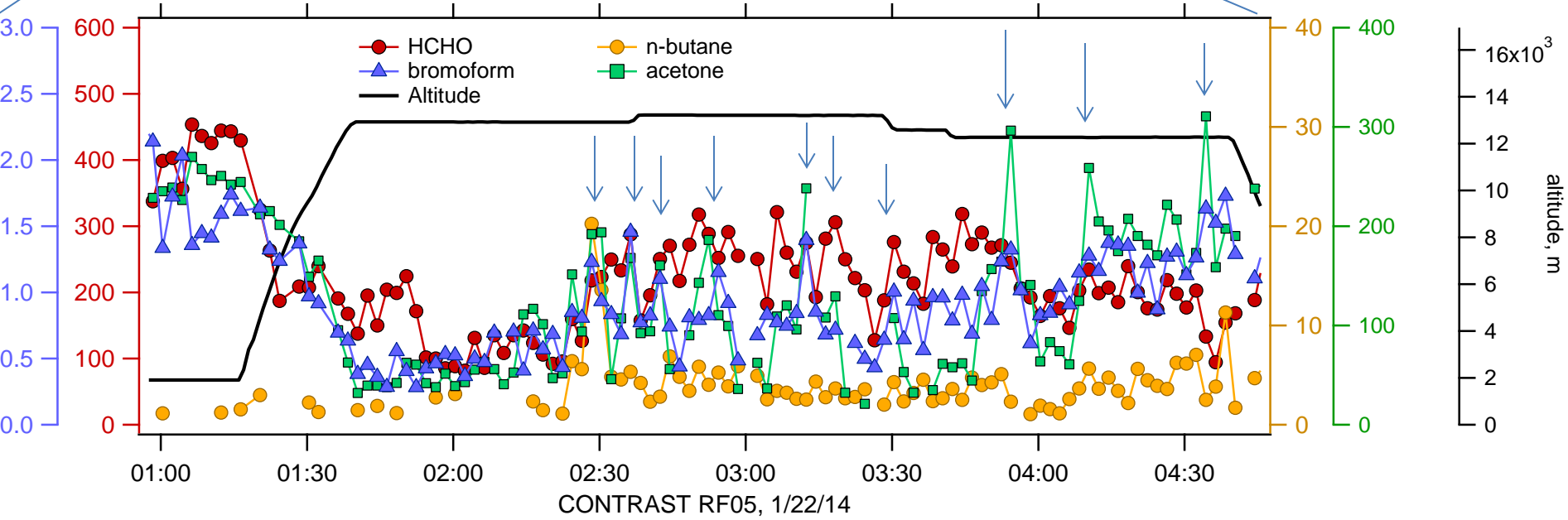
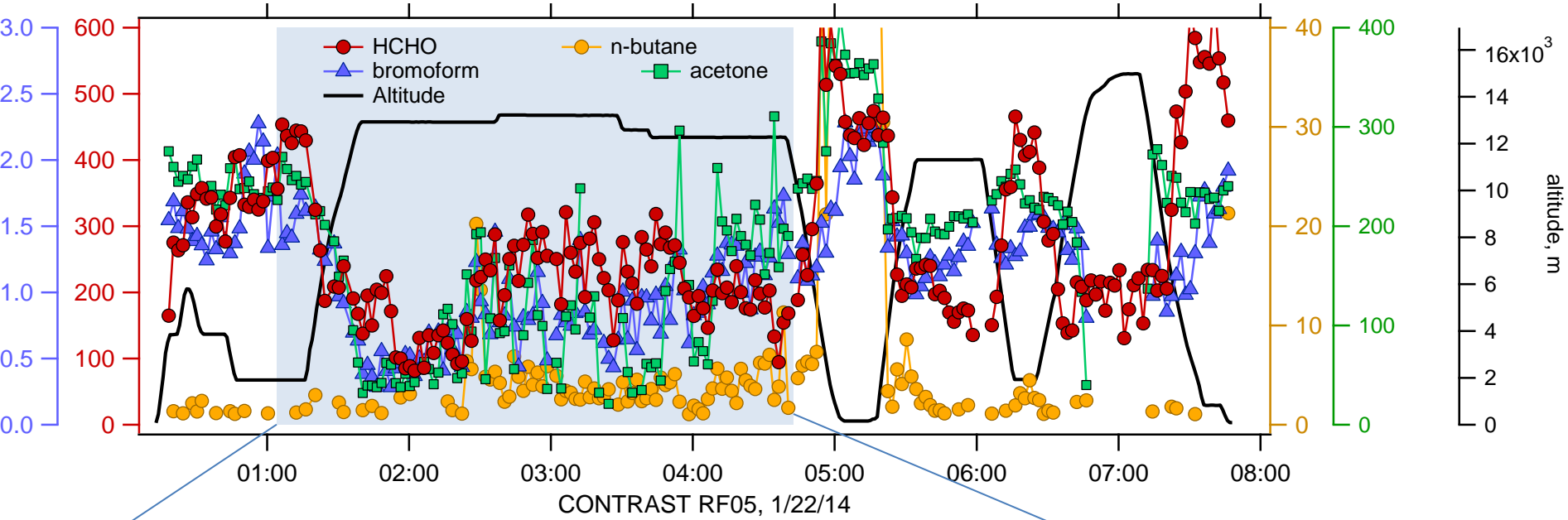


Overview of RF01-RF10 TOGA VOC data

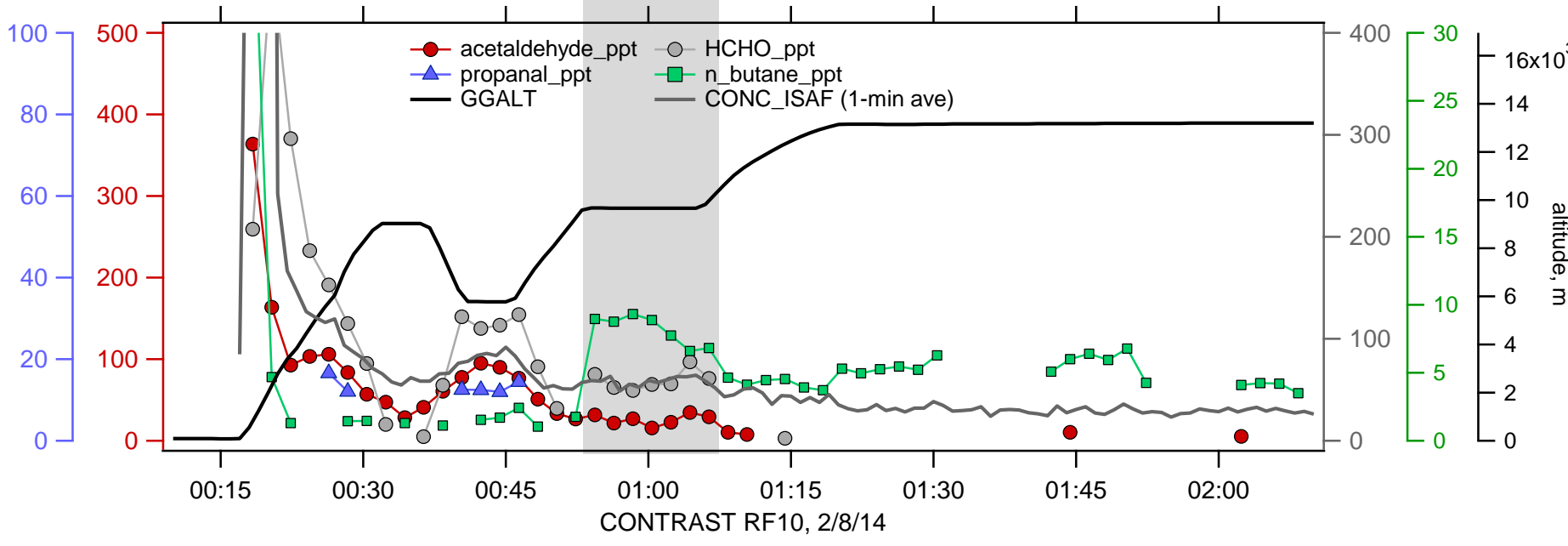
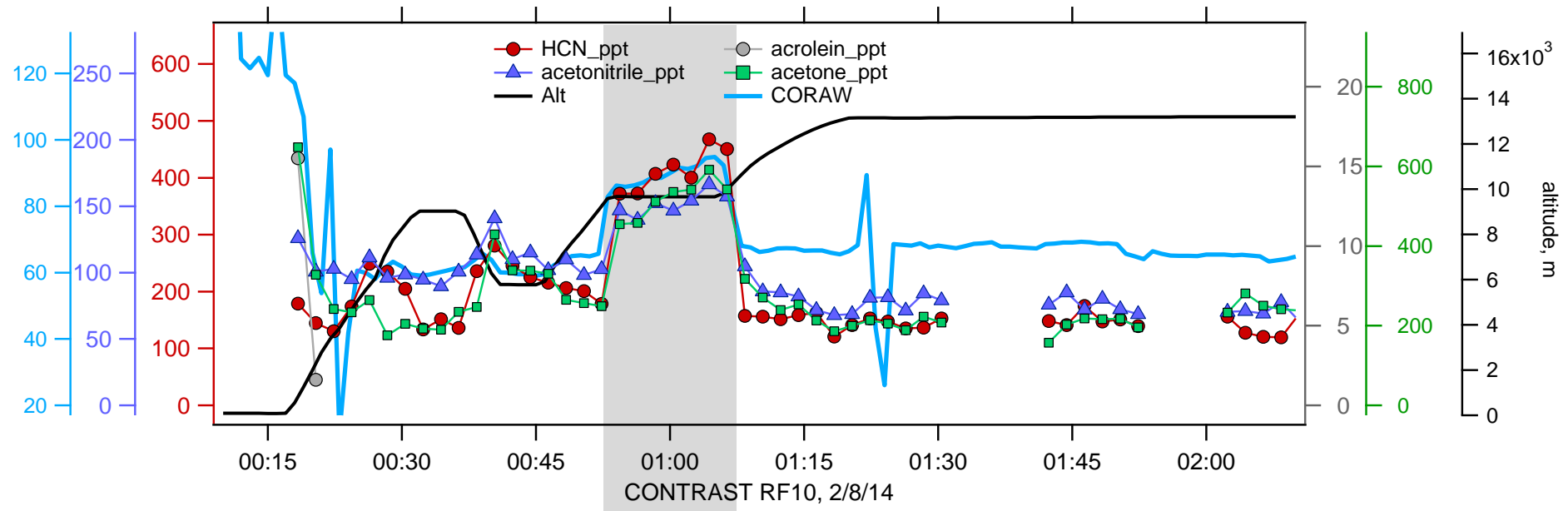
**Rebecca Hornbrook, Eric Apel, Alan Hills (ACD, NCAR)
Dan Riemer (U. Miami)
Nicola Blake, Stacey Hughes (UC Irvine)**

