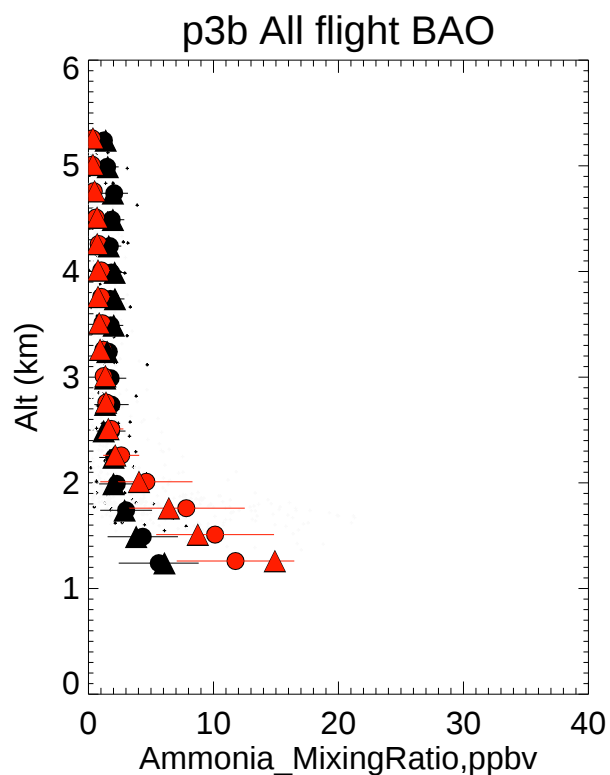
p3b All flight FortCollins



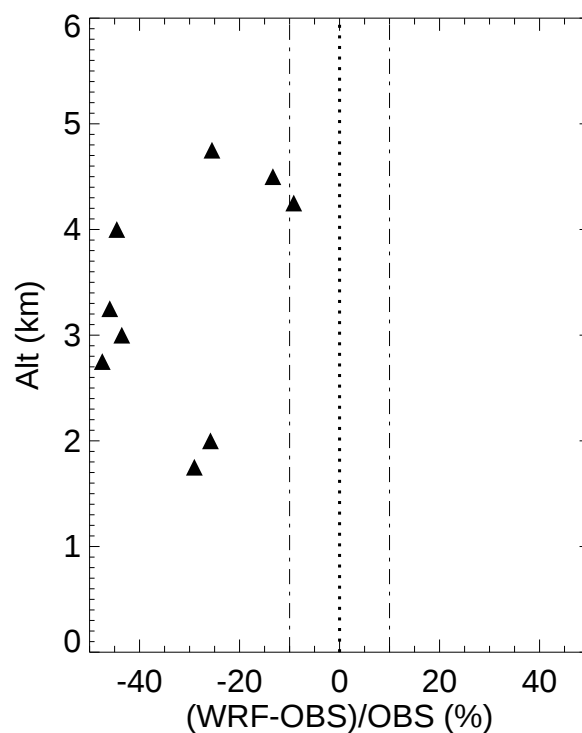
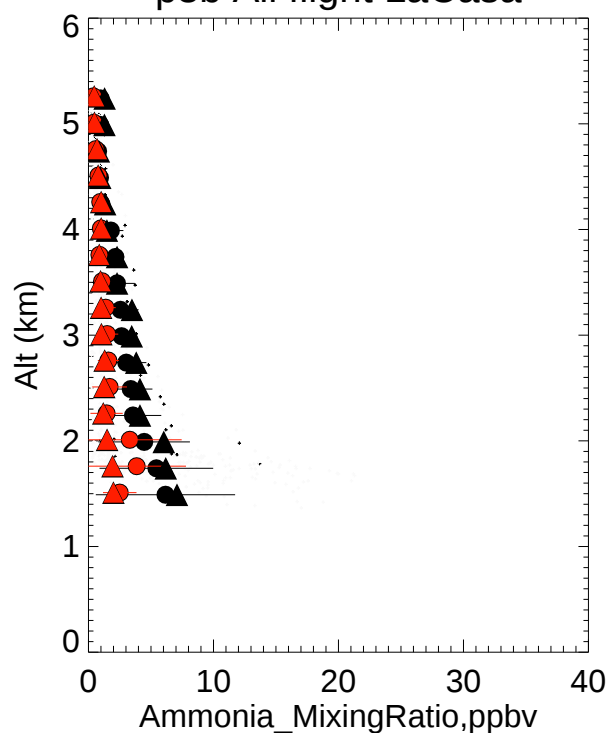
p3b All flight Platteville



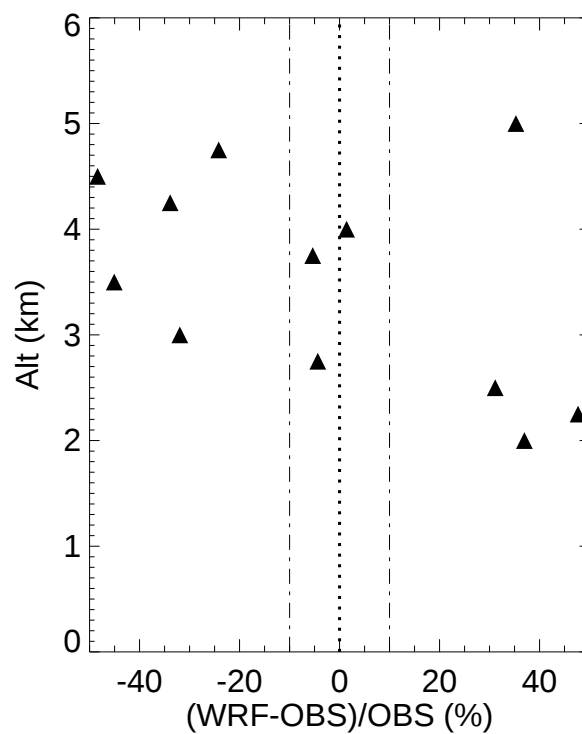
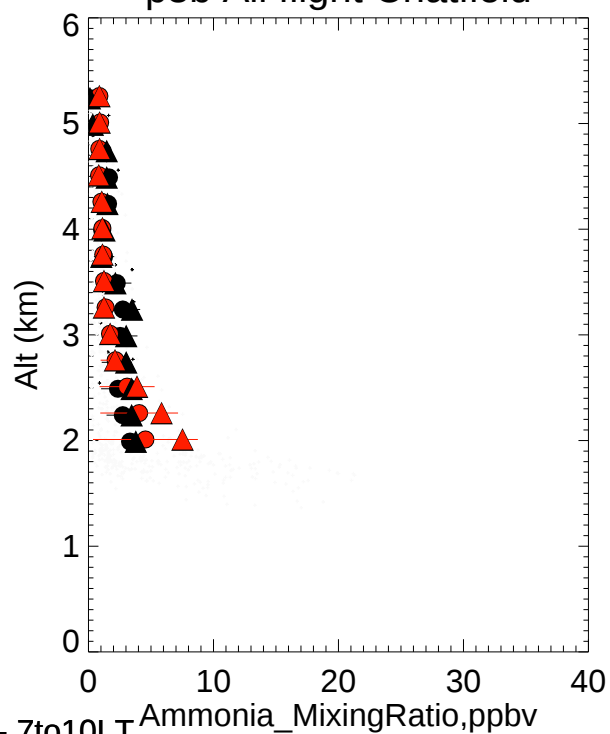
BTX- 7to10LT



p3b All flight LaCasa

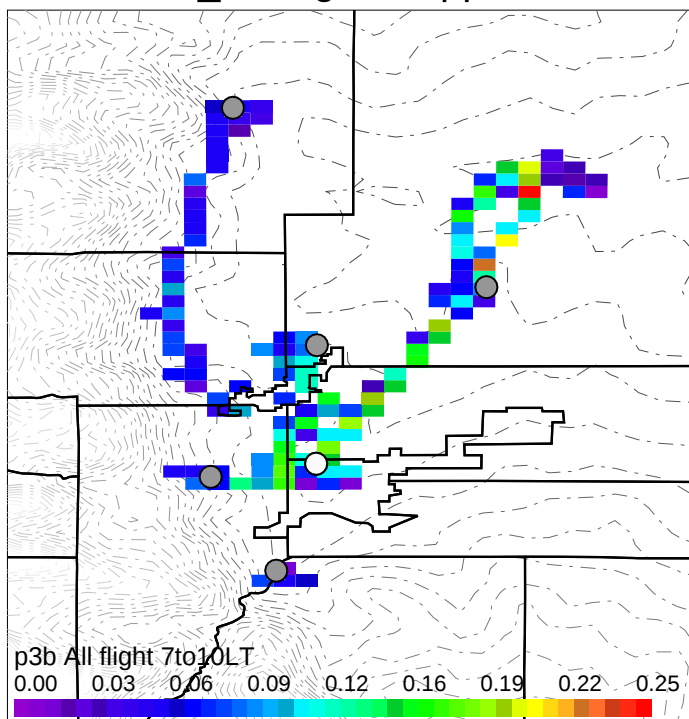


p3b All flight Chatfield

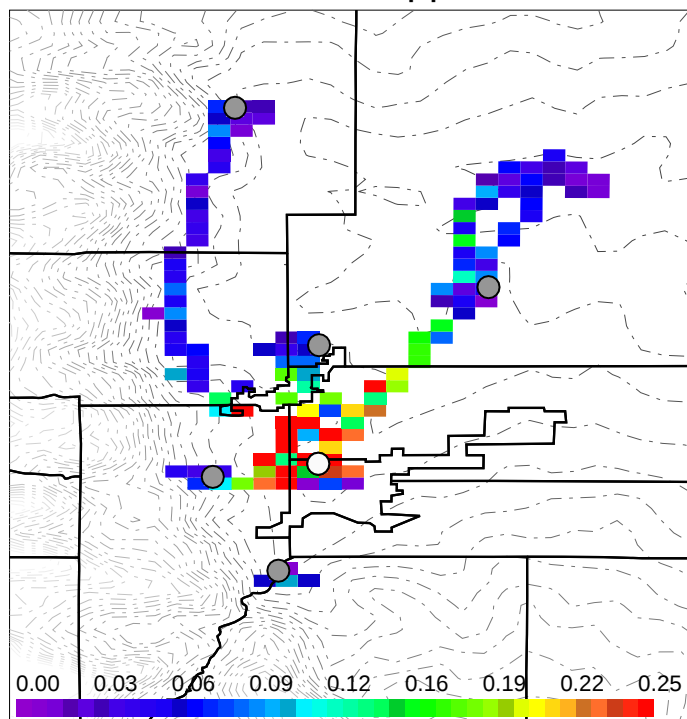


BTX- 7to10LT

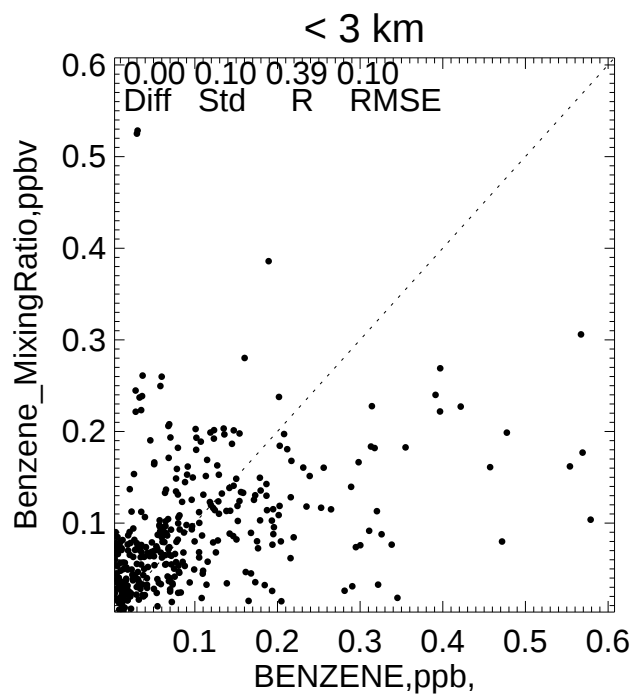
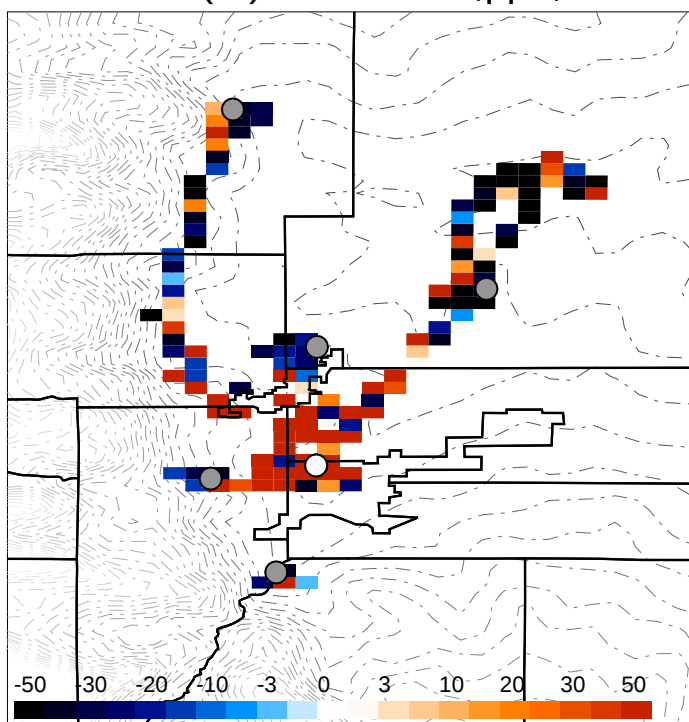
Benzene_MixingRatio,ppbv < 3 km



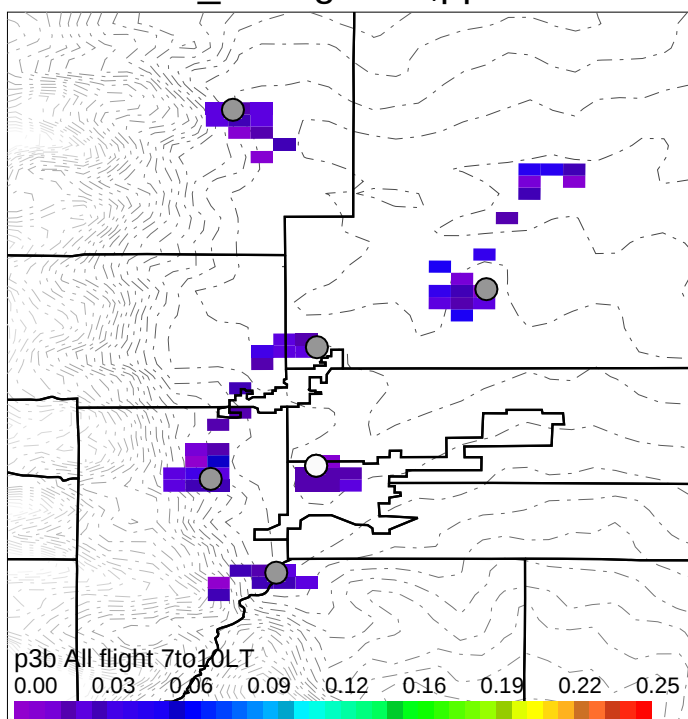
Model BENZENE,ppb, < 3 km



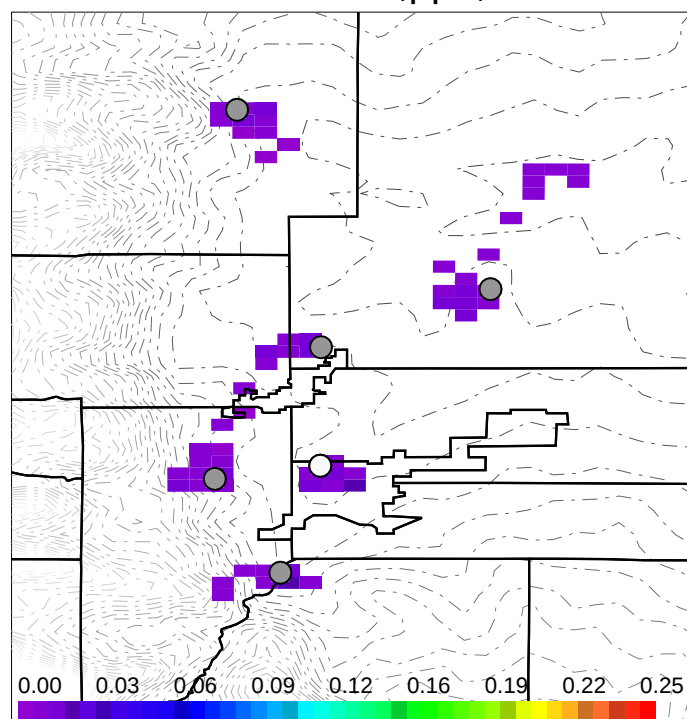
Model-Obs(%) BENZENE,ppb, < 3 km



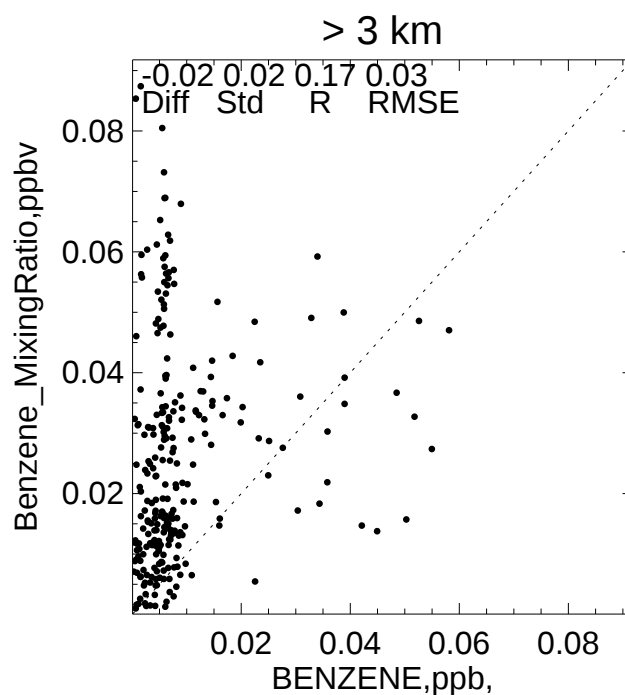
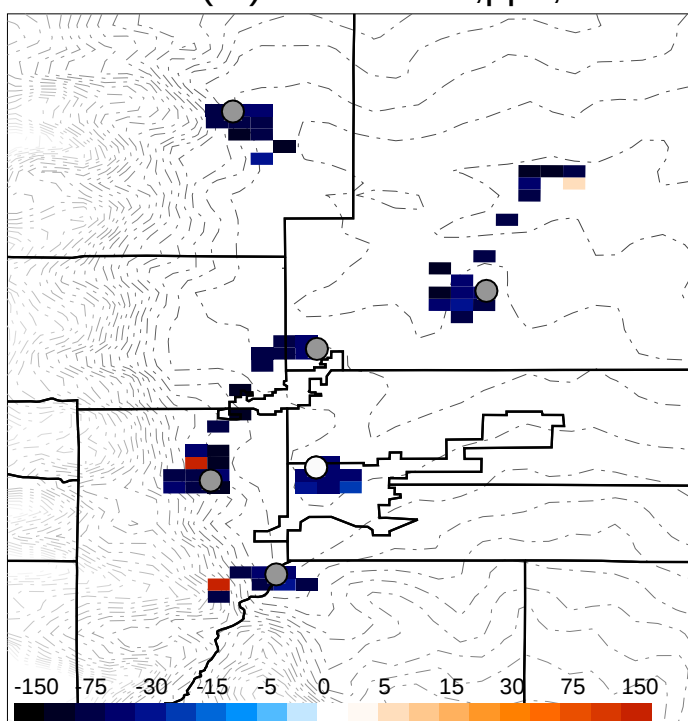
Benzene_MixingRatio,ppbv > 3 km

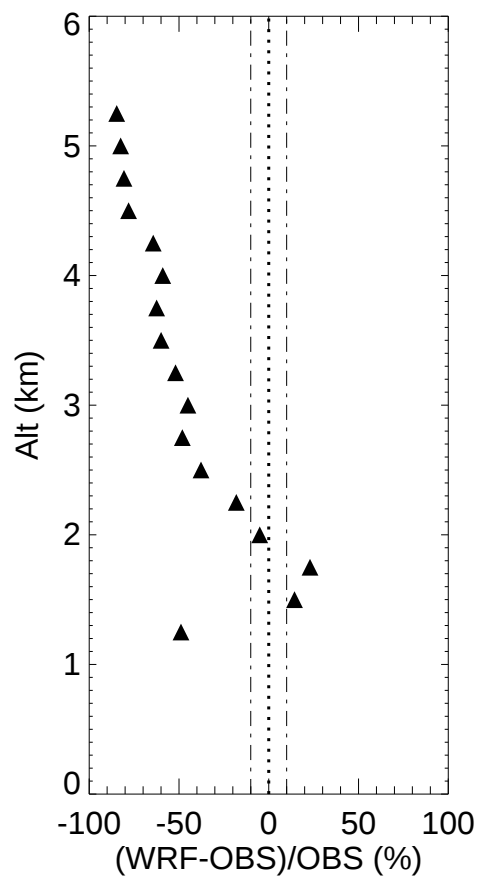
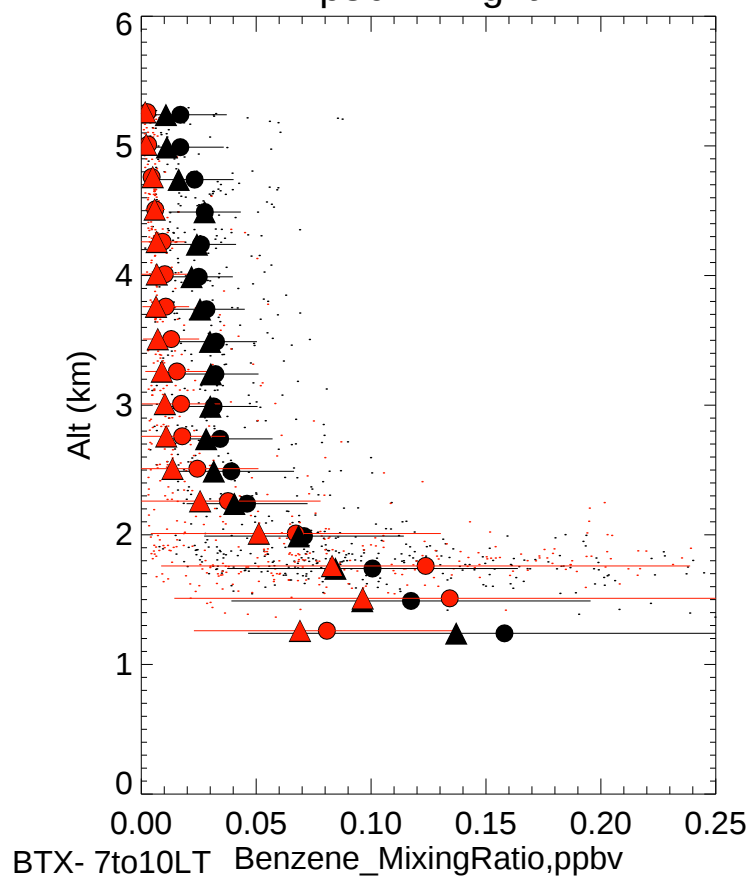
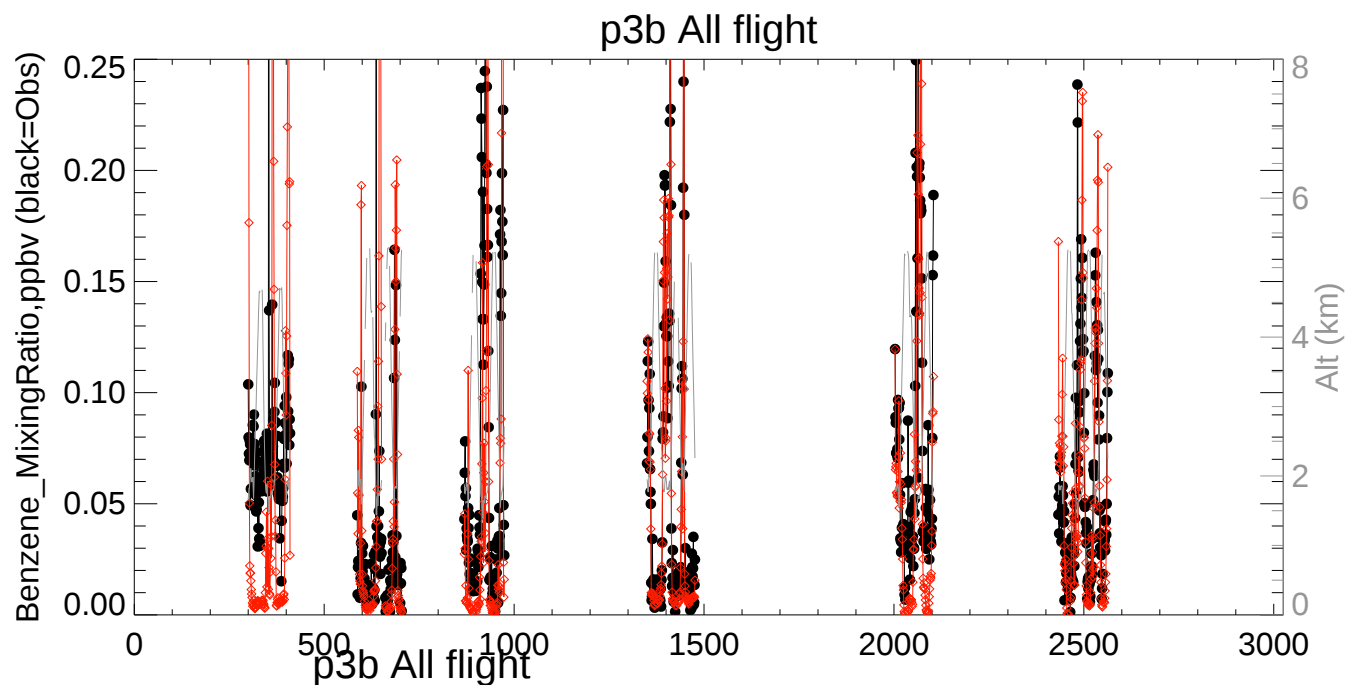


Model BENZENE,ppb, > 3 km

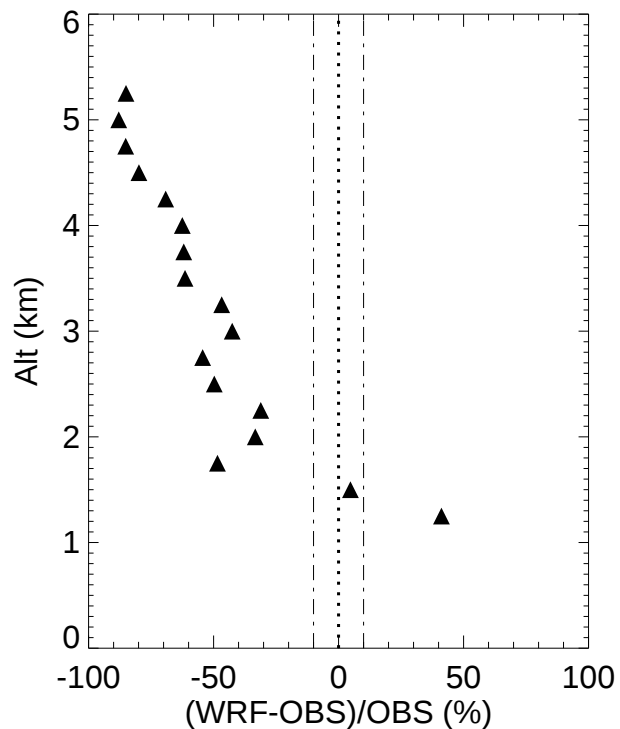
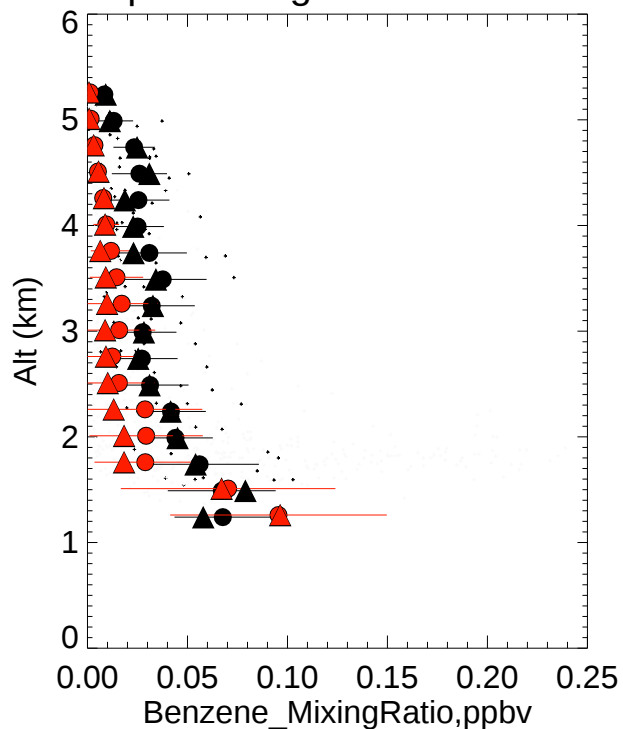


Model-Obs(%) BENZENE,ppb, > 3 km

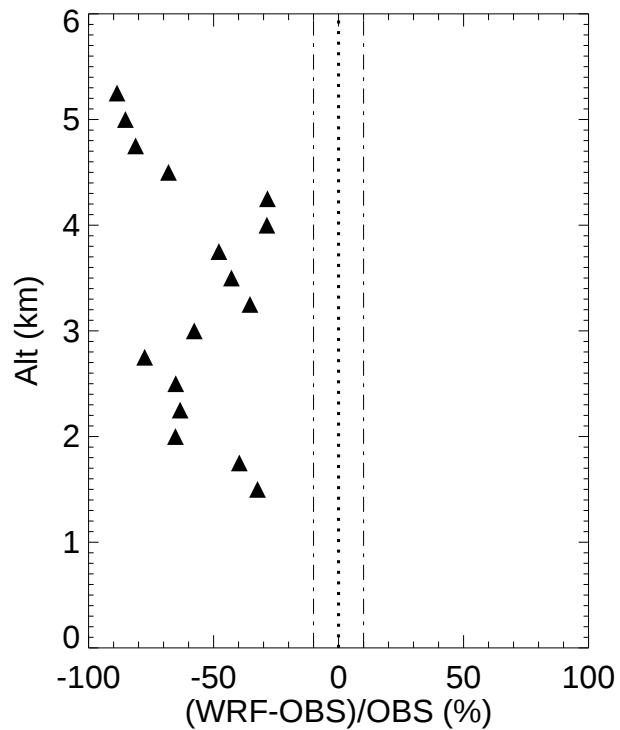
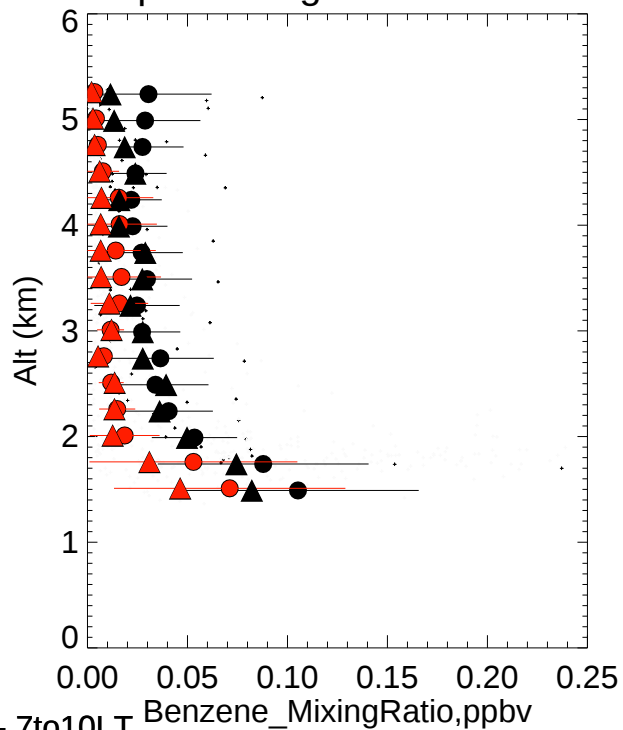




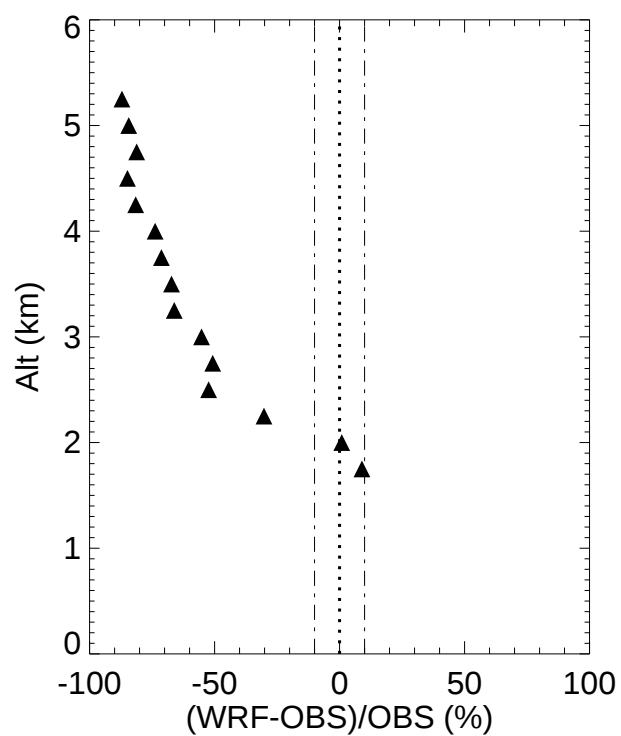
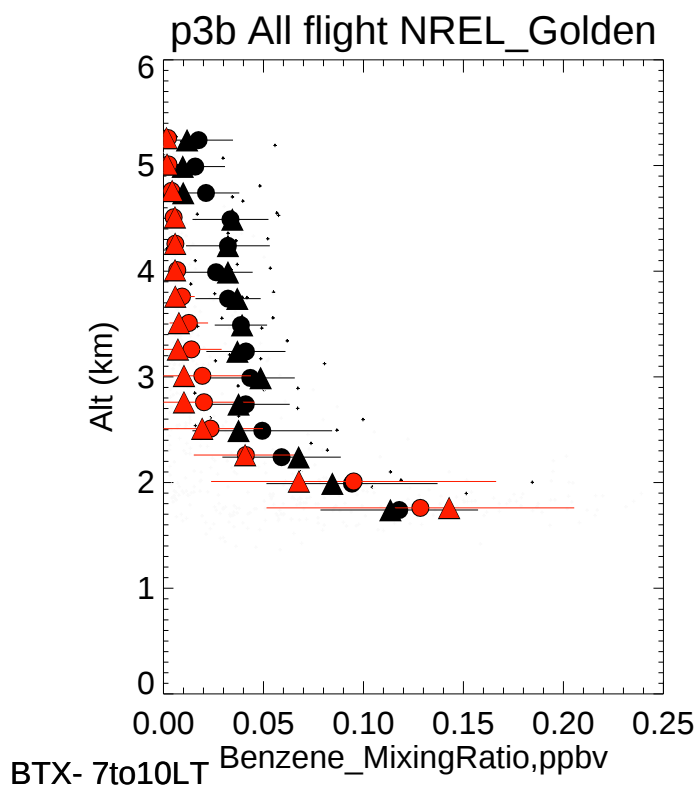
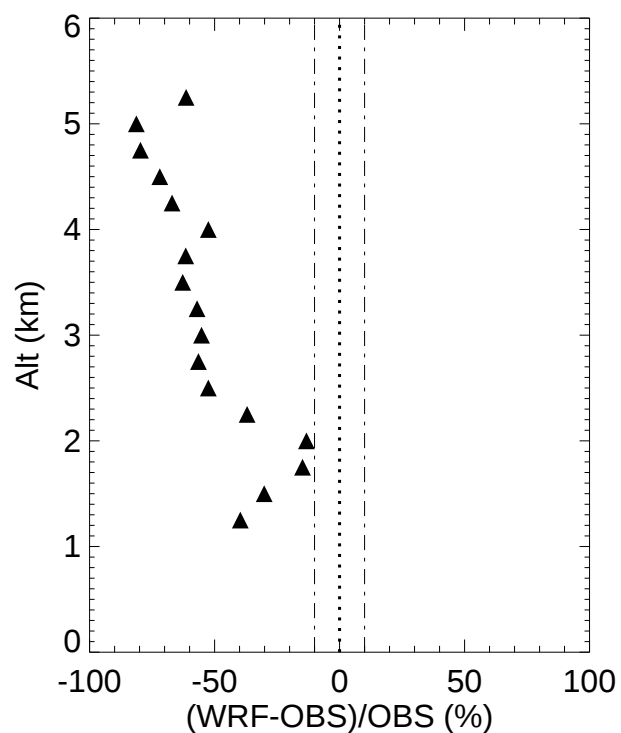
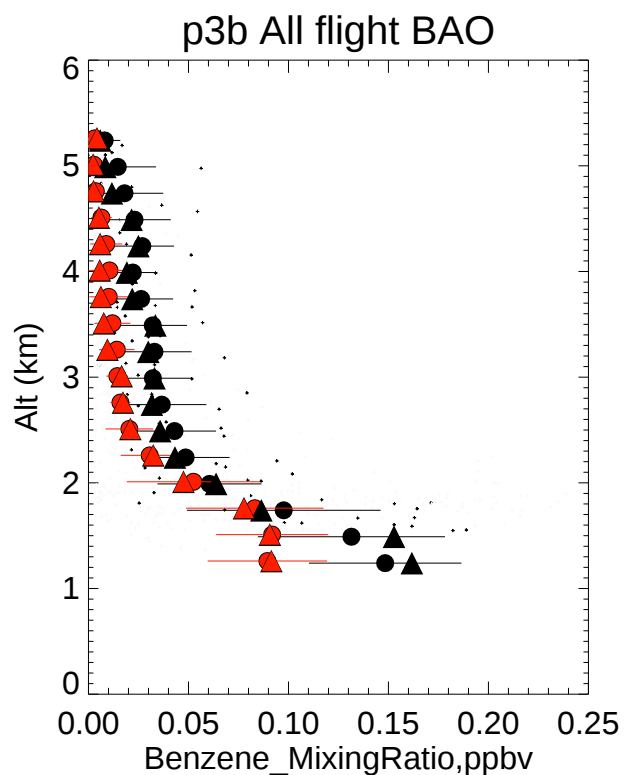
p3b All flight FortCollins



