Multi-angle Measures of Cloud Tracked Winds

R. Davies, Catherine Moroney and David Nelson
Jet Propulsion Laboratory/California Institute of Technology
GMAO assessment of MISR winds

- for period 9/1/03 to 10/15/03
- 7-8 x 10^3 observations per day
- using new wind QA from MISR
- compared against 6 hr forecast from model initialized using a variety of conventional observations
1.5% excluded by GMAO on 9/3/03
MISR winds & model streamlines 700mb 00Z 09/03/03
MISR winds & model streamlines 500mb 00Z 09/03/03
9:;<4=>?@34A>3B.>+-B>C?4!1D!D)D!/
850 hPa observations from 9/1/03-10/15/03

NOBS
850 hPa observations from 9/1/03-10/15/03
850 hPa observations from 9/1/03-10/15/03
## Global summary

<table>
<thead>
<tr>
<th></th>
<th>low &gt; 700 hPa</th>
<th>middle 400 – 700</th>
<th>high &lt; 400 hPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>speed bias m/s</td>
<td>0.45</td>
<td>0.92</td>
<td>1.26</td>
</tr>
<tr>
<td>rms vector m/s</td>
<td>6.2</td>
<td>8.7</td>
<td>10.4</td>
</tr>
<tr>
<td>normalized</td>
<td>0.7</td>
<td>0.7</td>
<td>0.5</td>
</tr>
<tr>
<td>(rms/mean speed)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N of obs</td>
<td>$2 \times 10^5$</td>
<td>$5 \times 10^4$</td>
<td>$2 \times 10^4$</td>
</tr>
</tbody>
</table>
the end