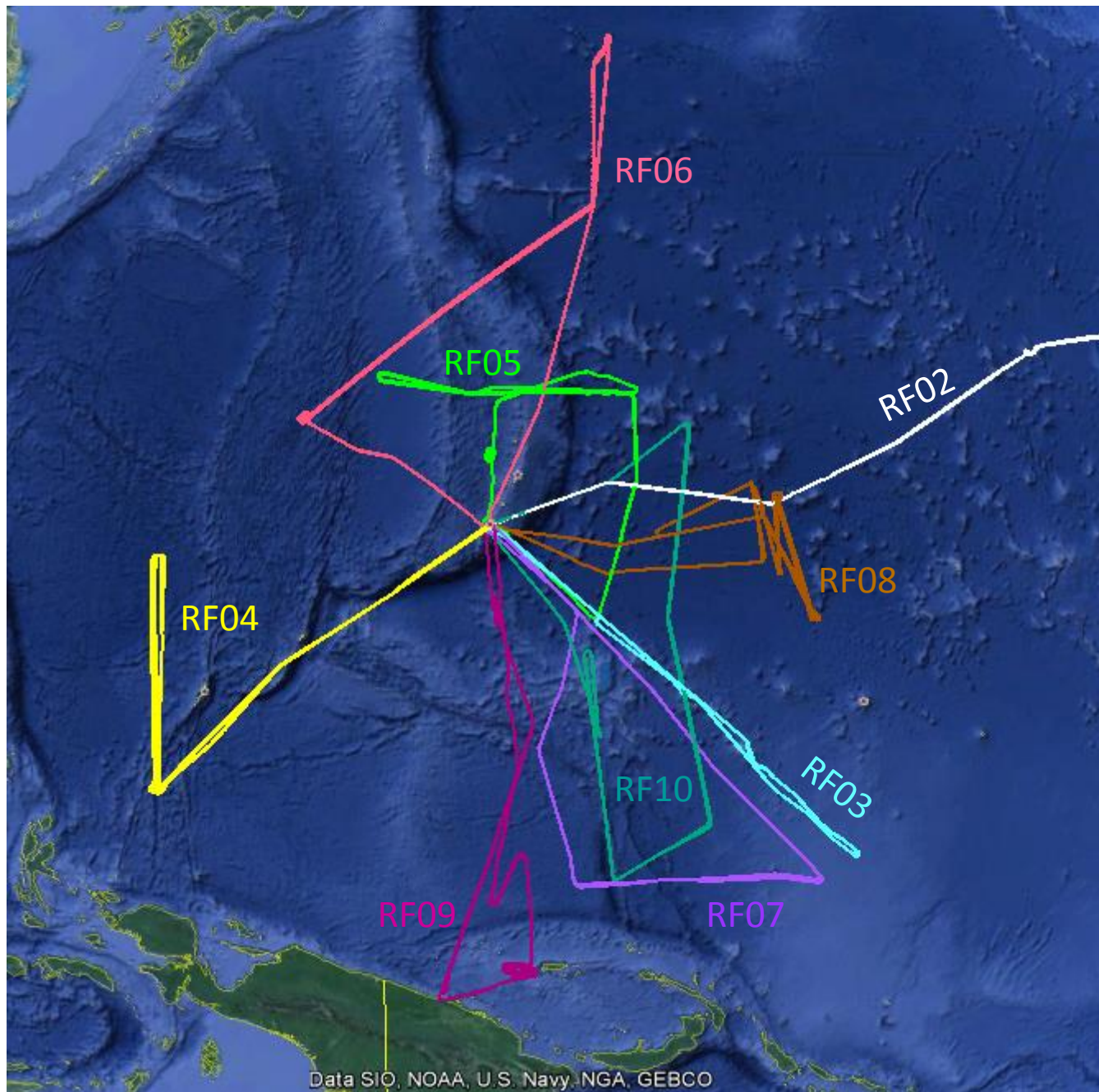
12-Feb-14 science meeting

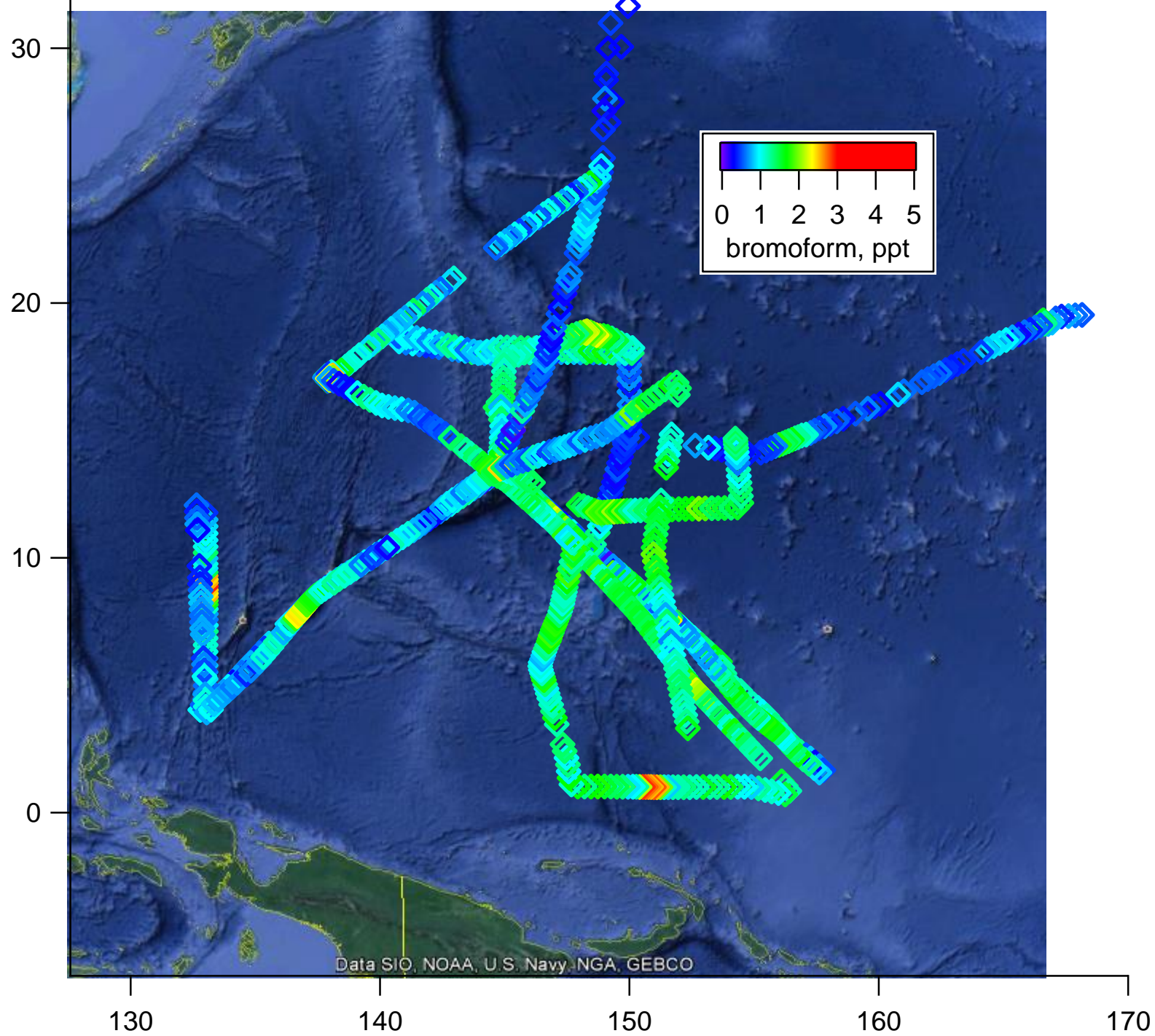
Evidence of Convection during RF05

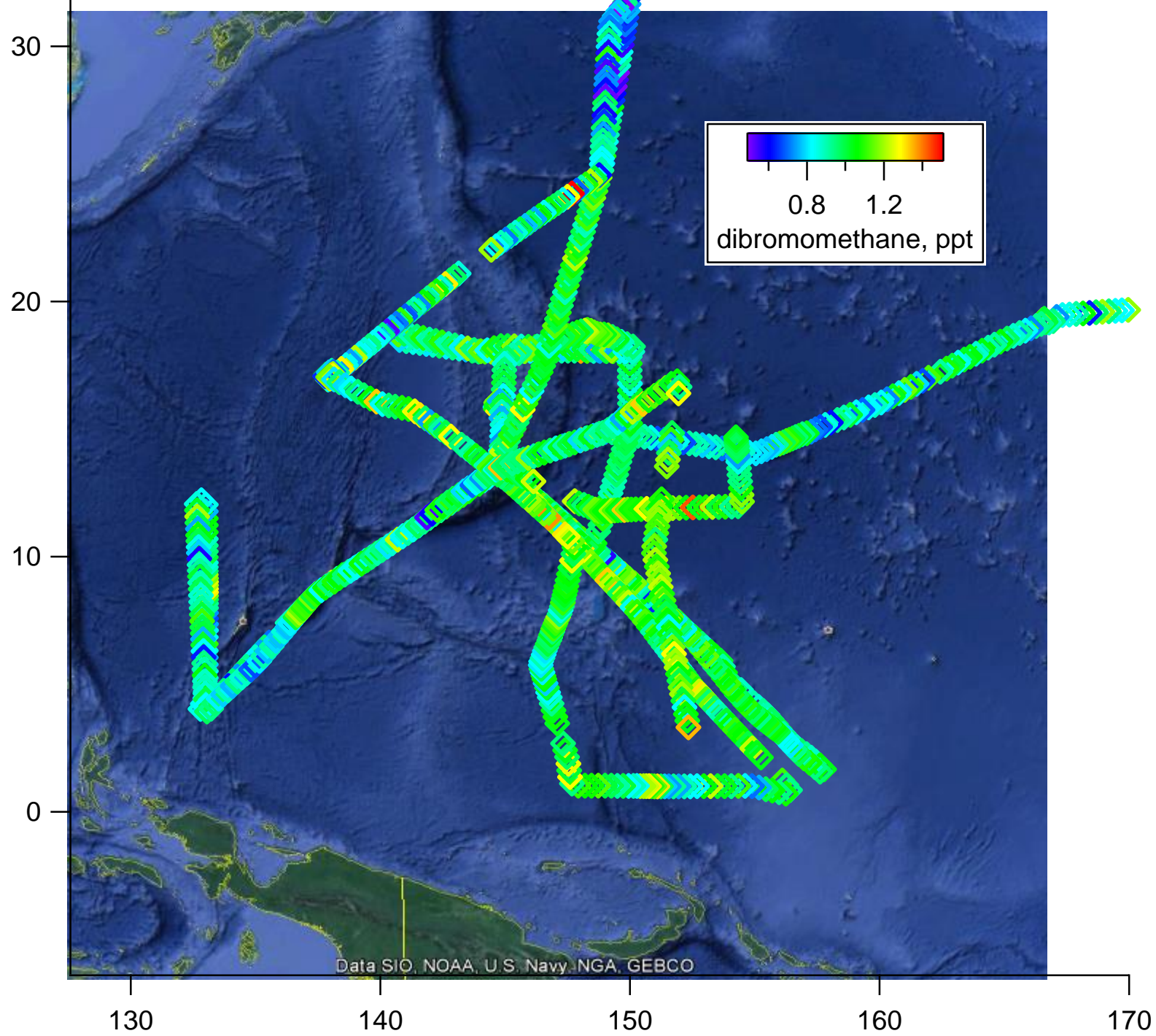


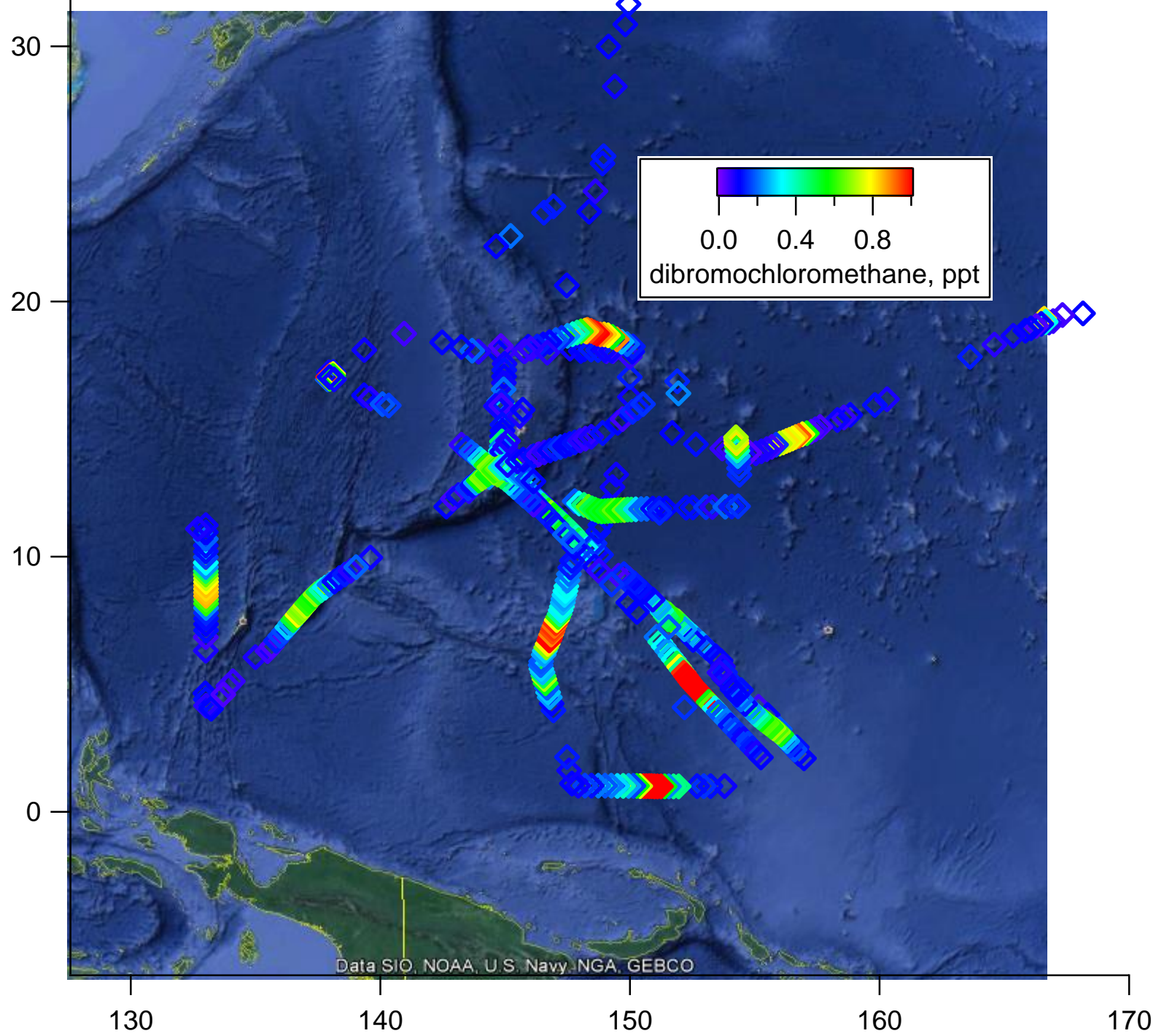
RF10 "CO River" – AKA Indonesian Biomass Burning plume