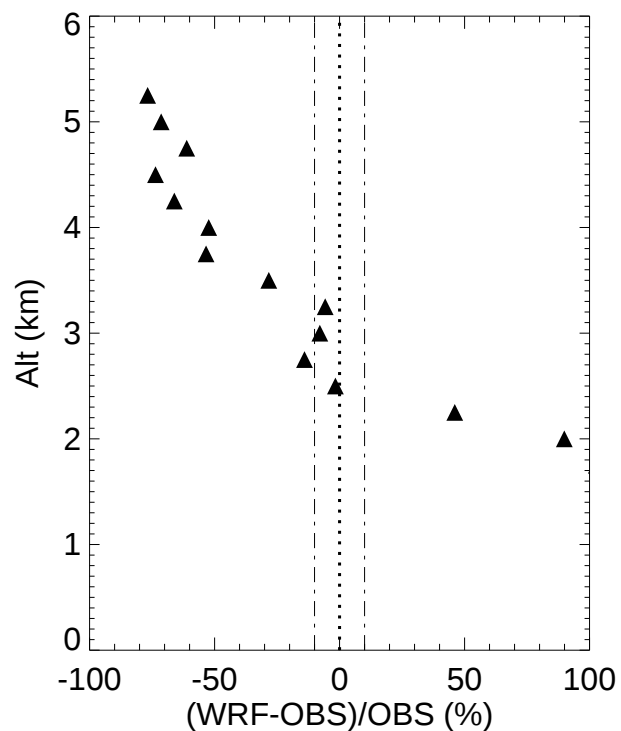
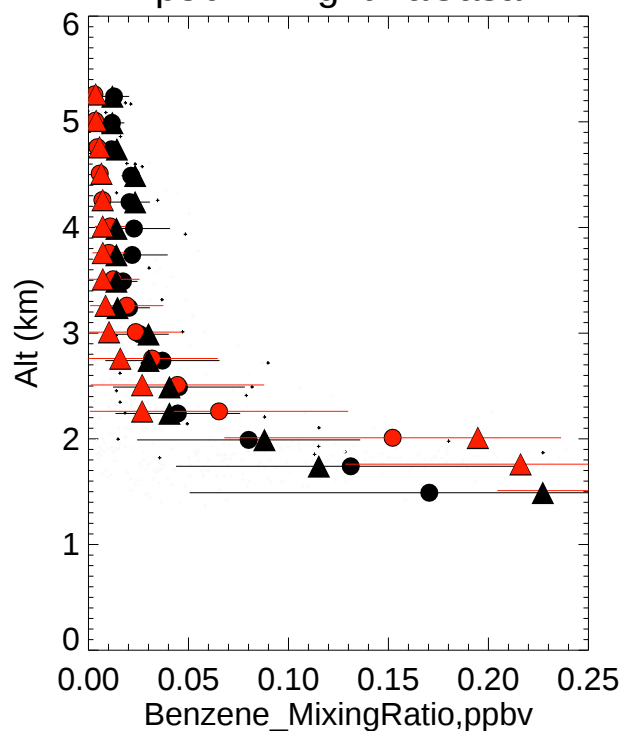
p3b All flight Platteville



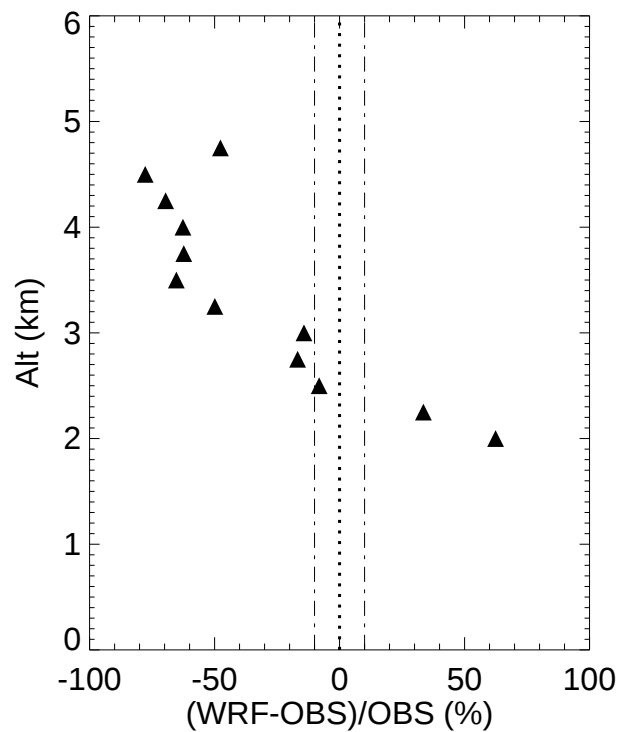
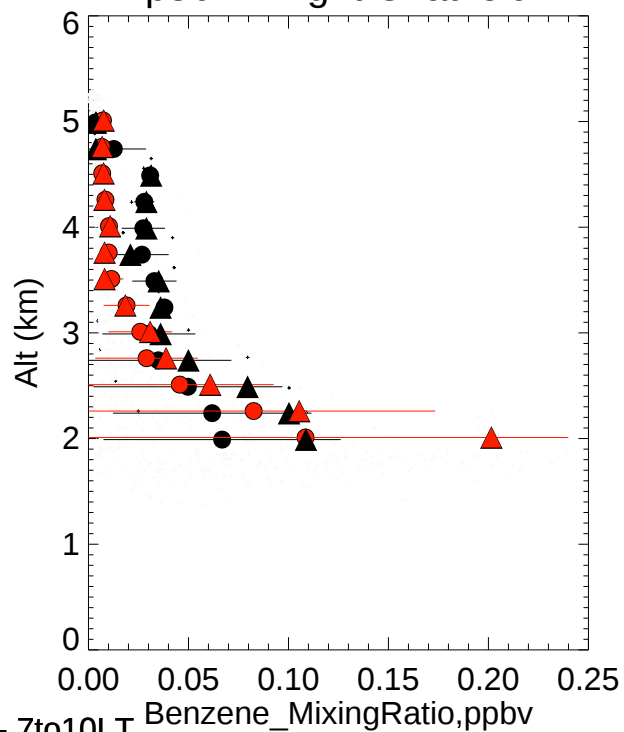
BTX- 7to10LT



p3b All flight LaCasa

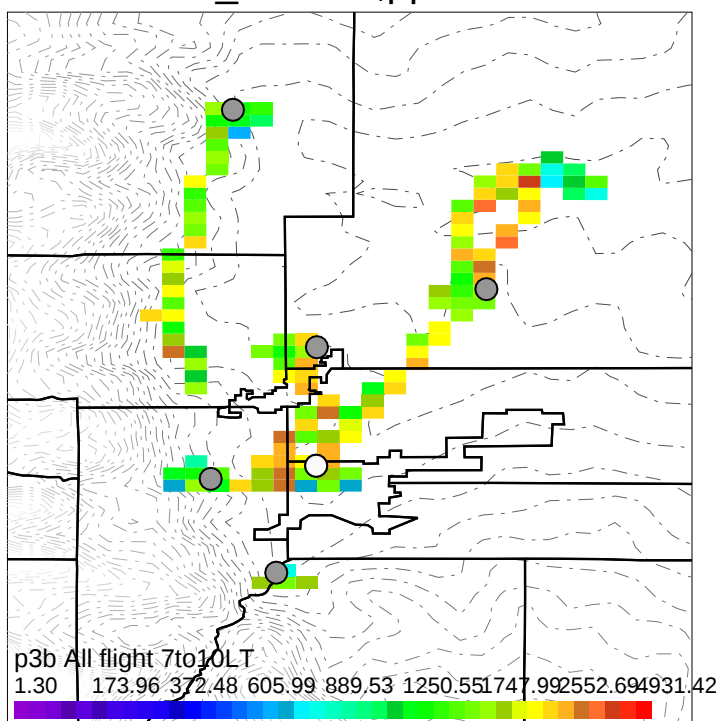


p3b All flight Chatfield

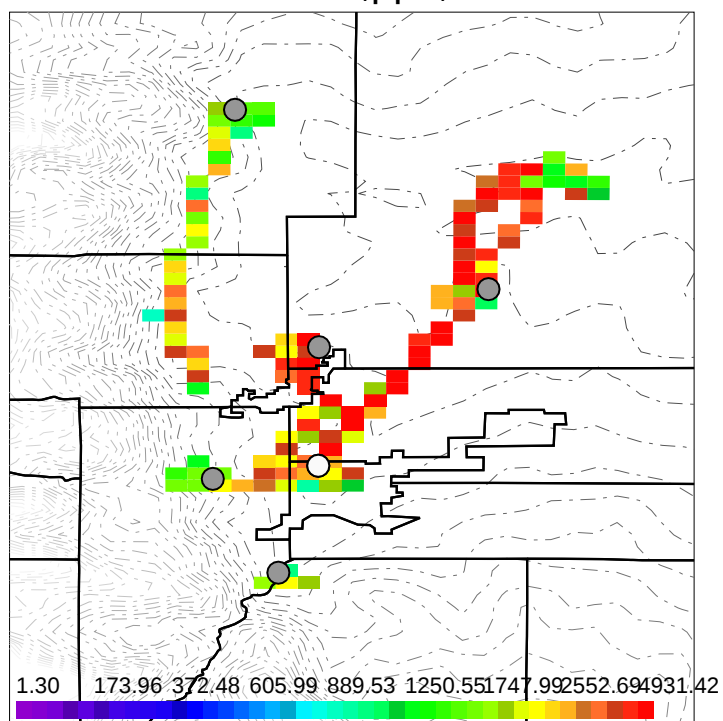


BTX- 7to10LT

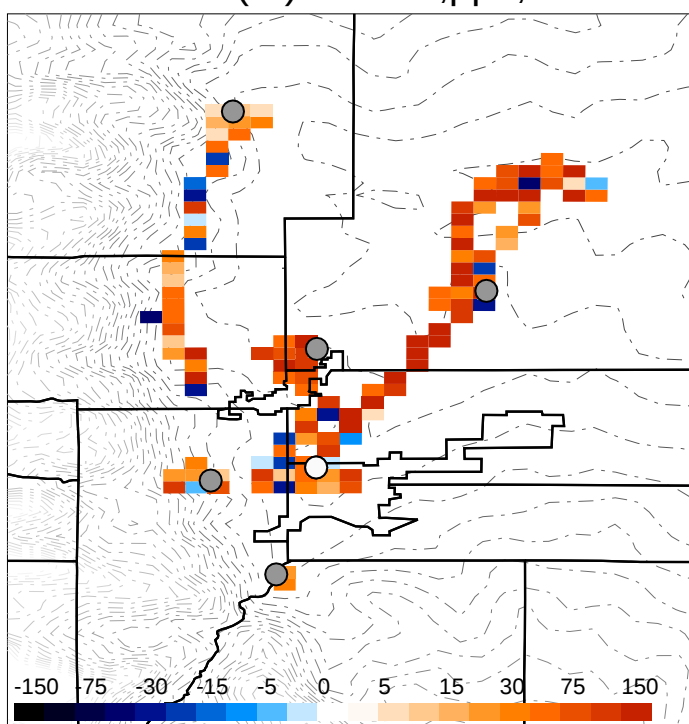
CH2O_DFGAS,pptv < 3 km



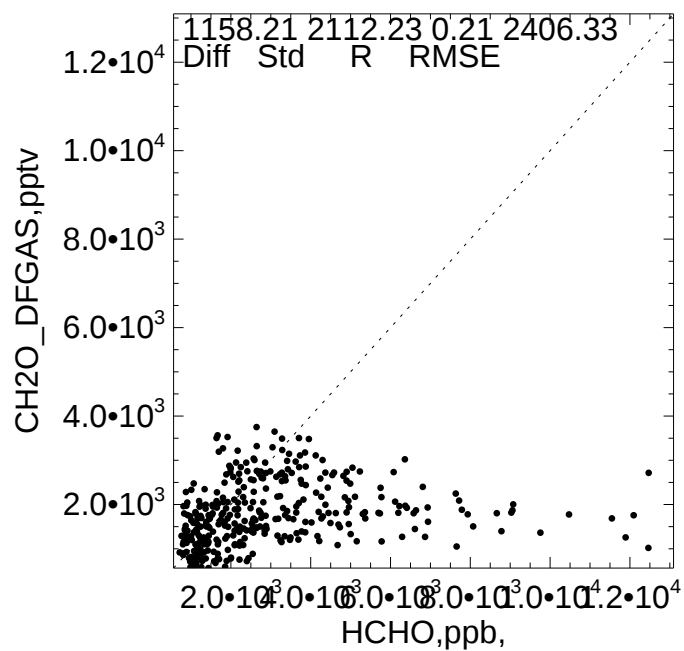
Model HCHO,ppb, < 3 km



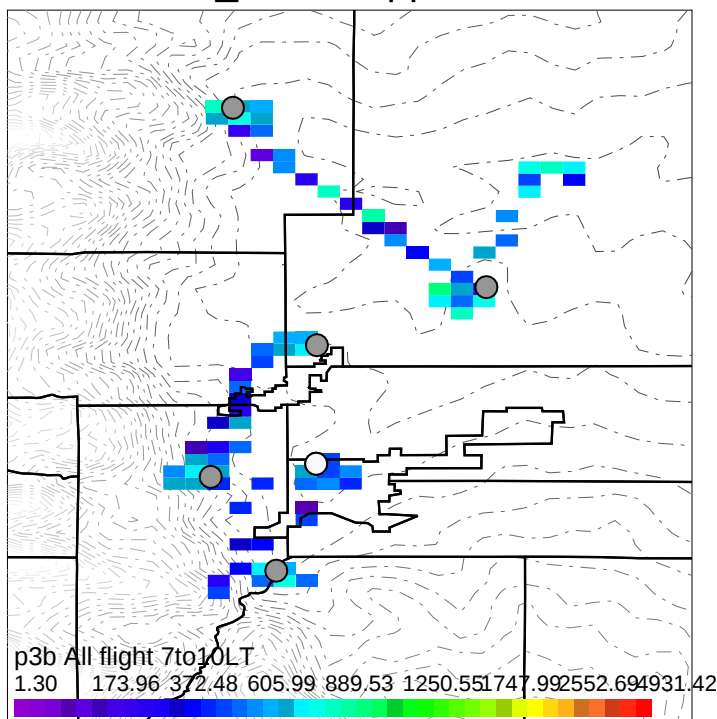
Model-Obs(%) HCHO,ppb, < 3 km



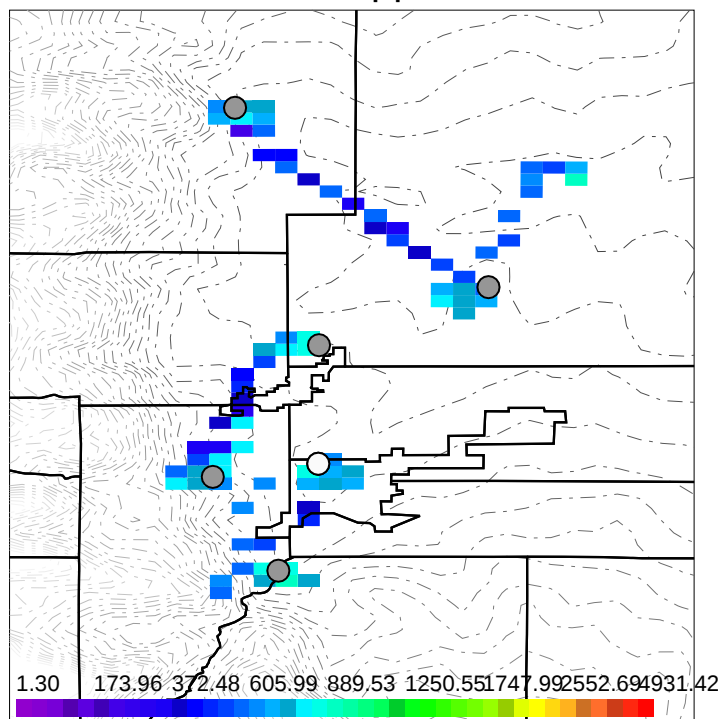
< 3 km



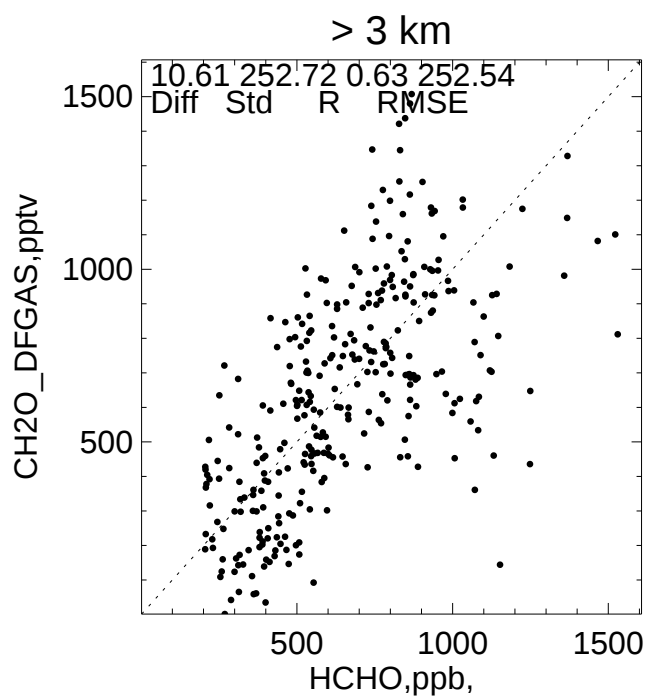
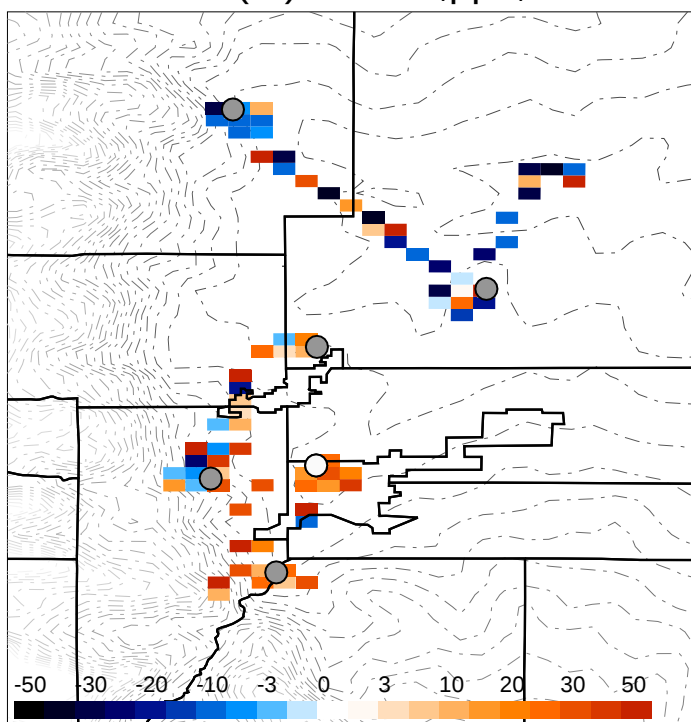
CH2O_DFGAS,pptv > 3 km



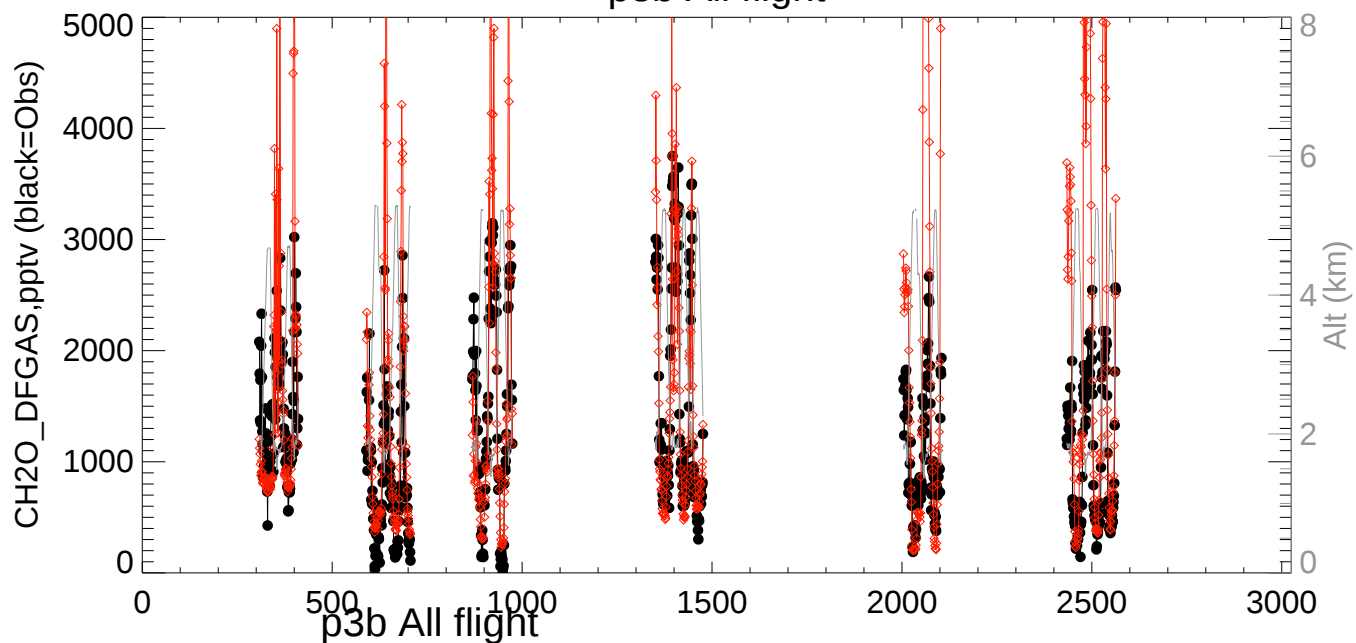
Model HCHO,ppb, > 3 km



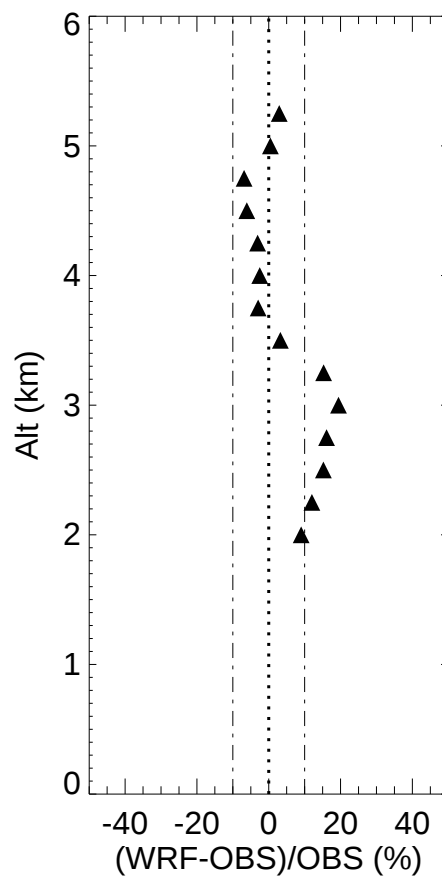
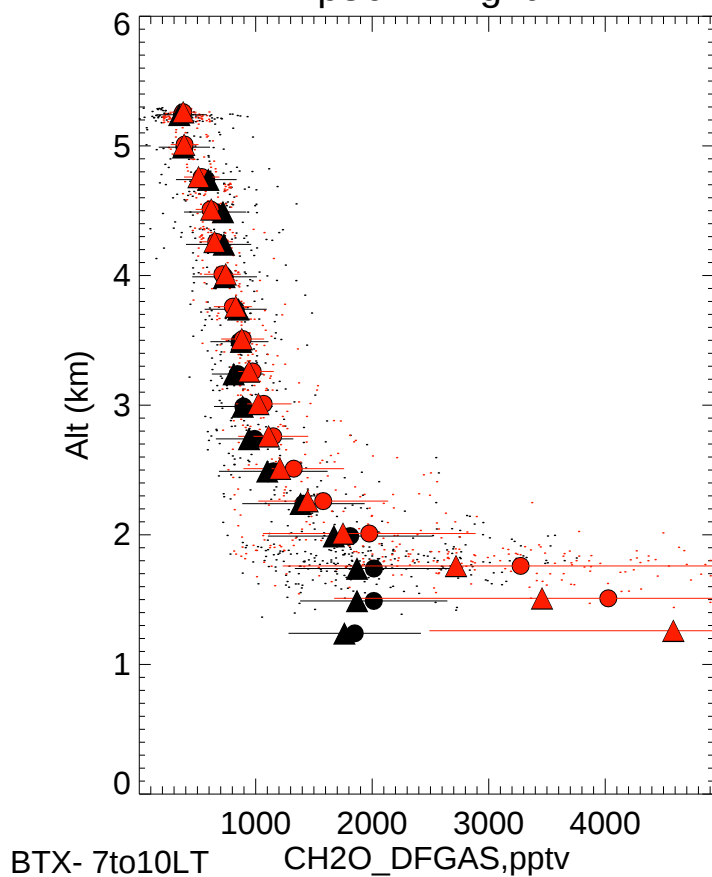
Model-Obs(%) HCHO,ppb, > 3 km



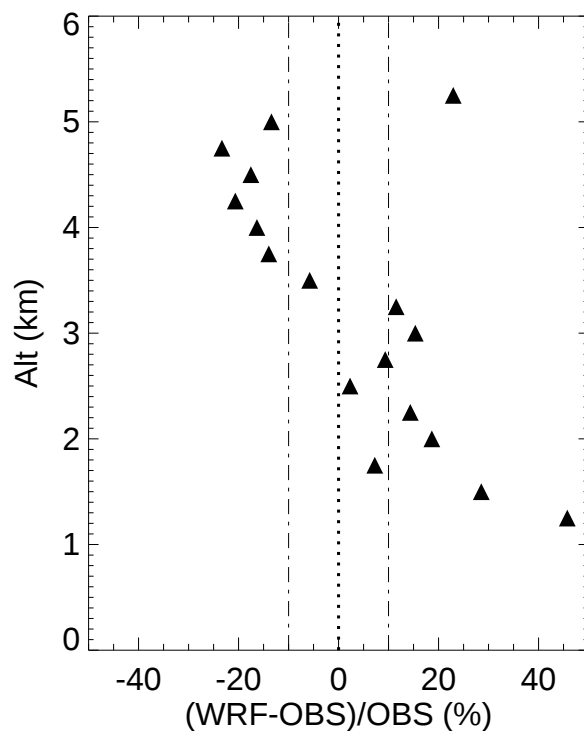
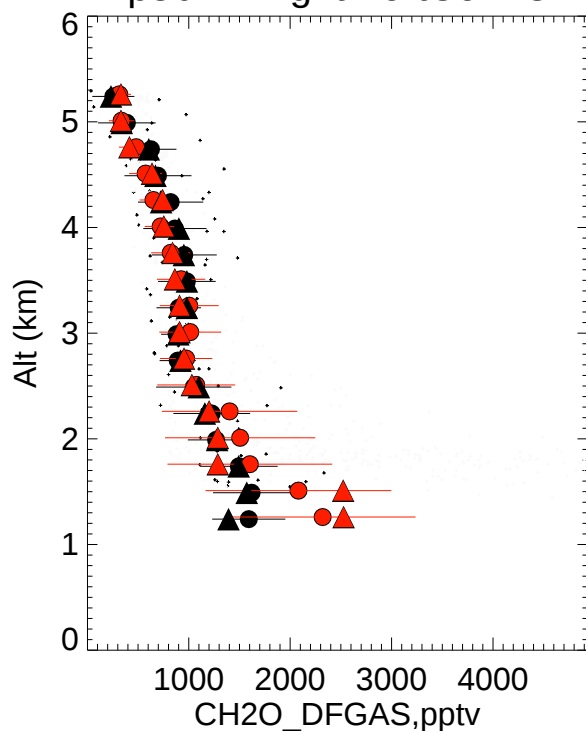
p3b All flight



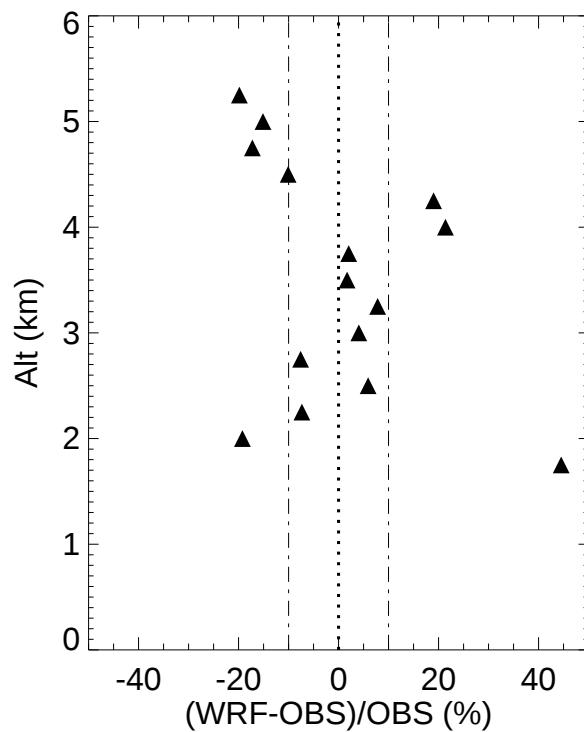
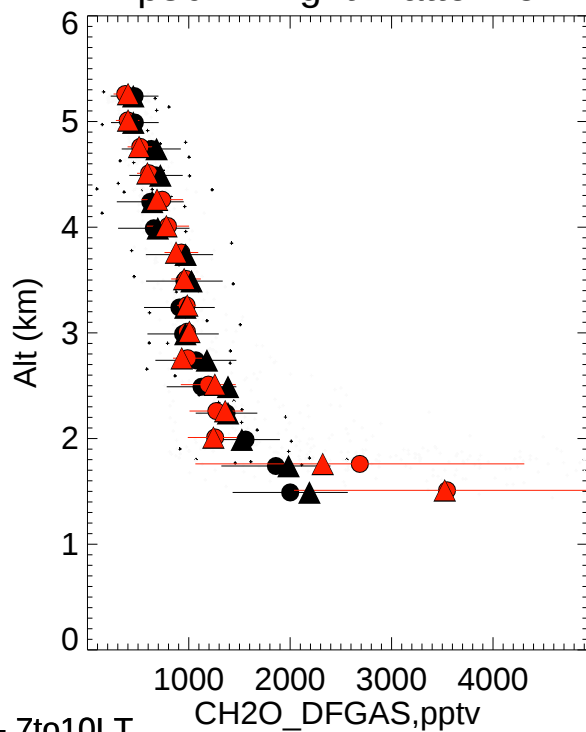
p3b All flight



p3b All flight FortCollins

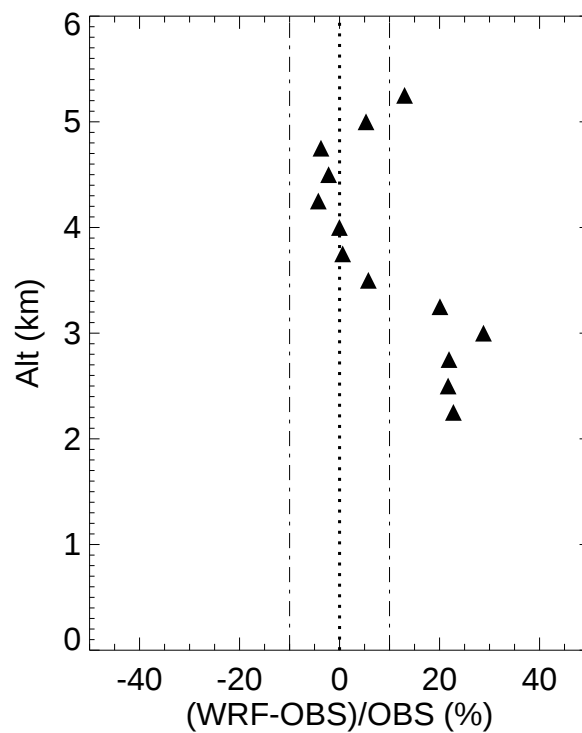
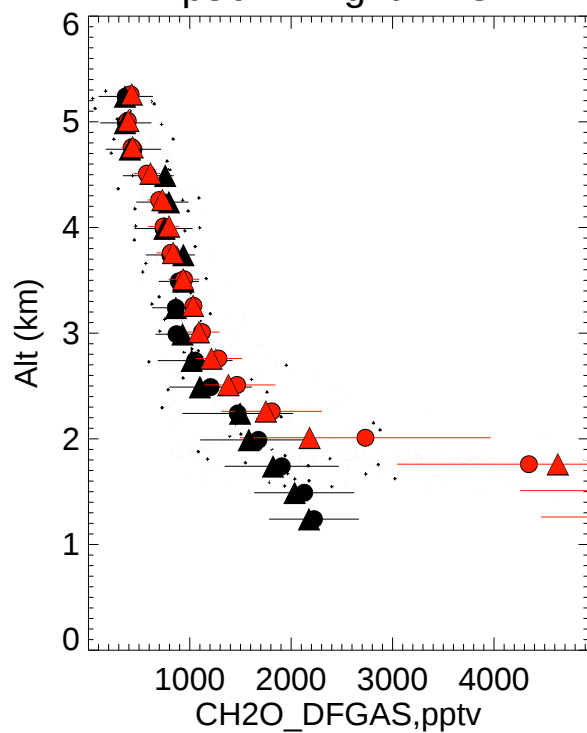


p3b All flight Platteville

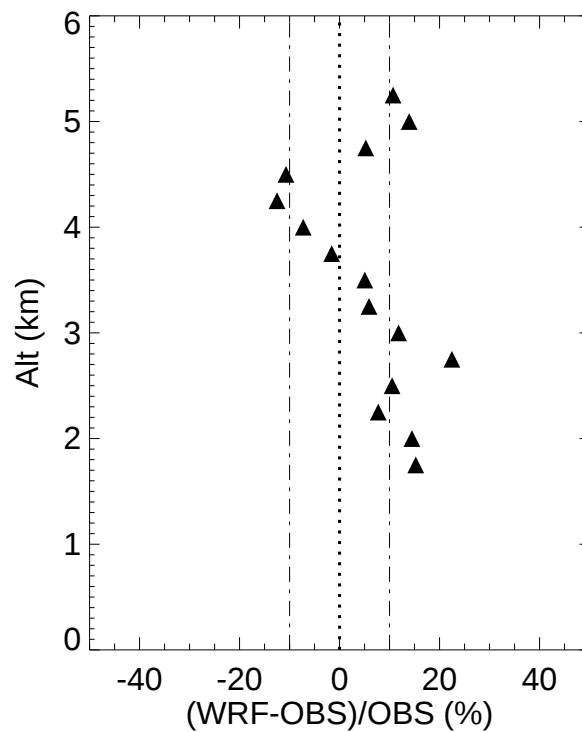
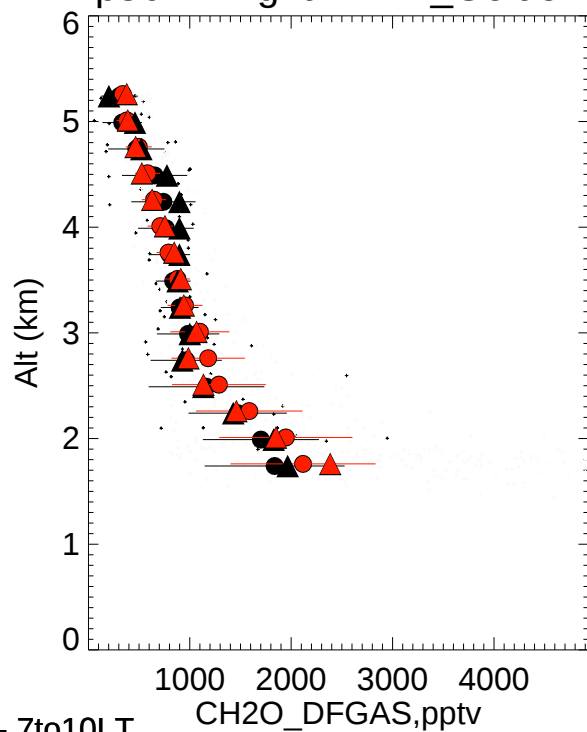


