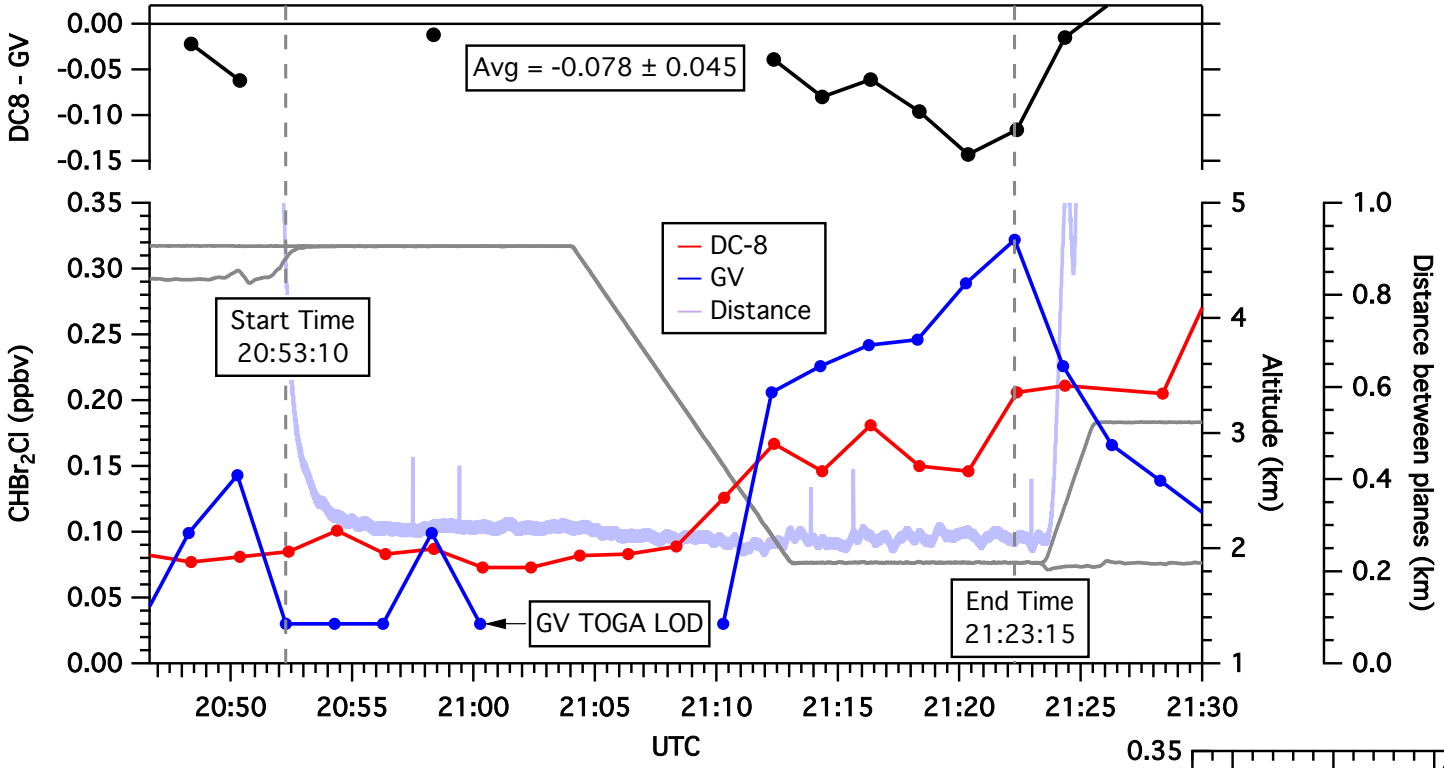