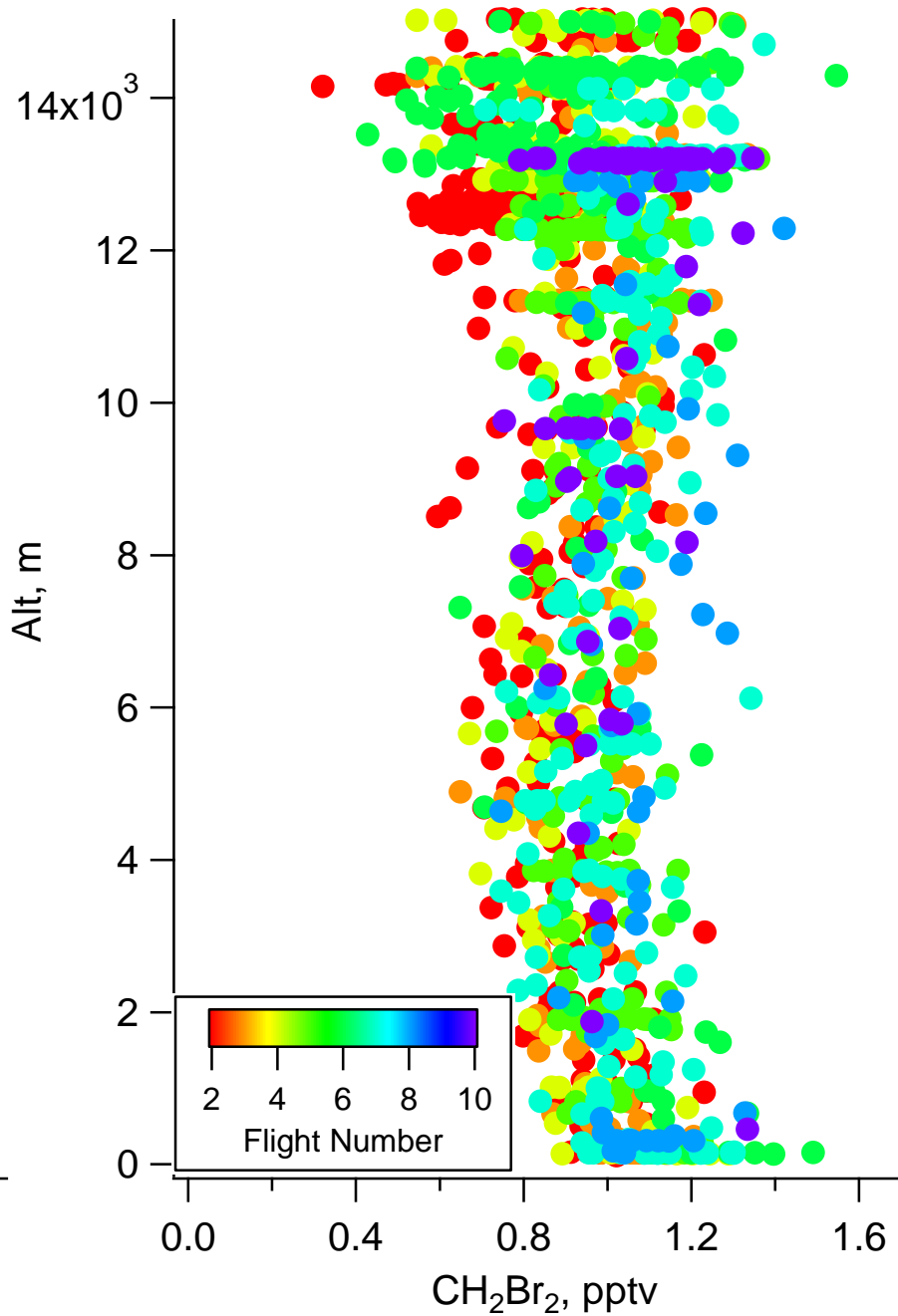
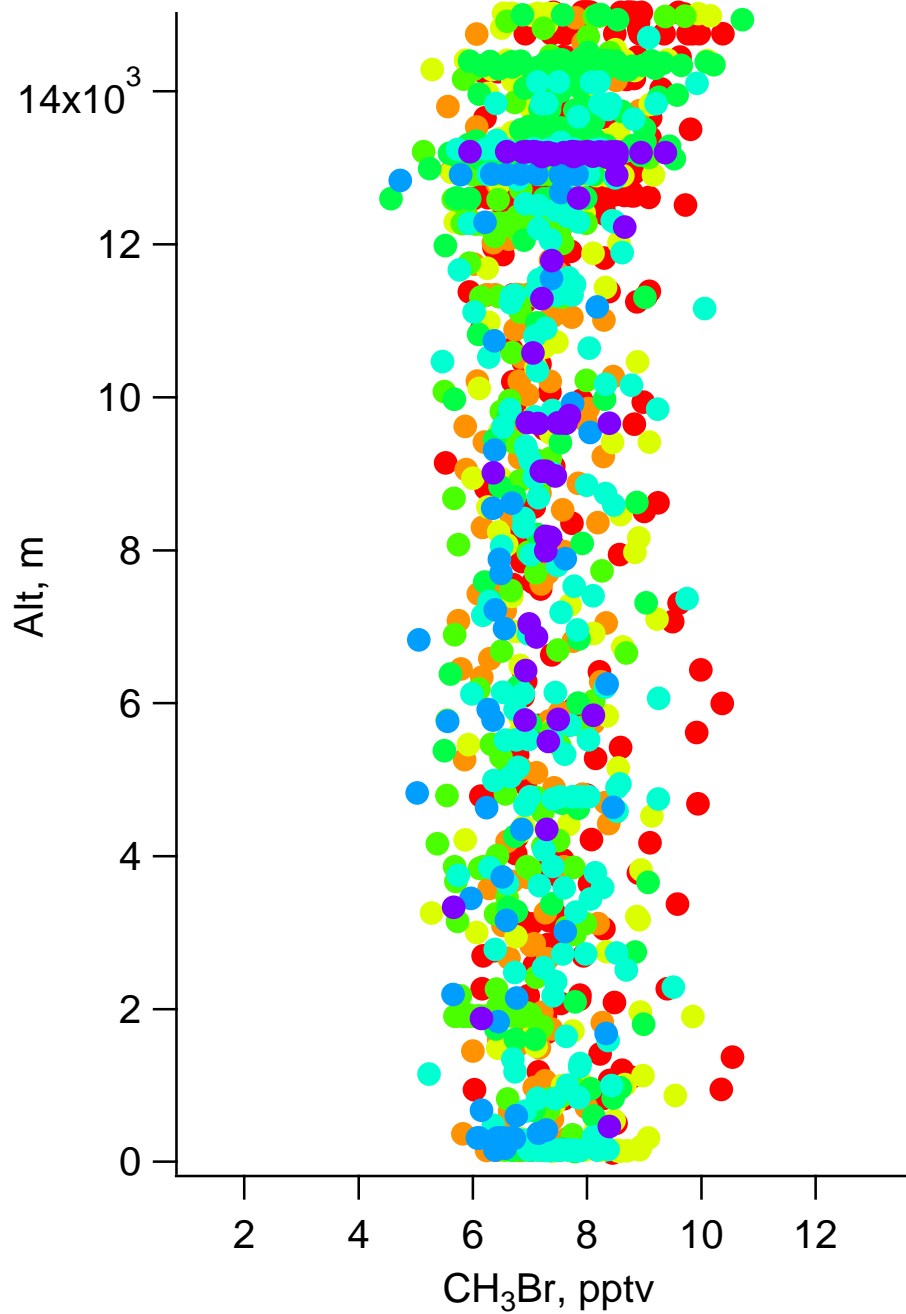


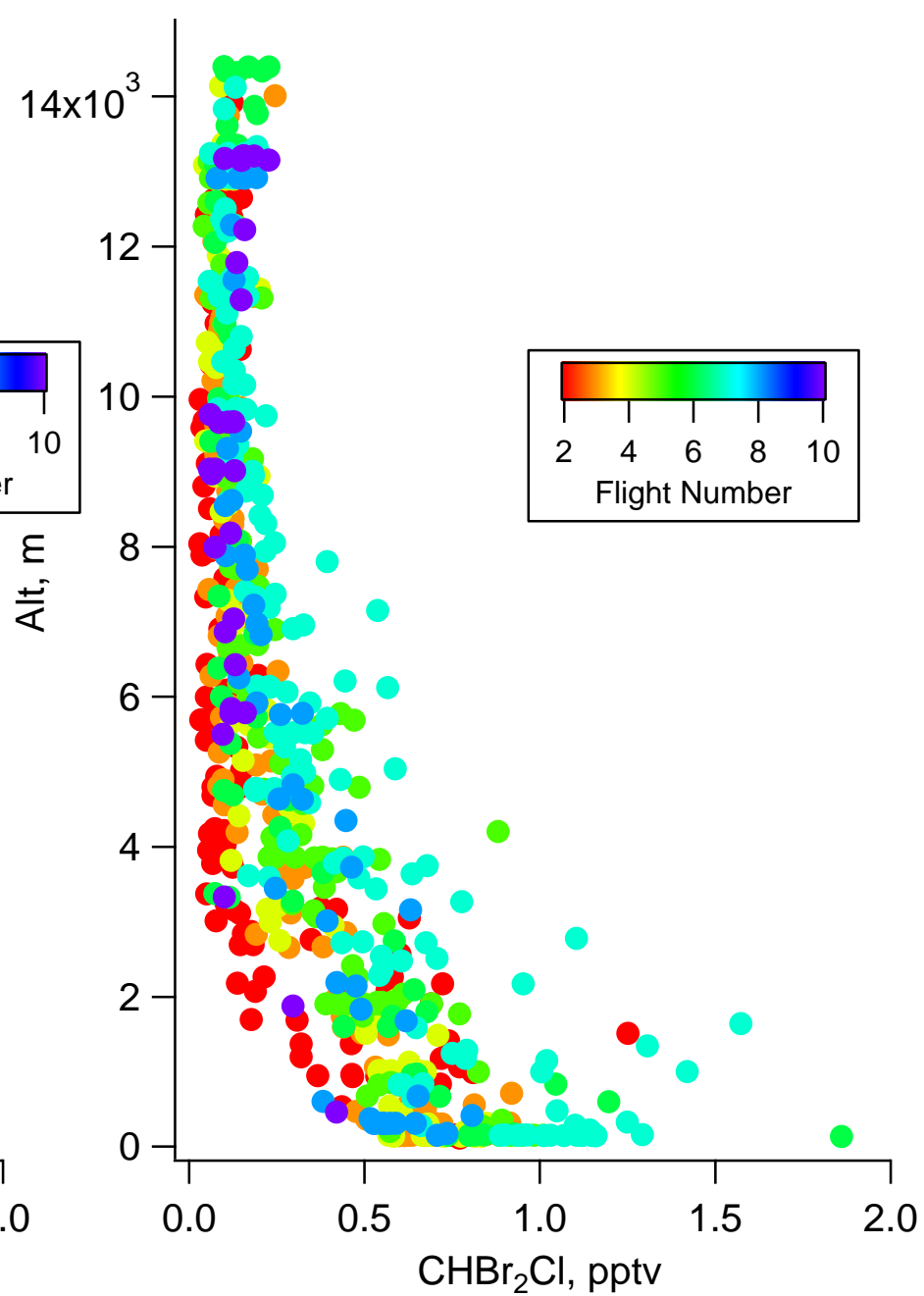
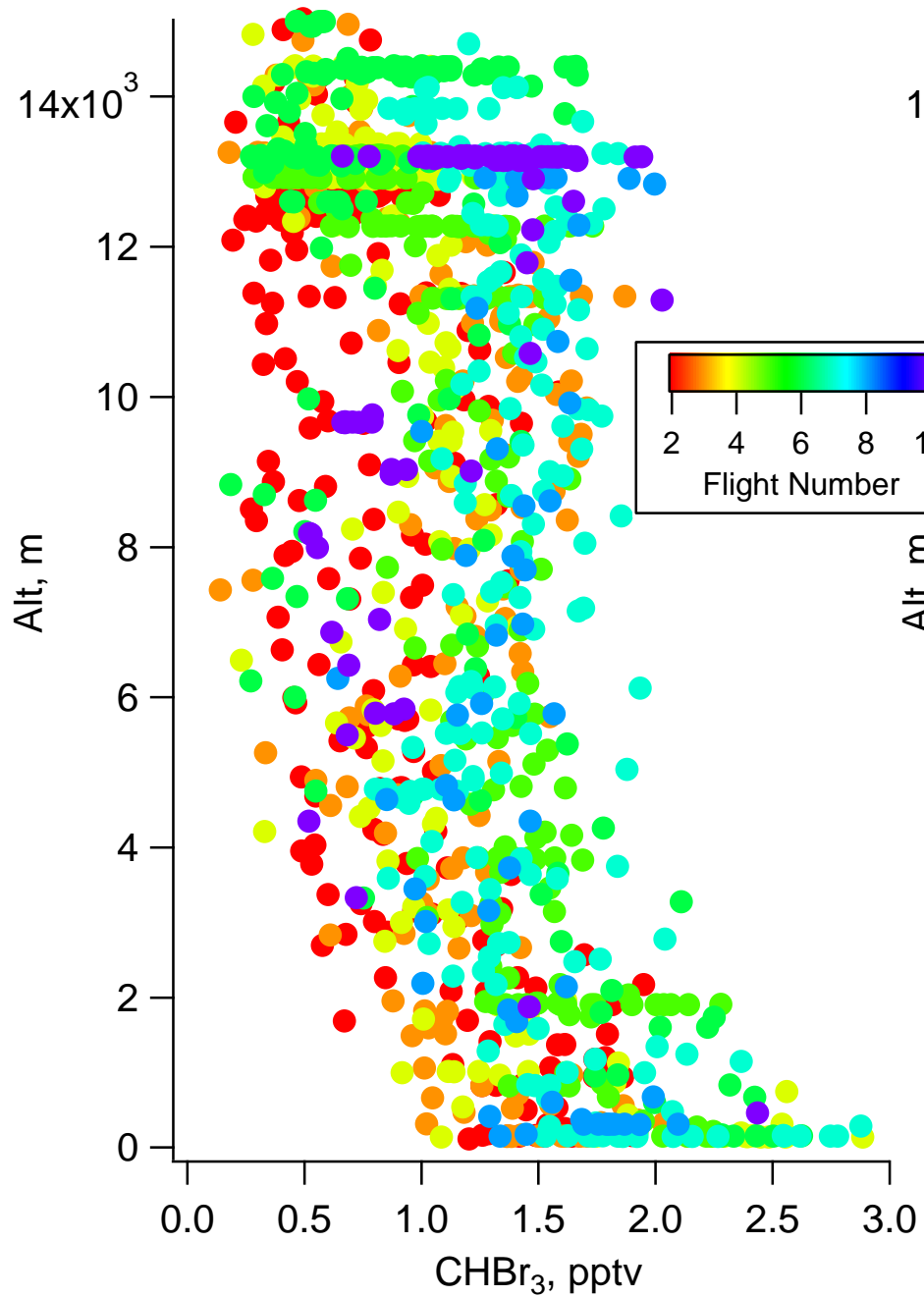