BTX- 7to10LT

p3b All flight BAO

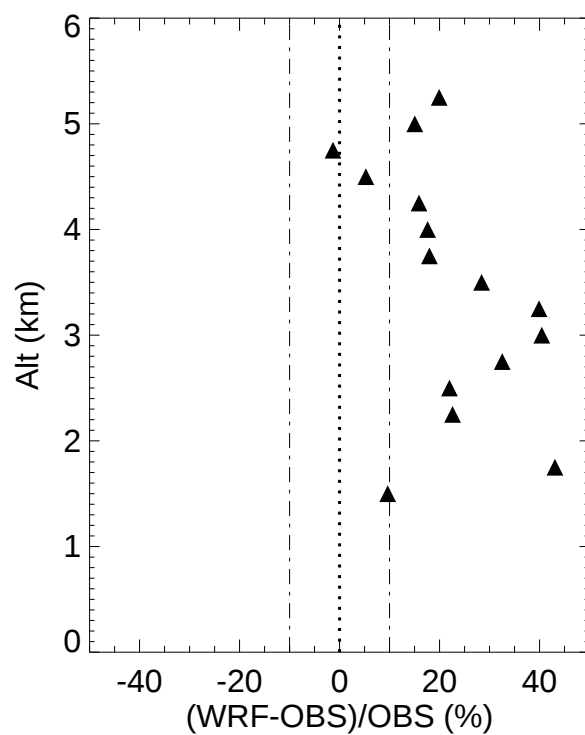
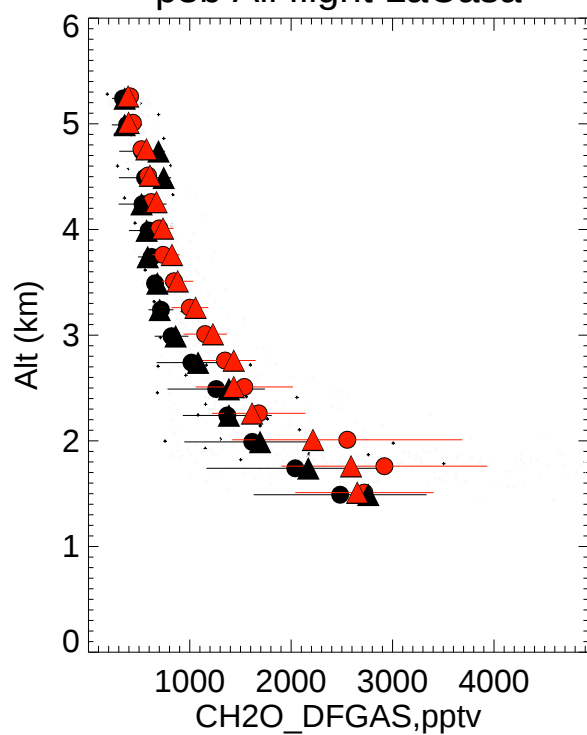


p3b All flight NREL_Golden

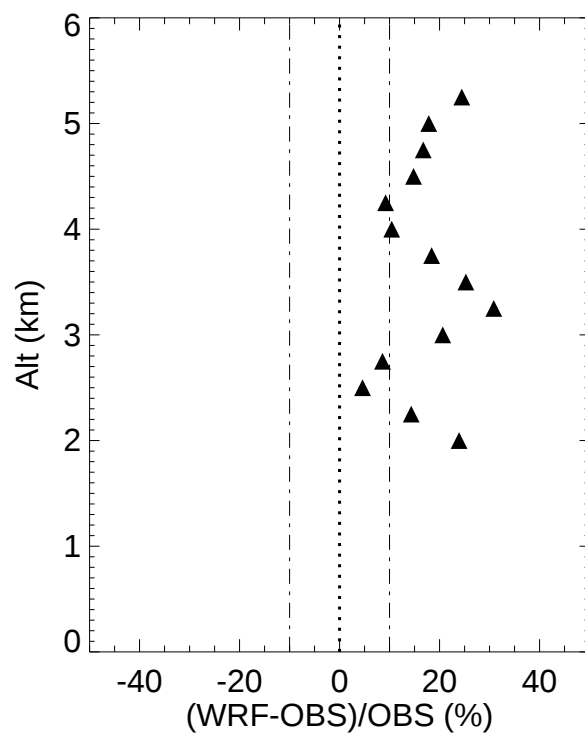
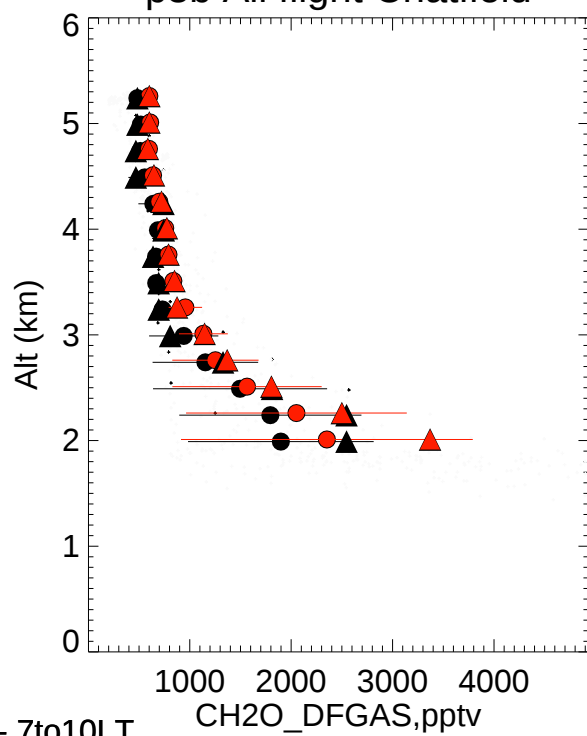


BTX- 7to10LT

p3b All flight LaCasa

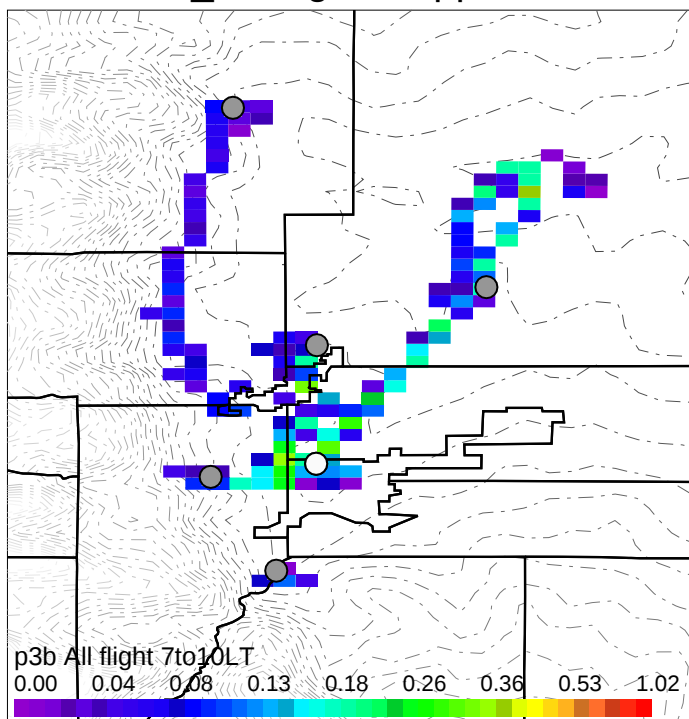


p3b All flight Chatfield

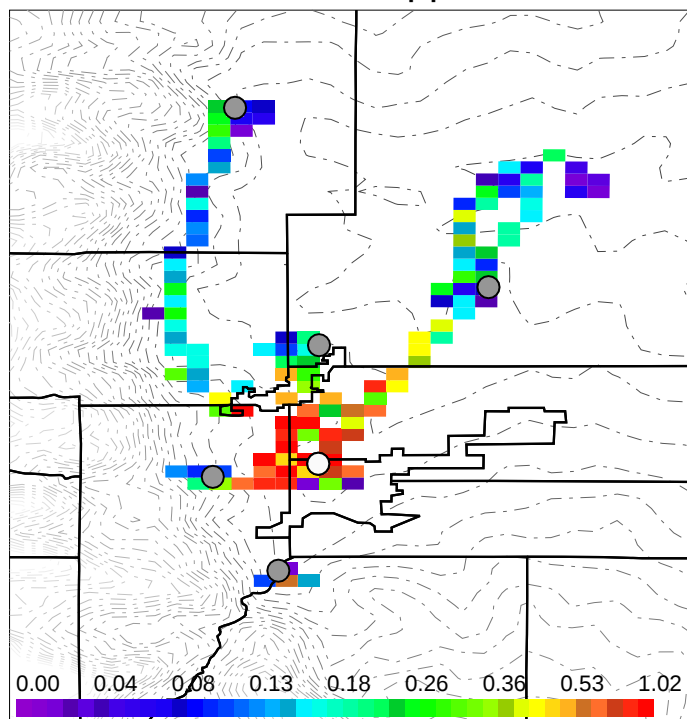


BTX- 7to10LT

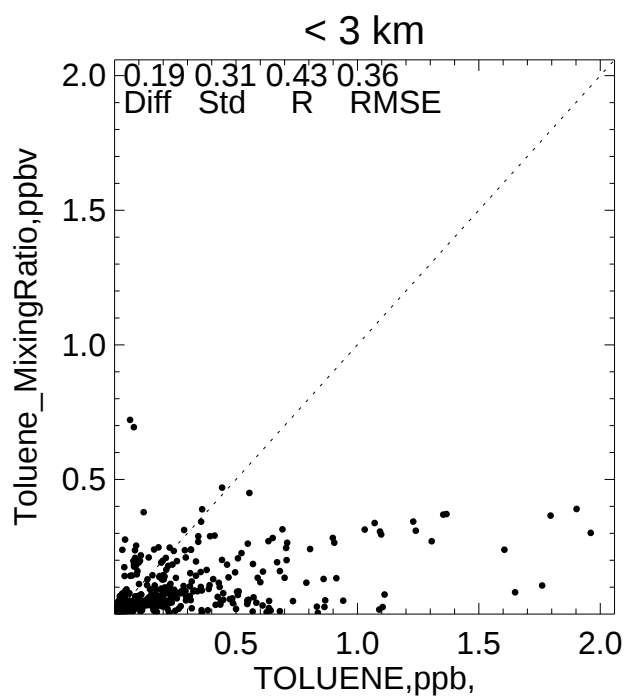
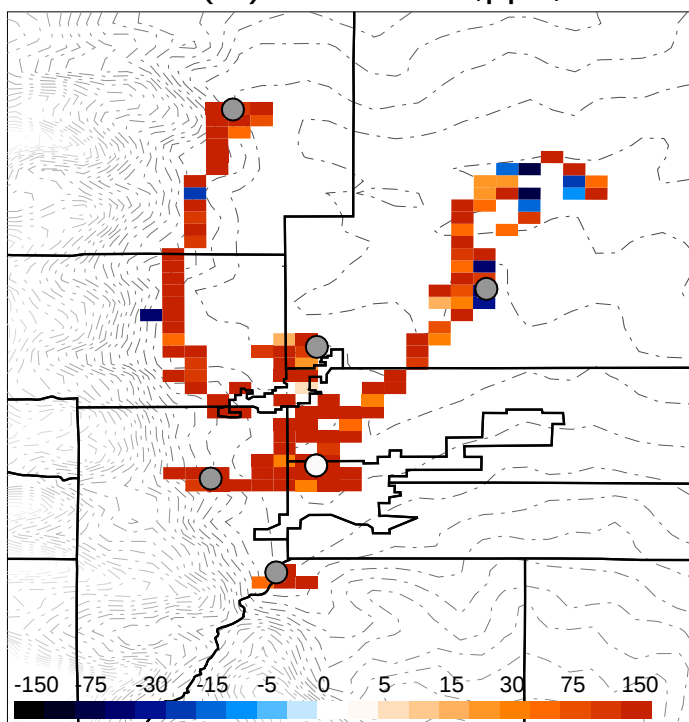
Toluene_MixingRatio,ppbv < 3 km



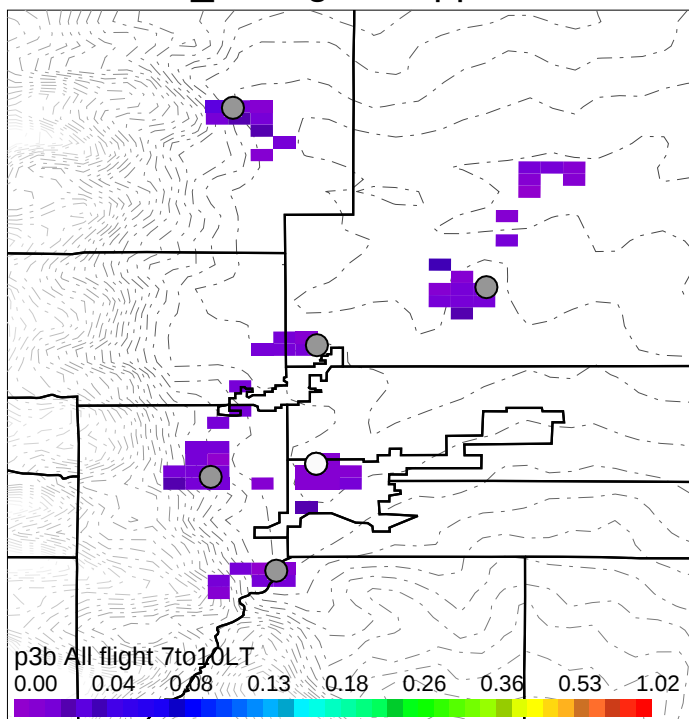
Model TOLUENE,ppb, < 3 km



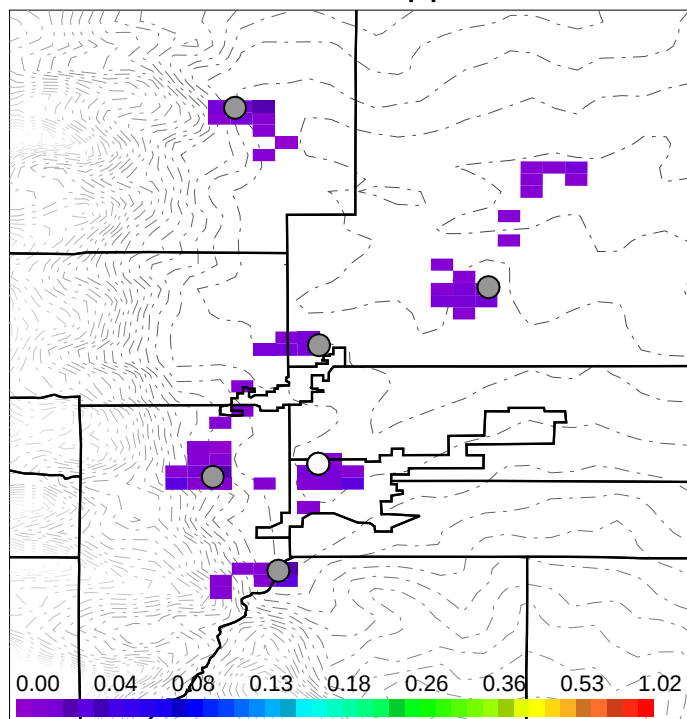
Model-Obs(%) TOLUENE,ppb, < 3 km



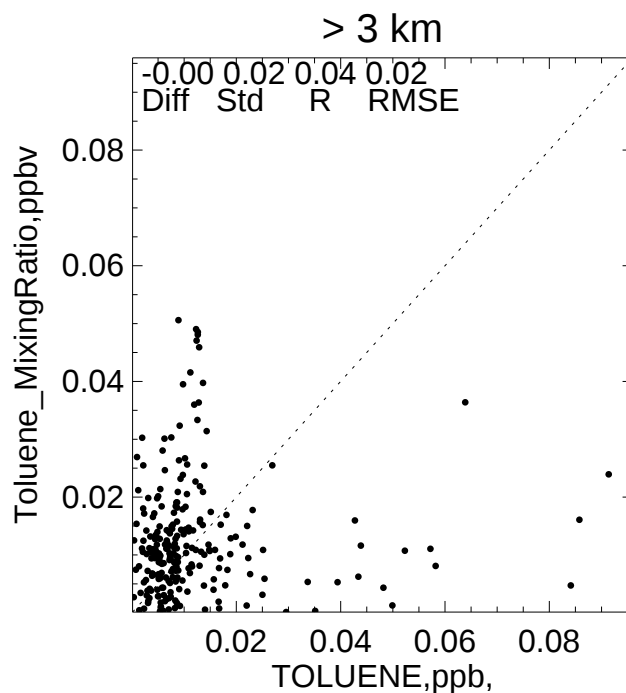
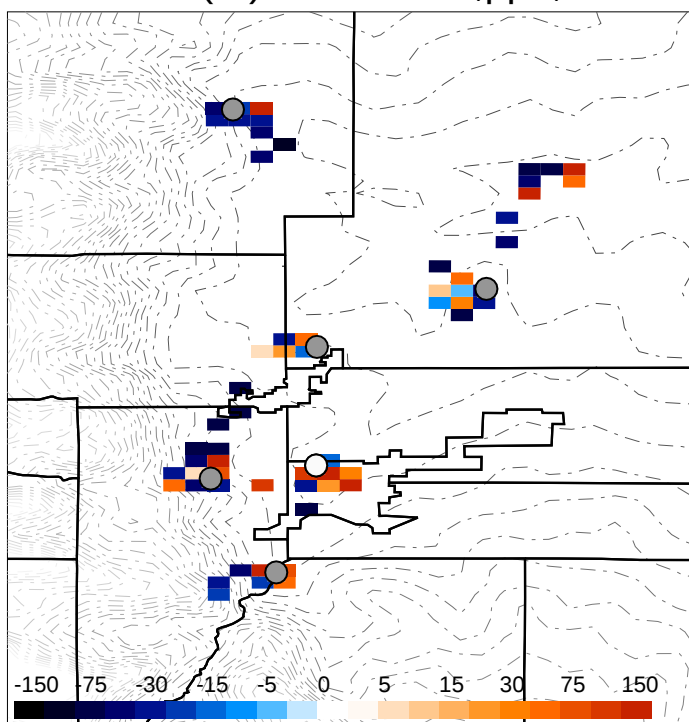
Toluene_MixingRatio,ppbv > 3 km



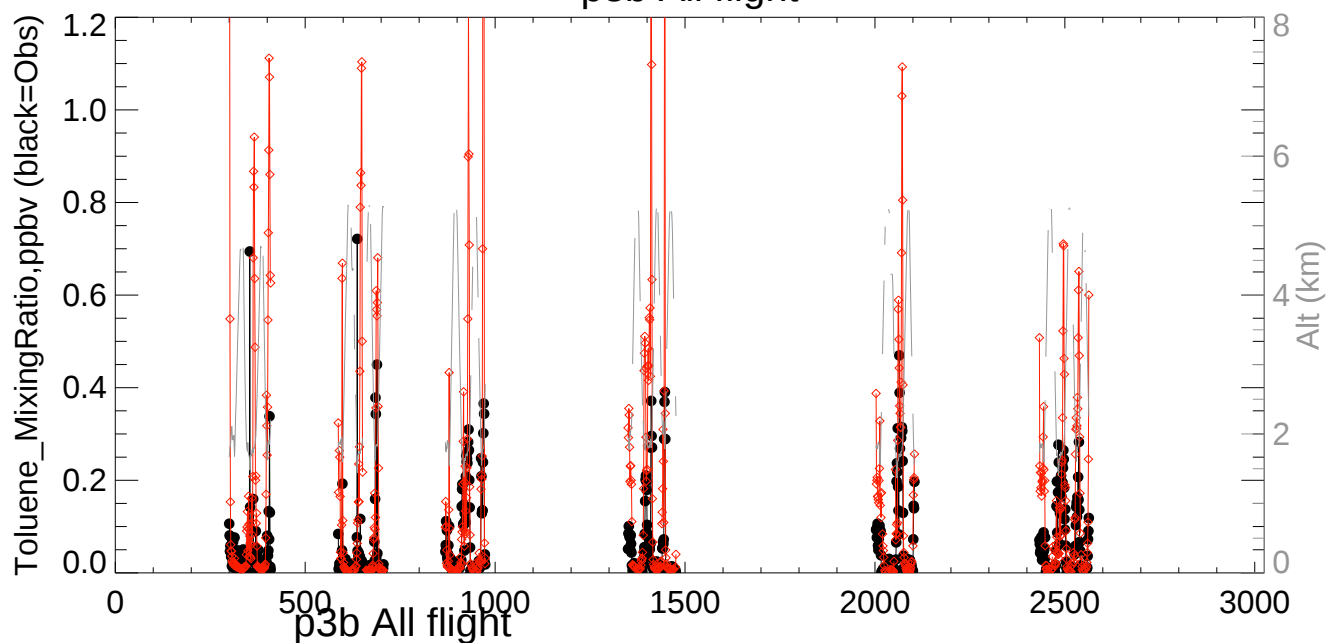
Model TOLUENE,ppb, > 3 km



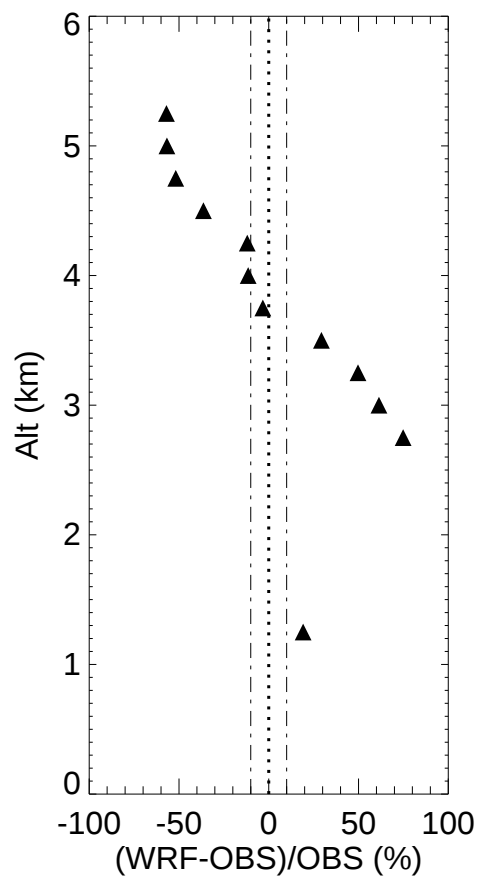
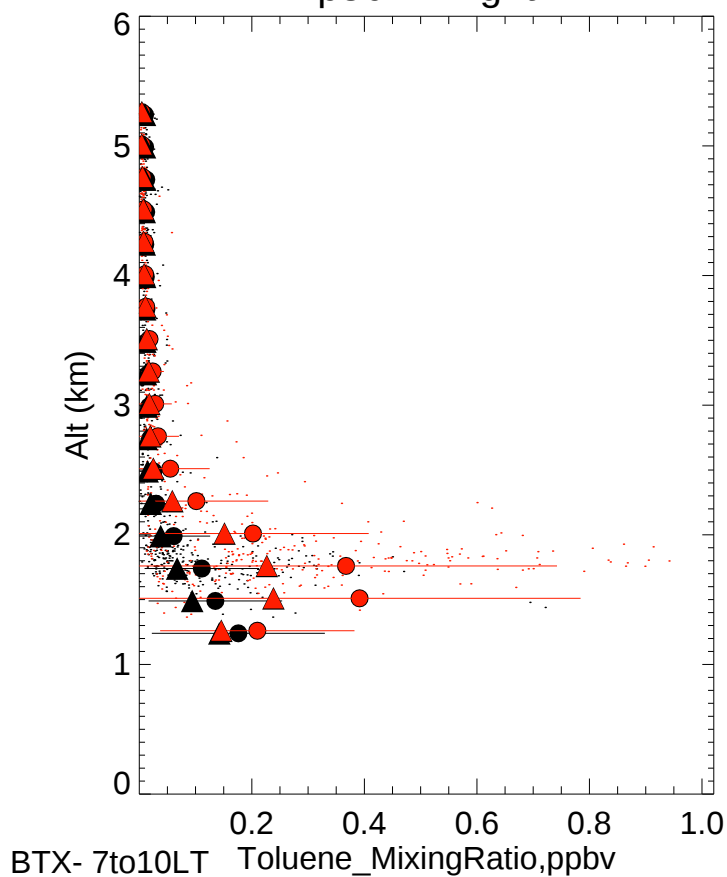
Model-Obs(%) TOLUENE,ppb, > 3 km



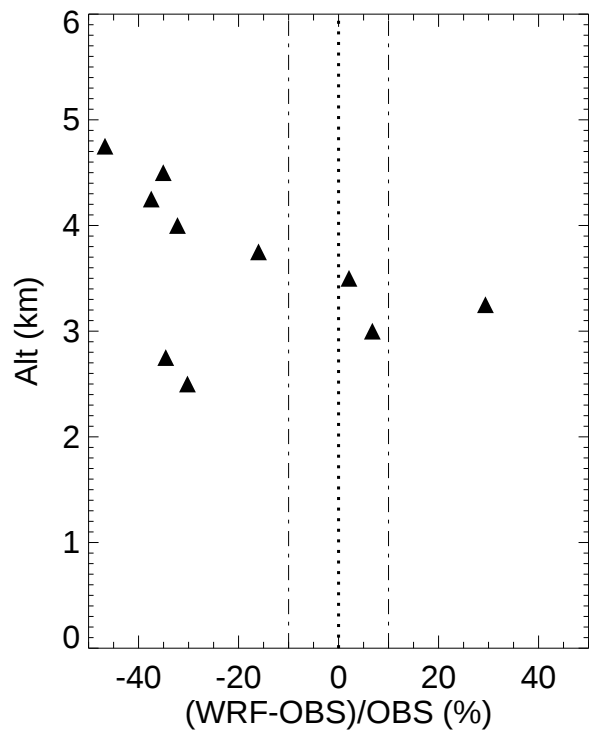
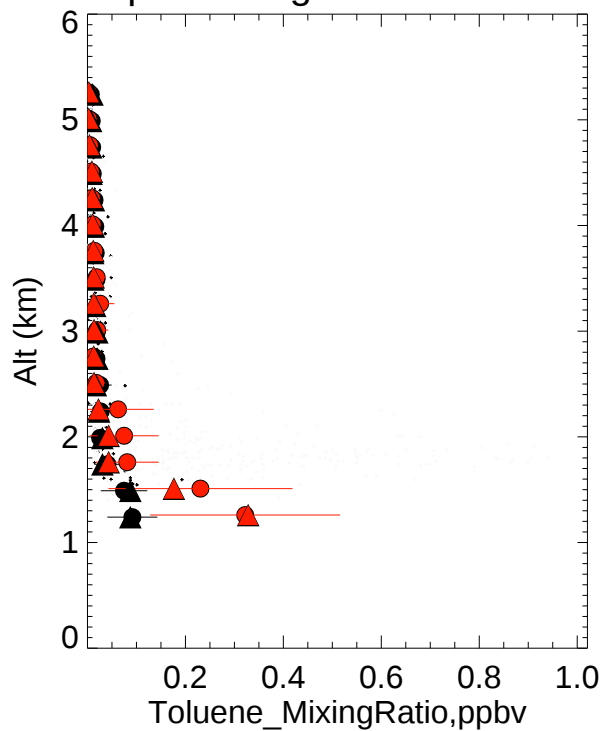
p3b All flight



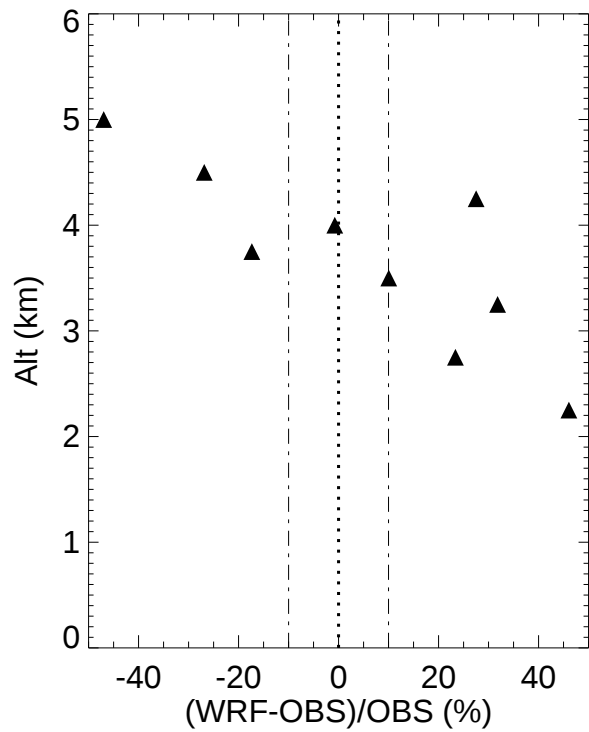
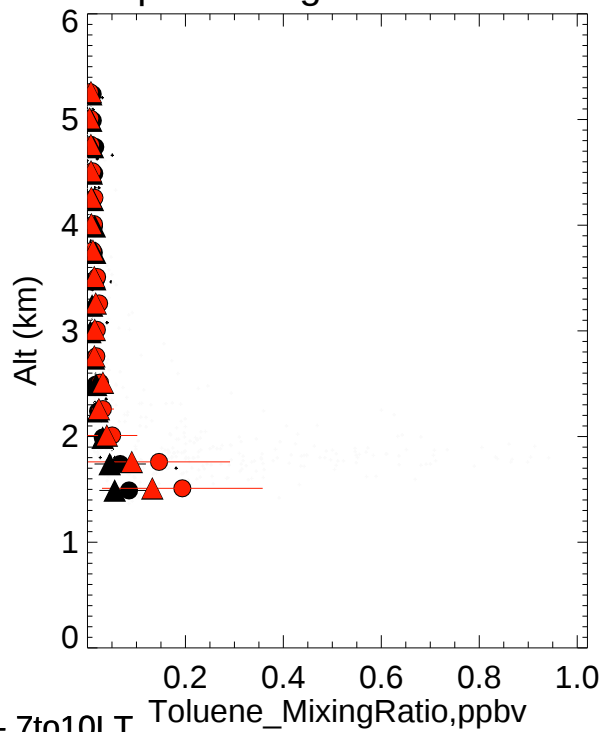
p3b All flight



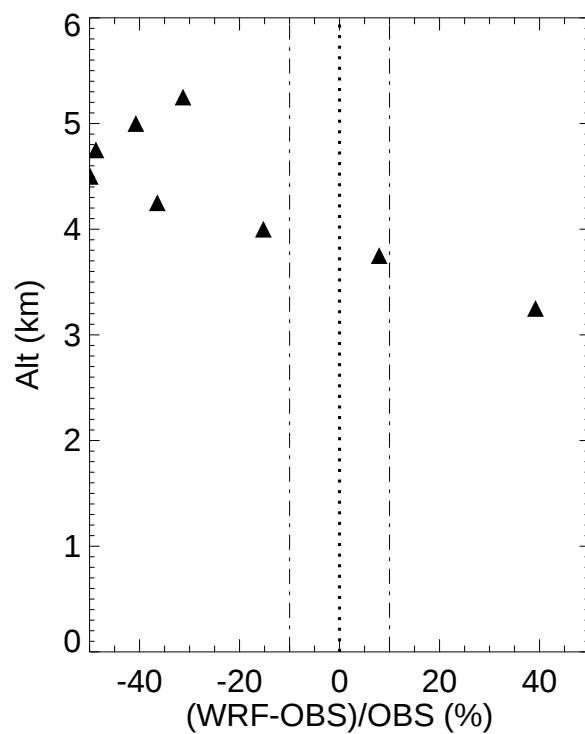
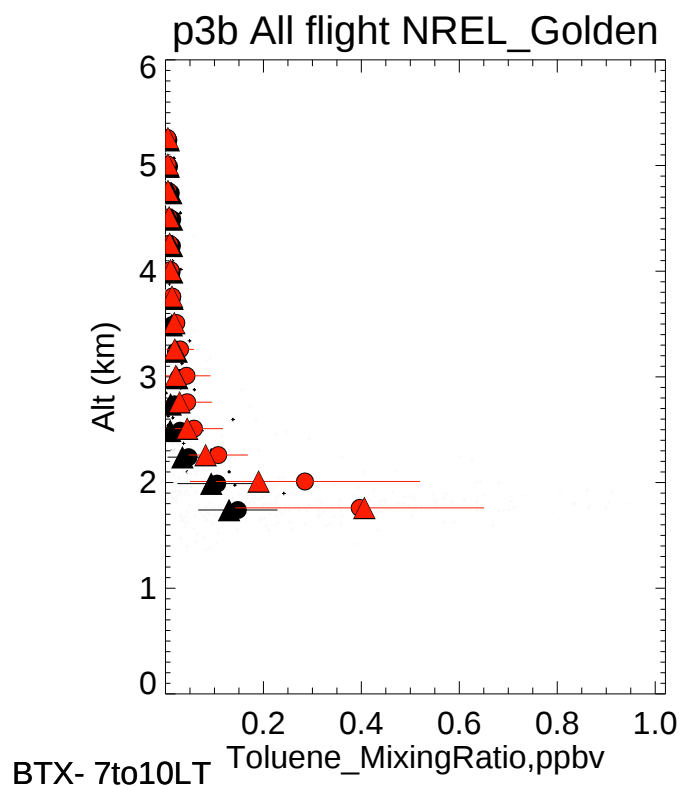
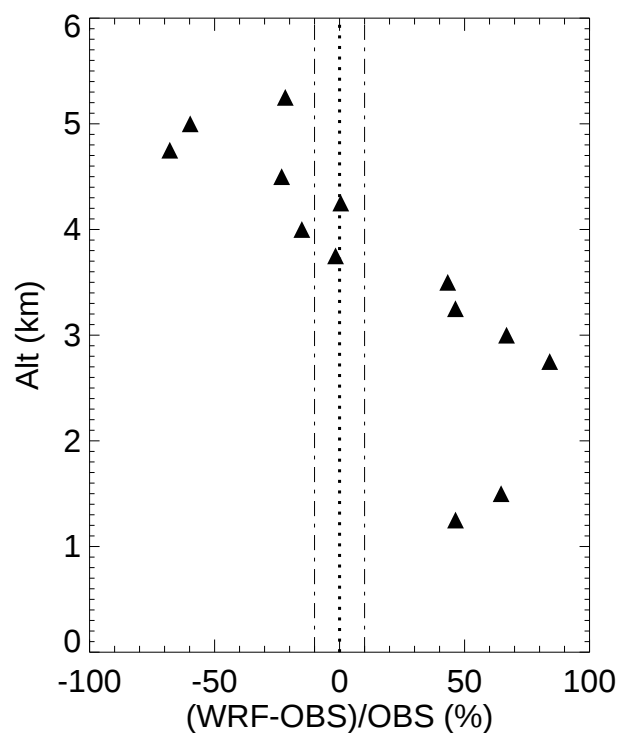
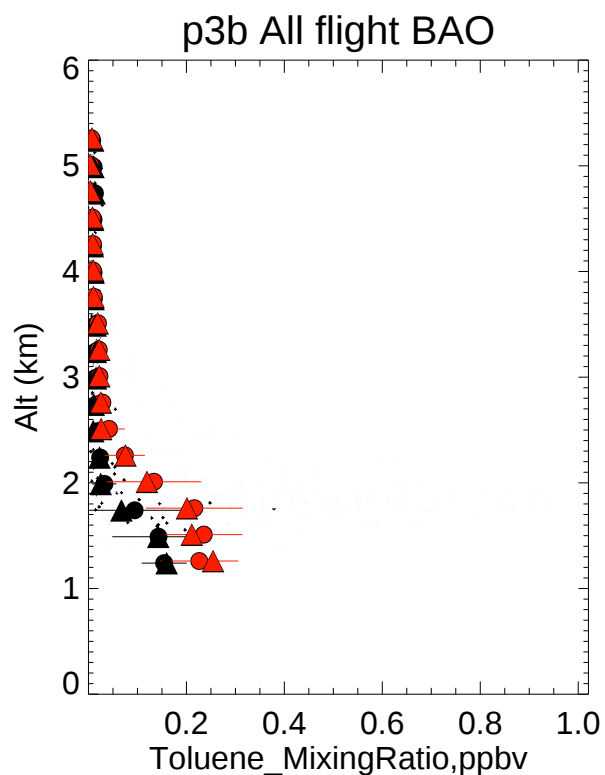
p3b All flight FortCollins