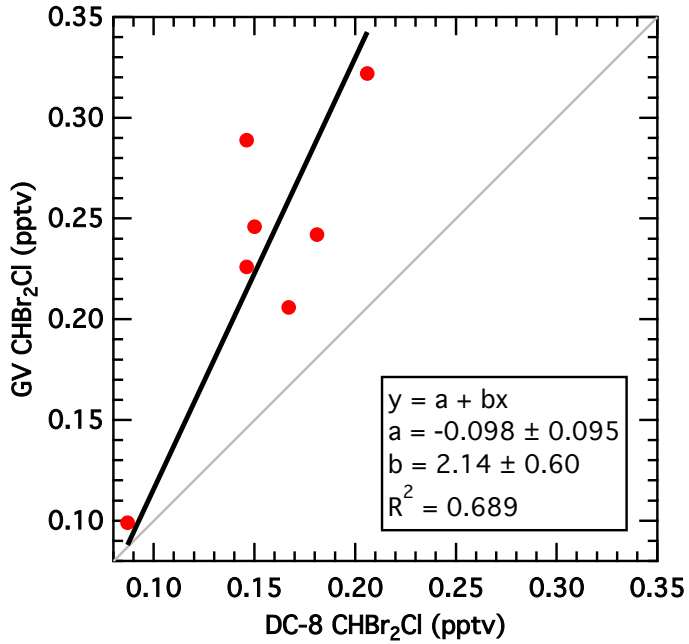
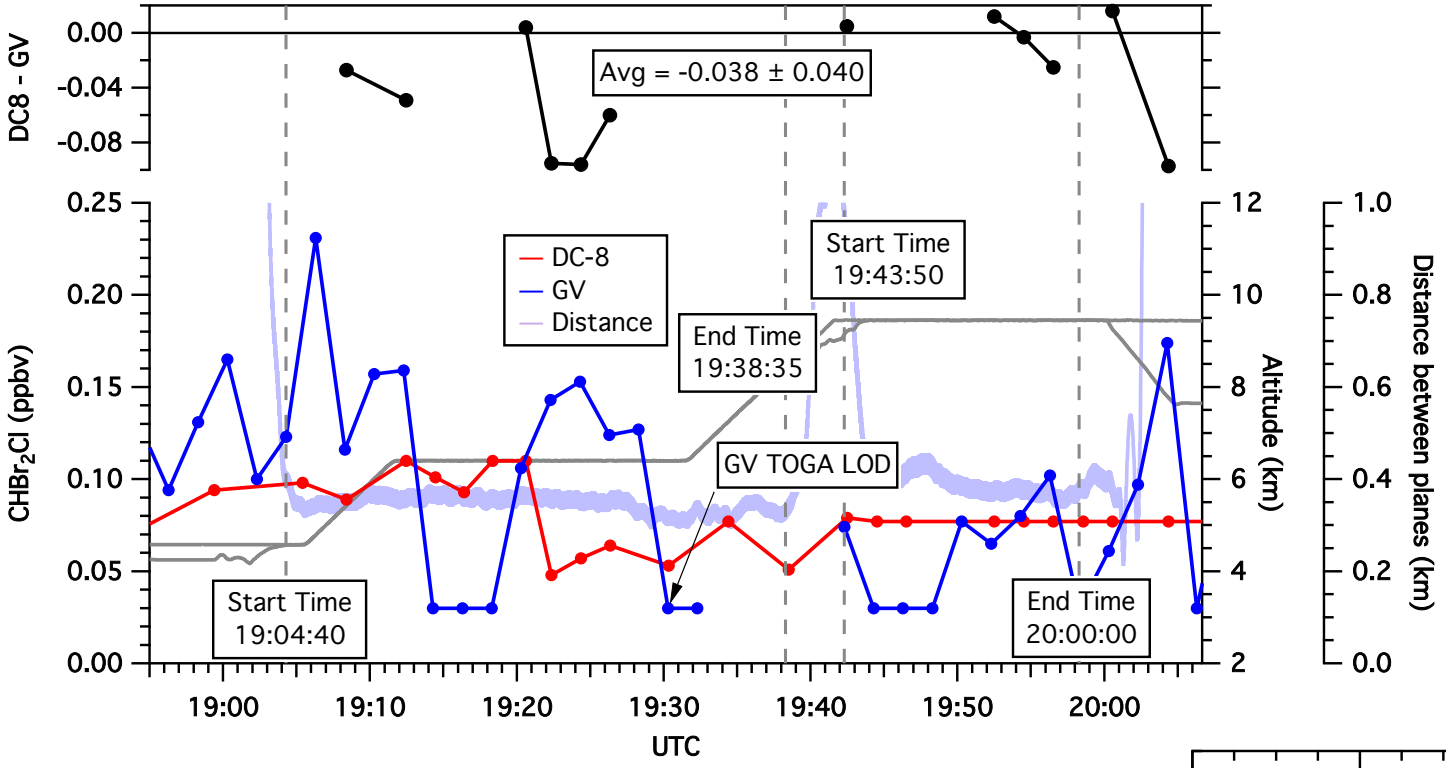