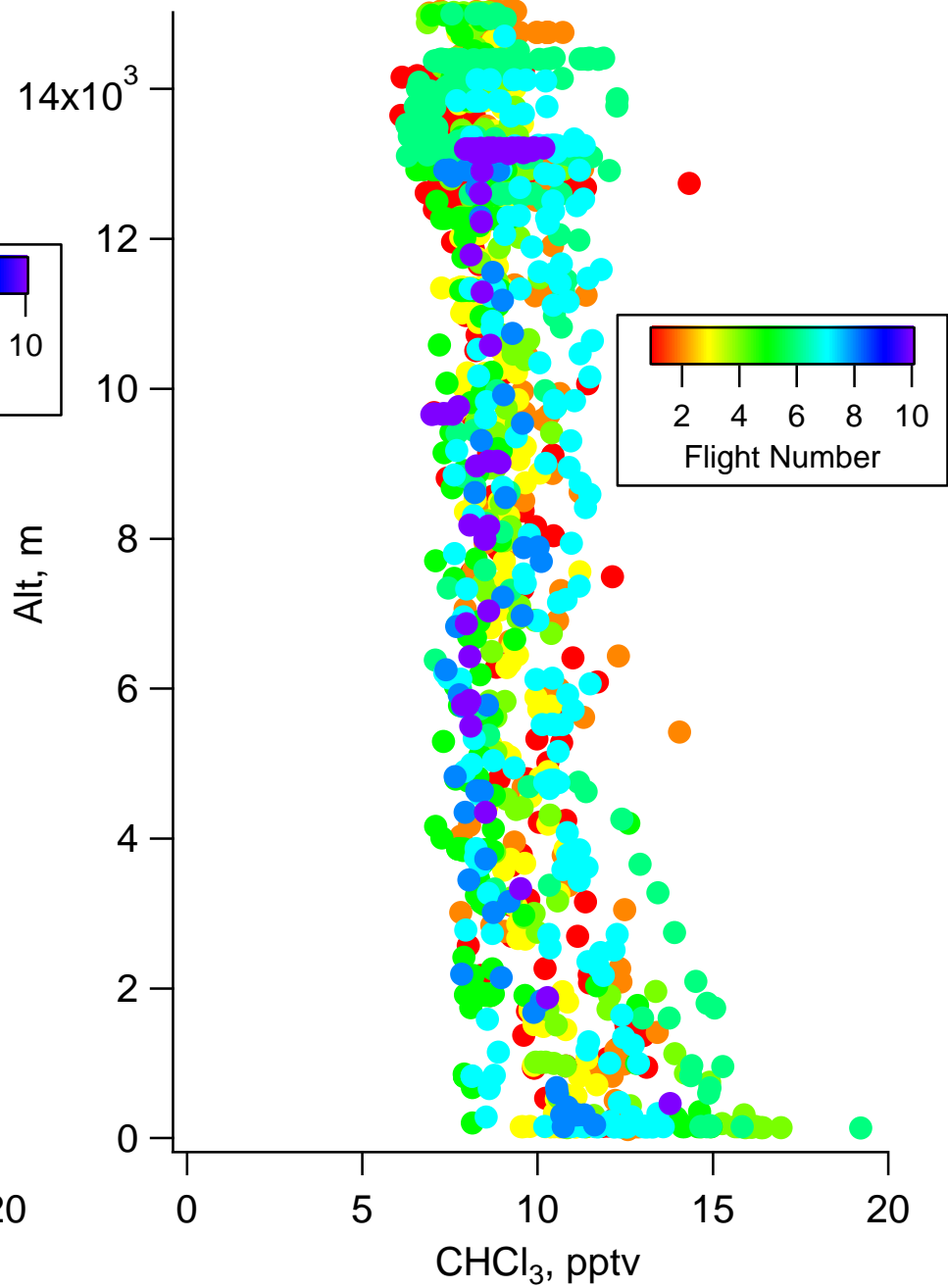
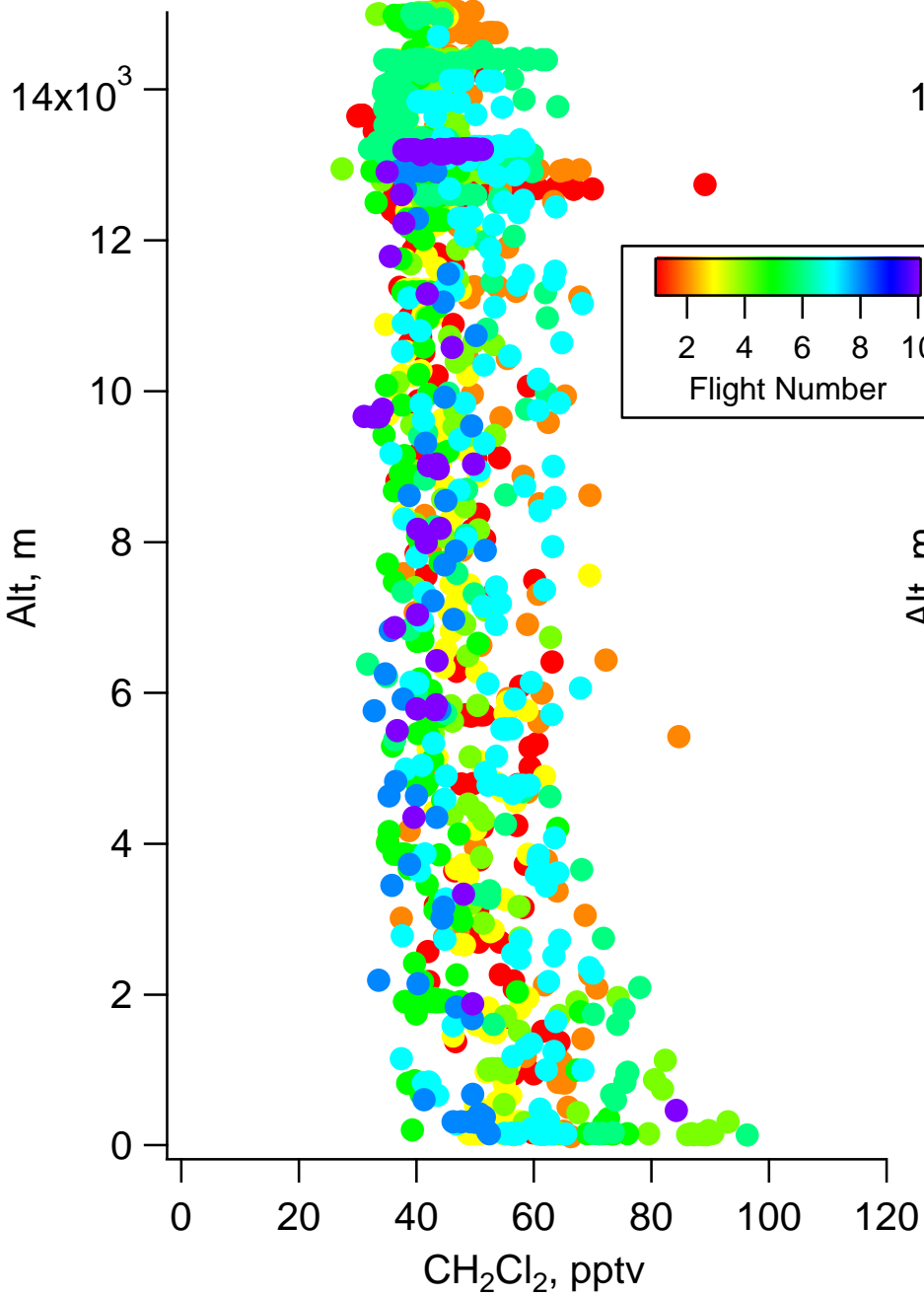


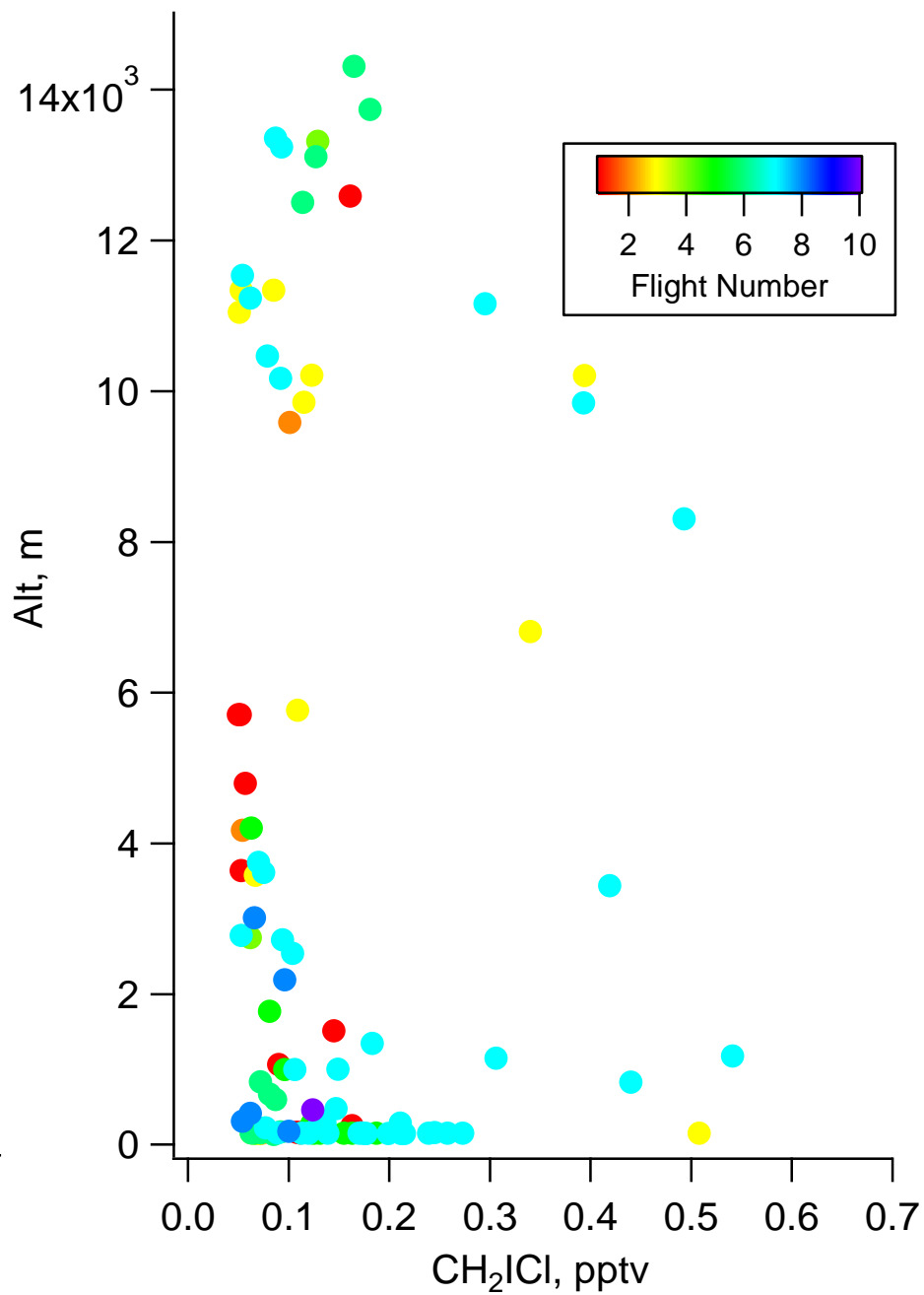
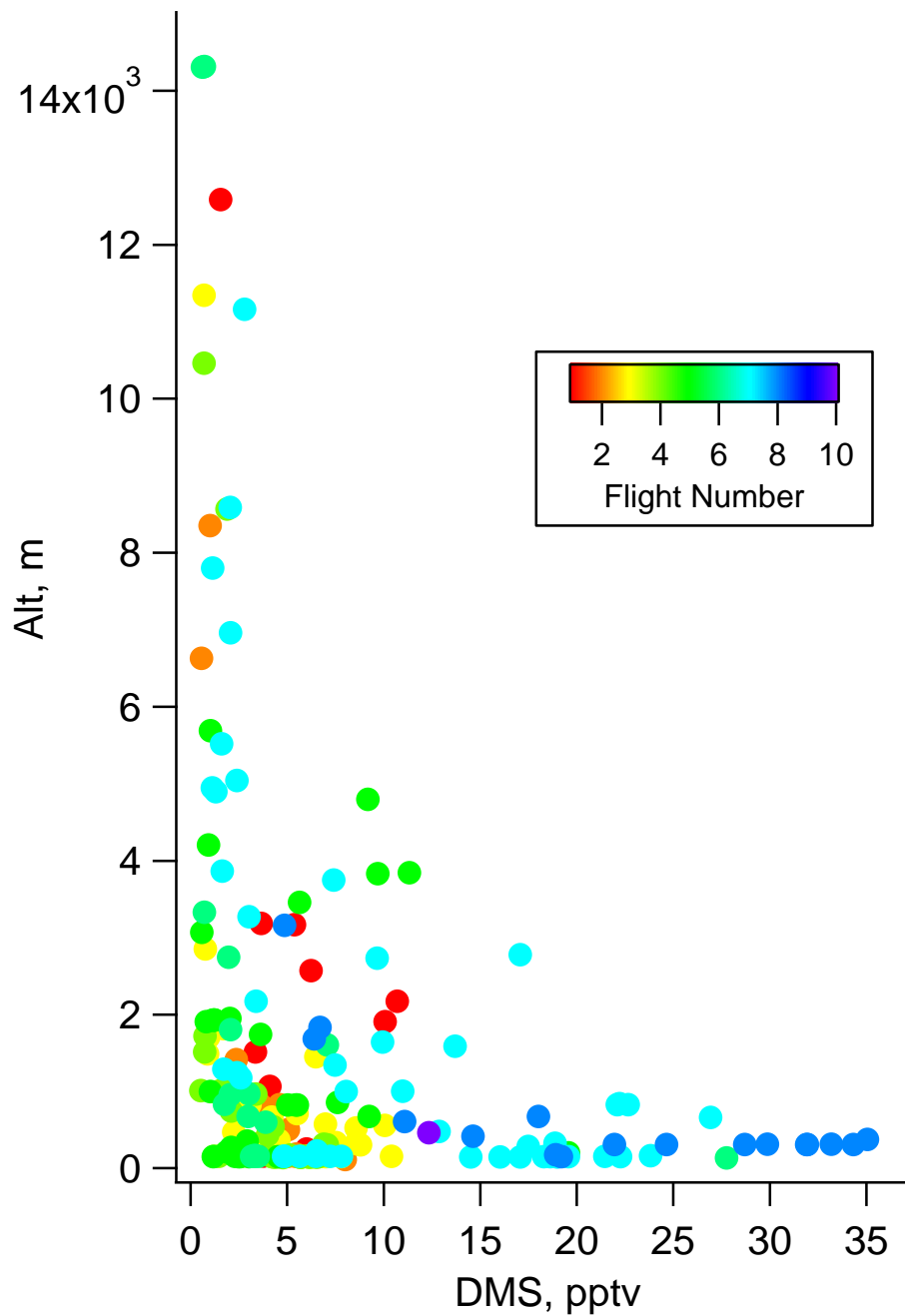