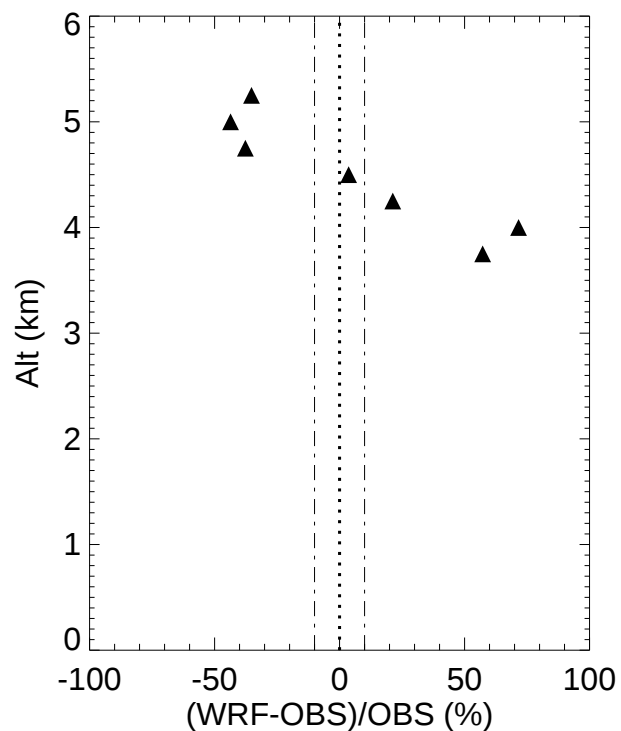
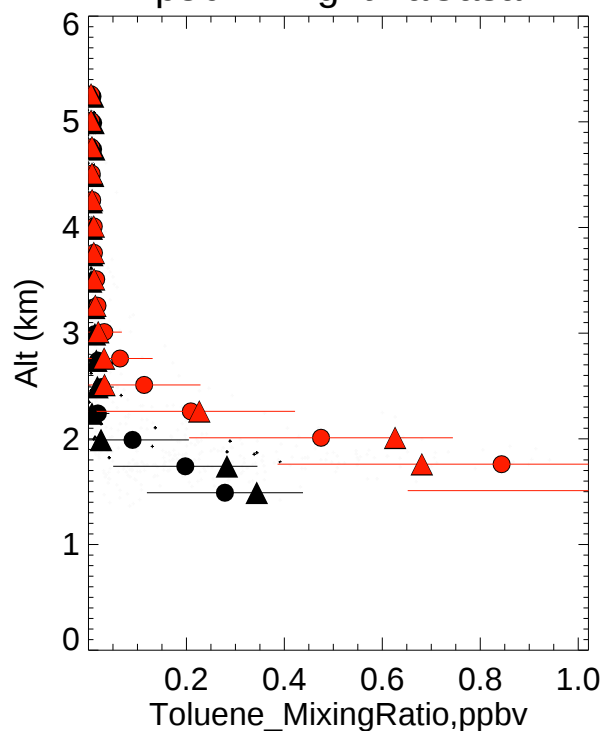
p3b All flight Platteville



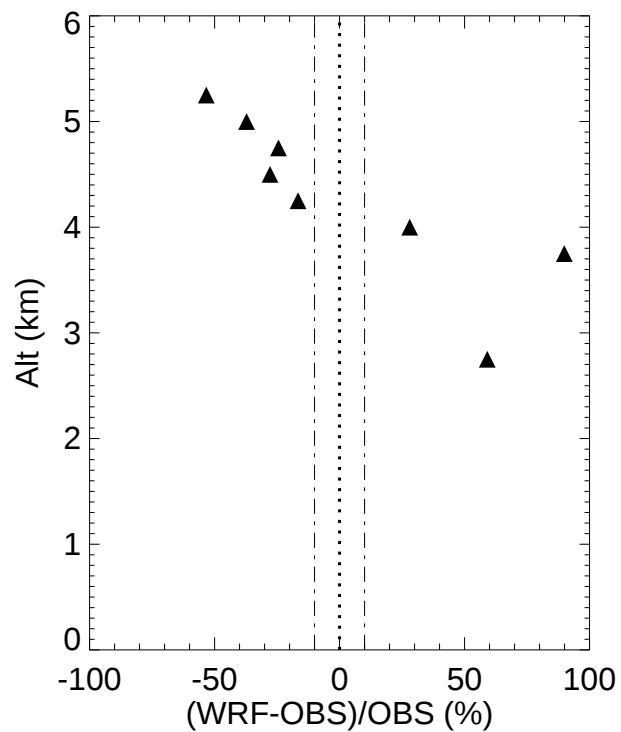
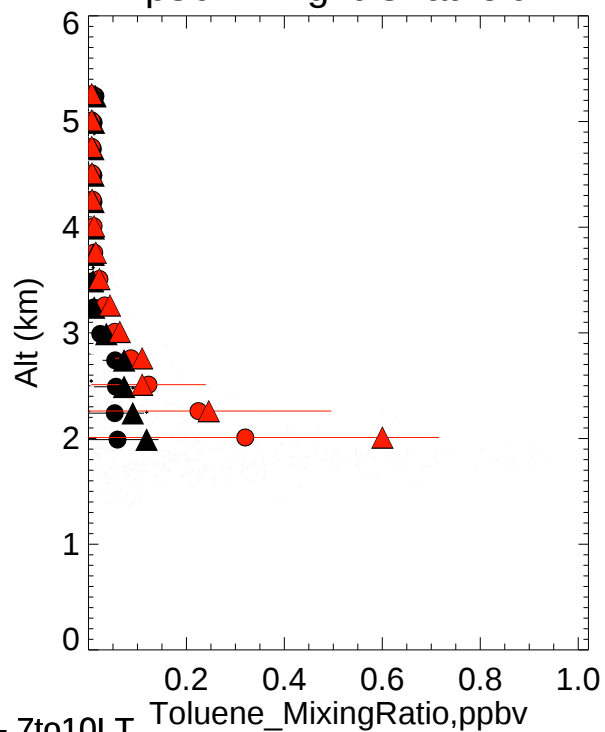
BTX- 7to10LT



p3b All flight LaCasa

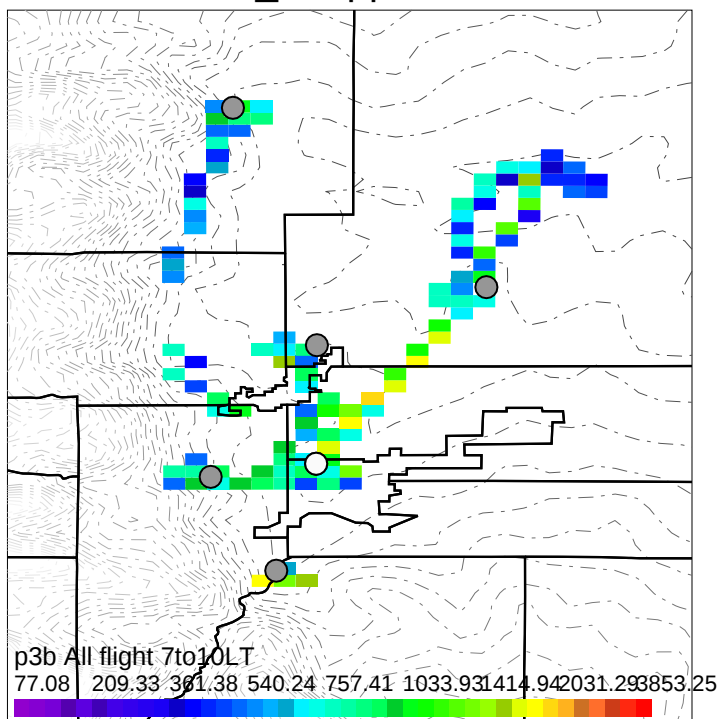


p3b All flight Chatfield

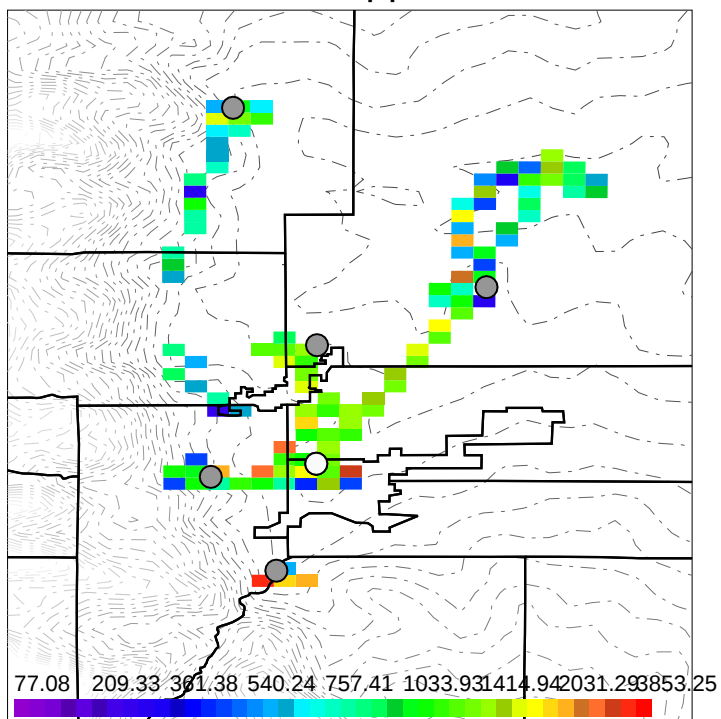


BTX- 7to10LT

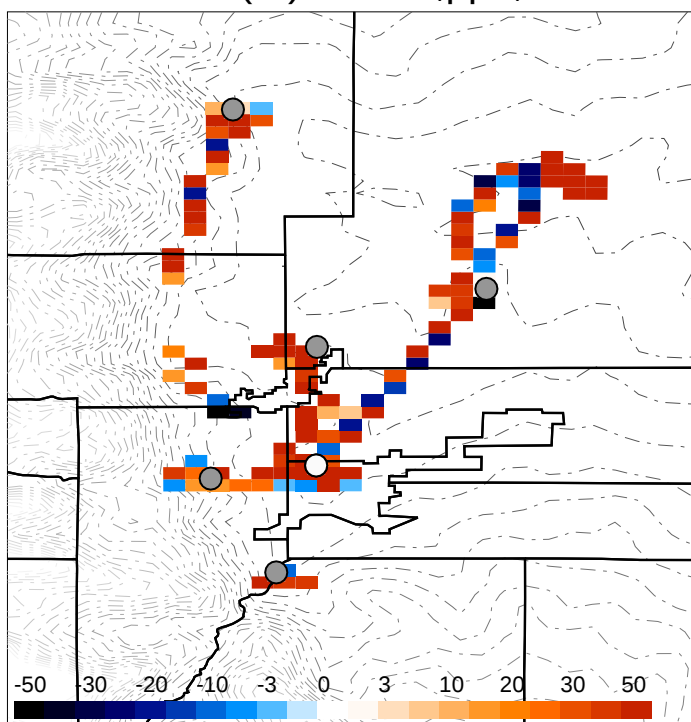
HNO₃_LIF,pptv < 3 km



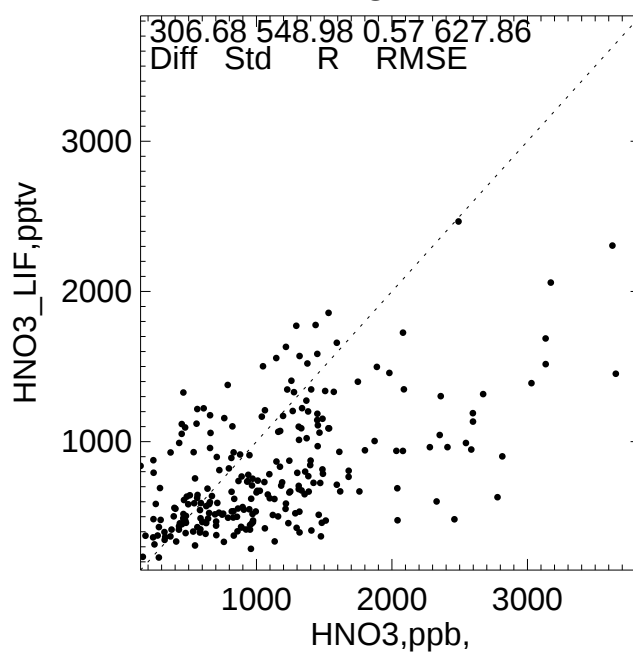
Model HNO₃,ppb, < 3 km



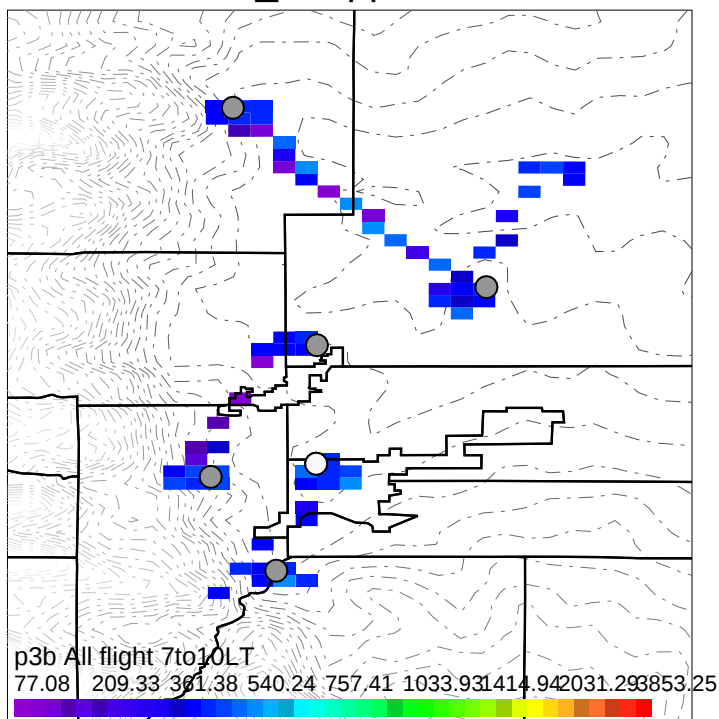
Model-Obs(%) HNO₃,ppb, < 3 km



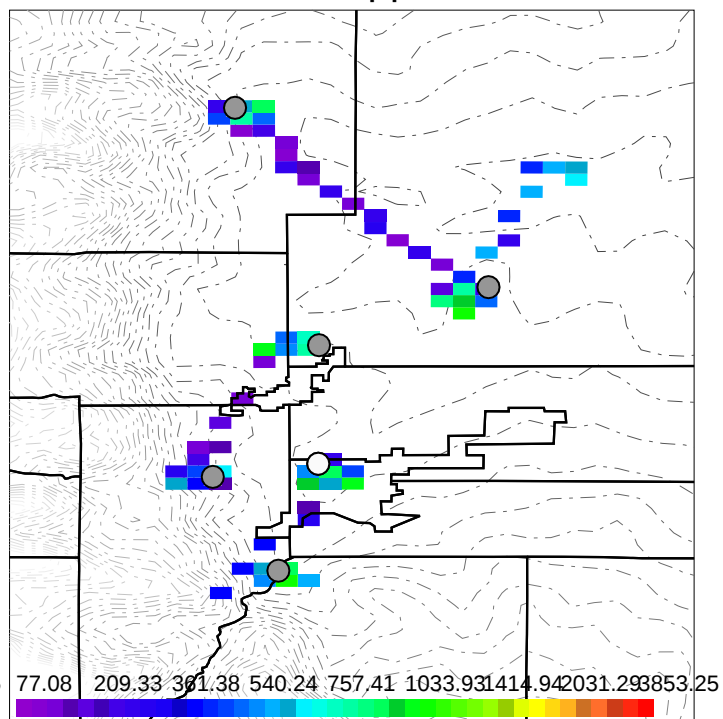
< 3 km



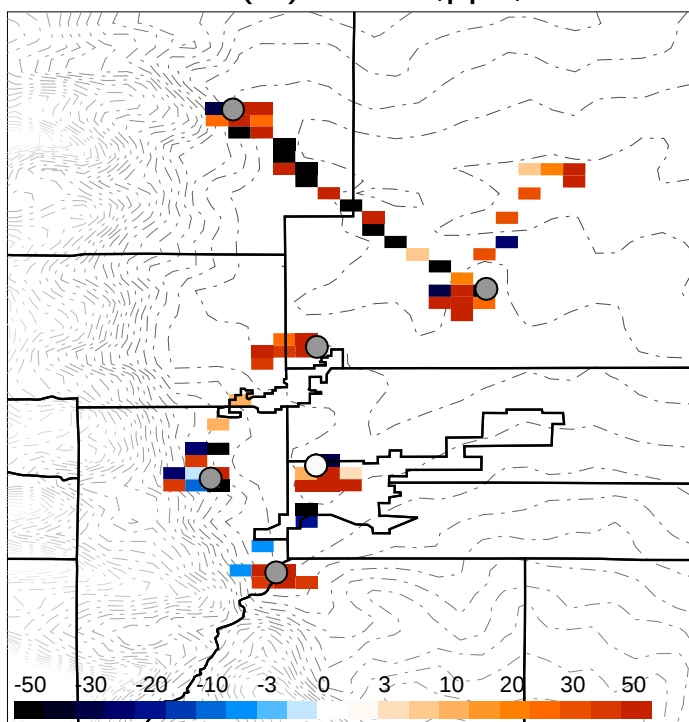
HNO₃_LIF,pptv > 3 km



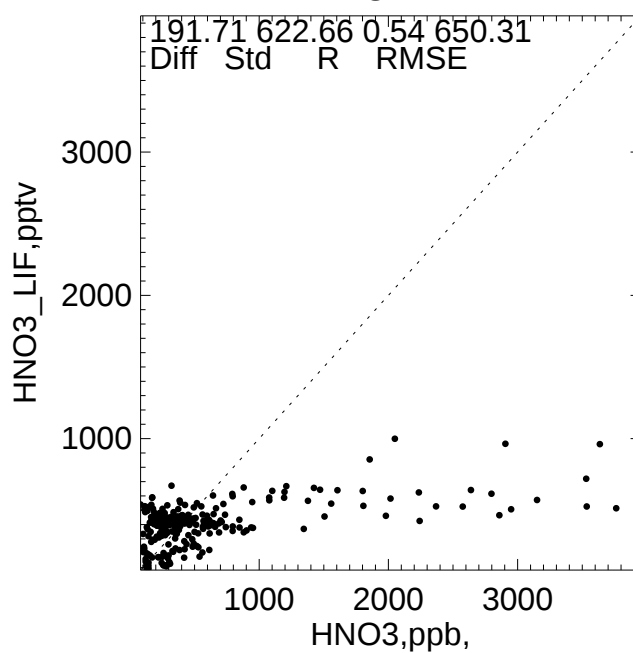
Model HNO₃,ppb, > 3 km



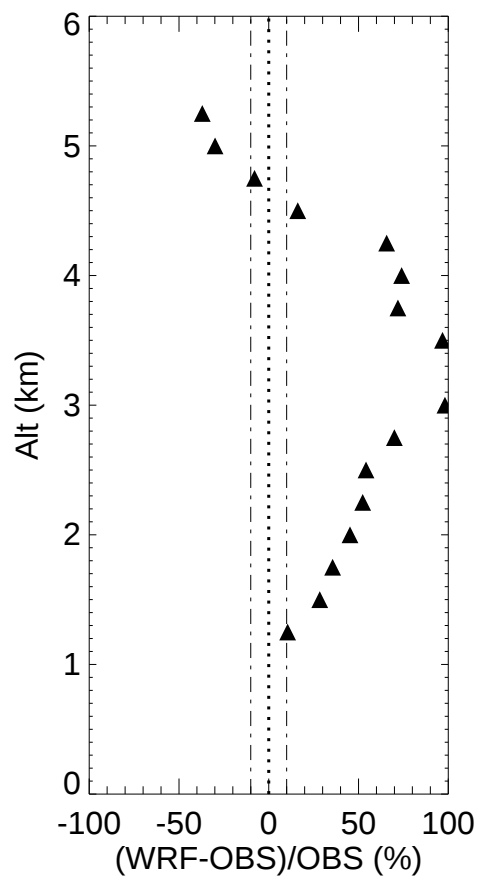
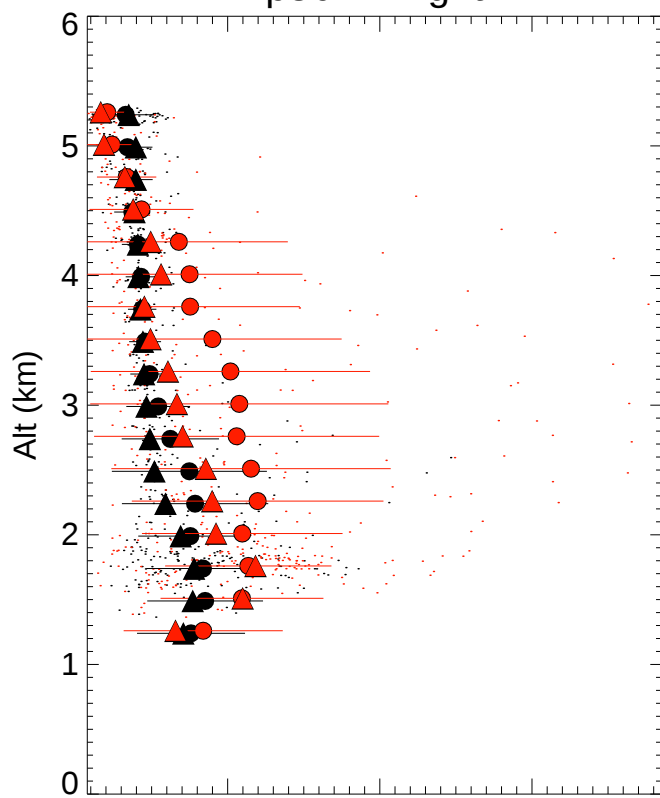
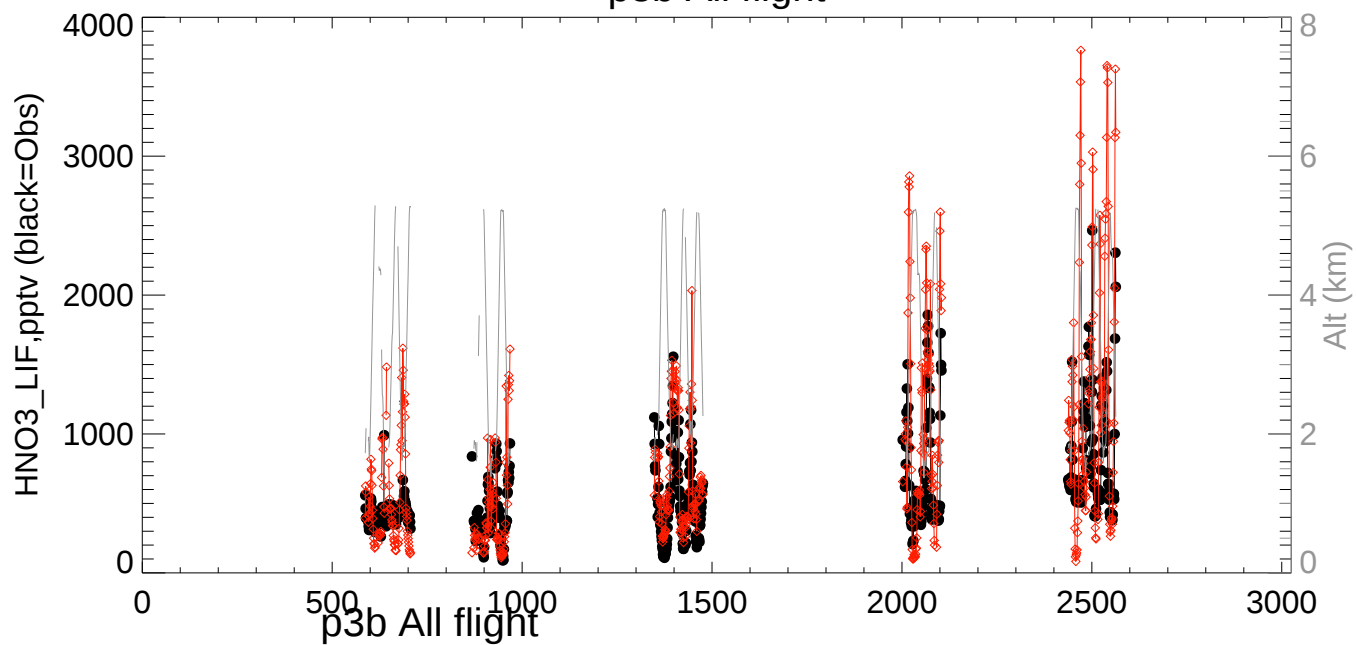
Model-Obs(%) HNO₃,ppb, > 3 km



> 3 km



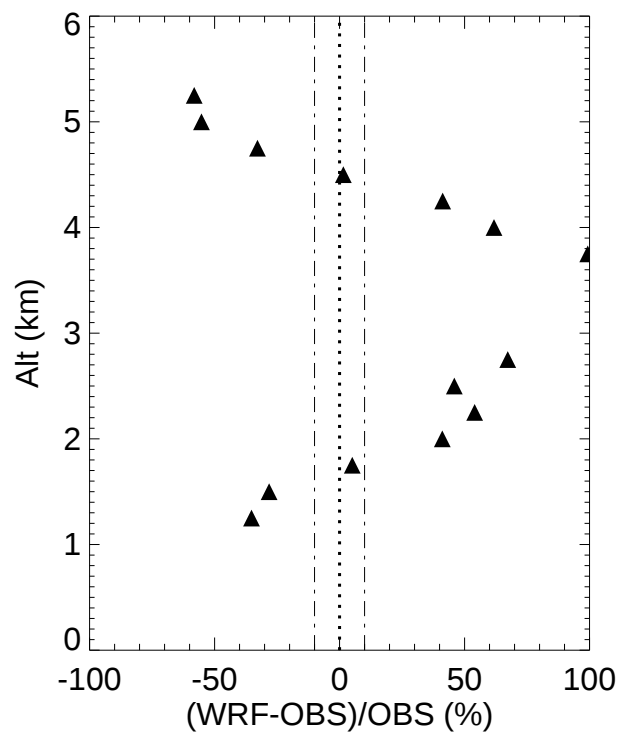
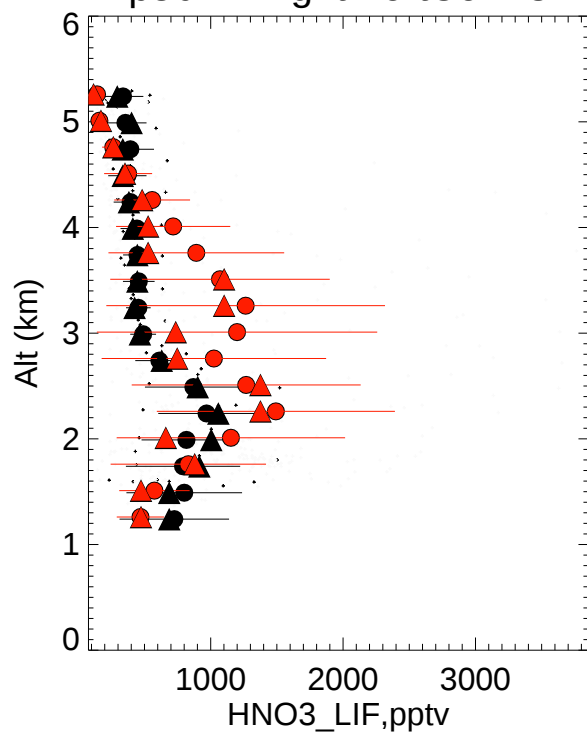
p3b All flight



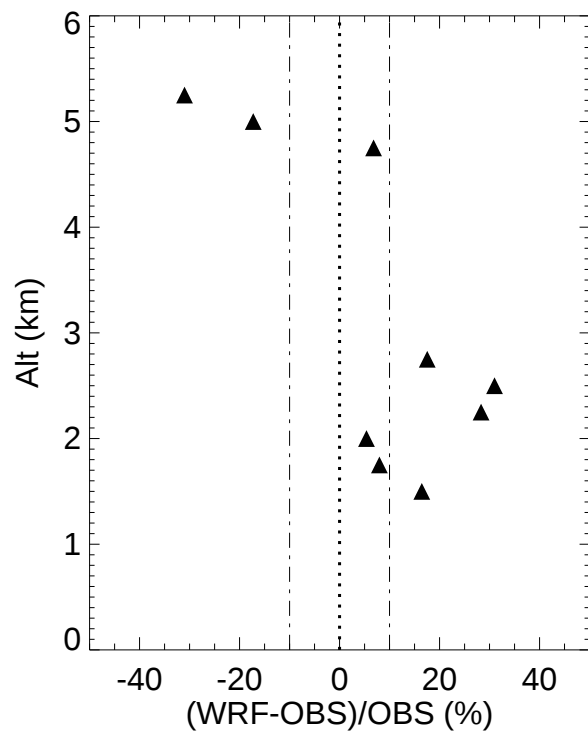
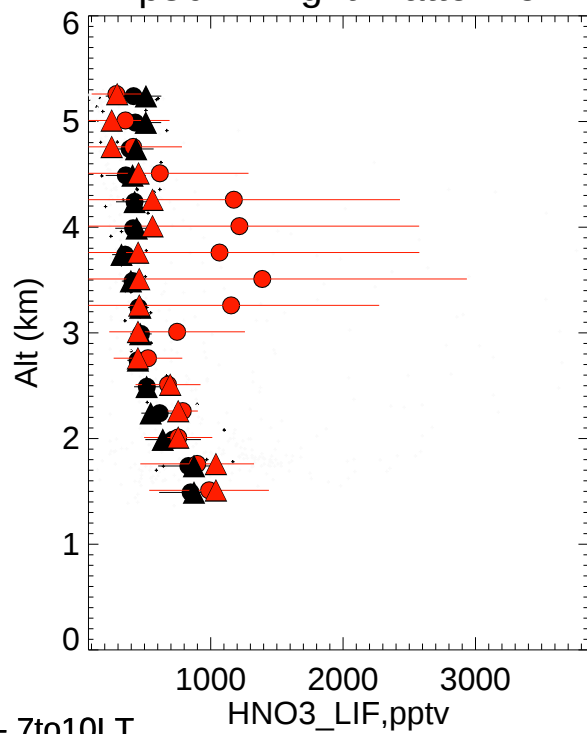
BTX- 7to10LT

$\text{HNO}_3_LIF, \text{pptv}$

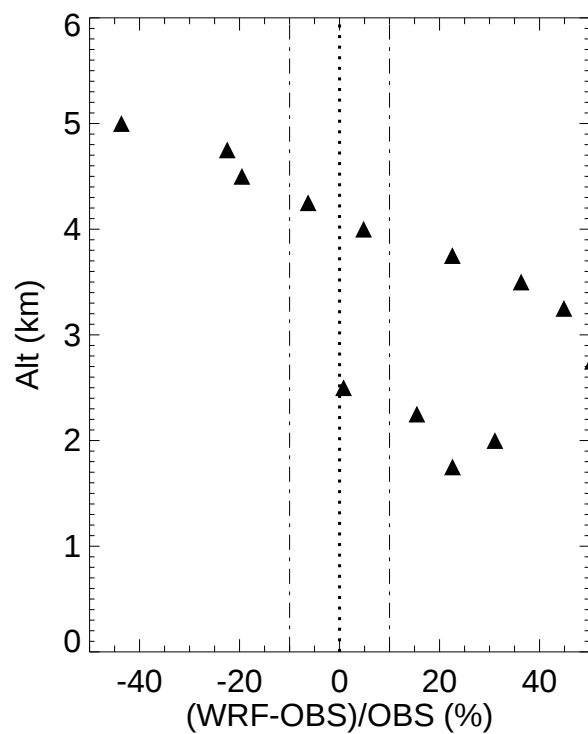
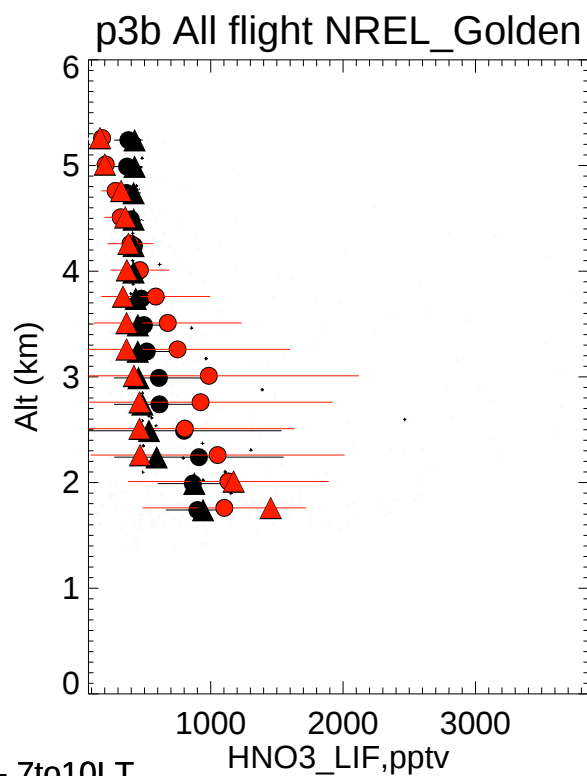
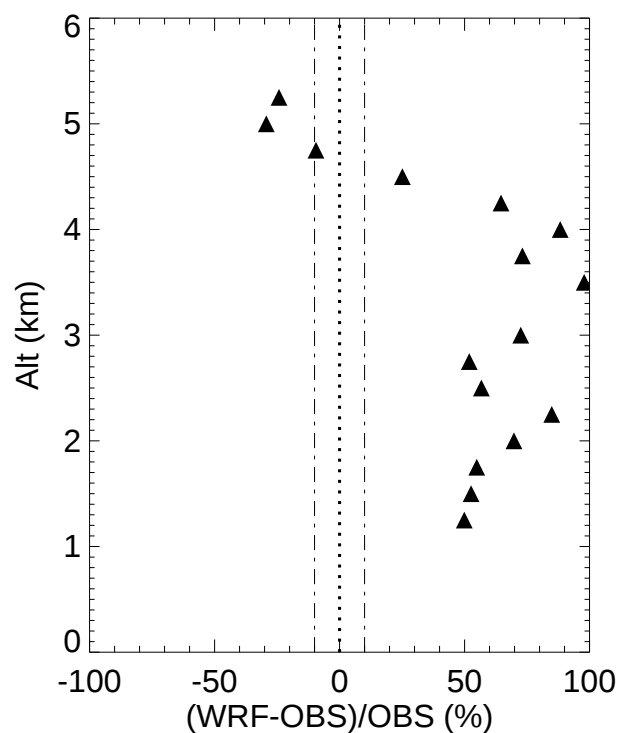
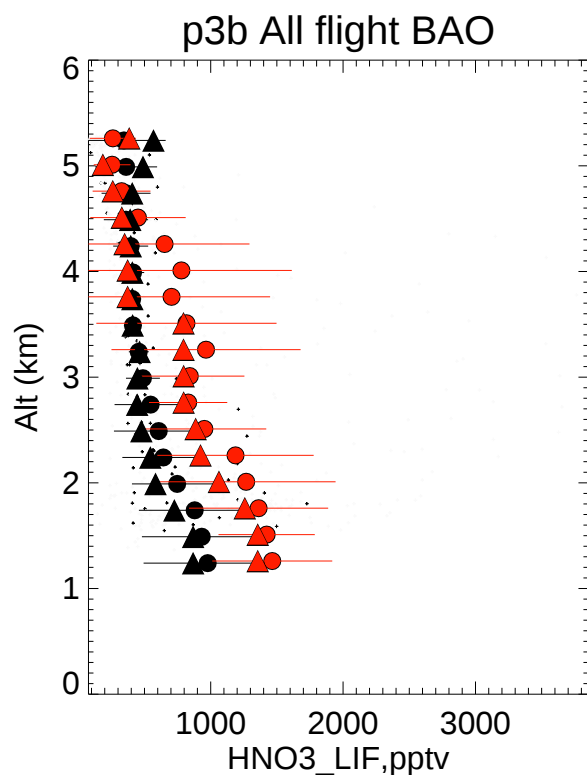
p3b All flight FortCollins



p3b All flight Platteville

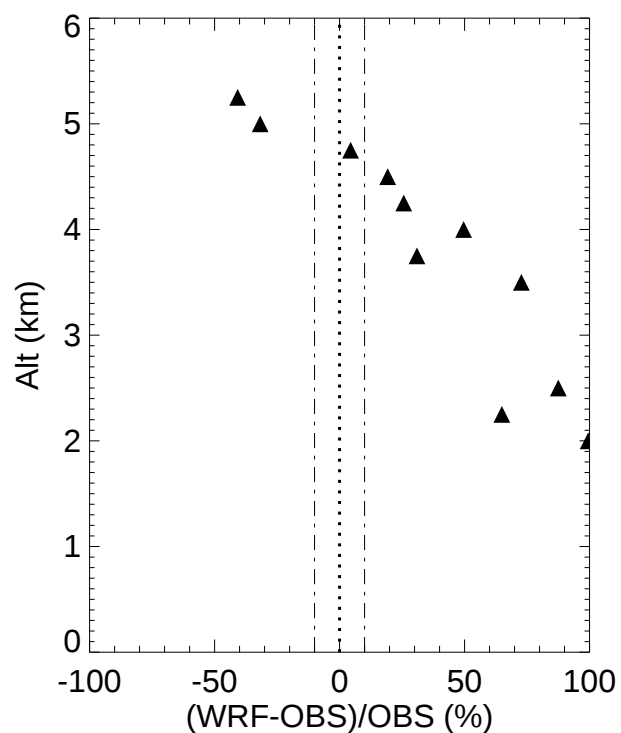
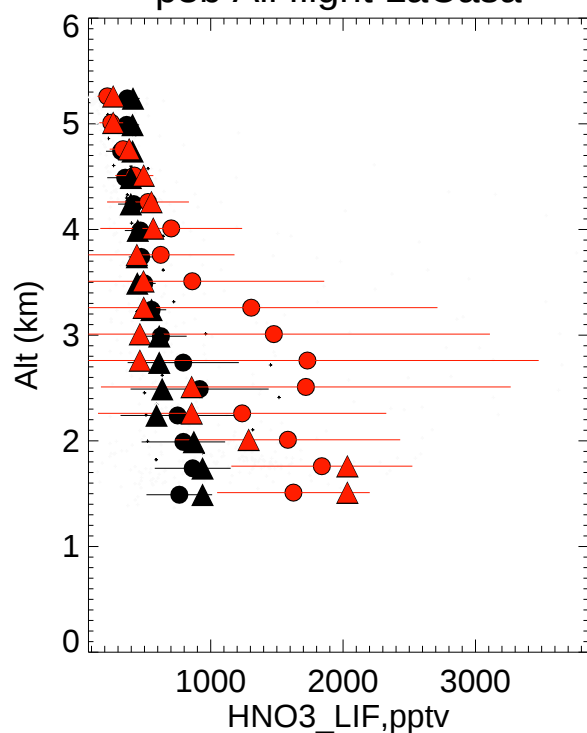


