Distance between planes (km)

UTC

Altitude (km)

CHBr\textsubscript{2}Cl (ppbv)

DC8 - GV

Start Time 20:53:10

End Time 21:23:15

Avg = -0.078 ± 0.045

y = a + bx

a = -0.098 ± 0.095
b = 2.14 ± 0.60
R\textsuperscript{2} = 0.689

05/25/12
1. The distance between planes (km) is plotted over time (UTC) from 20:10 to 21:00.
2. The altitude (km) is indicated and ranges from 0.00 to 0.20.
3. The CHBr₂Cl (ppbv) concentration is shown for both DC-8 and GV with varying levels from 0.00 to 0.20.
4. The average CHBr₂Cl concentration is -0.055 ± 0.022.
5. The correlation coefficient (R²) between DC-8 and GV CHBr₂Cl is 0.460.
6. The graph includes annotations for start time (20:14:20) and end time (21:00:00).
7. Additional labels include "GV TOGA LOD".
Avg = -0.061 ± 0.044

$R^2 = 0.007$

06/05/12
**Data and Graphs:**

- **CHBr₂Cl (ppbv)**: The graph shows the concentration of CHBr₂Cl over time. The concentration ranges from 0.00 to 0.20 ppbv.
- **Distance between planes (km)**: The distance is marked on the y-axis, ranging from 0.00 to 3.0 km.
- **Altitude (km)**: The altitude is marked on the x-axis, ranging from 0.00 to 12 km.

**Key Points:**

- **Start Time**: 23:05:45
- **End Time**: 23:34:55
- **Average CHBr₂Cl**: $\text{Avg} = -0.052 \pm 0.038$
- **Distance**: The distance between the planes is shown.
- **GV TOGA LOD**: The LOD boundary is indicated.

**Additional Information:**

- **DC-8 vs. GV**: The graph compares the CHBr₂Cl concentration between DC-8 and GV.
- **$R^2 = 0.027$**: The graph shows a weak correlation between DC-8 and GV concentrations.

**Timeline:**


**Note:** The data reflects a specific event on 06/17/12.
**Time Series Data**

<table>
<thead>
<tr>
<th>Comparison Date</th>
<th>DC-8 WAS</th>
<th>GV TOGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/25/12</td>
<td>dc3-WAS_DC8_20120525_R2.ict</td>
<td>DC3-TOGA_GV_20120525_R2.ict</td>
</tr>
<tr>
<td>05/30/12</td>
<td>dc3-WAS_DC8_20120530_R2.ict</td>
<td>DC3-TOGA_GV_20120530_R2.ict</td>
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<td>dc3-WAS_DC8_20120617_R2.ict</td>
<td>DC3-TOGA_GV_20120617_R2.ict</td>
</tr>
</tbody>
</table>

**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.
• 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)