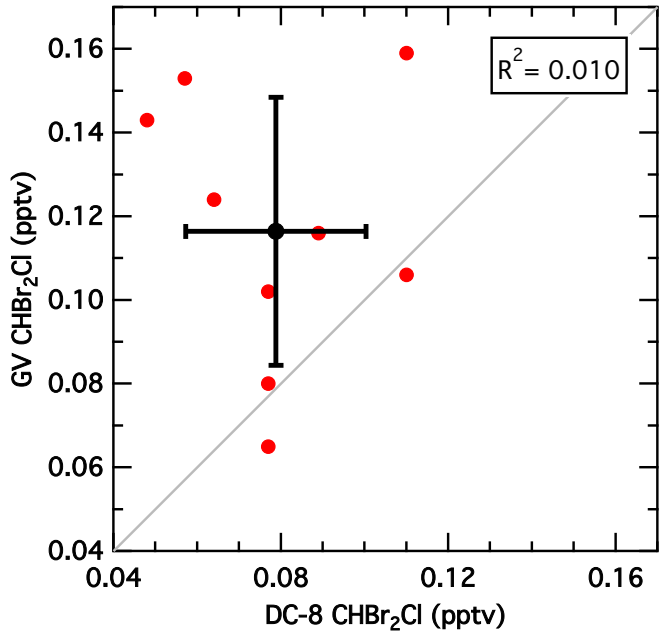
05/25/12