BTX- 7to10LT

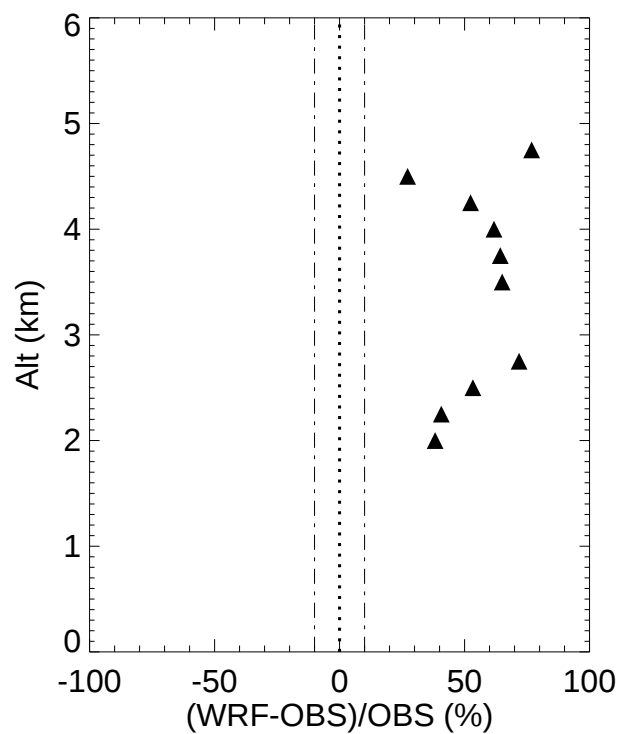
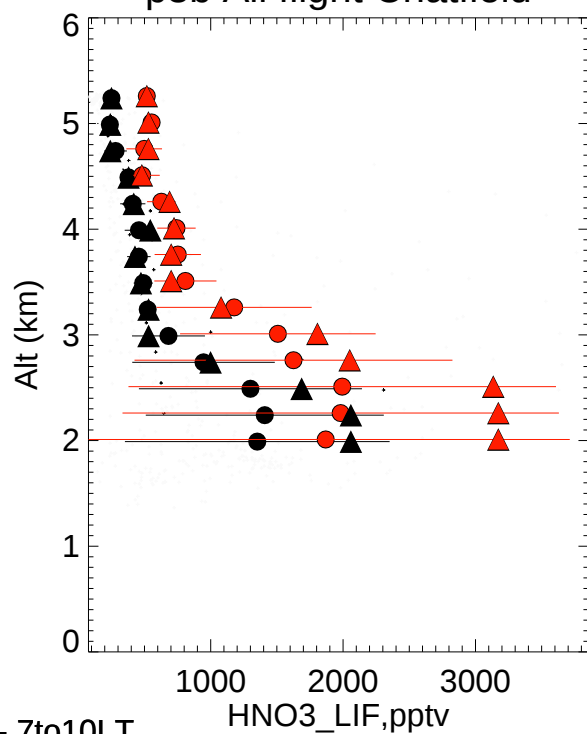


BTX- 7to10LT

p3b All flight LaCasa

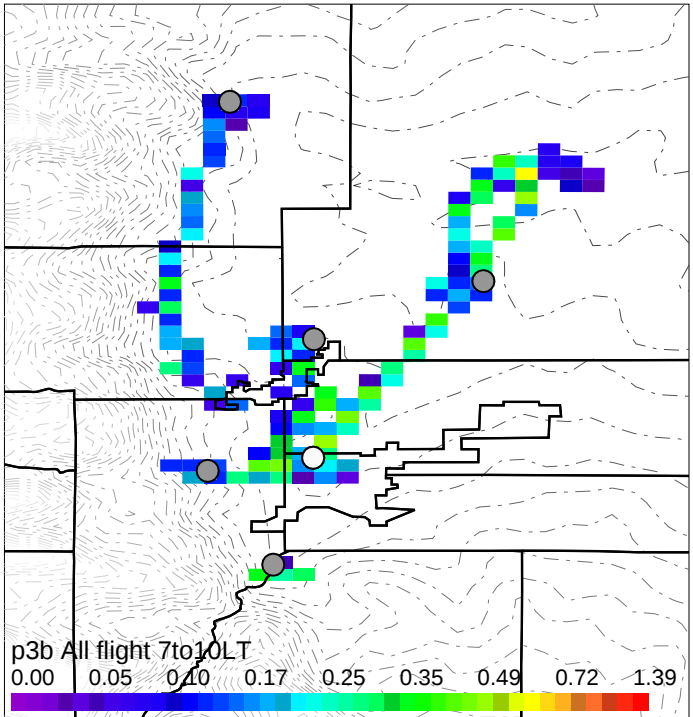


p3b All flight Chatfield

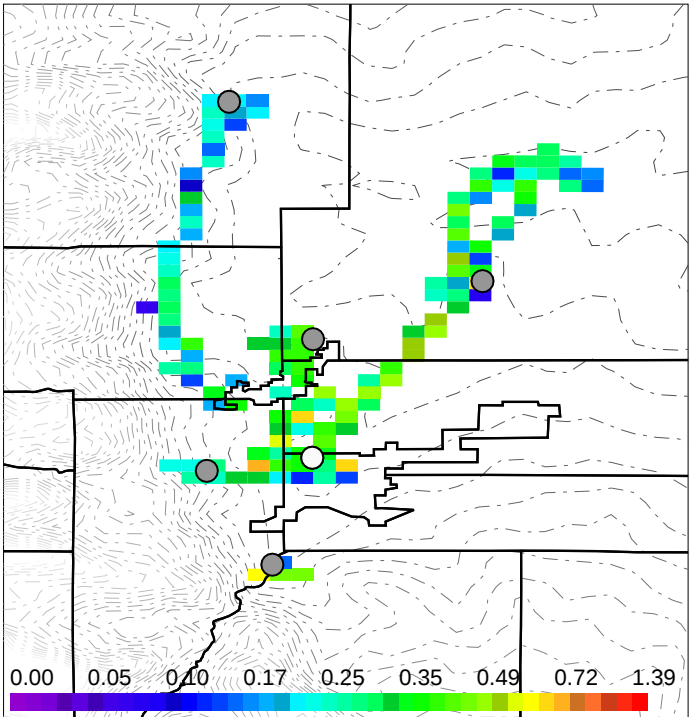


BTX- 7to10LT

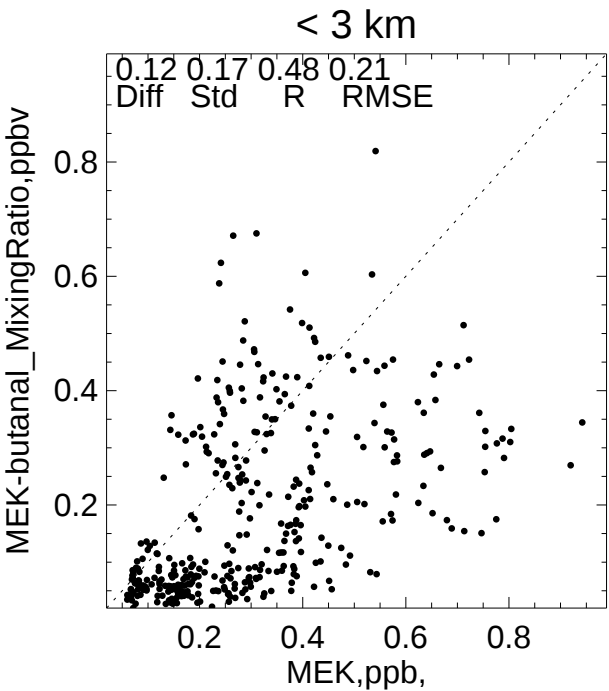
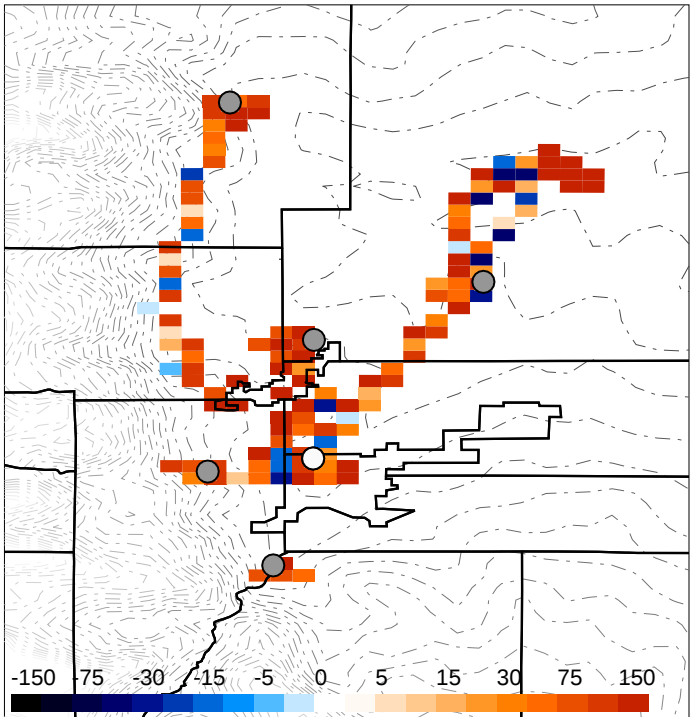
MEK-butanal_MixingRatio,ppbv < 3 km



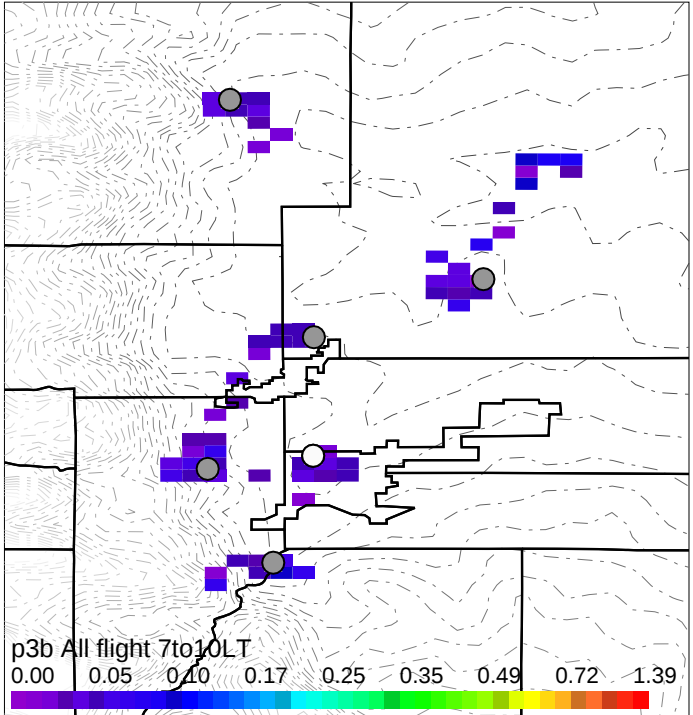
Model MEK,ppb, < 3 km



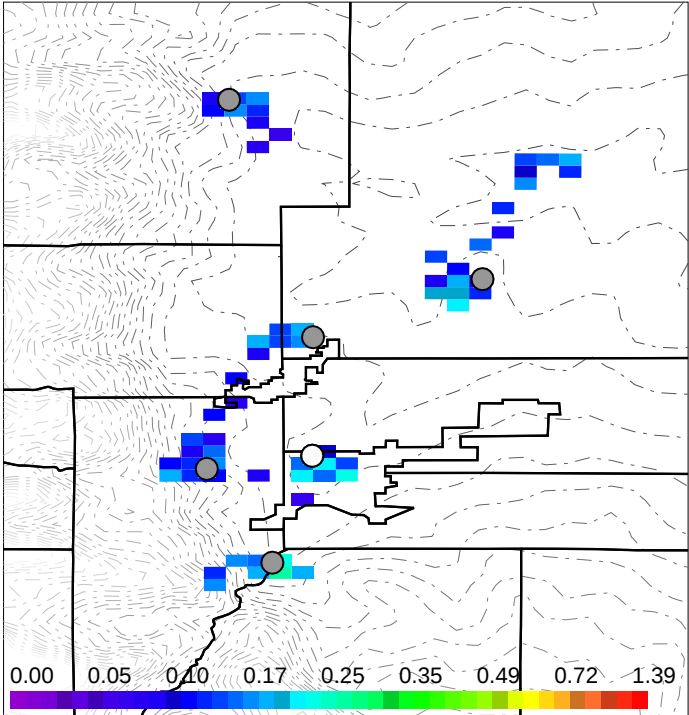
Model-Obs(%) MEK,ppb, < 3 km



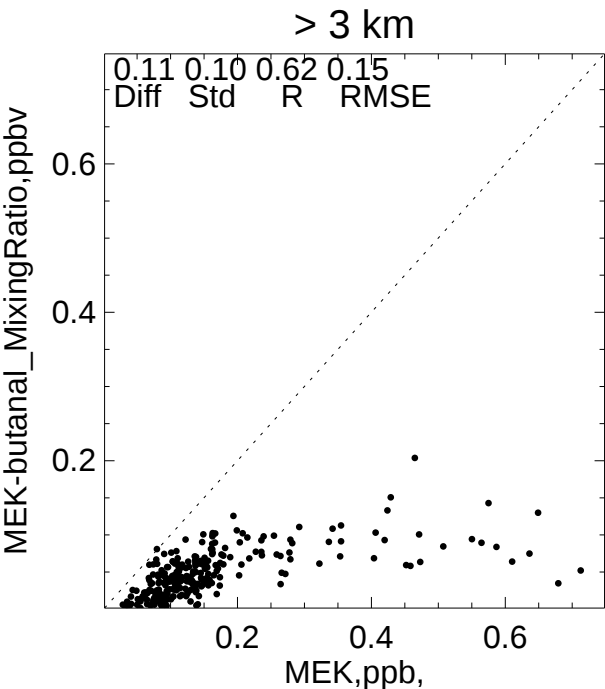
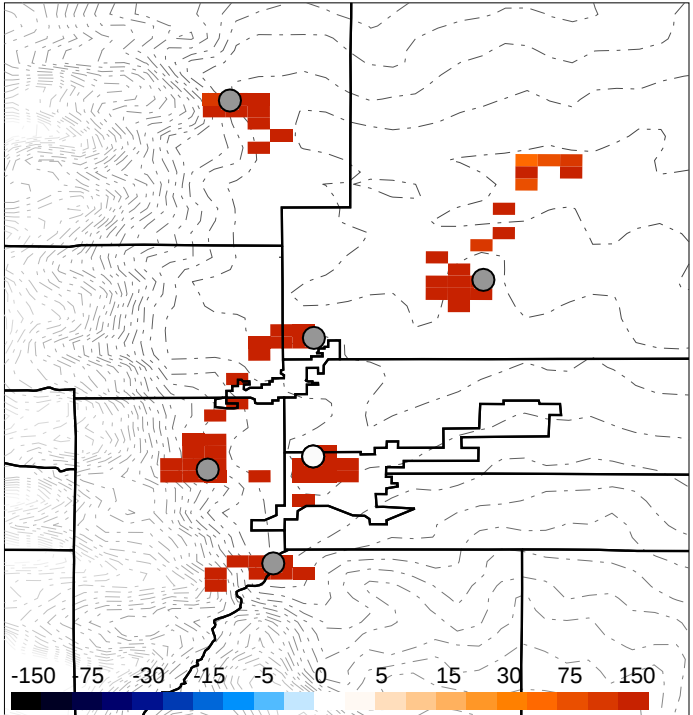
MEK-butanal_MixingRatio,ppbv > 3 km

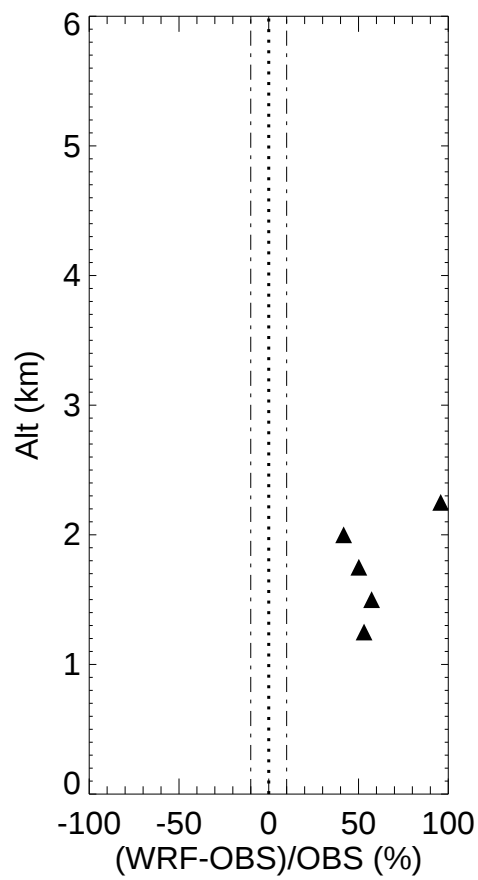
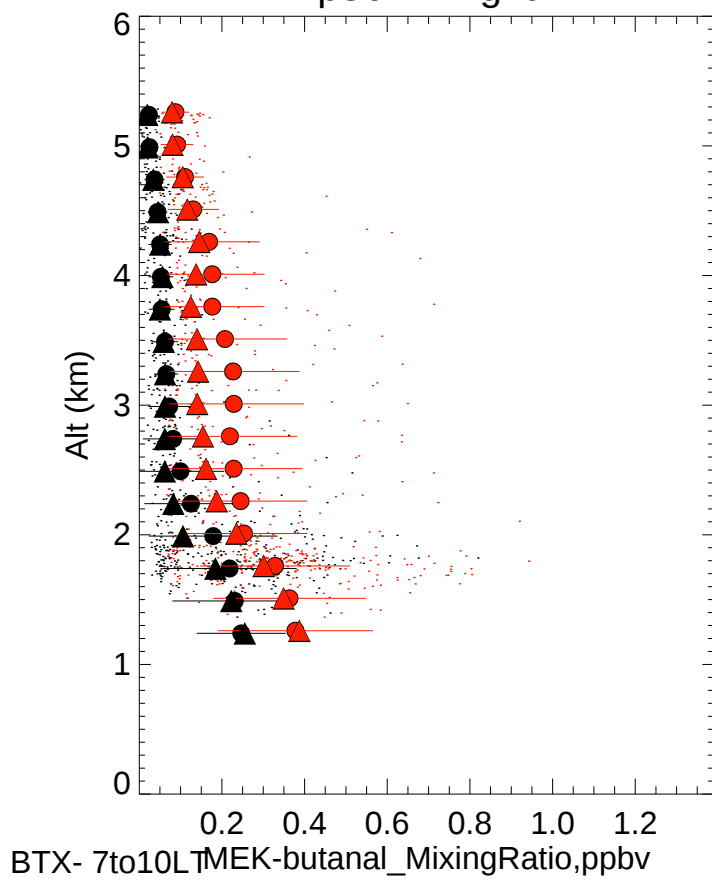
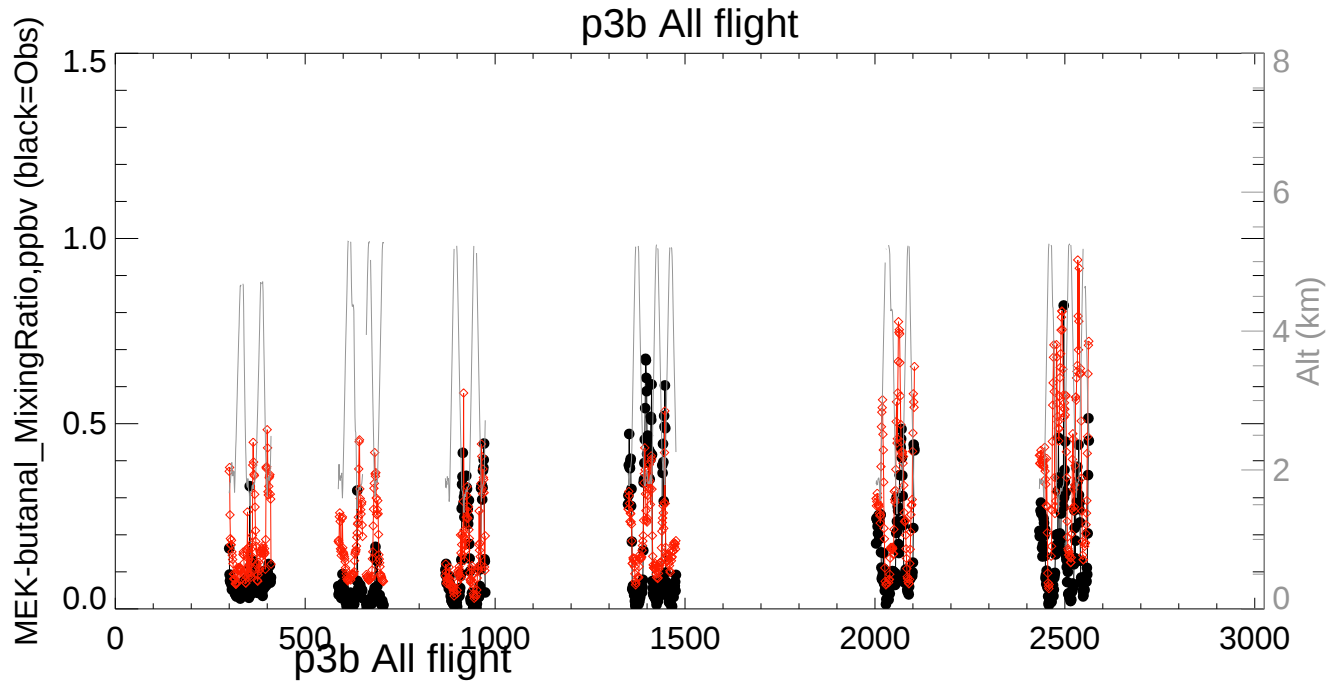


Model MEK,ppb, > 3 km

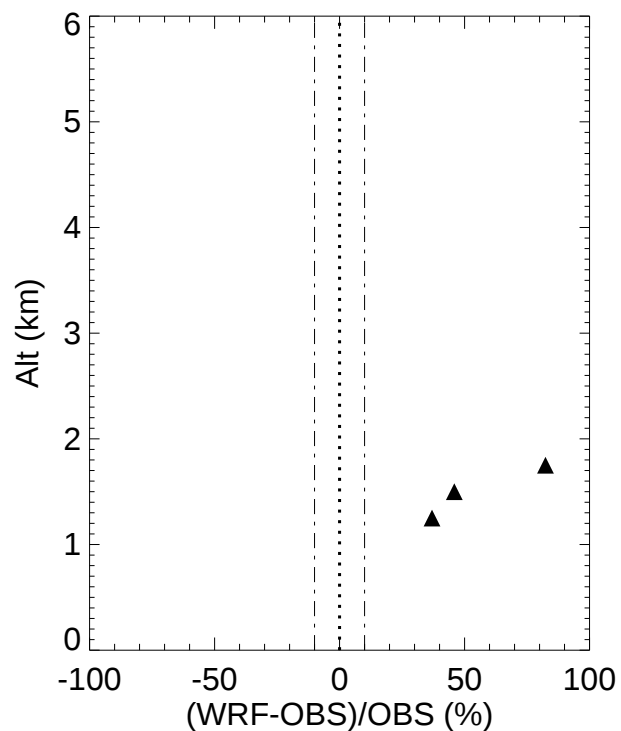
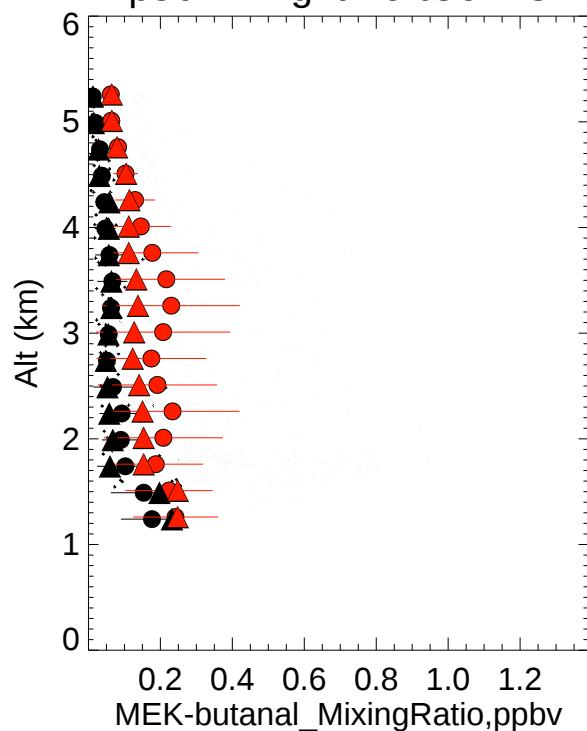


Model-Obs(%) MEK,ppb, > 3 km

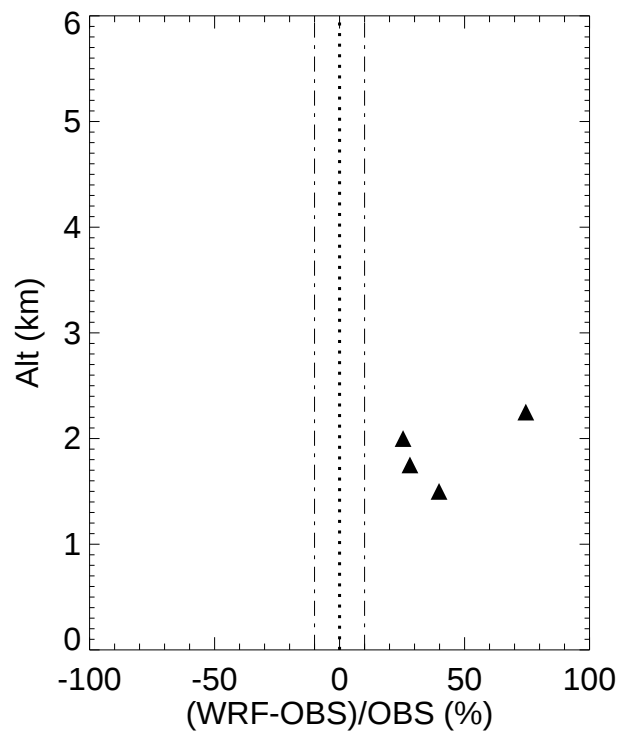
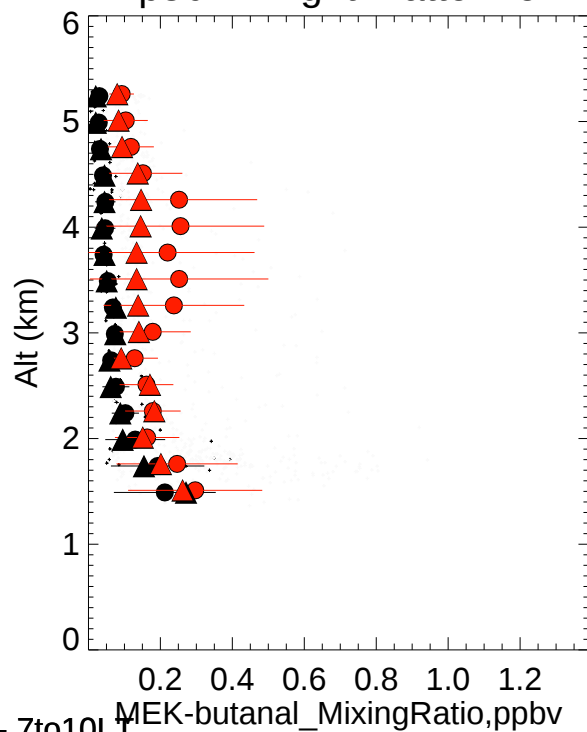




p3b All flight FortCollins

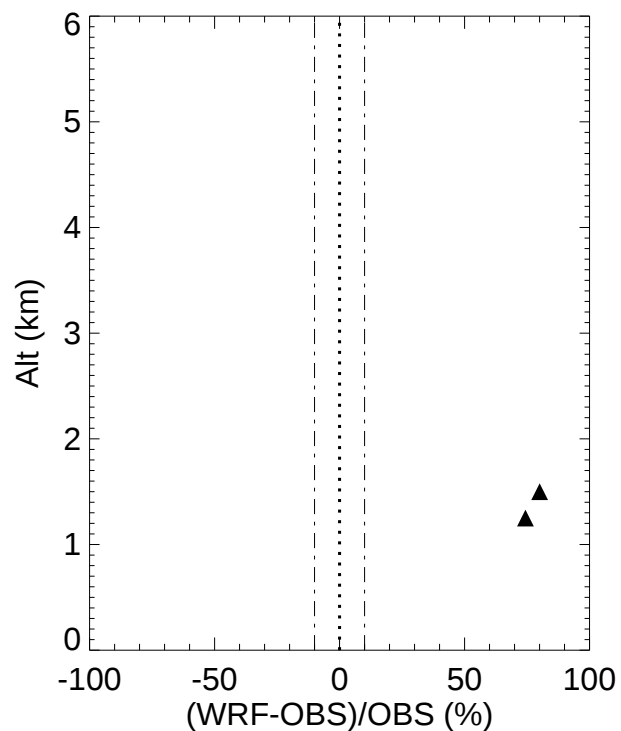
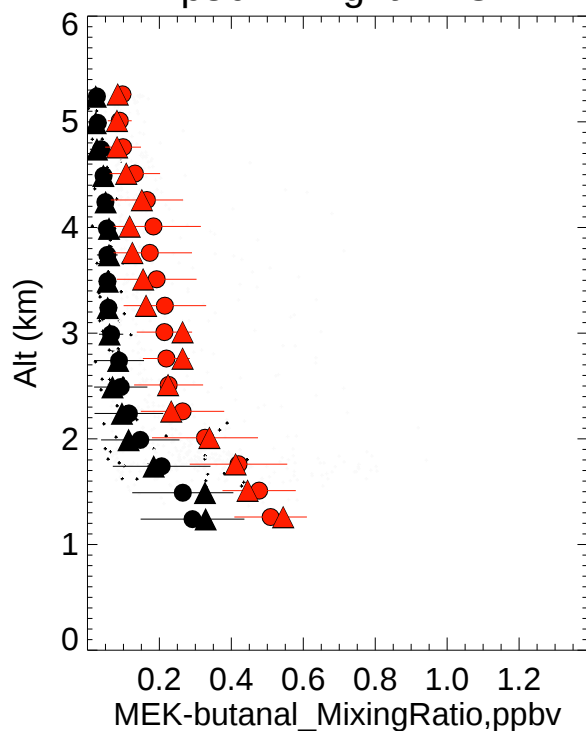


p3b All flight Platteville

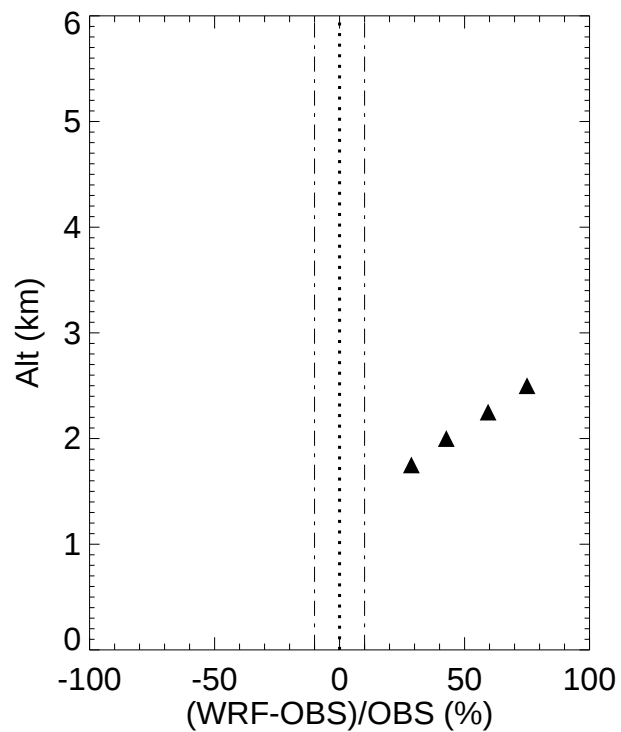
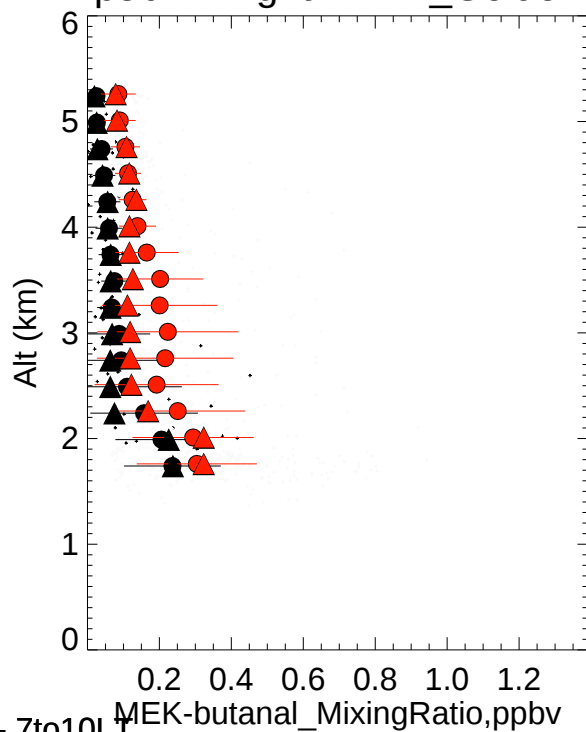


BTX- 7to10LT

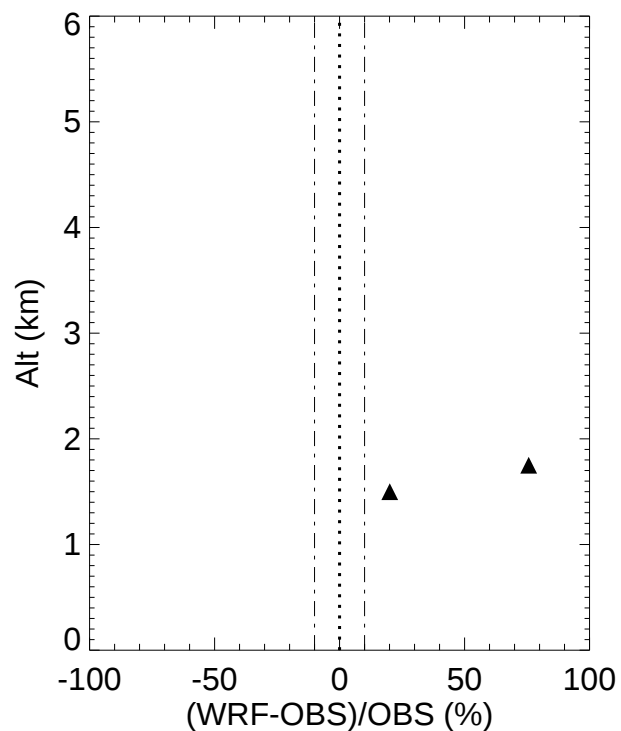
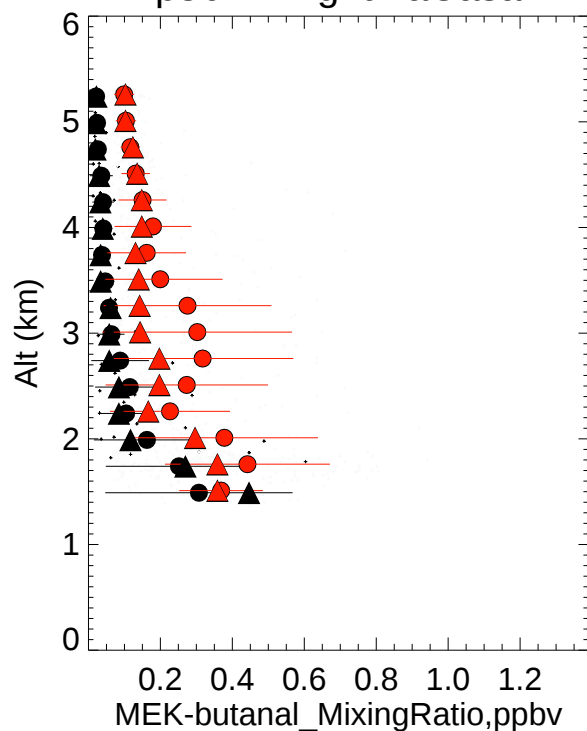
p3b All flight BAO