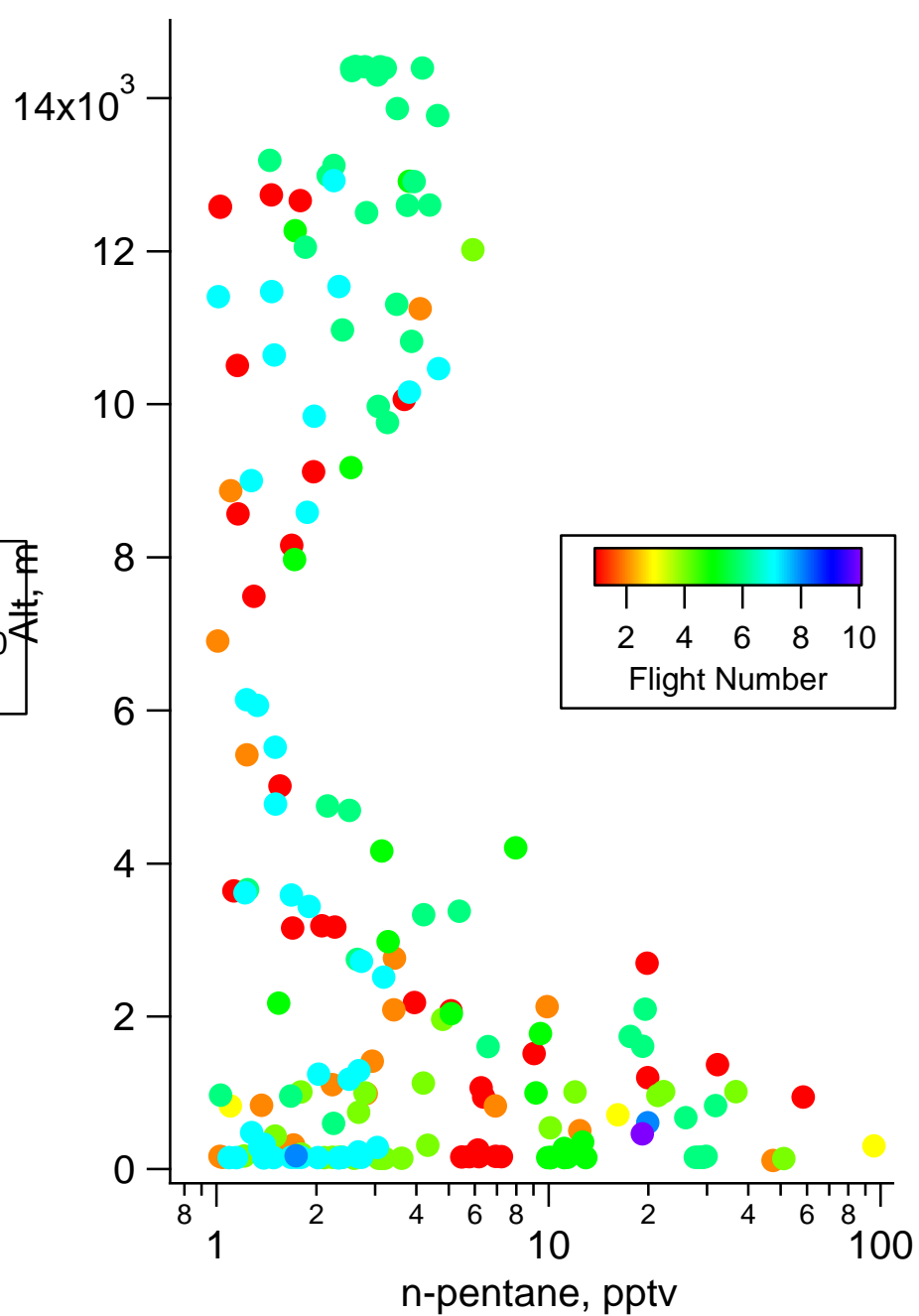
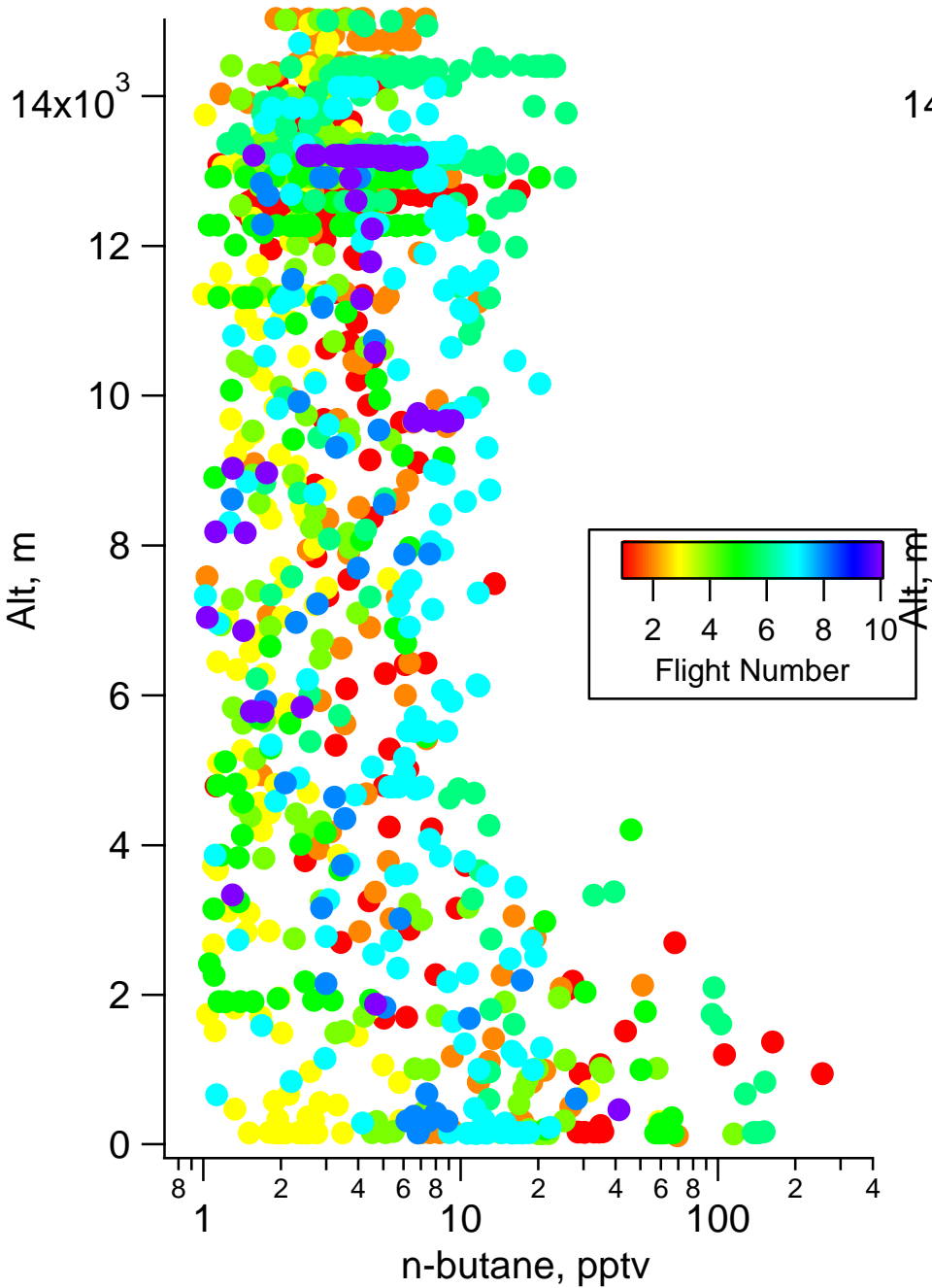


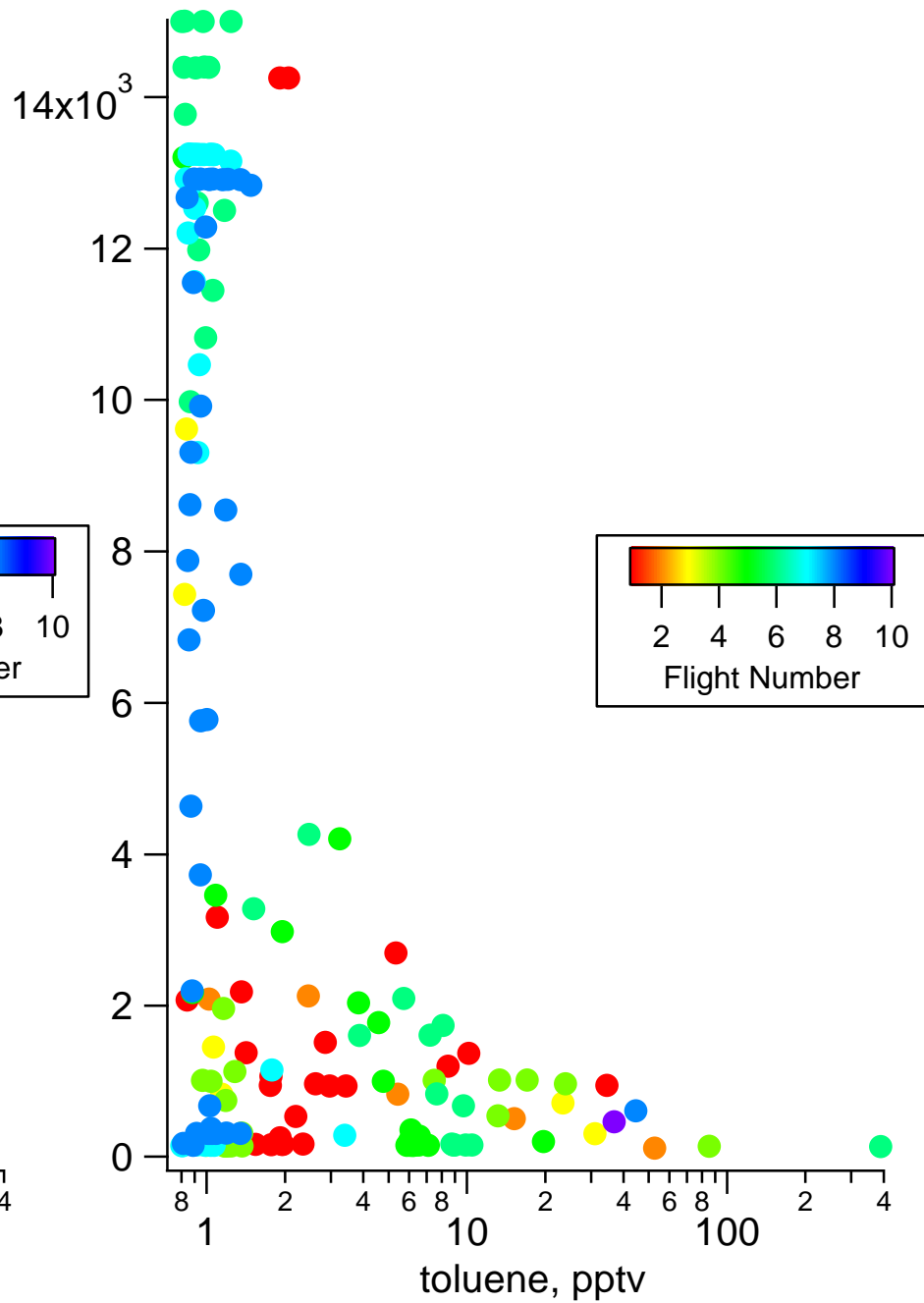
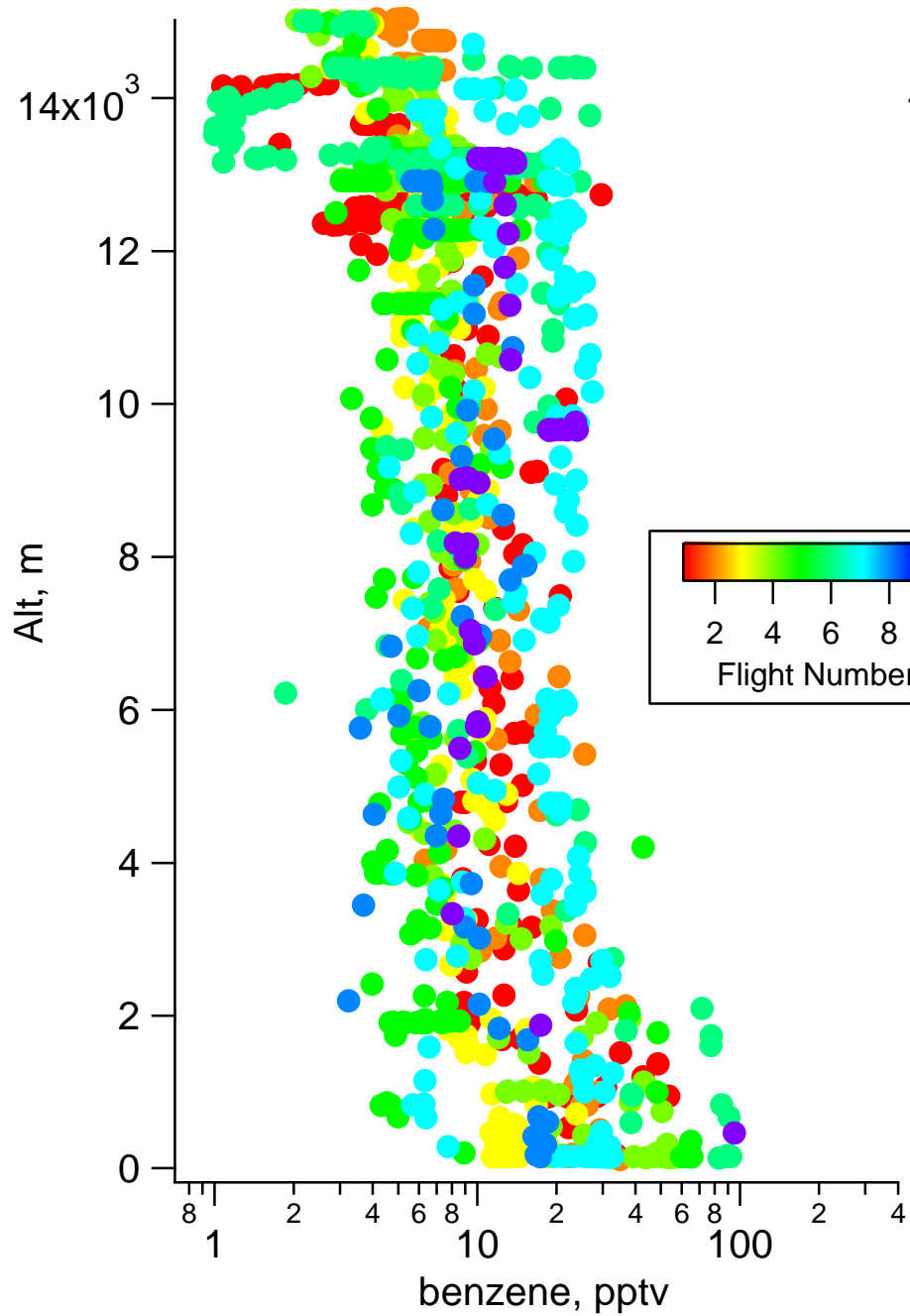