DC8 - GV
Avg = -0.078 ± 0.045
CHBr2Cl (ppbv)
DC-8
GV
Distance
Start Time
20:53:10
End Time
21:23:15
GV TOGA LOD
Altitude (km)
Distance between planes (km)
UTC

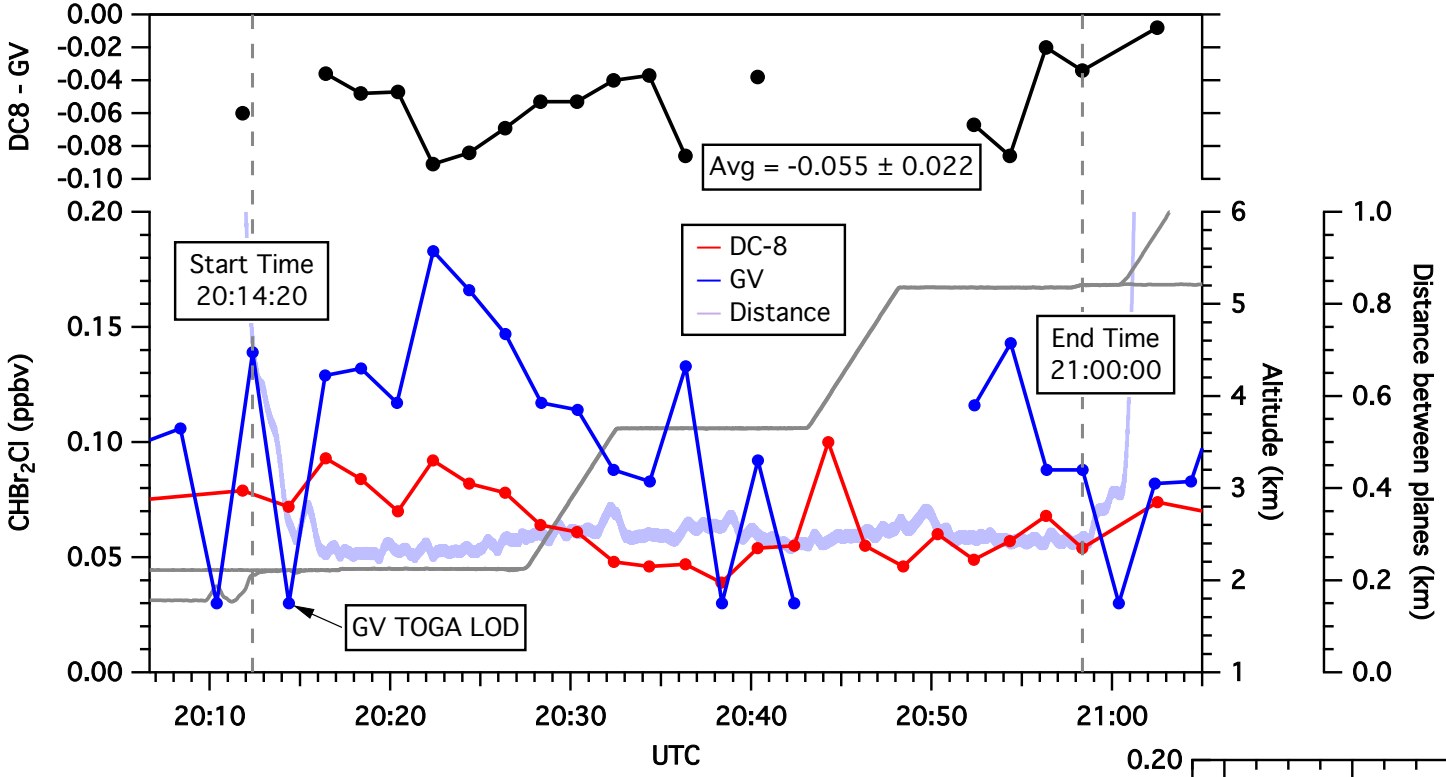

GV CHBr2Cl (pptv)
DC-8 CHBr2Cl (pptv)
y = a + bx
a = -0.098 ± 0.095
b = 2.14 ± 0.60
R2 = 0.689

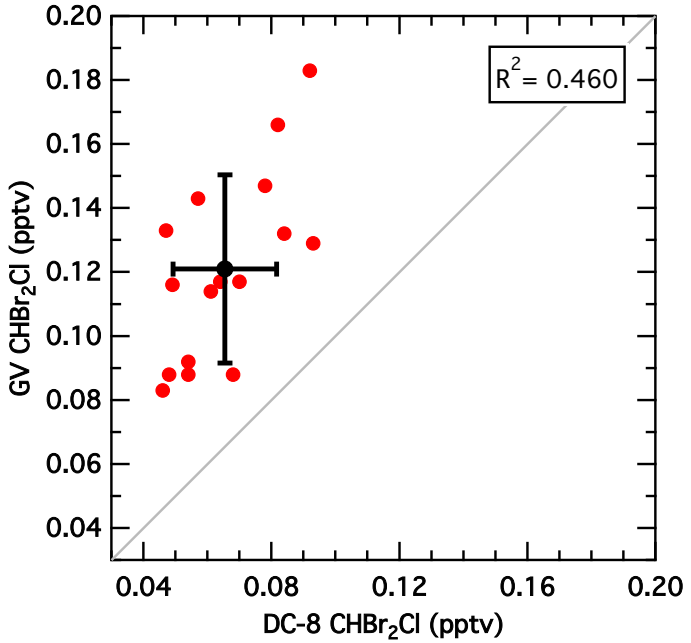
05/30/12


DC8 - GV
Avg = -0.038 ± 0.040
DC-8
GV
Distance
Start Time
19:43:50
End Time
19:38:35
GV TOGA LOD
Start Time
19:04:40
End Time
20:00:00
CHBr2Cl (ppbv)
Altitude (km)
Distance between planes (km)
UTC