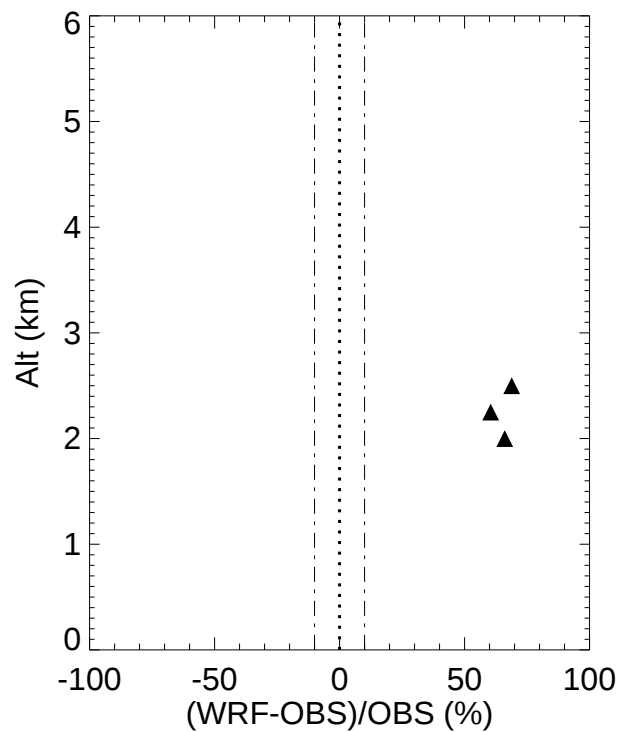
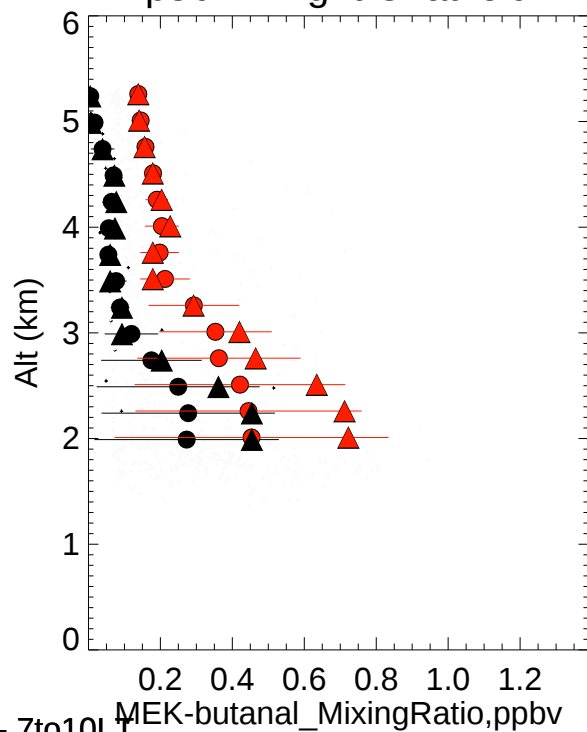
p3b All flight NREL_Golden



p3b All flight LaCasa



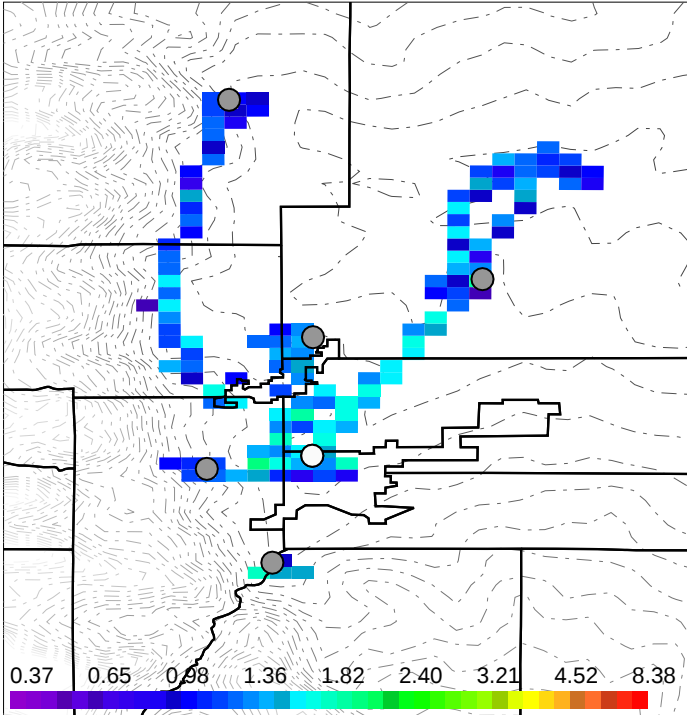
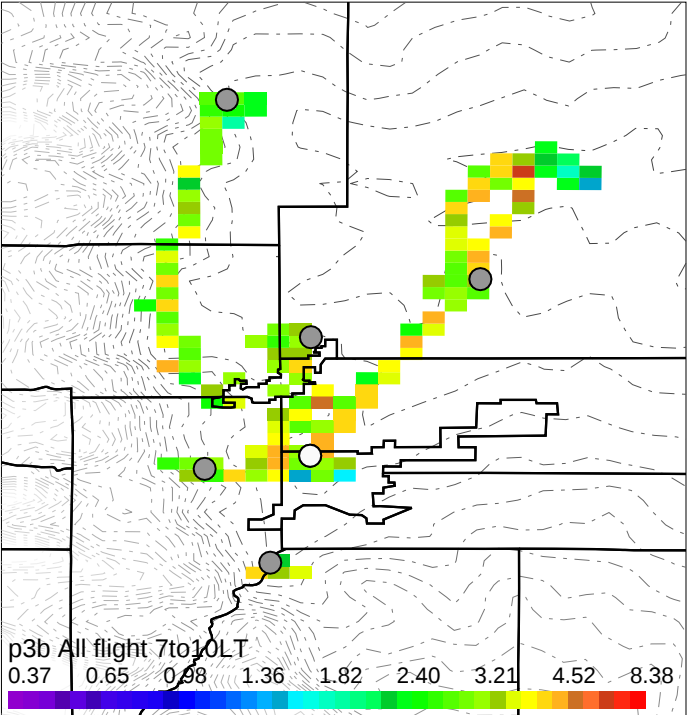
p3b All flight Chatfield



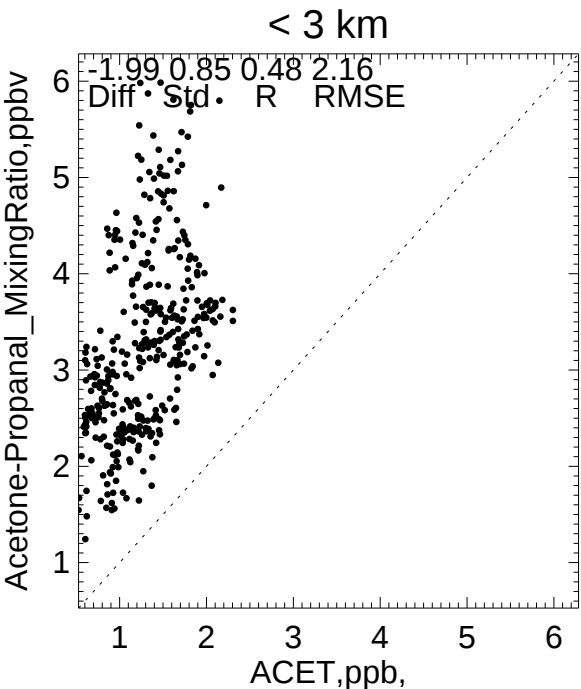
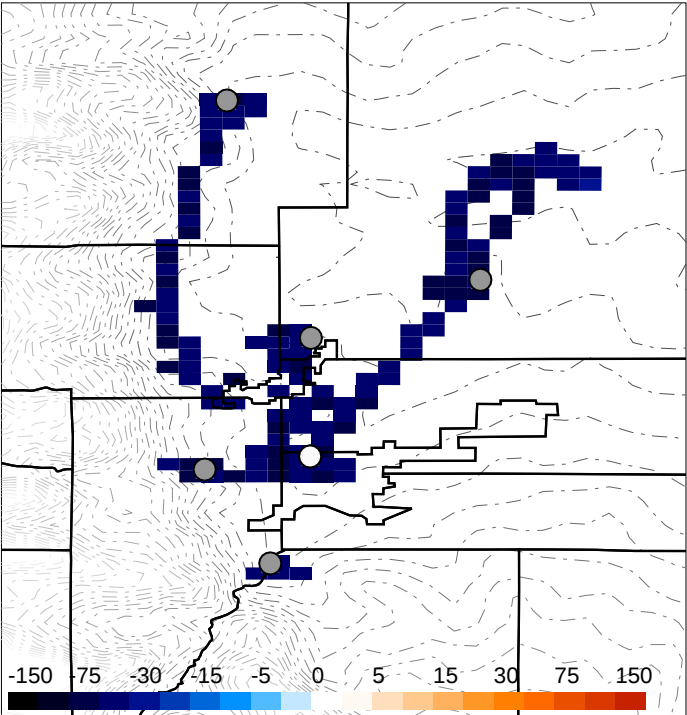
BTX- 7to10LT

Acetone-Propanal_MixingRatio,ppbv < 3 km

Model ACET,ppb, < 3 km

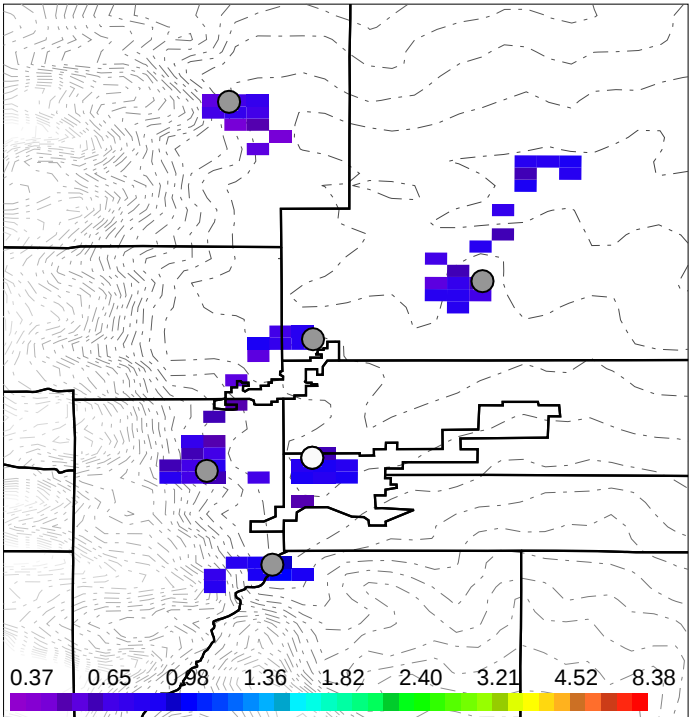
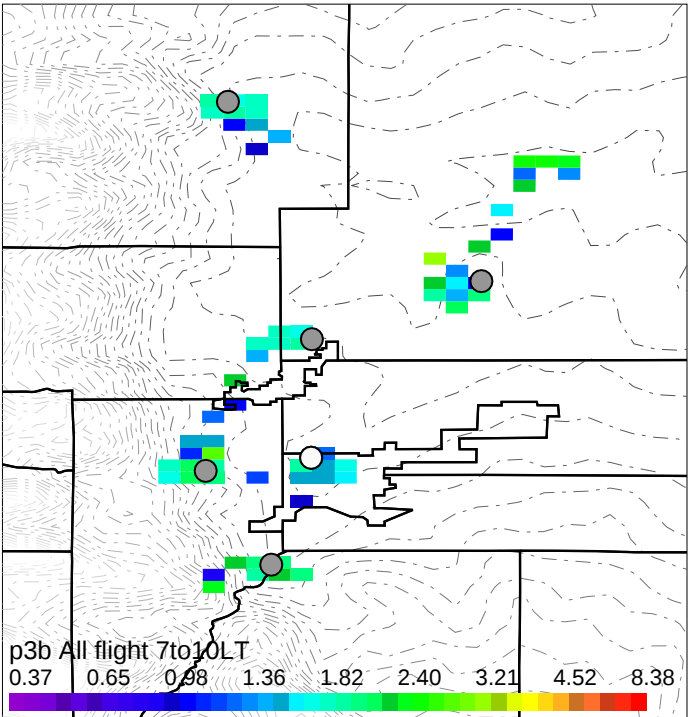


Model-Obs(%) ACET,ppb, < 3 km

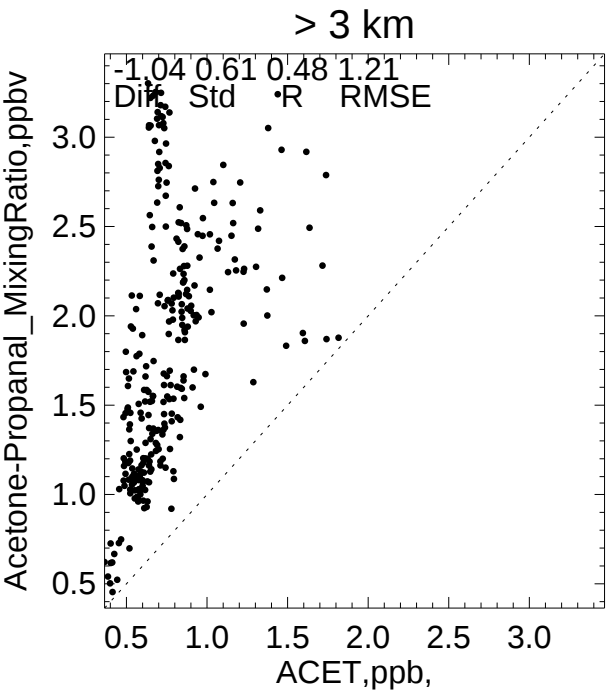
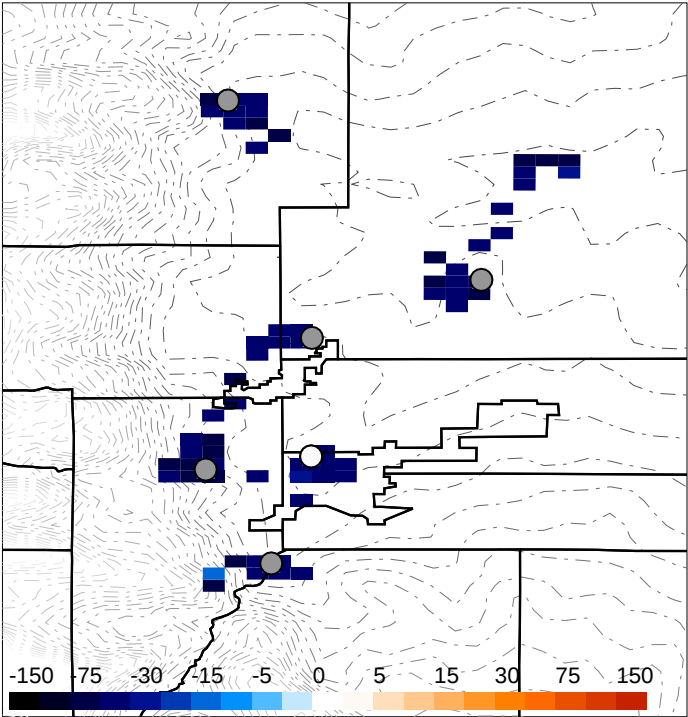


Acetone-Propanal_MixingRatio,ppbv > 3 km

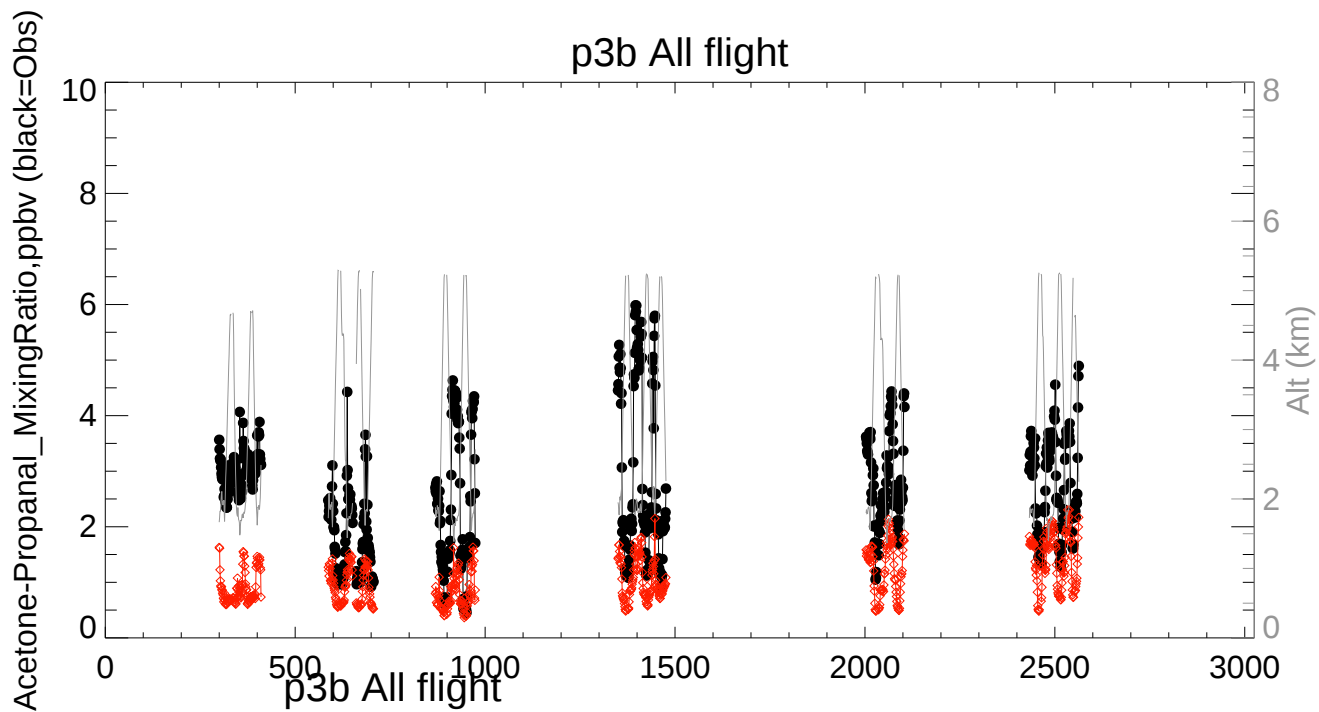
Model ACET,ppb, > 3 km



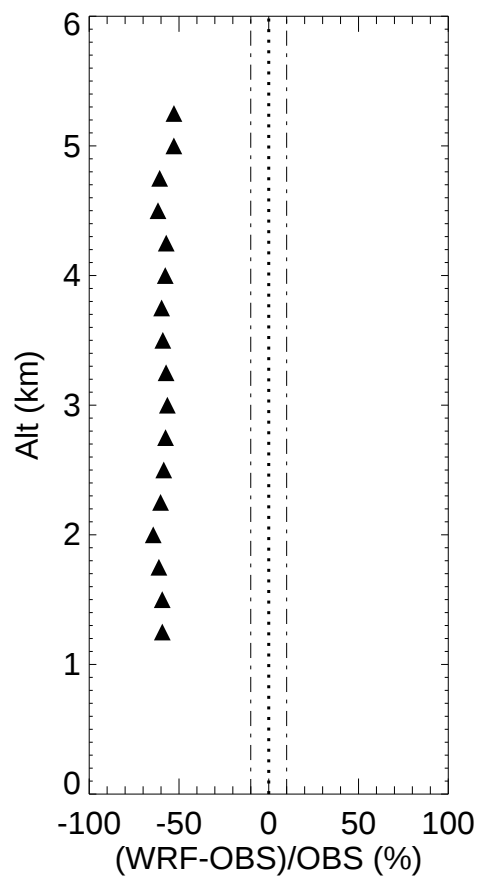
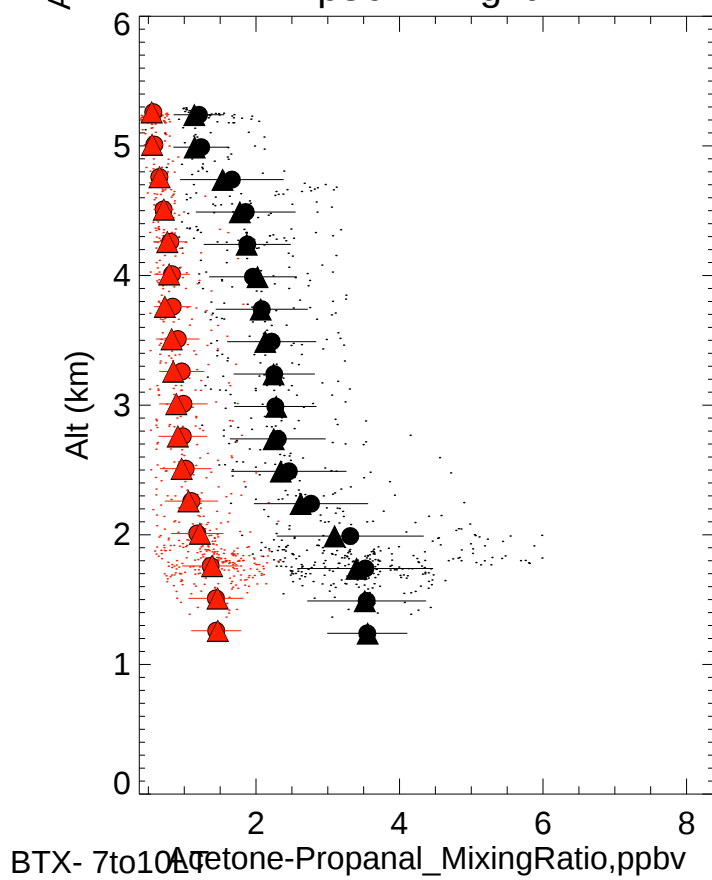
Model-Obs(%) ACET,ppb, > 3 km



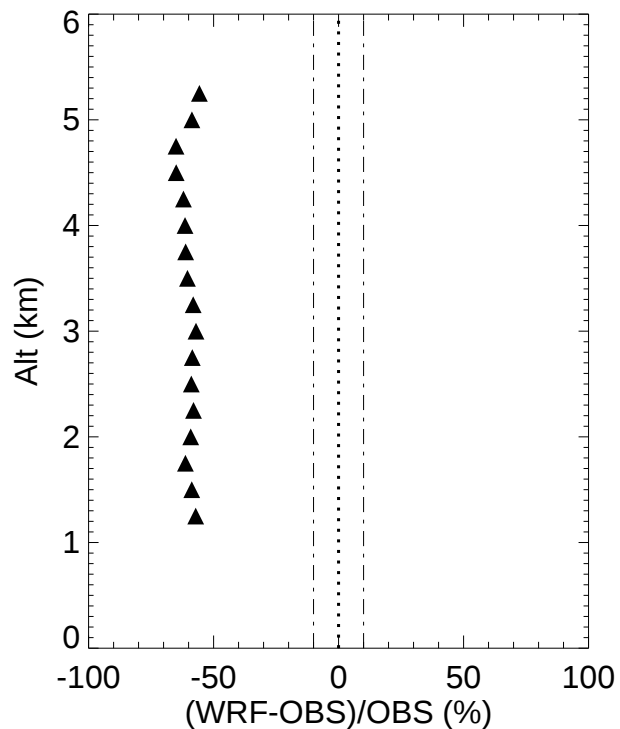
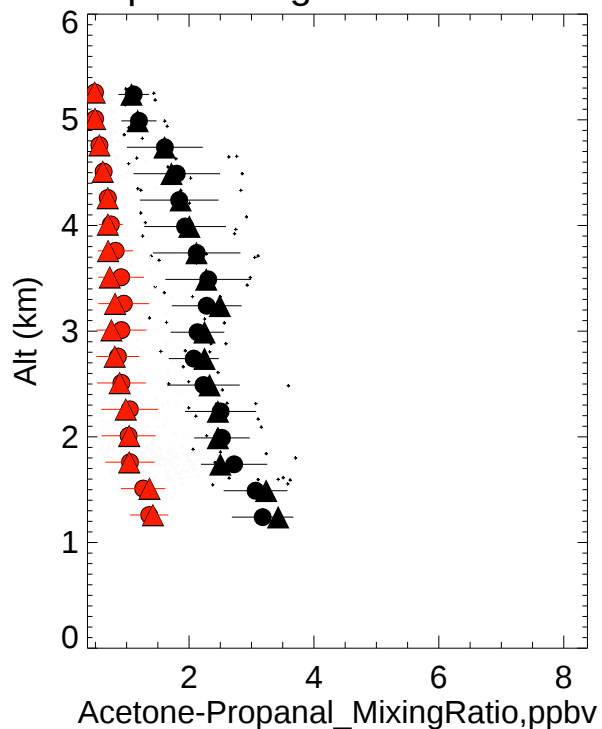
p3b All flight



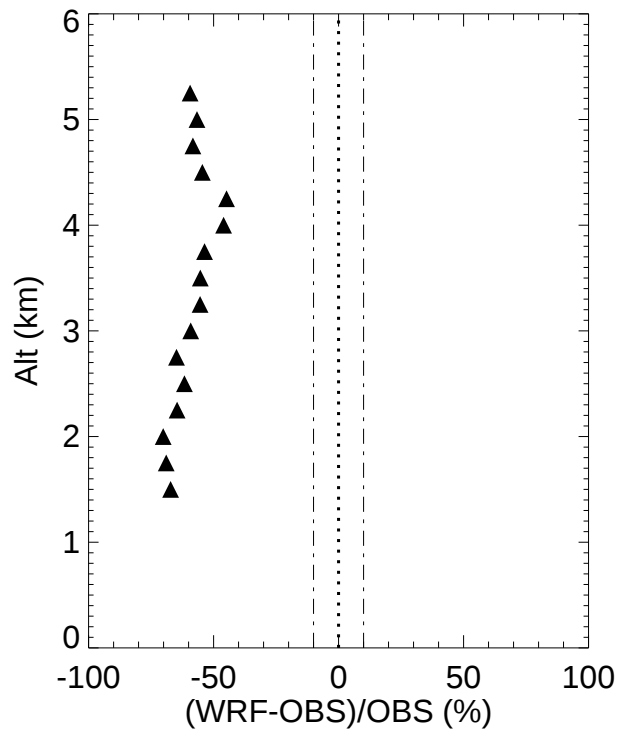
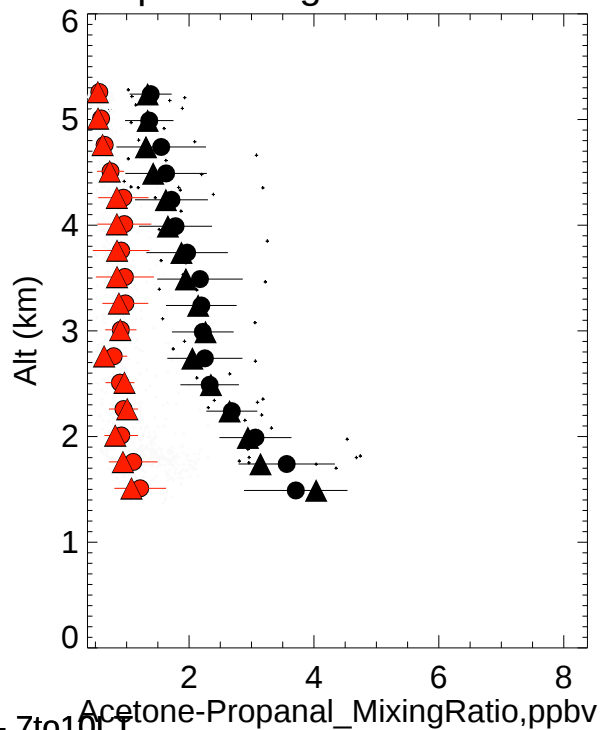
p3b All flight

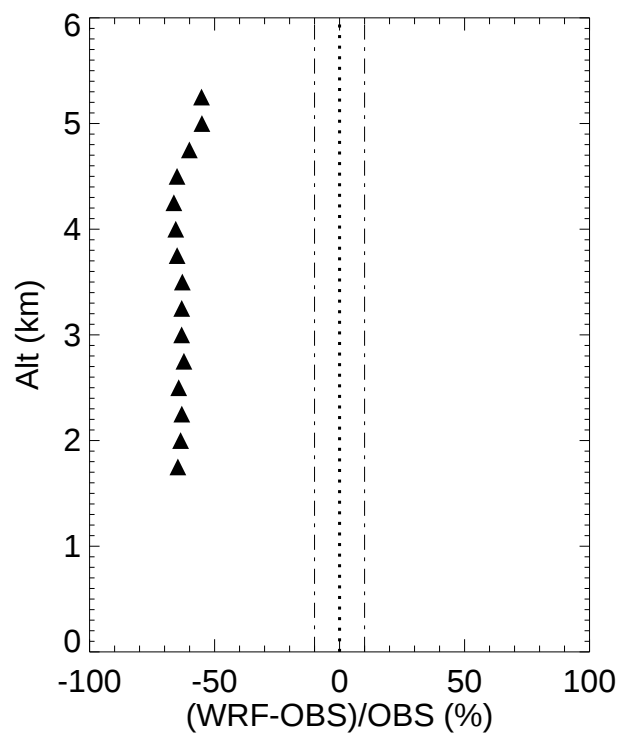
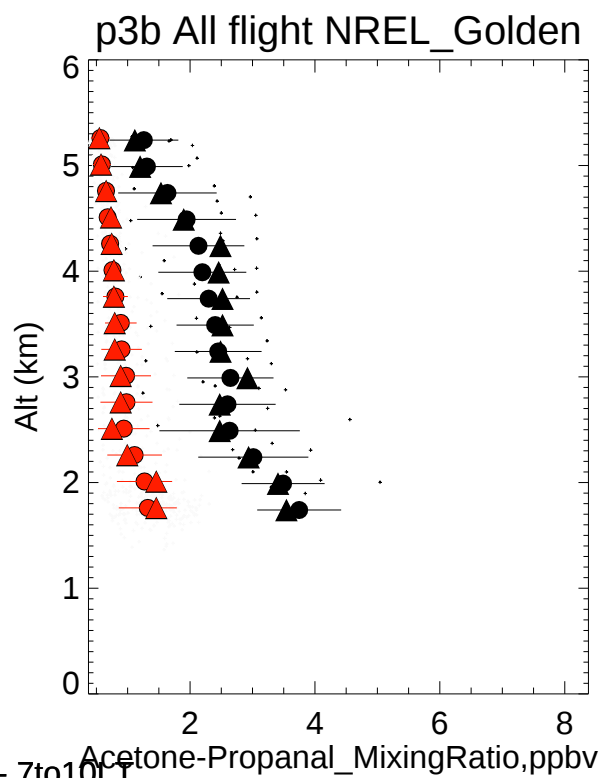
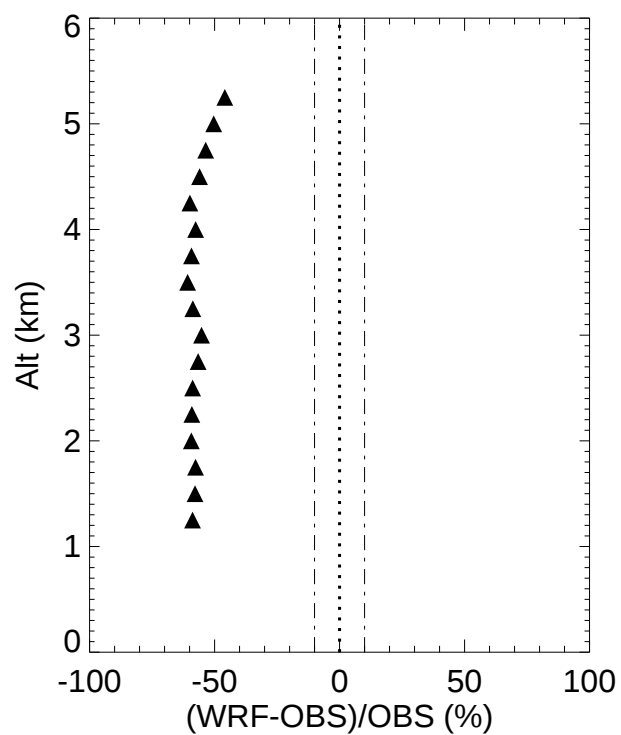
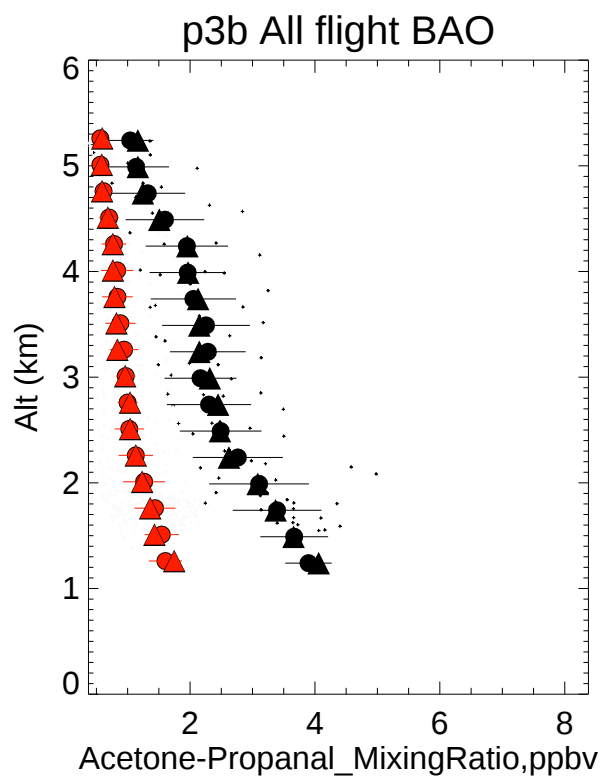


p3b All flight FortCollins

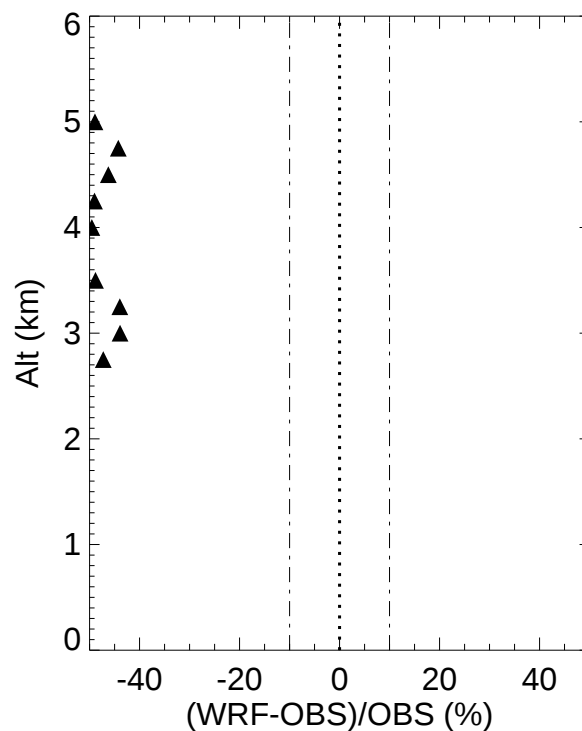
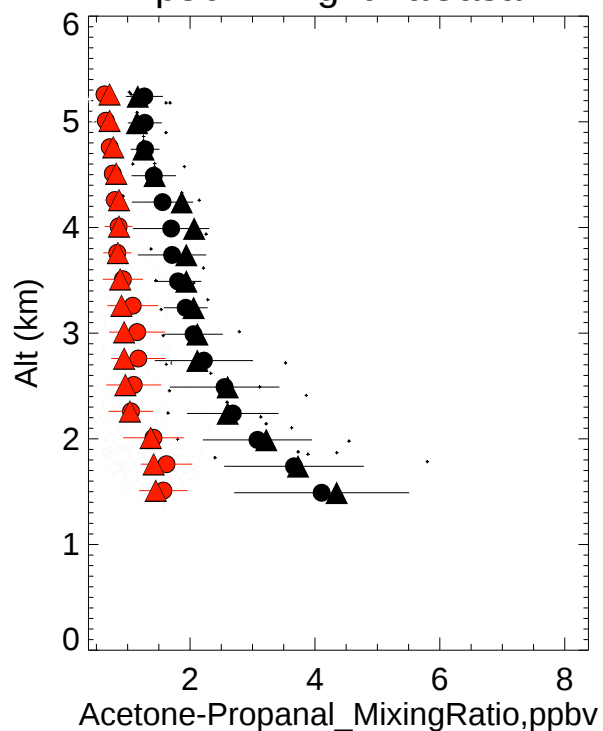


p3b All flight Platteville

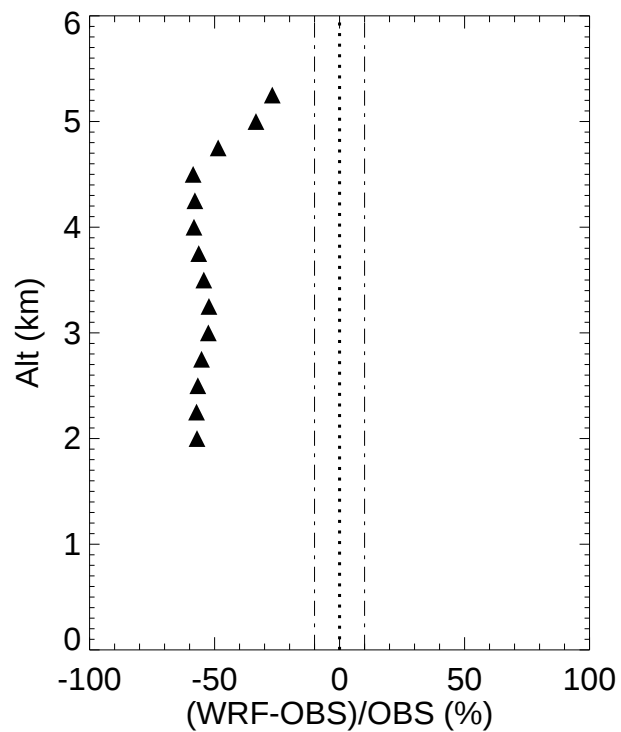
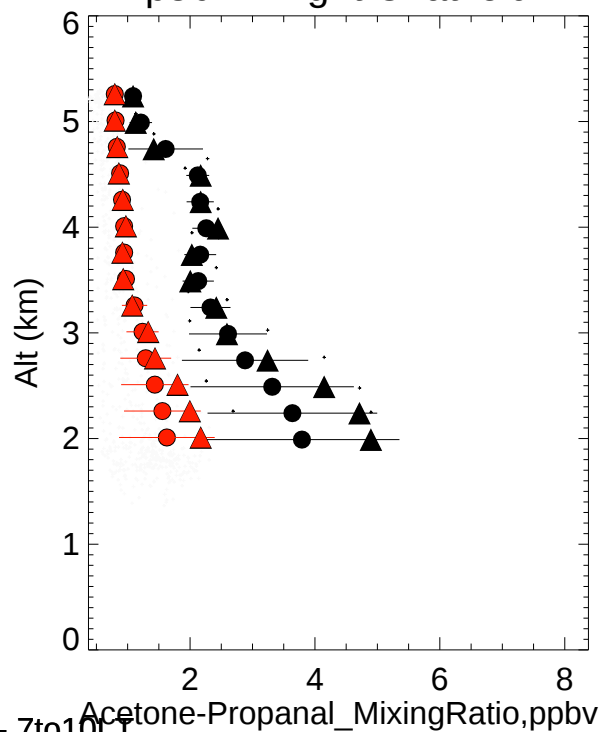