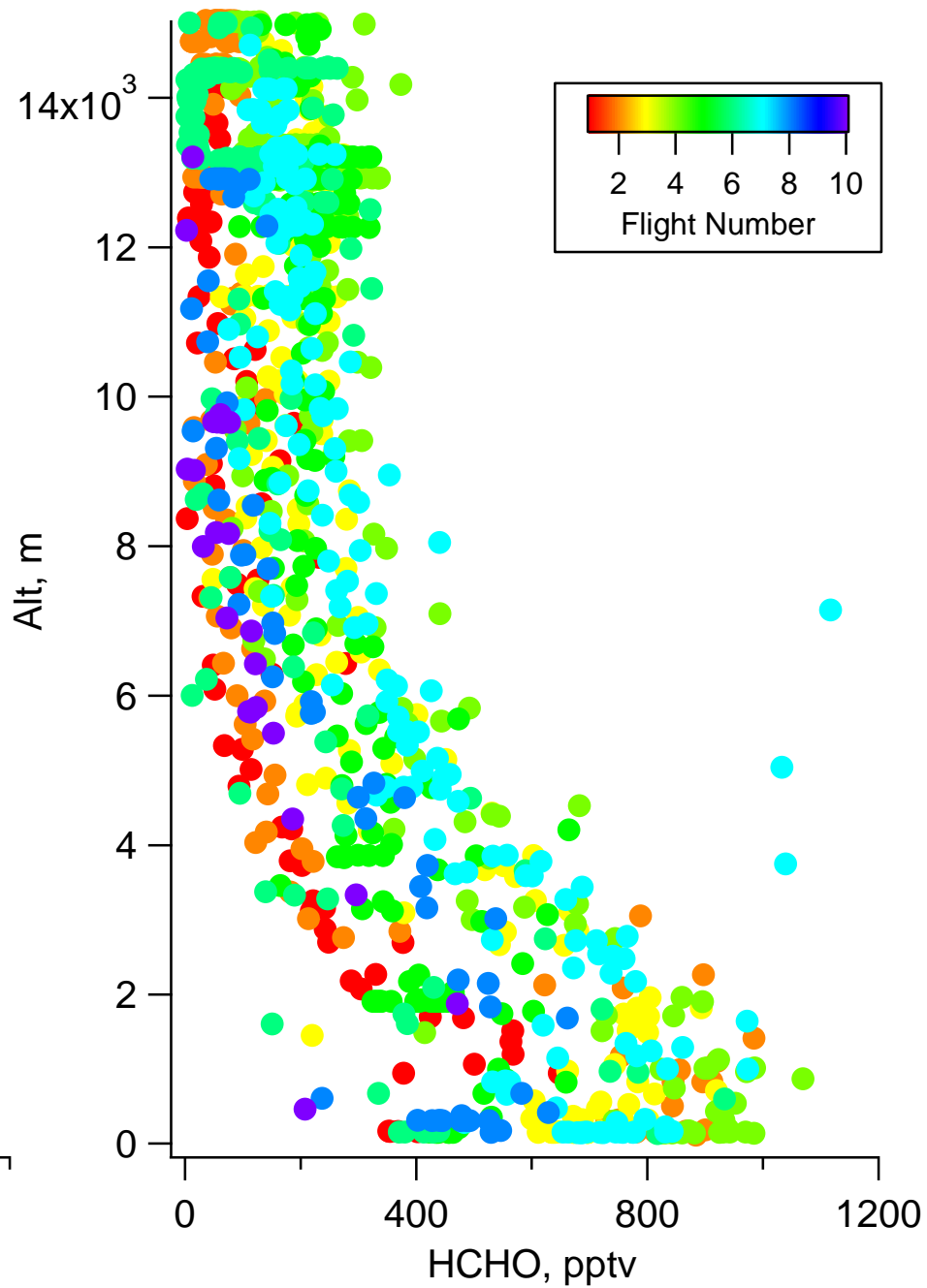
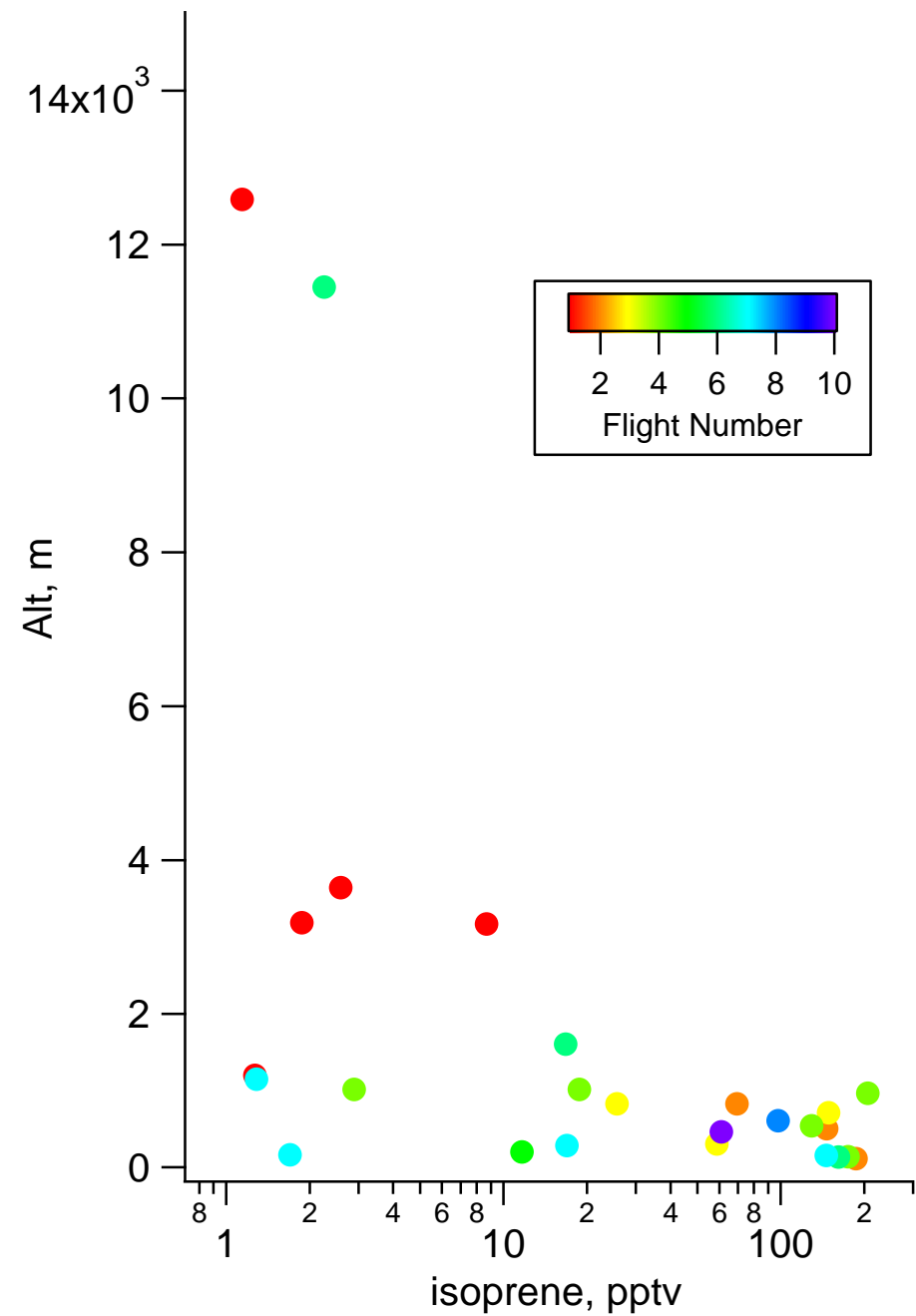


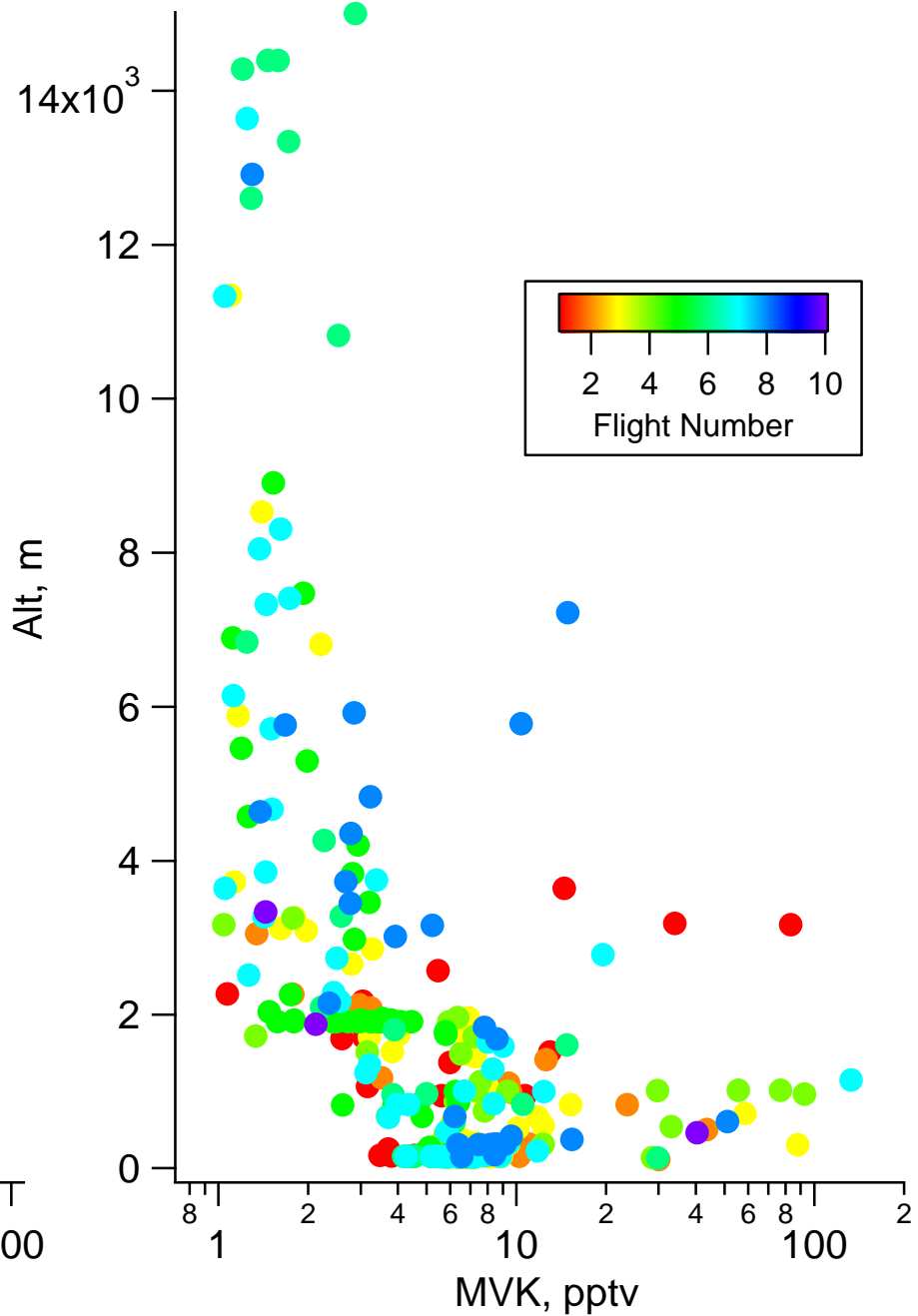
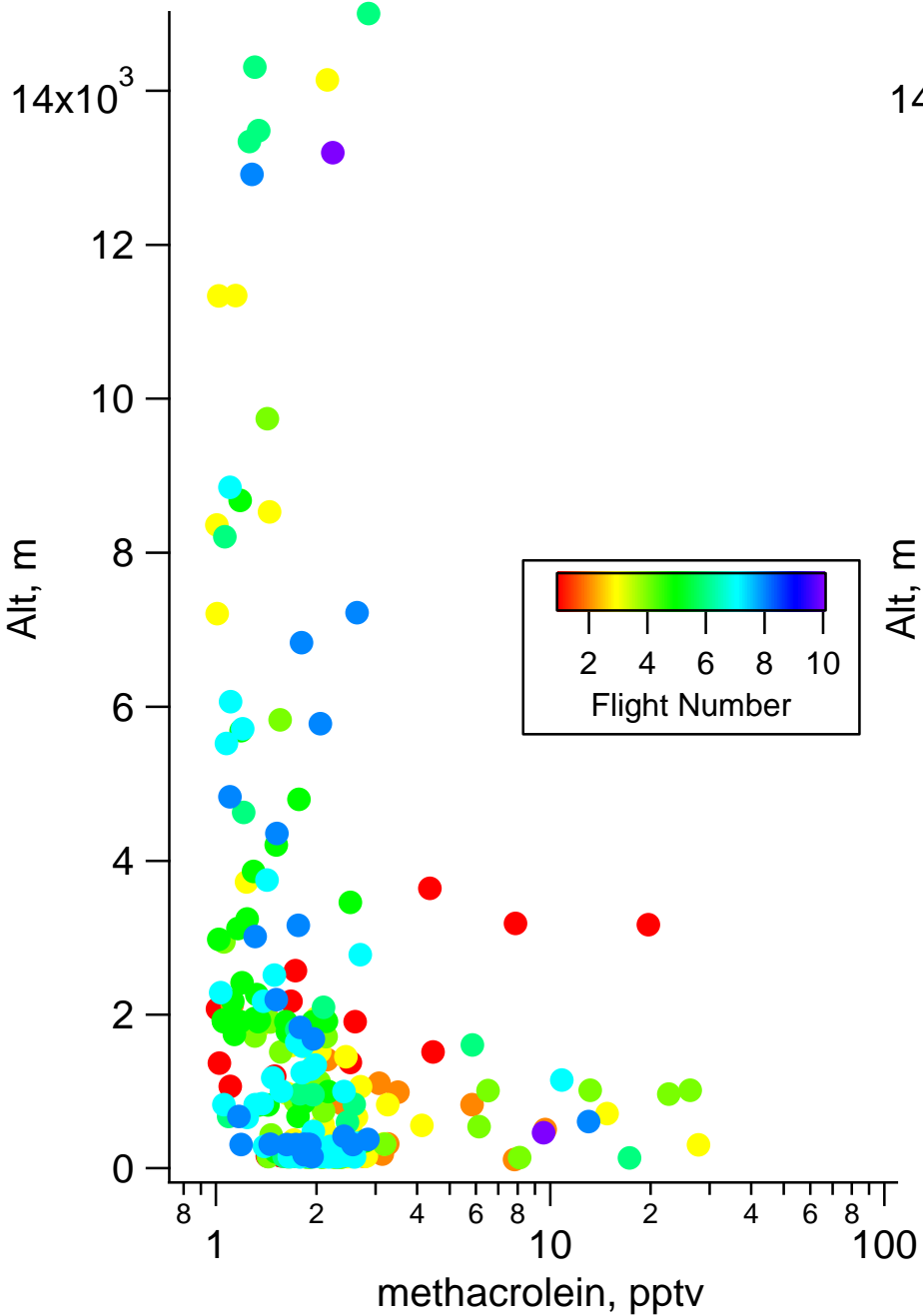