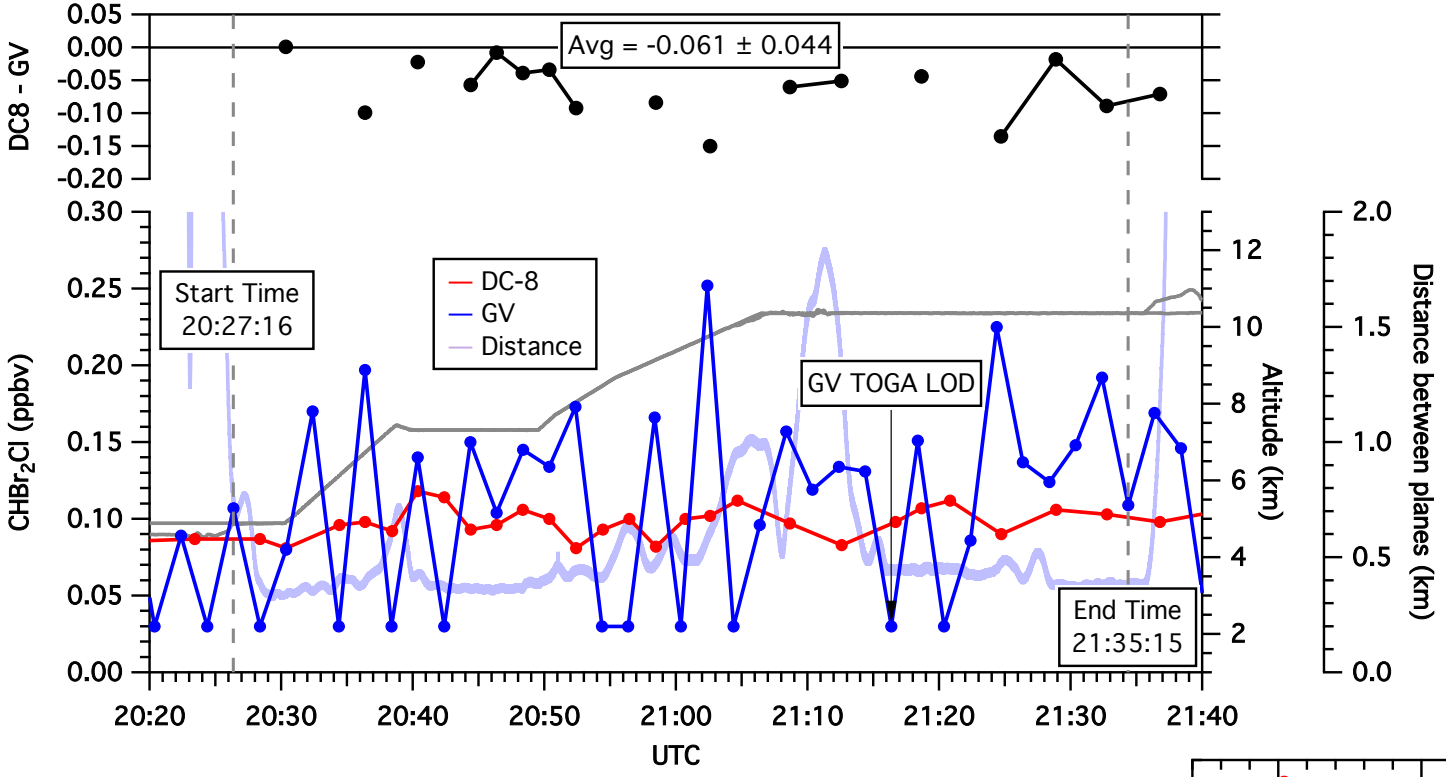

R2 = 0.010
GV CHBr2Cl (pptv)
DC-8 CHBr2Cl (pptv)