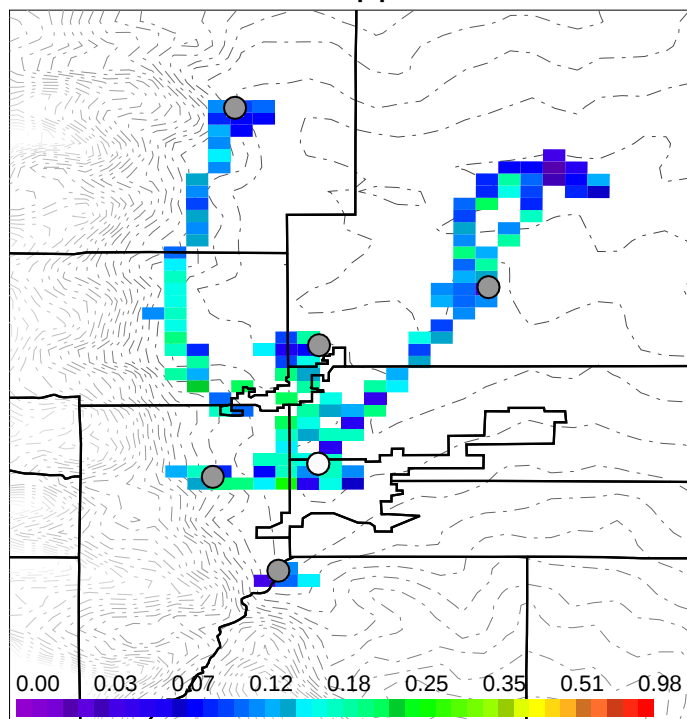
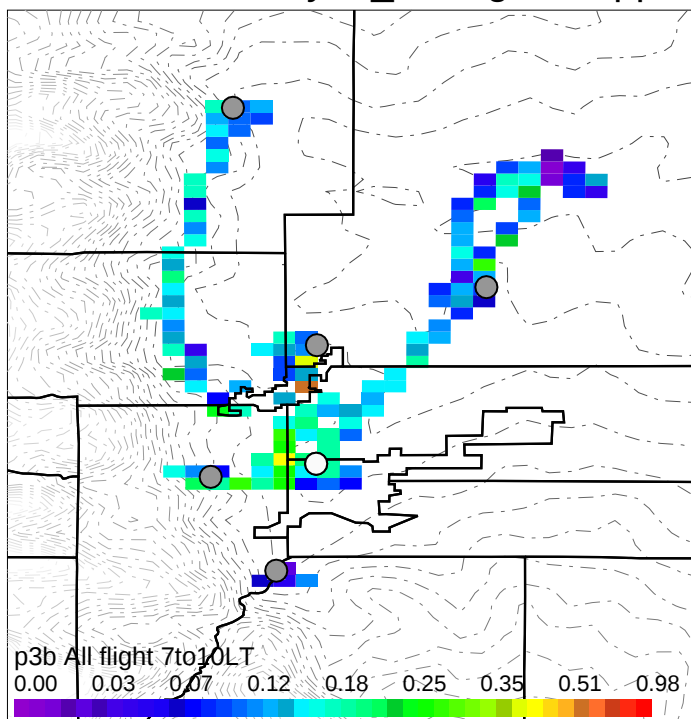
p3b All flight LaCasa



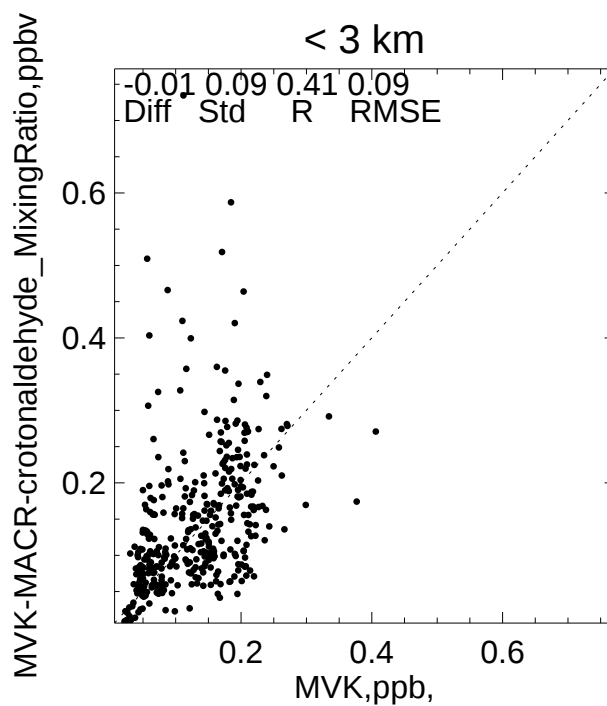
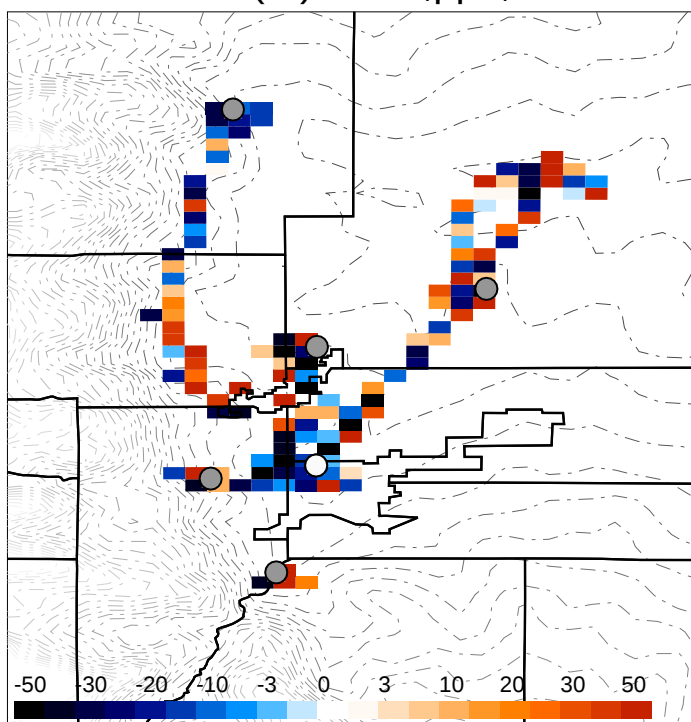
p3b All flight Chatfield



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

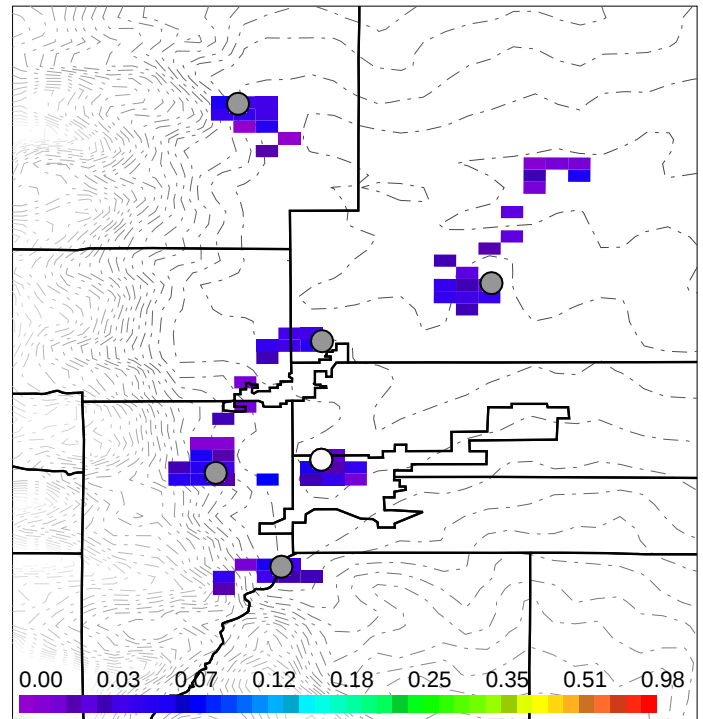
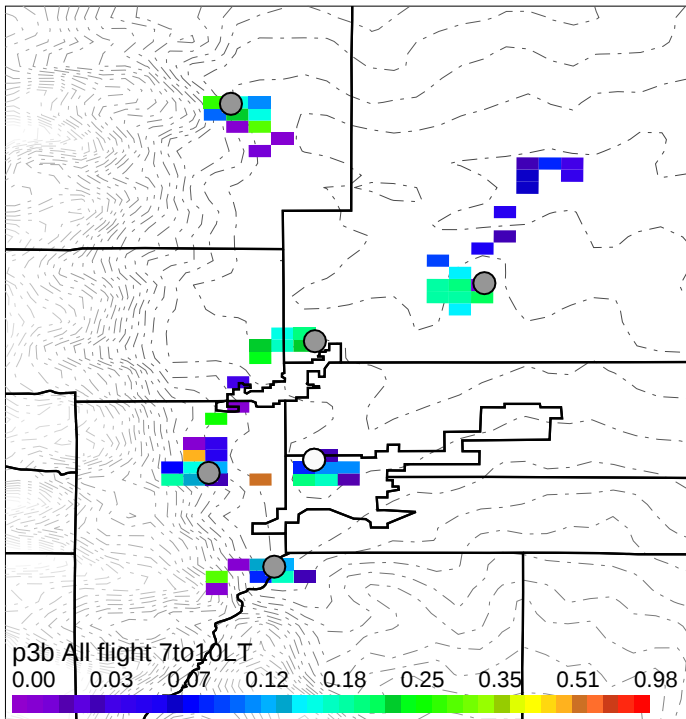


Model-Obs(%) MVK,ppb, < 3 km

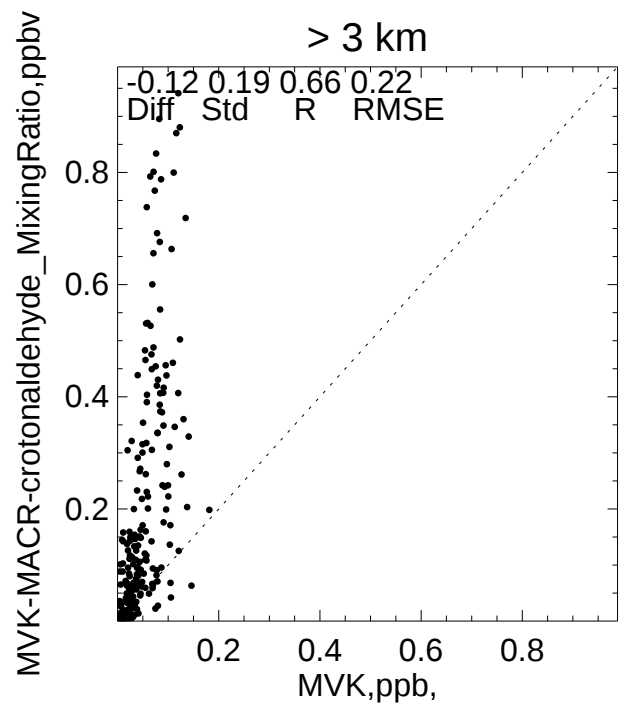
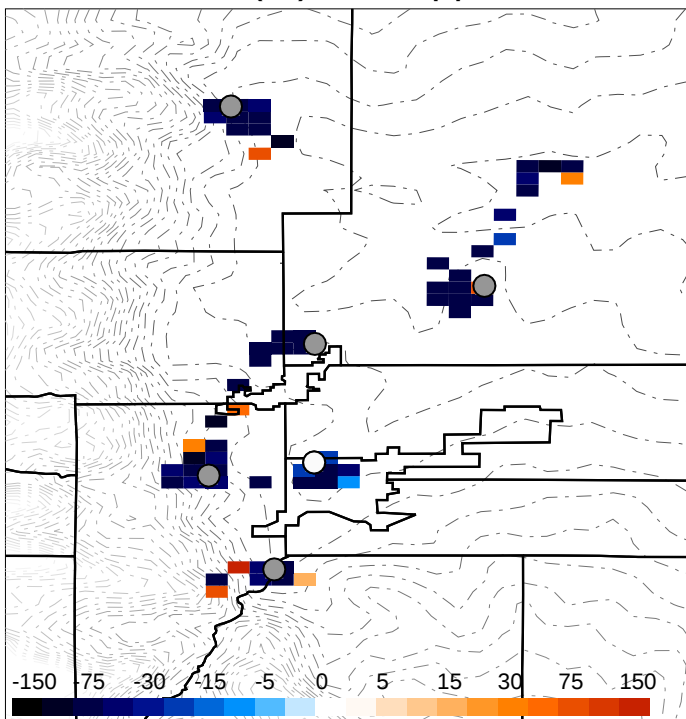


BTX- 7to10LT

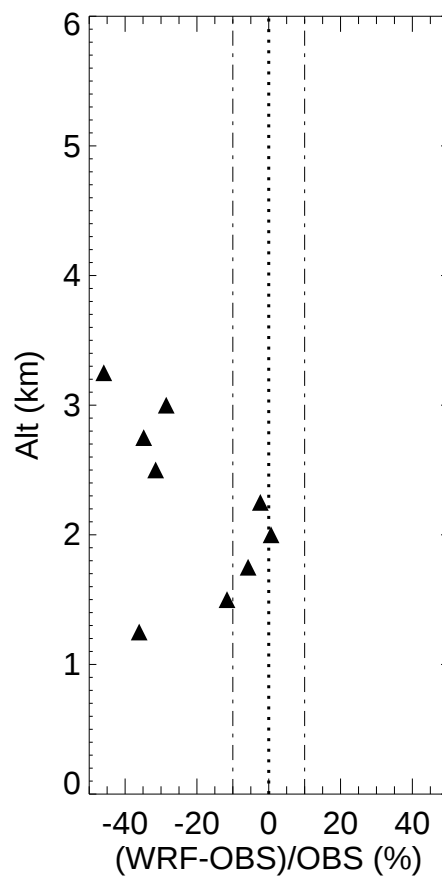
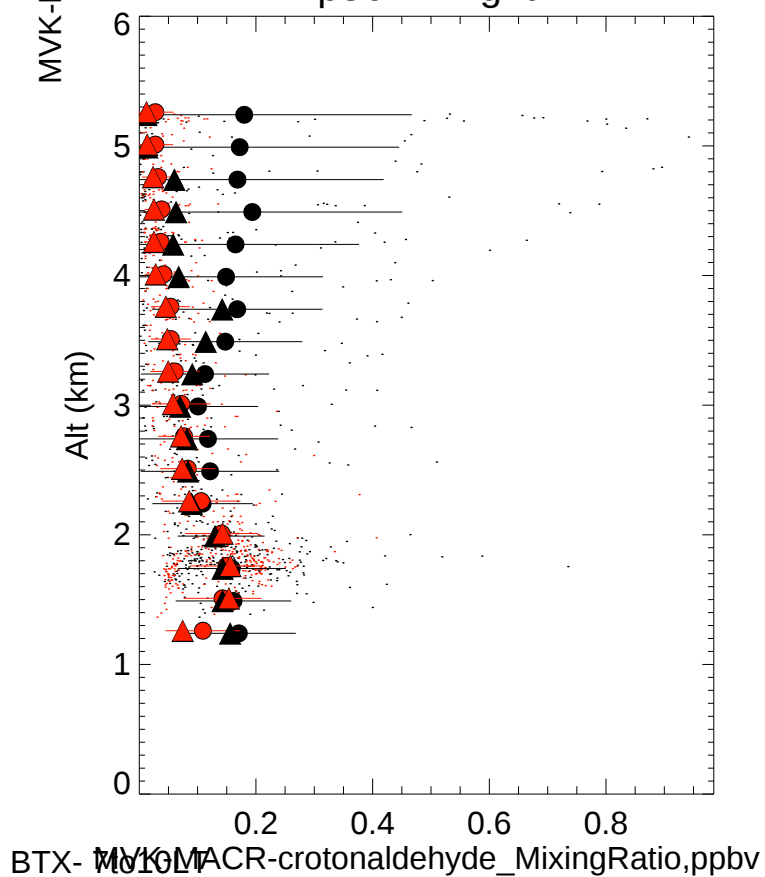
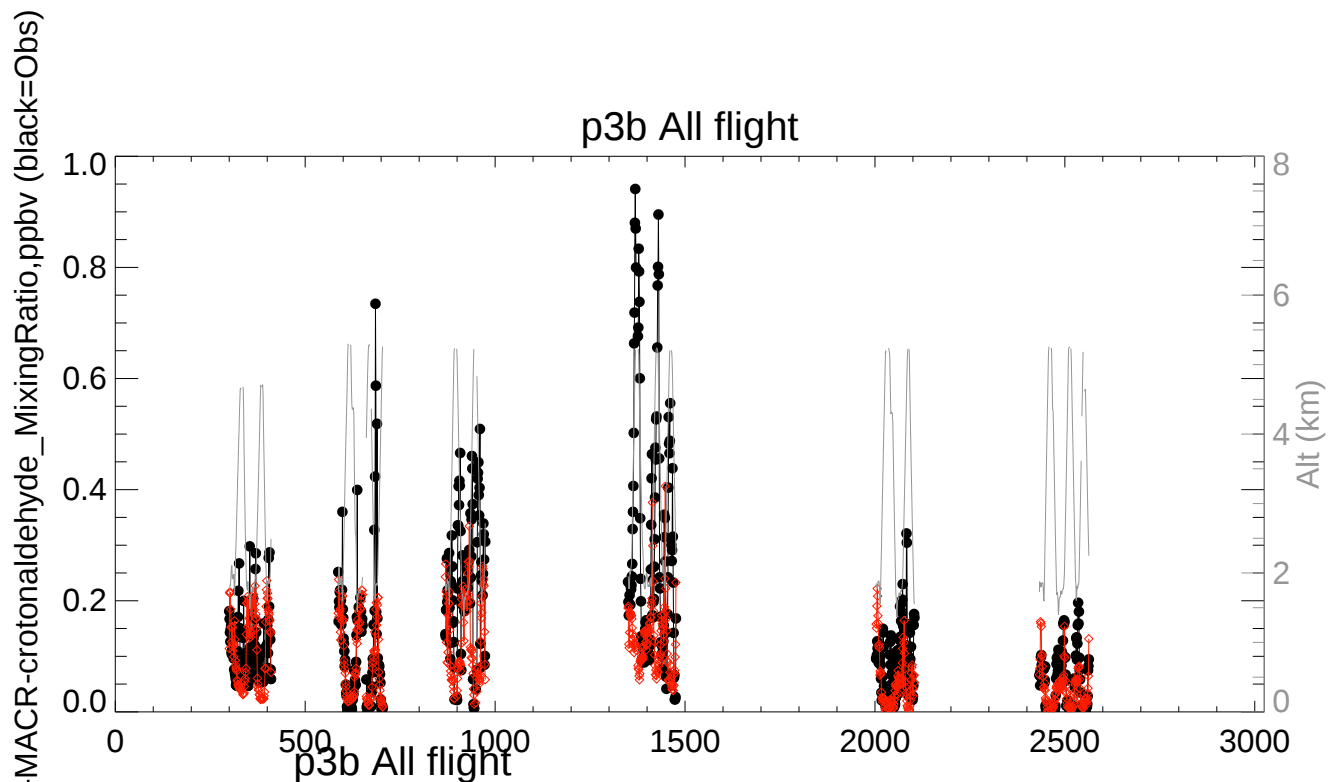
VK-MACR-crotonaldehyde_MixingRatio,ppbv > 3 km Model MVK,ppb, > 3 km



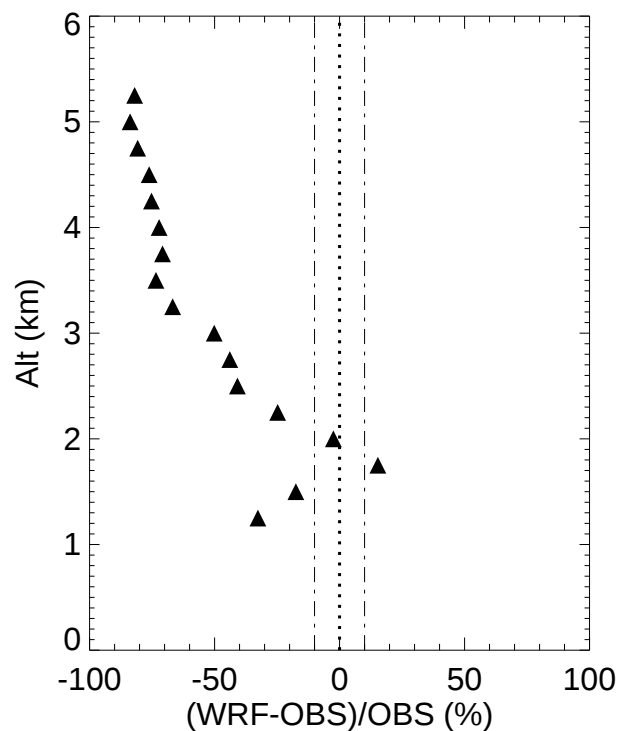
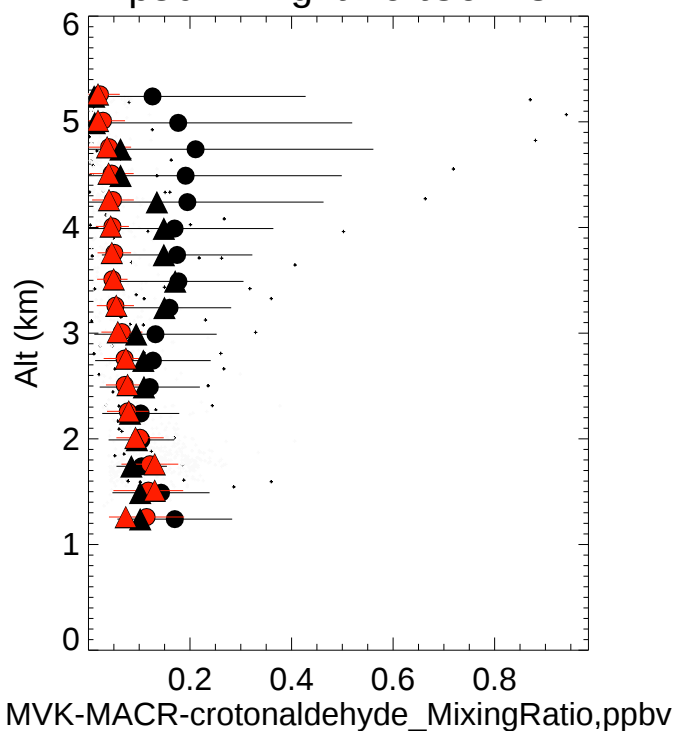
Model-Obs(%) MVK,ppb, > 3 km



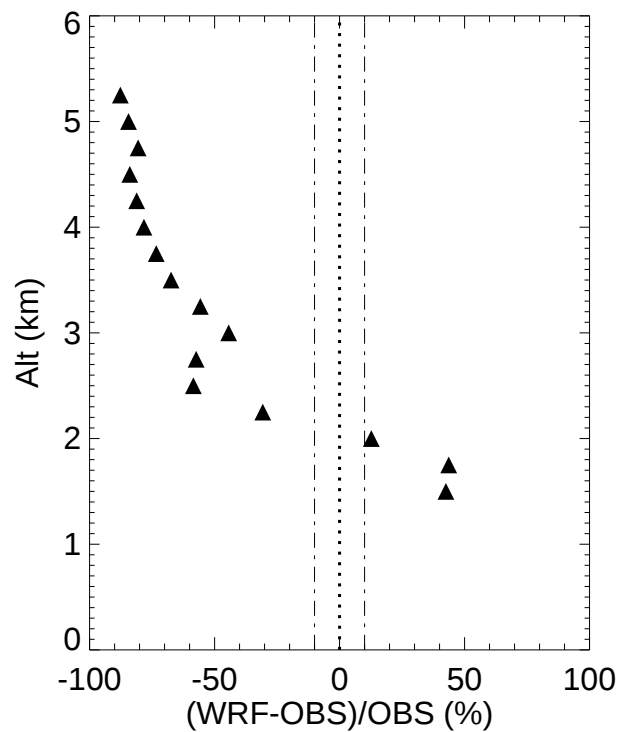
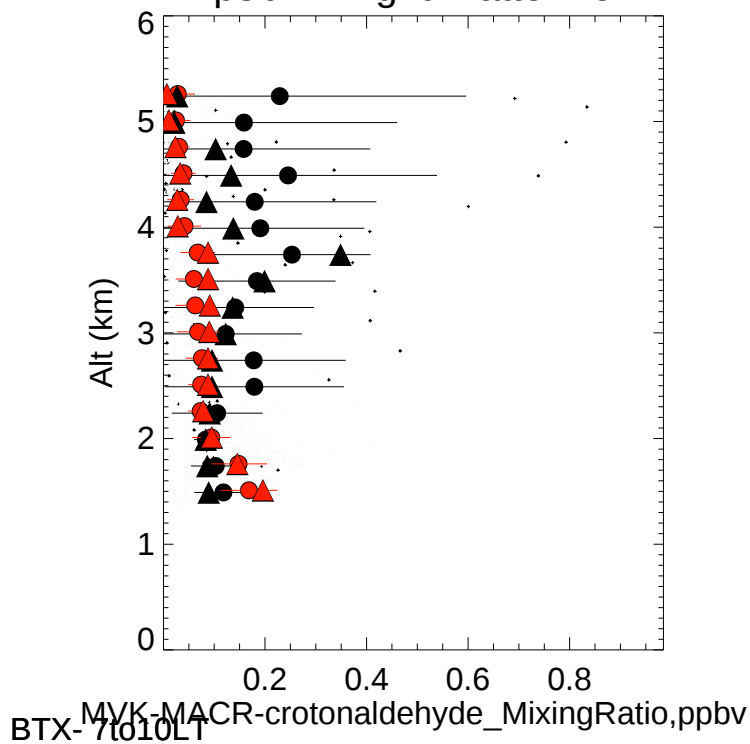
BTX- 7to10LT

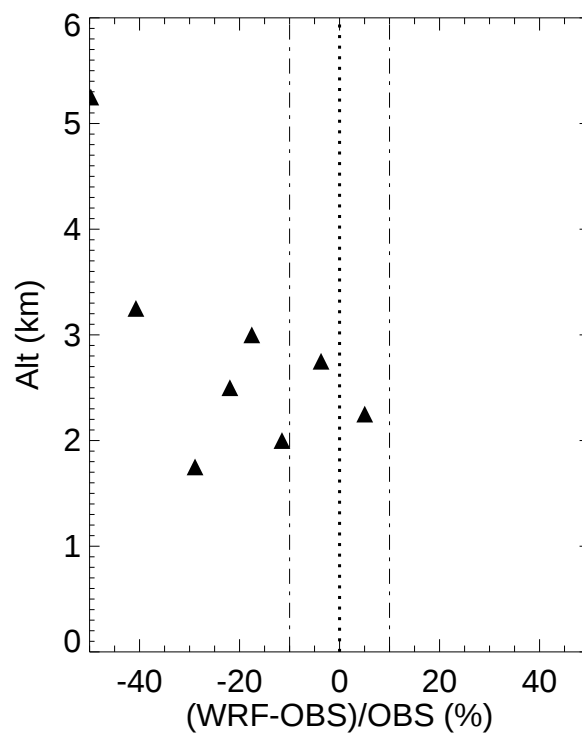
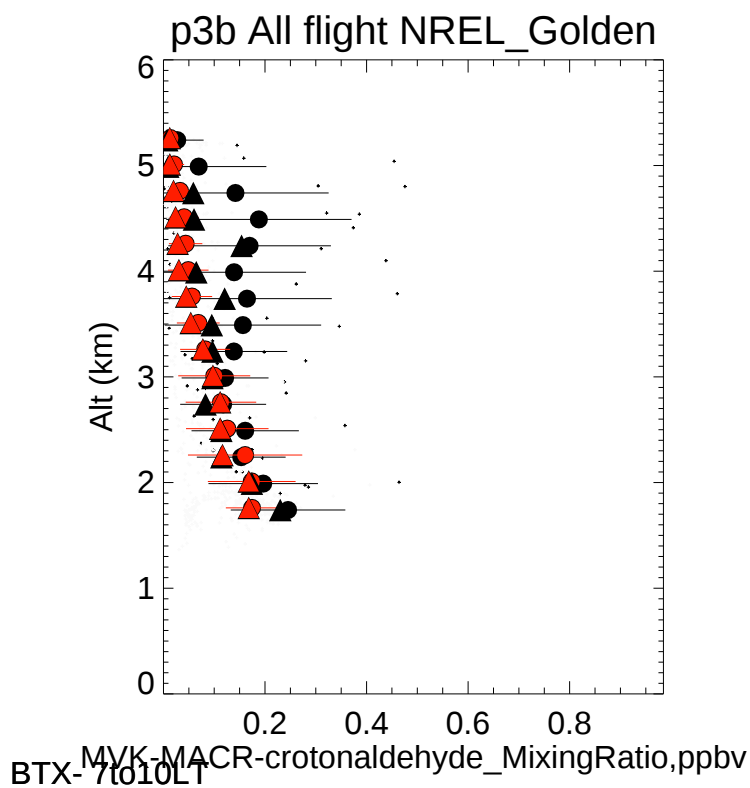
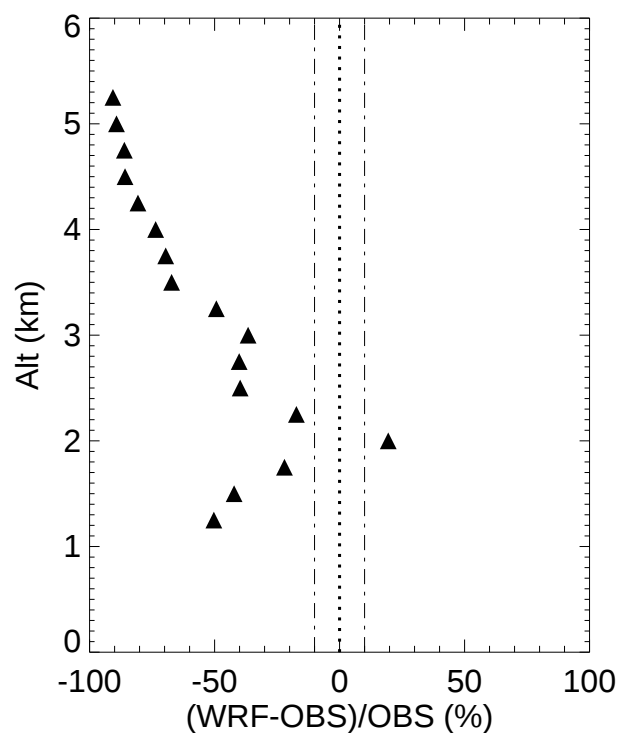
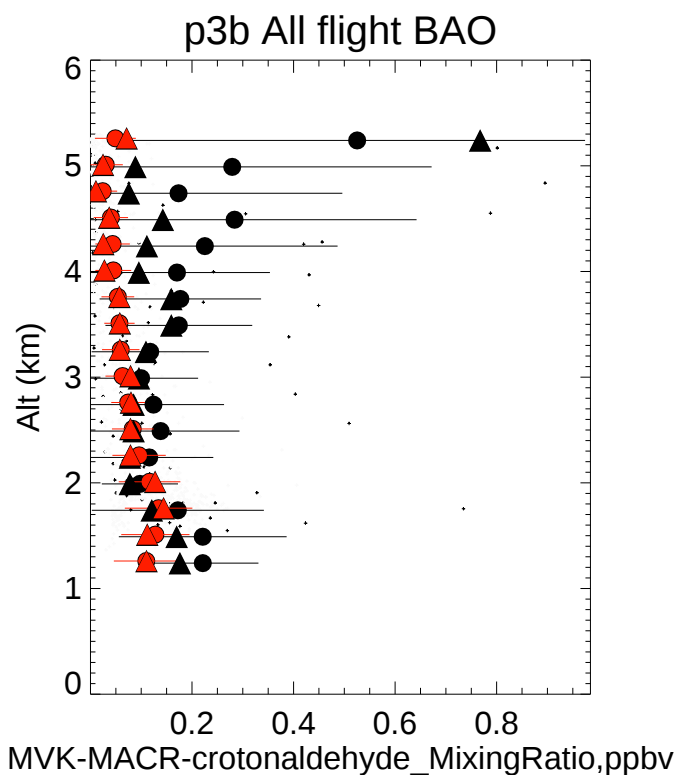


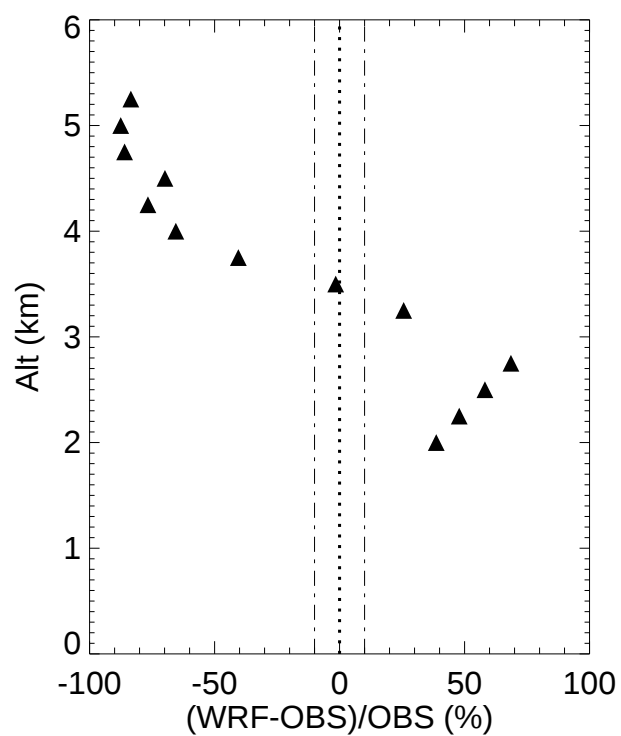
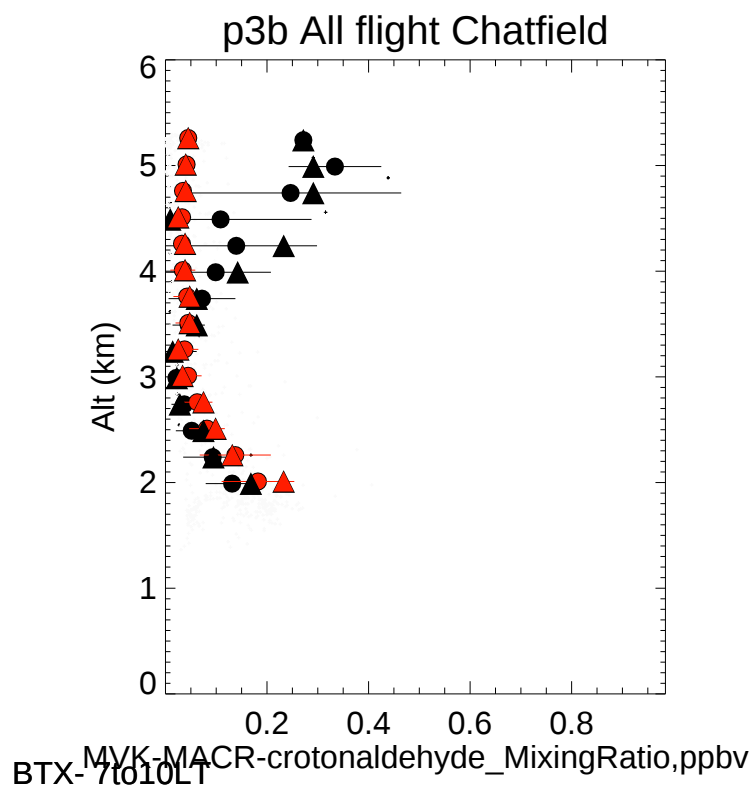
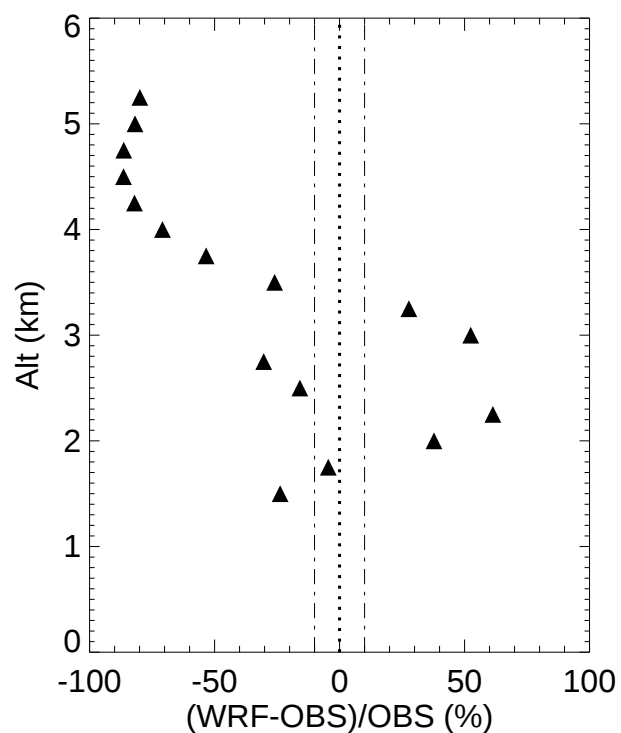
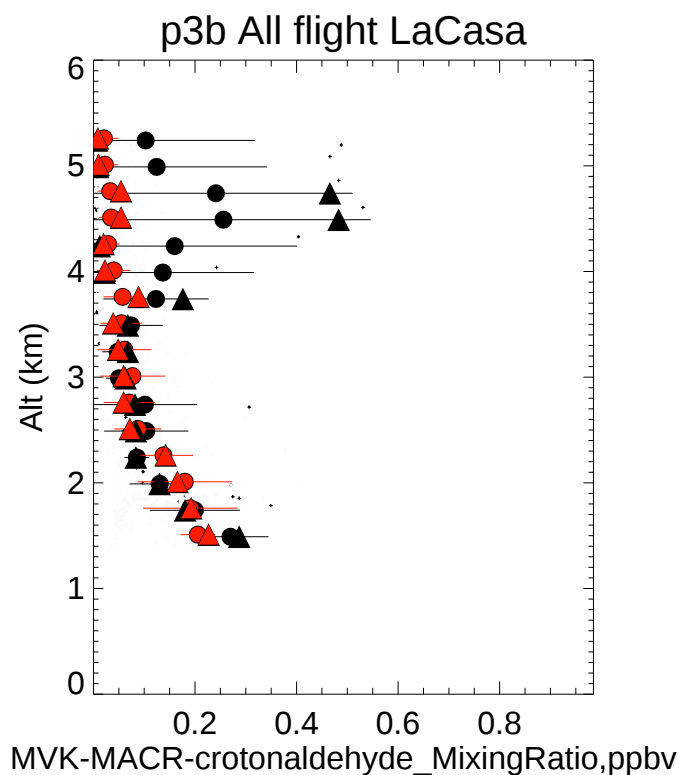
p3b All flight FortCollins