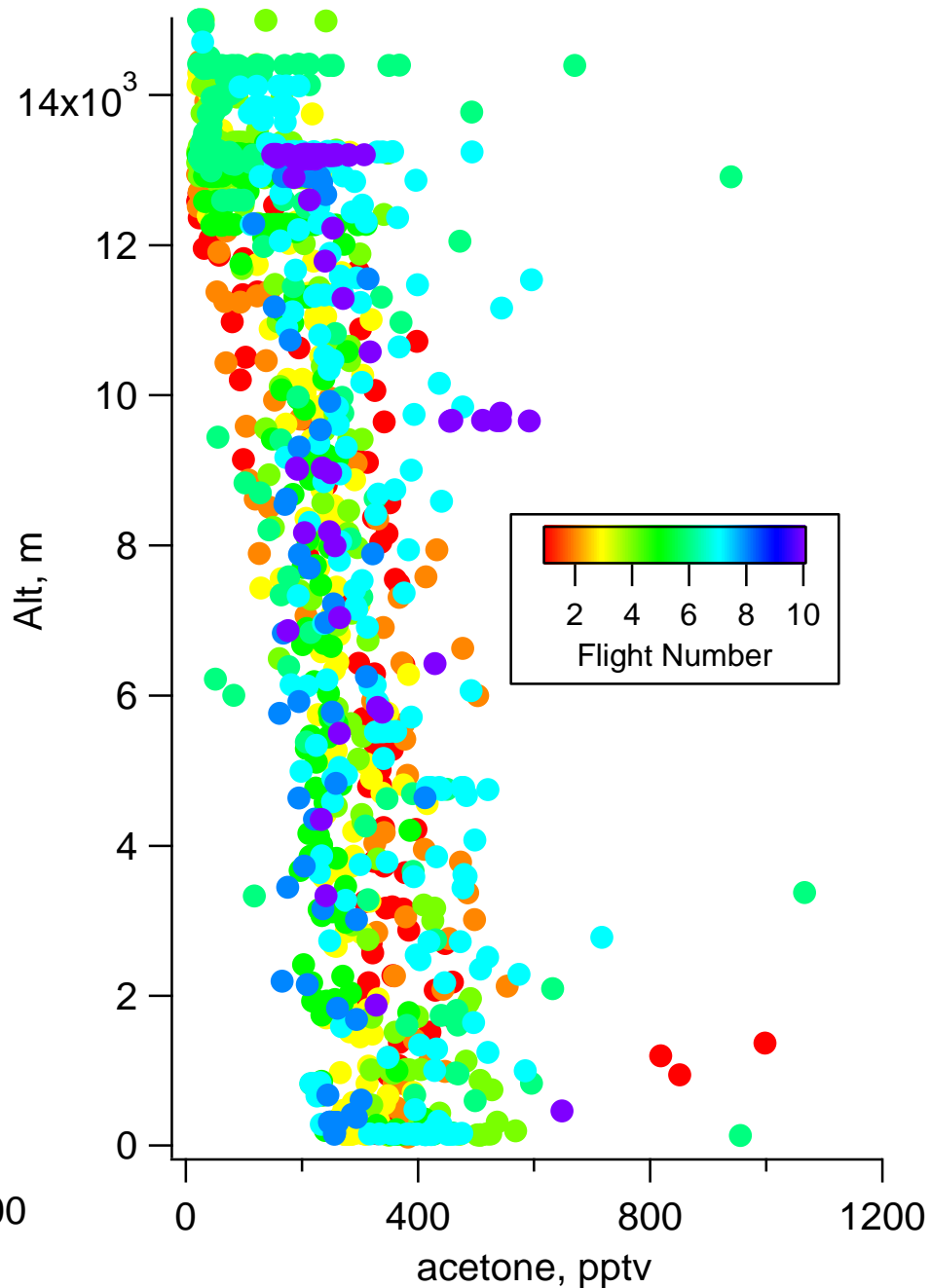
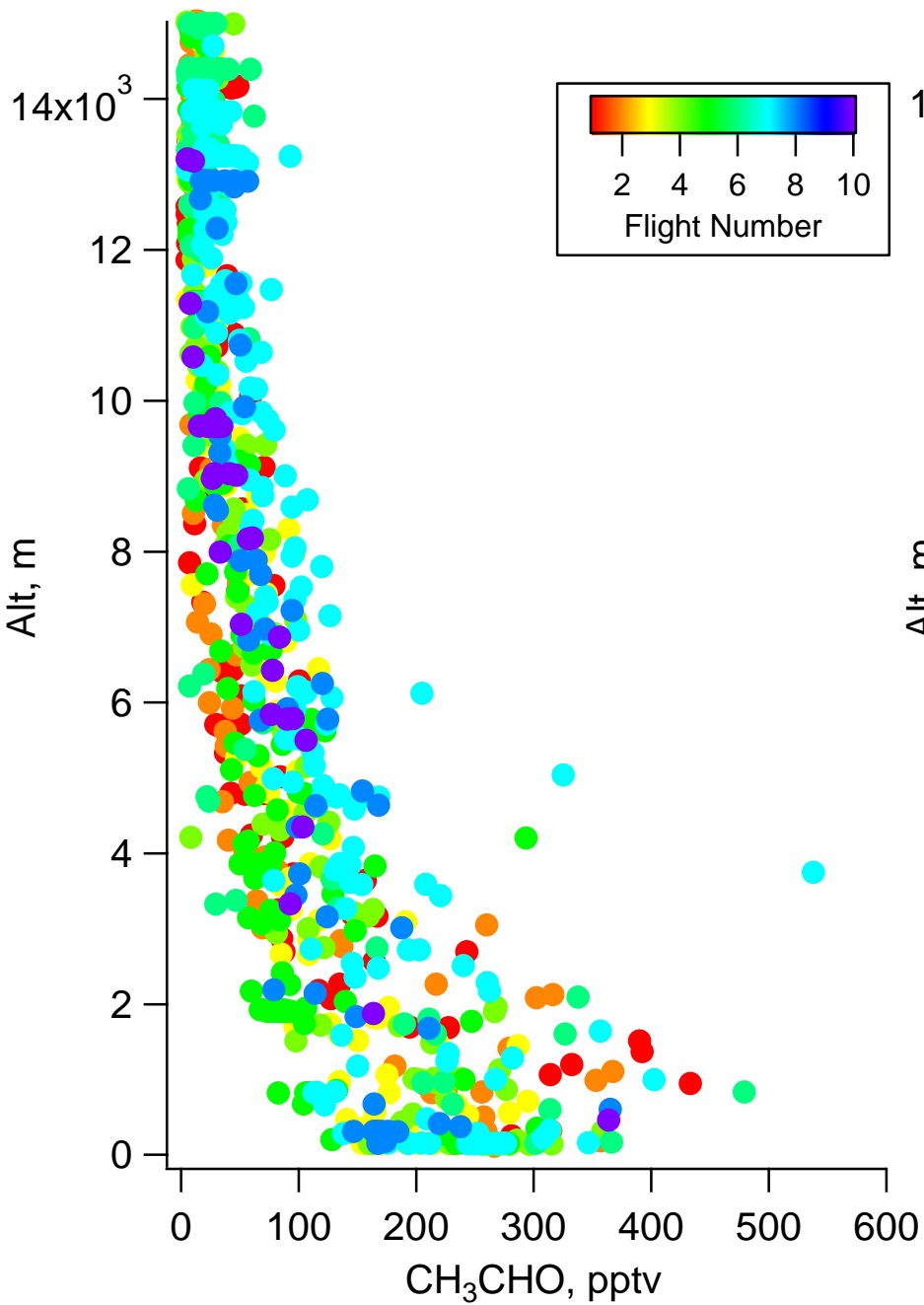