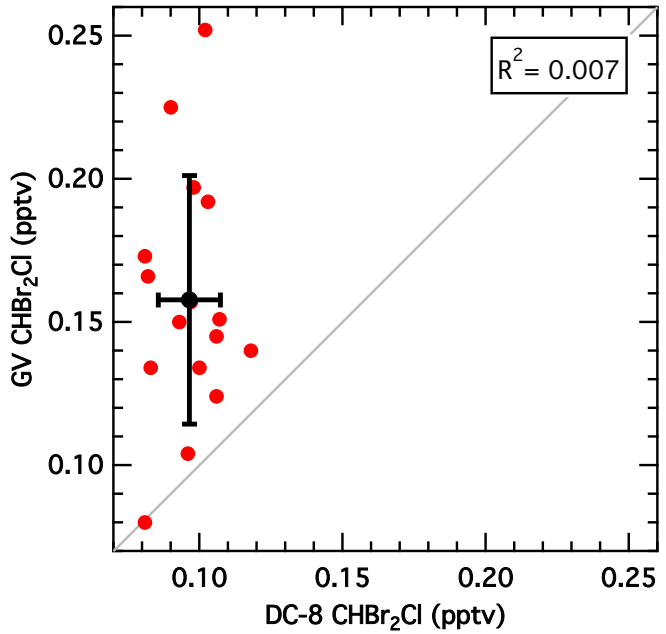
06/01/12


DC8 - GV
Avg = -0.055 ± 0.022
Start Time
20:14:20
DC-8
GV
Distance
End Time
21:00:00
GV TOGA LOD
CHBr2Cl (ppbv)
Altitude (km)
Distance between planes (km)
UTC
20:10
20:20
20:30
20:40
20:50
21:00