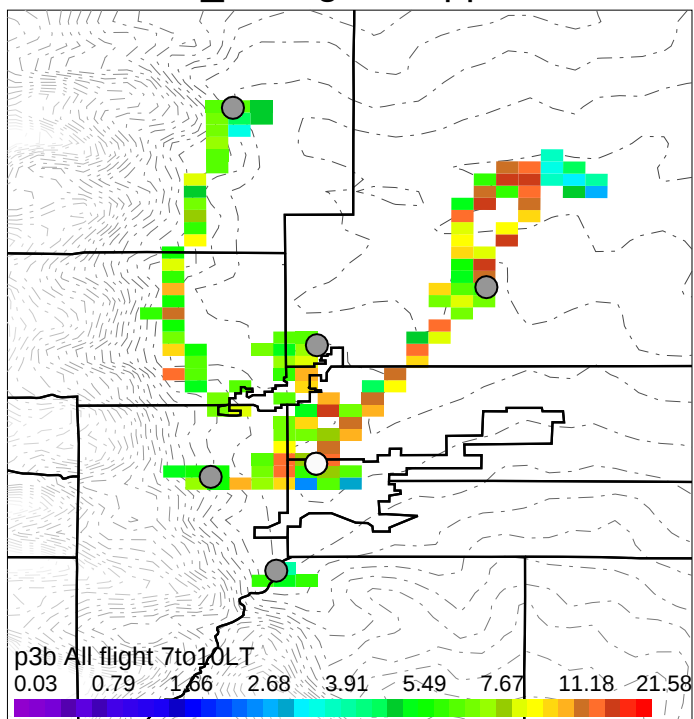
p3b All flight Platteville



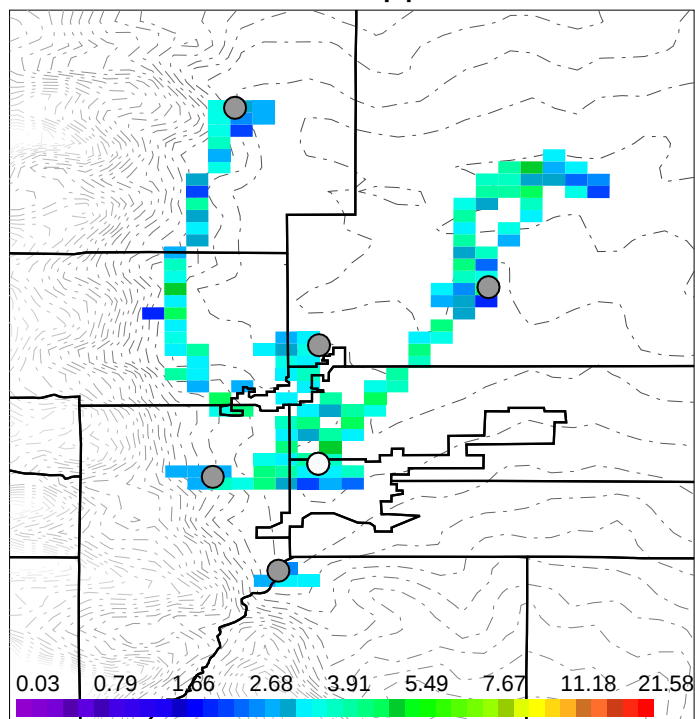




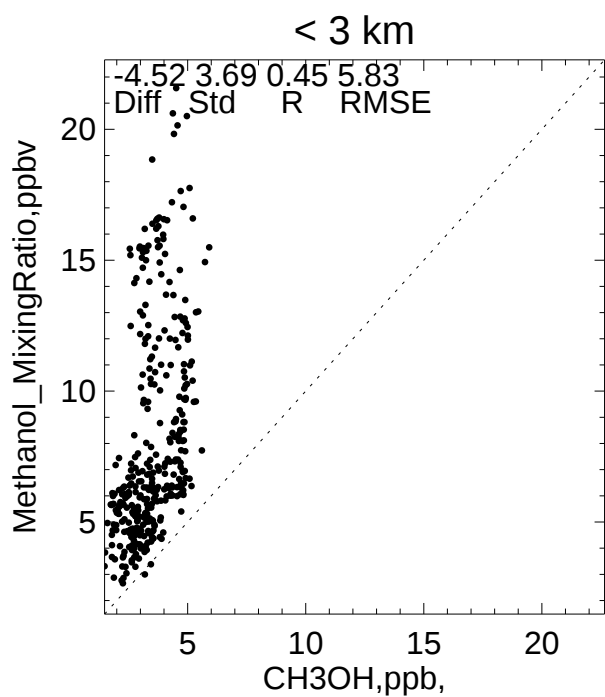
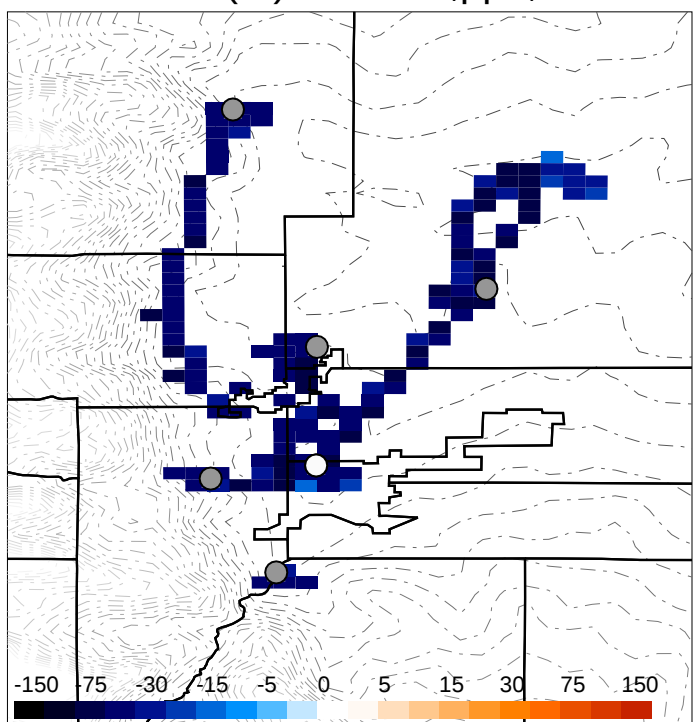
Methanol_MixingRatio,ppbv < 3 km



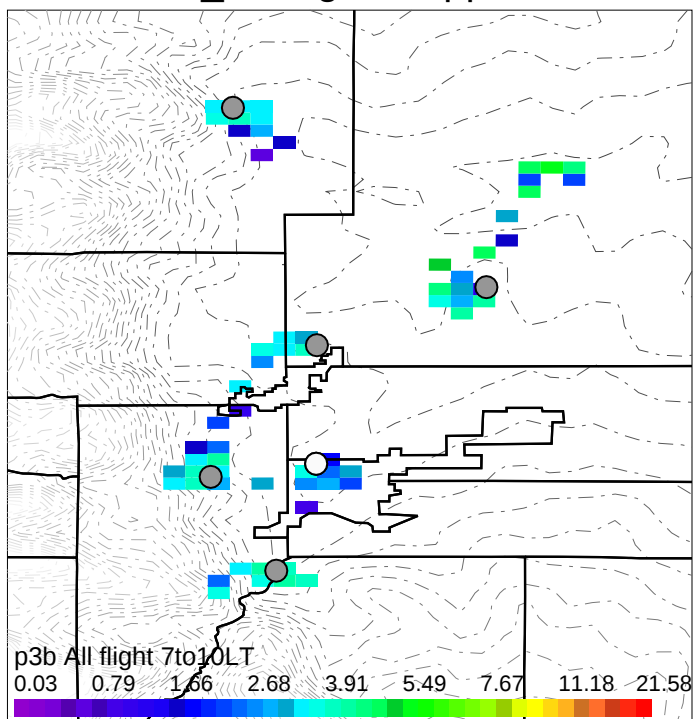
Model CH₃OH,ppb, < 3 km



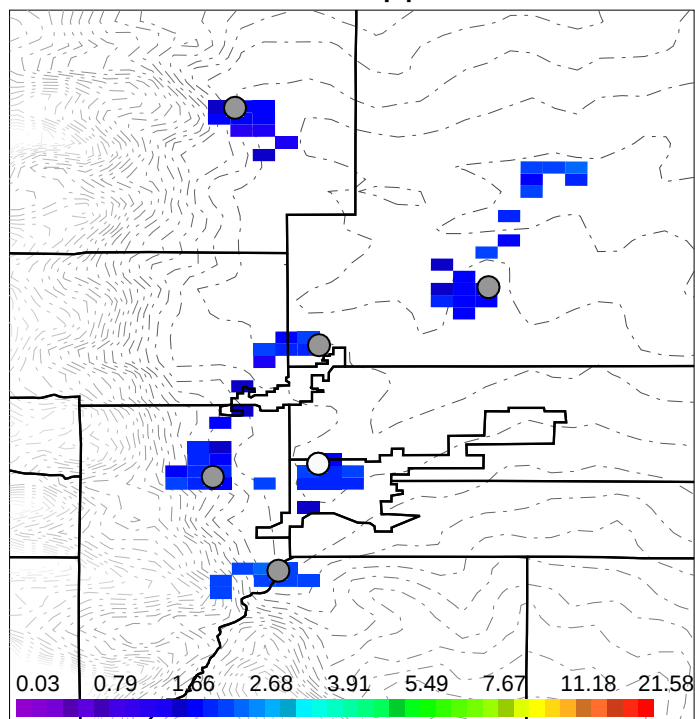
Model-Obs(%) CH₃OH,ppb, < 3 km



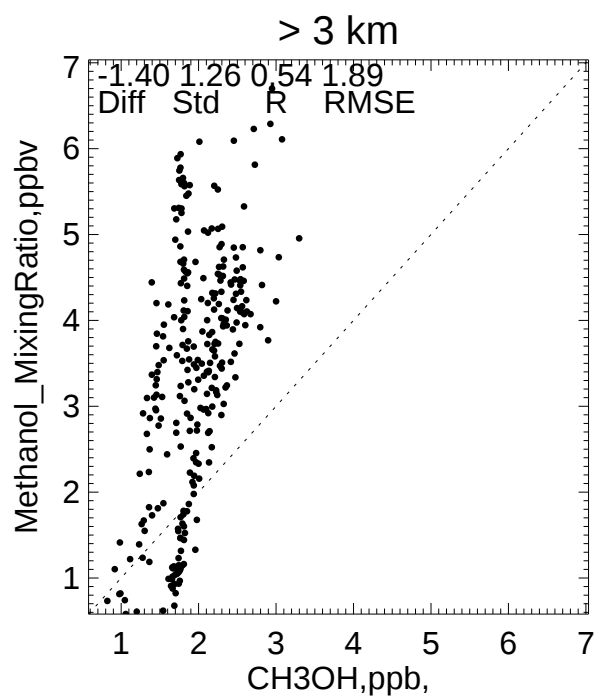
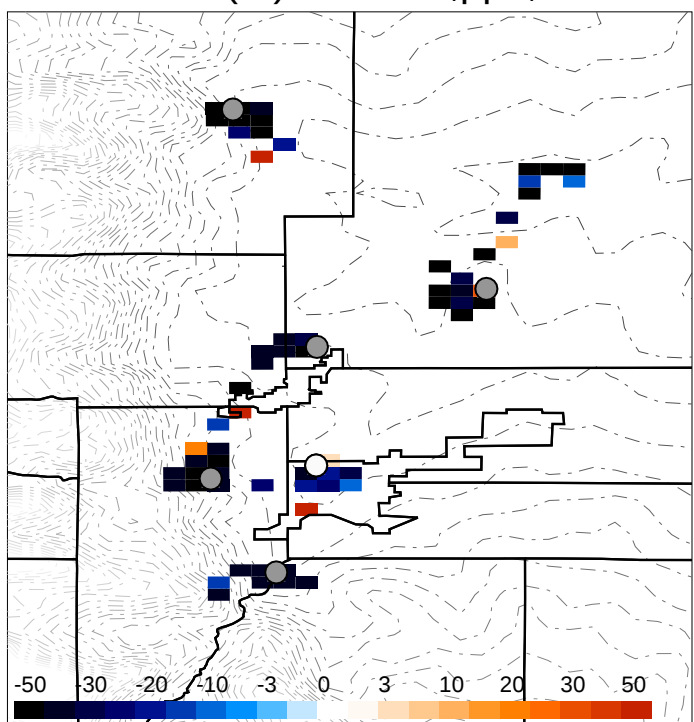
Methanol_MixingRatio,ppbv > 3 km



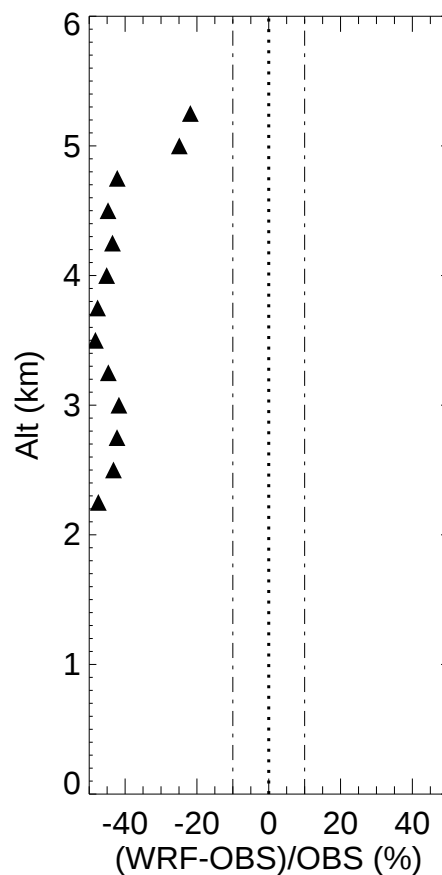
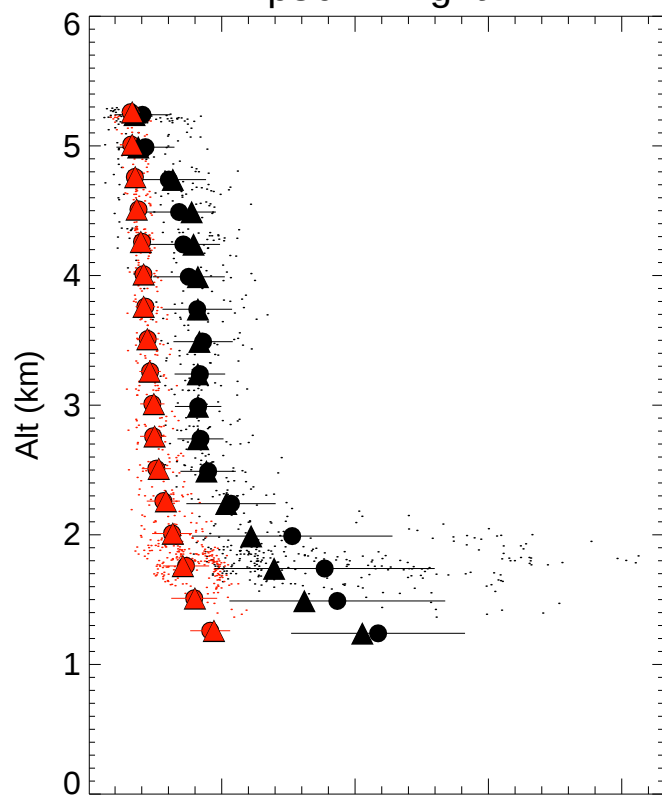
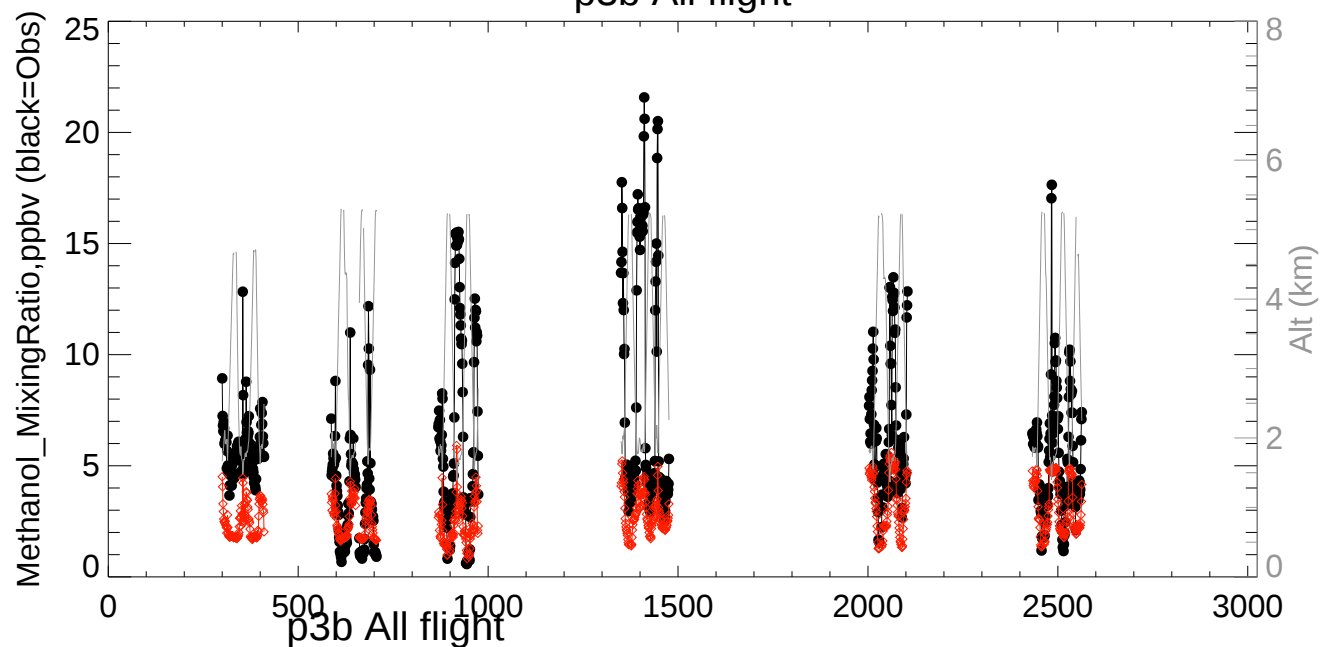
Model CH₃OH,ppb, > 3 km



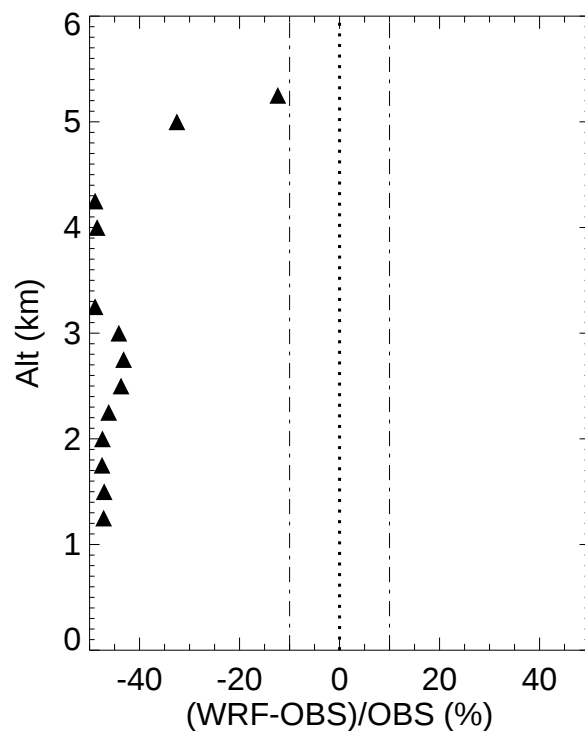
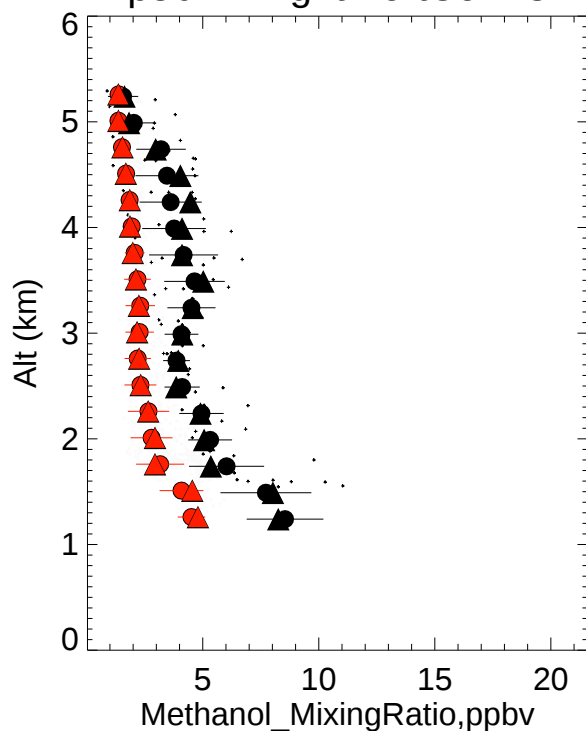
Model-Obs(%) CH₃OH,ppb, > 3 km



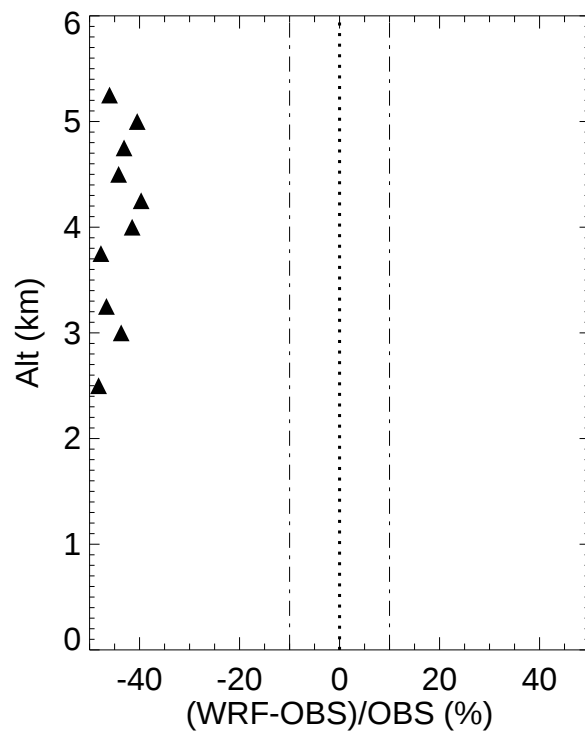
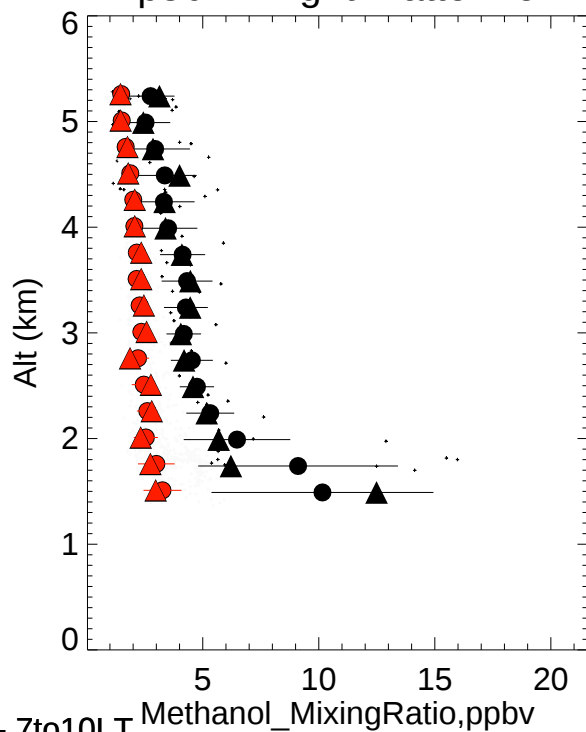
p3b All flight



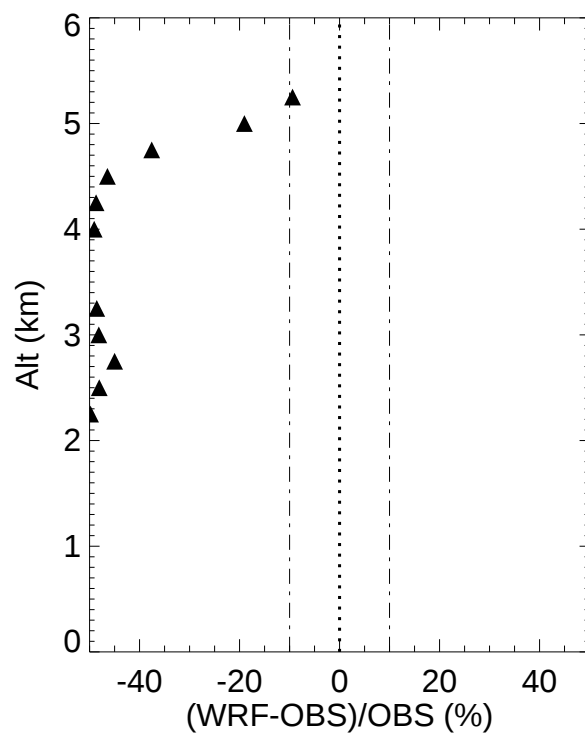
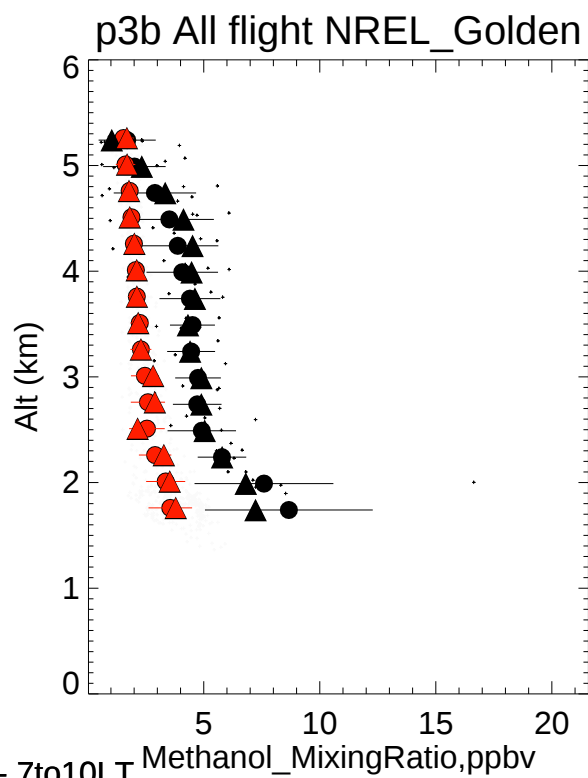
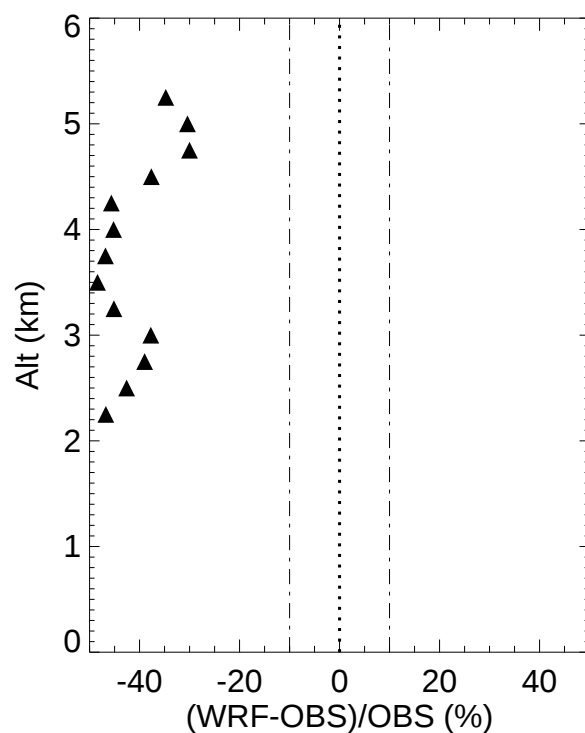
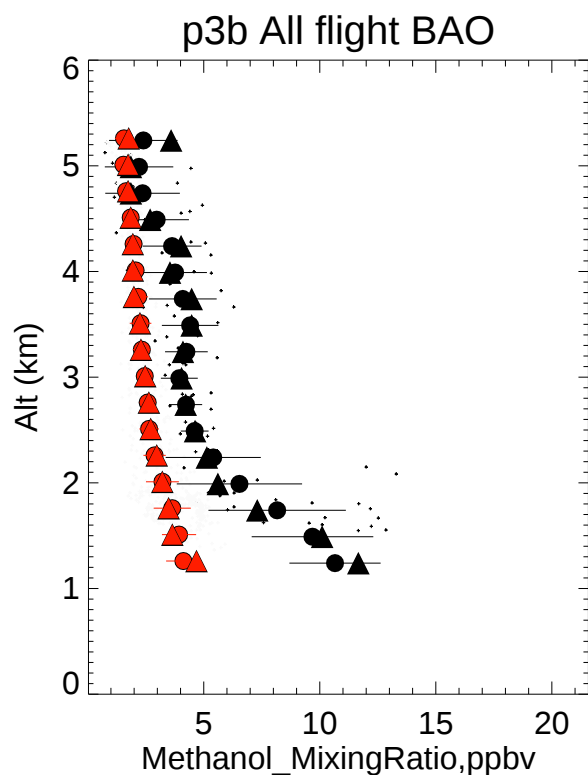
p3b All flight FortCollins



p3b All flight Platteville

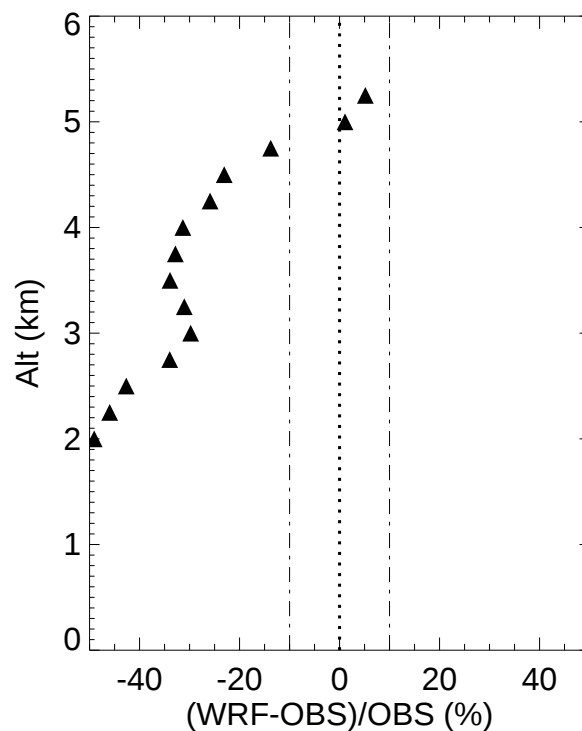
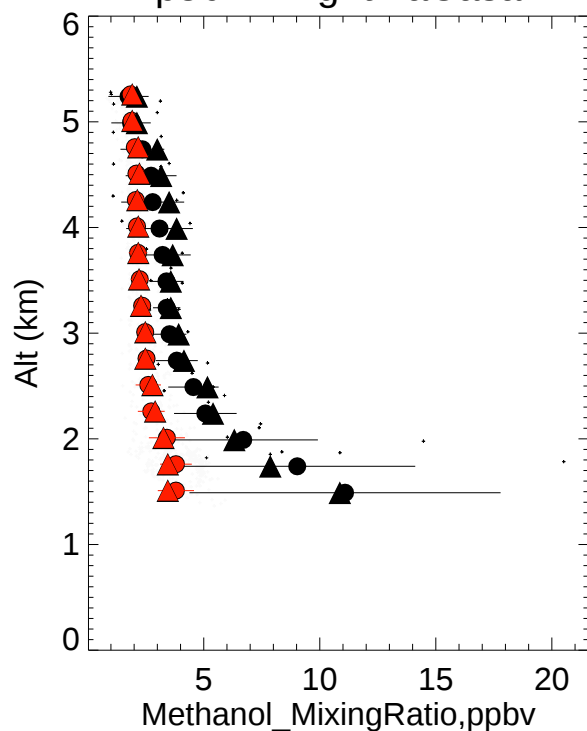


BTX- 7to10LT

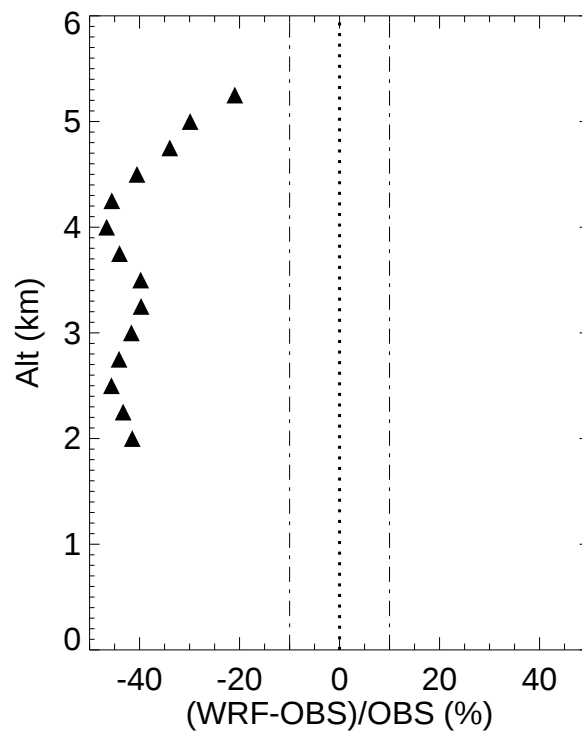
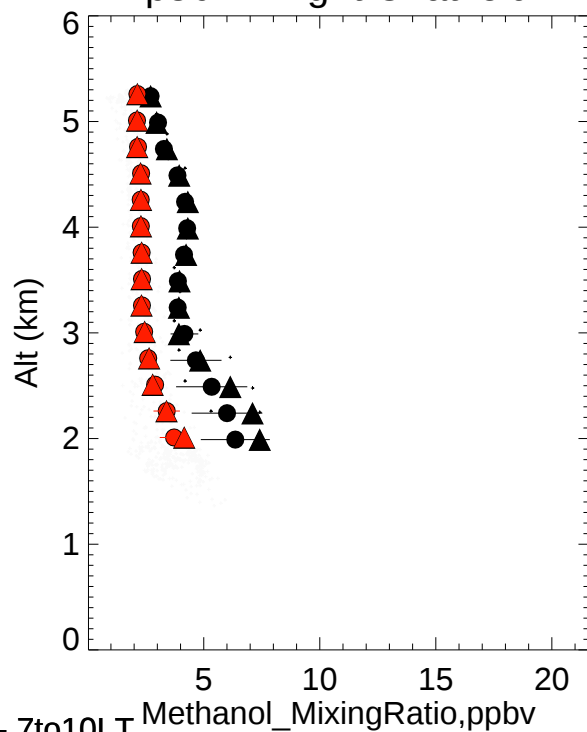


BTX- 7to10LT

p3b All flight LaCasa



p3b All flight Chatfield



BTX- 7to10LT