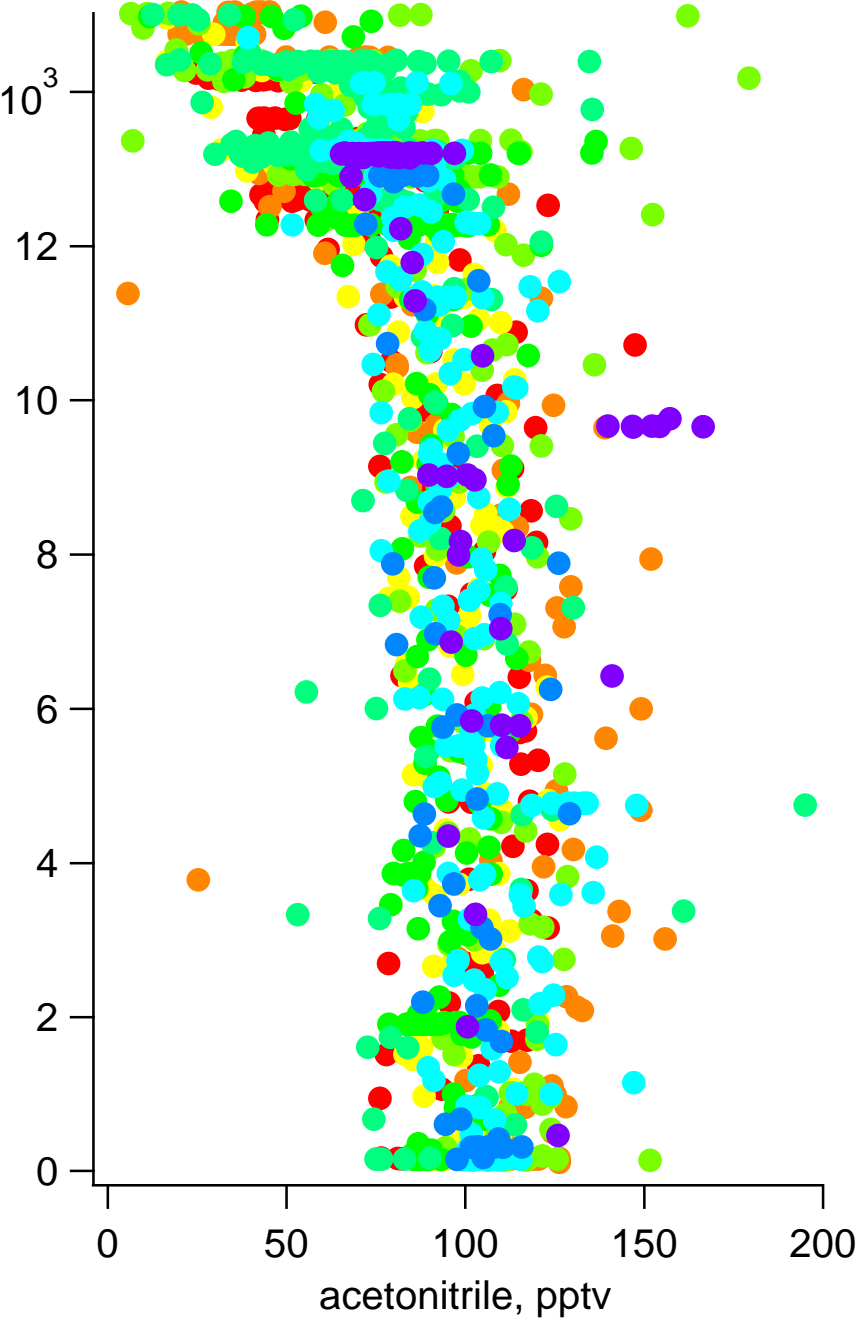
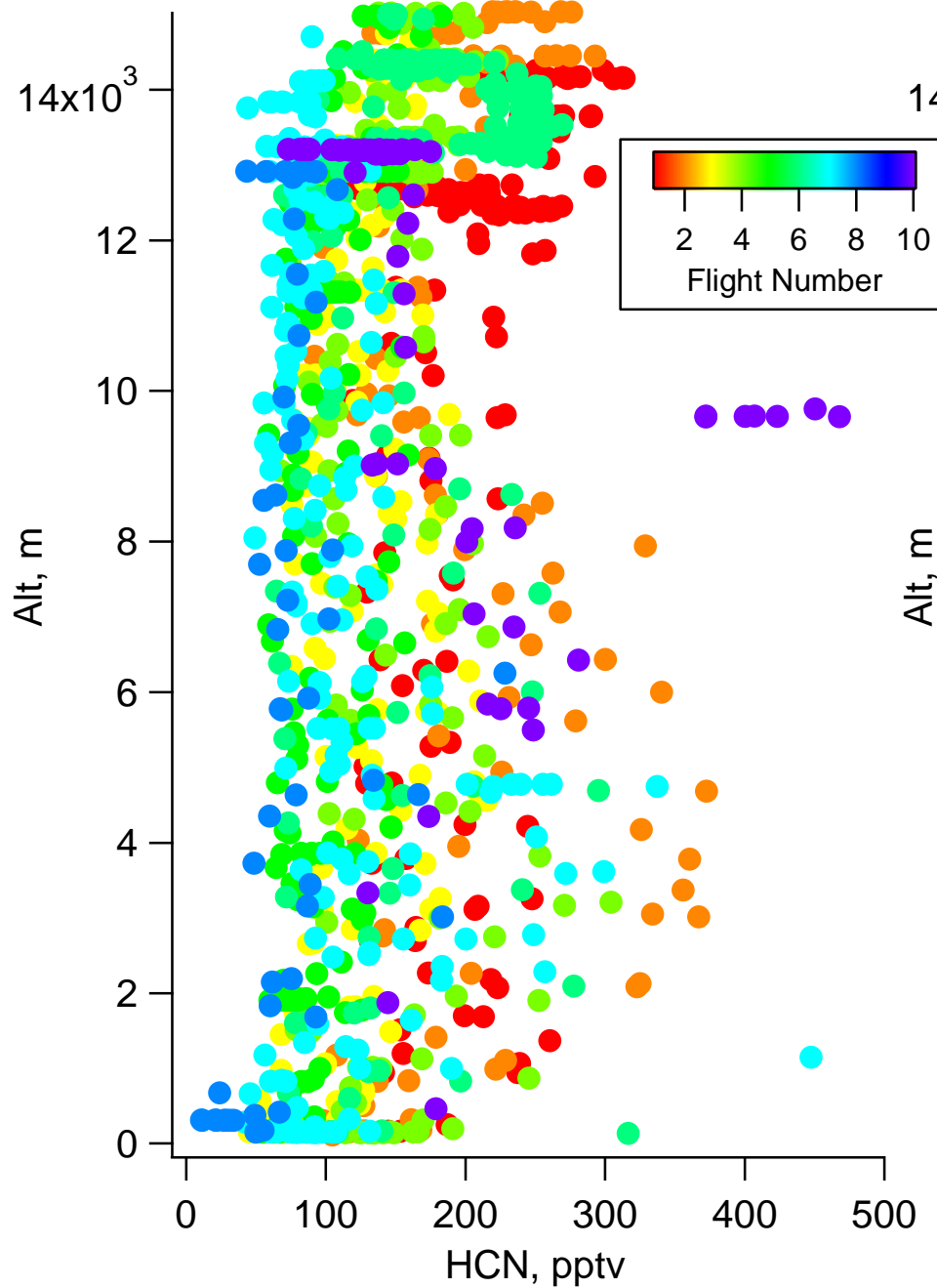












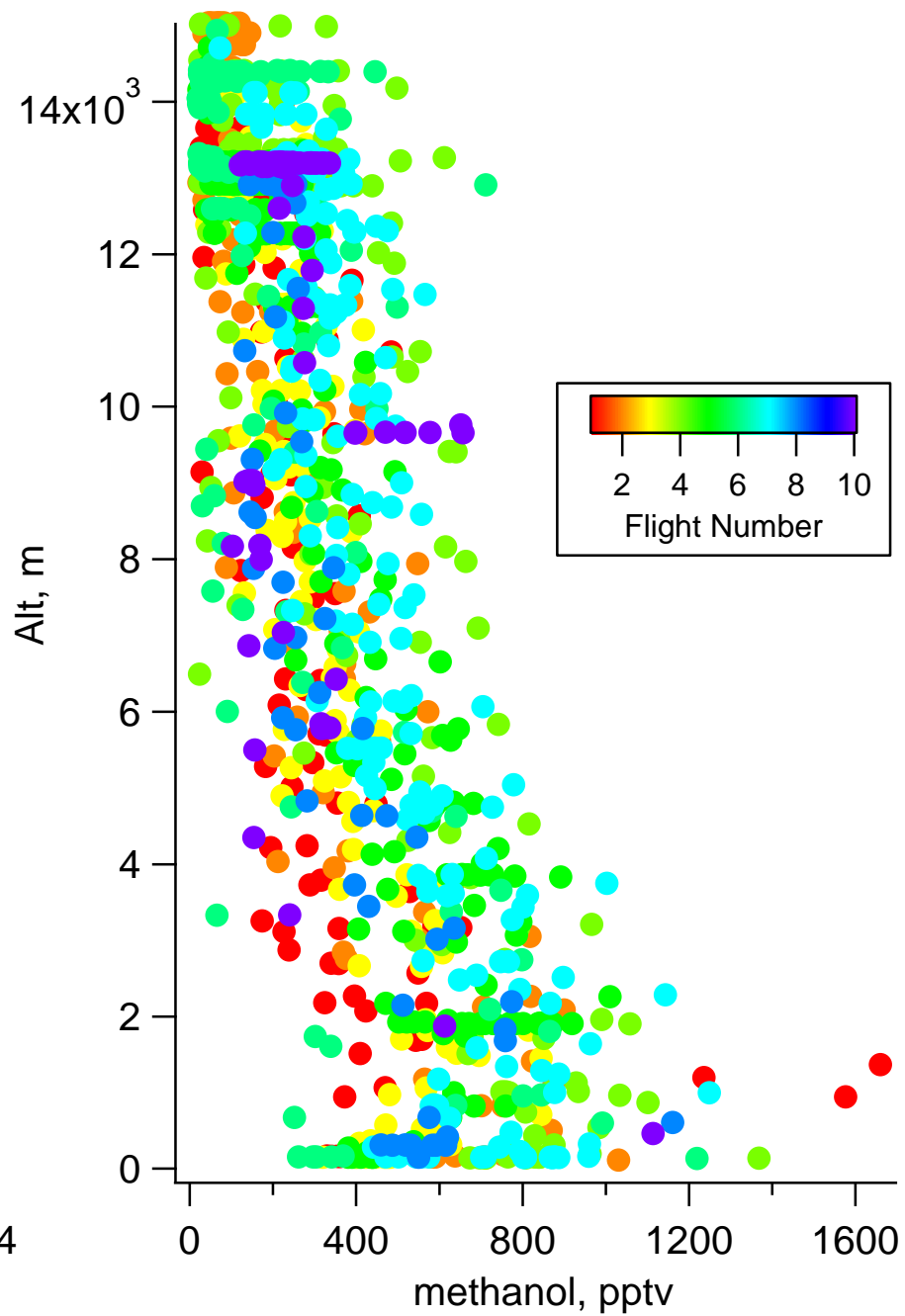
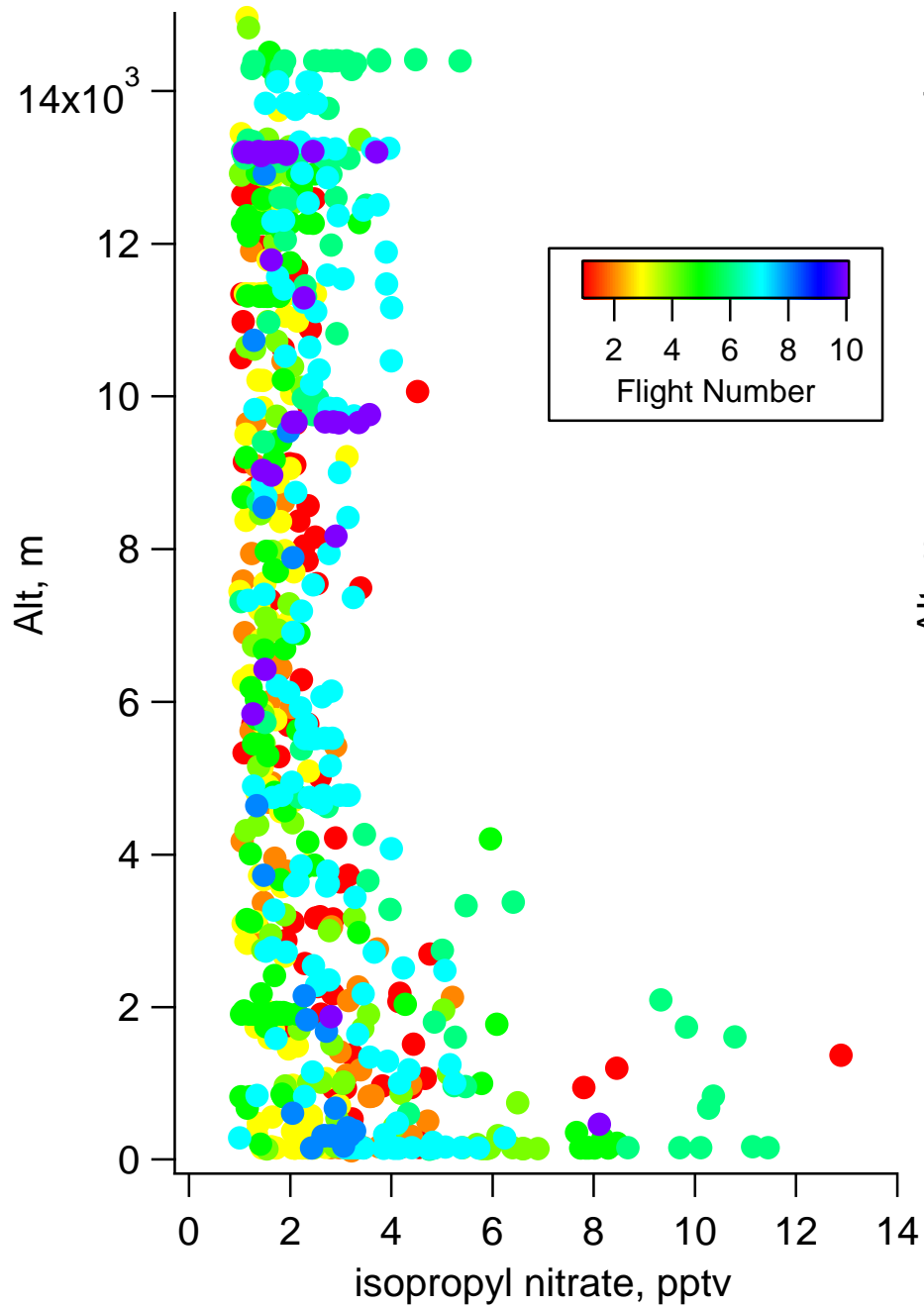


Table 1-4. Lifetimes for very short-lived halogenated source gases.

Montzka, Reimann, et al.

Compound	Local Lifetime from Previous Assessments (τ_{local}), days	OH Lifetime ¹ (τ_{OH}), days	Photolysis Lifetime from Previous Assessments (τ_{local}), days	New Local Lifetime, (τ_{local}), days	Notes
Chlorocarbons					
CH ₂ Cl ₂	140	144	> 15000	144	2, 8
CHCl ₃	150	149	> 15000	149	2, 8
CH ₃ CH ₂ Cl	30	39		39	2
CH ₂ ClCH ₂ Cl	70	65		65	4
CH ₃ CH ₂ CH ₂ Cl		14		14	5
CHClCCl ₂		4.9	> 15000	4.9	3, 8
CCl ₂ CCl ₂	99	90		90	3
CH ₃ CHClCH ₃		18		18	5
Bromocarbons					
CH ₂ Br ₂	120	123	5000	123	2, 8
CHBr ₃	26	76	36	24	2, 8
CH ₂ BrCl	150	137	15000	137	2, 8
CHBrCl ₂	78	121	222	78	6, 8
CHBr ₂ Cl	69	94	161	59	7, 8
CH ₃ CH ₂ Br	34	41		41	2
CH ₂ BrCH ₂ Br	55	70		70	4
n-C ₃ H ₇ Br	13	12.8	> 1200	12.8	3, 8
iso-C ₃ H ₇ Br		16.7		16.7	3
Iodocarbons					
CH ₃ I	7	158	7 (4–12)	7	4, 8
CF ₃ I	4	860	not determined	4	2
CH ₂ ClI	0.1		0.1	0.1	2 hrs 8
CH ₂ BrI	0.04		0.04	0.04	8
CH ₂ I ₂	0.003		0.003	0.003	5 min 8

