Distance between planes (km)

UTC

Altitude (km)

W (m/s)

DC8 - GV

DC-8 MMS

GV

Distance

Start Time
20:53:10

End Time
21:23:15

Avg = -0.36 ± 0.43

\[ y = a + bx \]

\[ a = 0.319 ± 0.023 \]

\[ b = 1.109 ± 0.037 \]

\[ R^2 = 0.817 \]

05/25/12
Distance between planes (km)

UTC

Altitude (km)

W (m/s)

DC8 - GV

DC-8 MMS

GV

Distance

Start Time

End Time

19:04:40

19:38:35

19:43:50

20:00:00

Avg = 0.21 ± 0.23

R² = 0.122

05/30/12
Distance between planes (km)

Altitude (km)

W (m/s)

DC8 - GV

DC-8

GV

Distance

Start Time

20:14:20

End Time

21:00:00

Avg = 0.98 ± 0.51

R² = 0.281

06/01/12
\[ y = a + bx \]

- \( a = 0.047 \pm 0.010 \)
- \( b = 0.994 \pm 0.025 \)
- \( R^2 = 0.772 \)

Avg = \(-0.05 \pm 0.23\)
**Graph Description:**

- **Graph Title:** Average wind speed over time
- **Axes:**
  - X-axis: UTC
  - Y-axis 1: DC8 - GV Distance
  - Y-axis 2: Altitude (km)
  - Y-axis 3: DC-8 W (m/s)
  - Y-axis 4: GV W (m/s)

- **Graph Elements:**
  - **Distance Between Planes (km):**
    - DC8 - GV: Black line
  - **Altitude (km):**
    - DC8 - GV: Blue line
    - GV: Red line
  - **W (m/s):**
    - DC8: Red line
    - GV: Blue line
  - **Start Time:** 23:05:45
  - **End Time:** 23:34:55
  - **Average Wind Speed:** DC-8: 0.24 ± 0.77 m/s

- **Additional Graph:**
  - Scatter plot
  - **Equation:** $R^2 = 0.011$
  - **Legend:**
    - DC-8
    - GV
    - Distance
### Time Series Data

<table>
<thead>
<tr>
<th>Comparison Date</th>
<th>DC-8 MMS</th>
<th>GV NAV</th>
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</thead>
<tbody>
<tr>
<td>05/25/12</td>
<td>dc3-MMS-MetData_DC8_20120525_R0.ict</td>
<td>DC3-RAF-NAV_GV_20120525_R1.ICT</td>
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<tr>
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<td>DC3-RAF-NAV_GV_20120530_R1.ICT</td>
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<td>DC3-RAF-NAV_GV_20120601_R1.ICT</td>
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<tr>
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<td>DC3-RAF-NAV_GV_20120605_R1.ICT</td>
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<td>dc3-MMS-MetData_DC8_20120617_R0.ict</td>
<td>DC3-RAF-NAV_GV_20120617_R1.ICT</td>
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### Correlation Data

<table>
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<tr>
<th>Comparison Date</th>
<th>DC-8 10 Second Merge</th>
<th>GV 10 Second Merge</th>
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</thead>
<tbody>
<tr>
<td>05/25/12</td>
<td>dc3-mrg10-dc8_merge_20120525_R6.ict</td>
<td>dc3-mrg10-gV_merge_20120525_R5.ict</td>
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<td>dc3-mrg10-dc8_merge_20120617_R6.ict</td>
<td>dc3-mrg10-gV_merge_20120617_R5.ict</td>
</tr>
</tbody>
</table>

- 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)