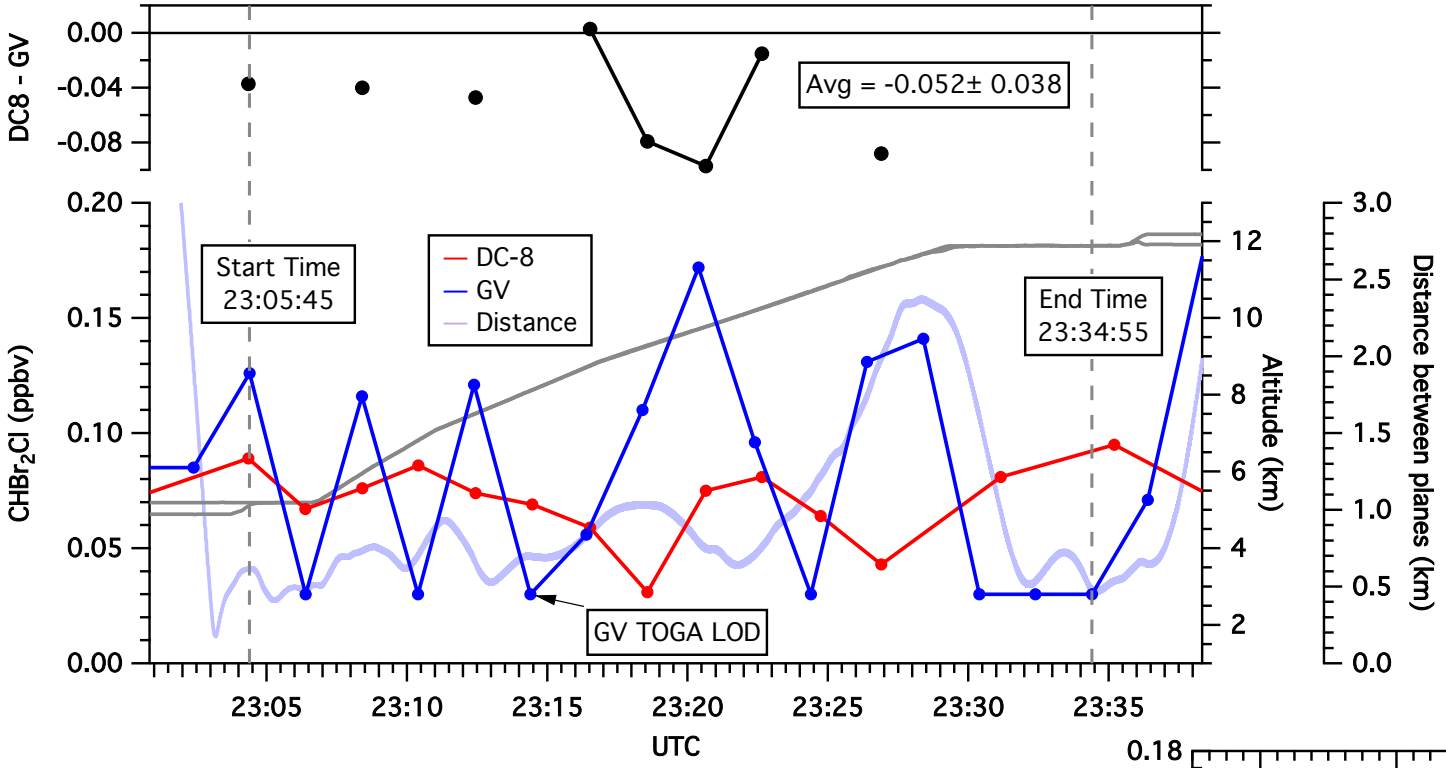

R2 = 0.460
GV CHBr2Cl (pptv)
DC-8 CHBr2Cl (pptv)

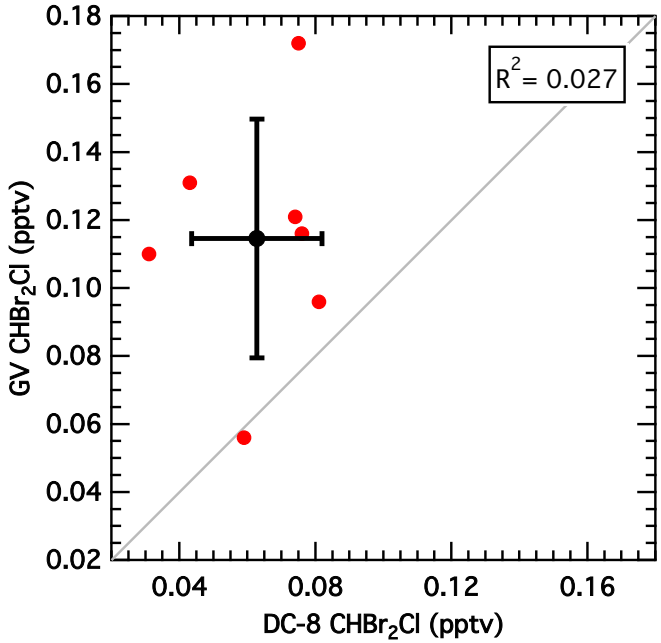
06/05/12


DC8 - GV
Avg = -0.061 ± 0.044
Start Time
20:27:16
DC-8
GV
Distance
GV TOGA LOD
End Time
21:35:15
CHBr2Cl (ppbv)
Altitude (km)
Distance between planes (km)
UTC
20:20
20:30
20:40
20:50
21:00
21:10
21:20
21:30
21:40


R2 = 0.007
GV CHBr2Cl (pptv)
DC-8 CHBr2Cl (pptv)

06/17/12


DC8 - GV
0.00
-0.04
-0.08
Avg = -0.052± 0.038
0.20
0.15
0.10
0.05
0.00
CHBr2Cl (ppbv)
Start Time
23:05:45
DC-8
GV
Distance
End Time
23:34:55
GV TOGA LOD
12
10
8
6
4
2
Altitude (km)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Distance between planes (km)
23:05
23:10
23:15
23:20
23:25
23:30
23:35
UTC


R2 = 0.027
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
GV CHBr2Cl (pptv)
0.04
0.08
0.12
0.16
DC-8 CHBr2Cl (pptv)

Time Series Data

Comparison Date	DC-8 WAS	GV TOGA
05/25/12	dc3-WAS_DC8_20120525_R2.ict	DC3-TOGA_GV_20120525_R2.ict
05/30/12	dc3-WAS_DC8_20120530_R2.ict	DC3-TOGA_GV_20120530_R2.ict
06/01/12	dc3-WAS_DC8_20120601_R2.ict	DC3-TOGA_GV_20120601_R2.ict
06/05/12	dc3-WAS_DC8_20120605_R2.ict	DC3-TOGA_GV_20120605_R2.ict
06/17/12	dc3-WAS_DC8_20120617_R2.ict	DC3-TOGA_GV_20120617_R2.ict

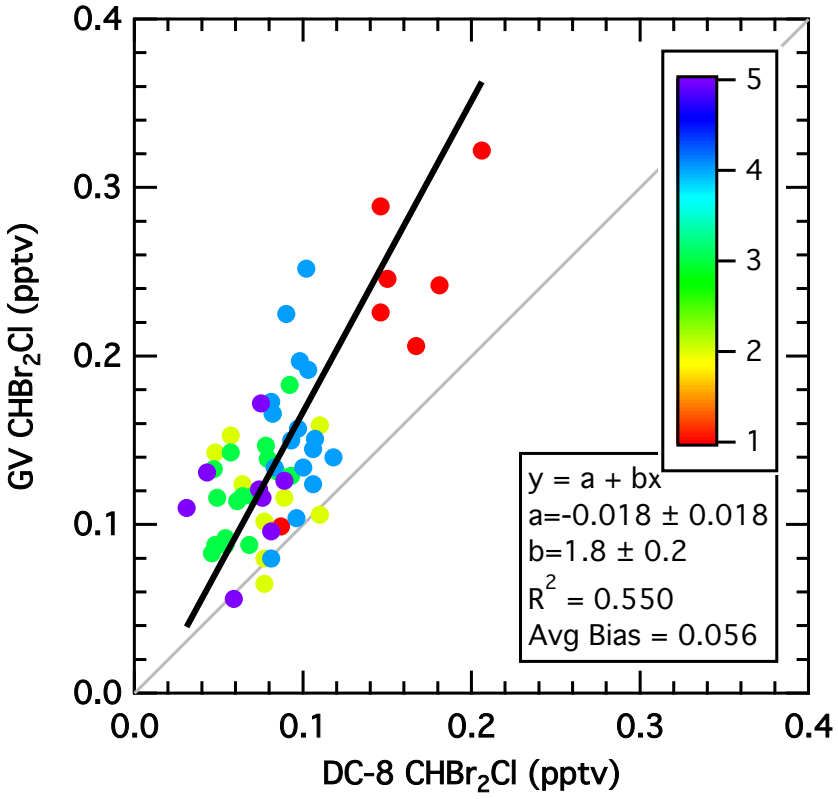
Correlation Data

- Merged GV TOGA to DC-8 WAS time step.

- Fit lines are derived from orthogonal distance regressions.
- R^2 values are calculated independently, not from orthogonal distance regression.

- Average and standard deviation are calculated over the comparison time frame.

5 Day Comparison



- Numbers on Colorbar correspond to the 5 intercomparison days
  1: 05/25/12, 2: 05/30/12, 3: 06/01/12, 4: 06/05/12, 5: 06/17/12

- Avg Bias denotes the difference between y and x, calculated by (y-x)