

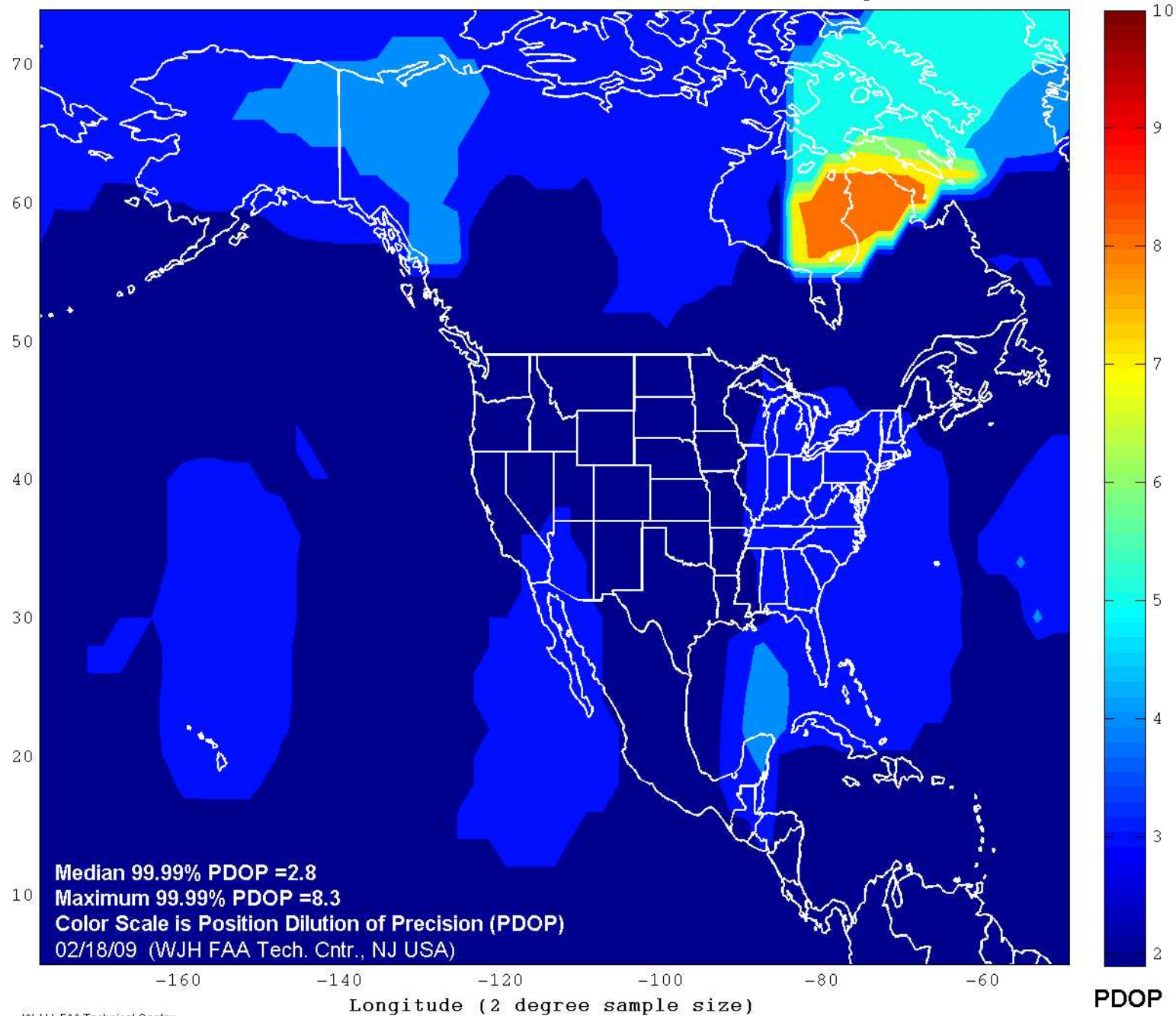
Civil Report Card On GPS Performance January 2009

Operational Performance Parameter	CY 2008	Dec 2008	Jan 2009	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.48	30.98	30.99	↑	→
<i>Average number of satellites usable in primary slots</i>	23.95 (99.80%)	23.98 (99.91%)	23.99 (99.96%)	↑	→
<i>Average availability of 6 satellites in view</i>	99.99%	99.99%	100%	↑	↑
99.99% Horizontal DOP					
<i>Area Median</i>	1.8	1.5	1.4	↑	→
<i>Worst Site</i>	5.8	22.0	4.2	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	3.3	2.7	2.4	↑	↑
<i>Worst Site</i>	17.6	36.4	7.5	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	3.6	3.1	2.8	↑	↑
<i>Worst Site</i>	18.3	42.9	8.3	↑	↑
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	1.72	1.90	1.80	↓	↑
<i>Worst Satellite</i>	2.14	2.70	2.62	↓	↑
95% Horizontal Error					
<i>Area Median</i>	2.36	2.22	2.23	↑	→
<i>Worst Site</i>	3.35	2.77	2.80	↑	↓
<i>Availability (% <4.5m (historical 3-sigma))</i>	99.77%	99.96%	99.91%	↑	↓
95% Vertical Error					
<i>Area Median</i>	4.46	4.92	4.53	↓	↑
<i>Worst Site</i>	4.95	5.98	5.41	↓	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	99.94%	99.94%	99.93%	→	→

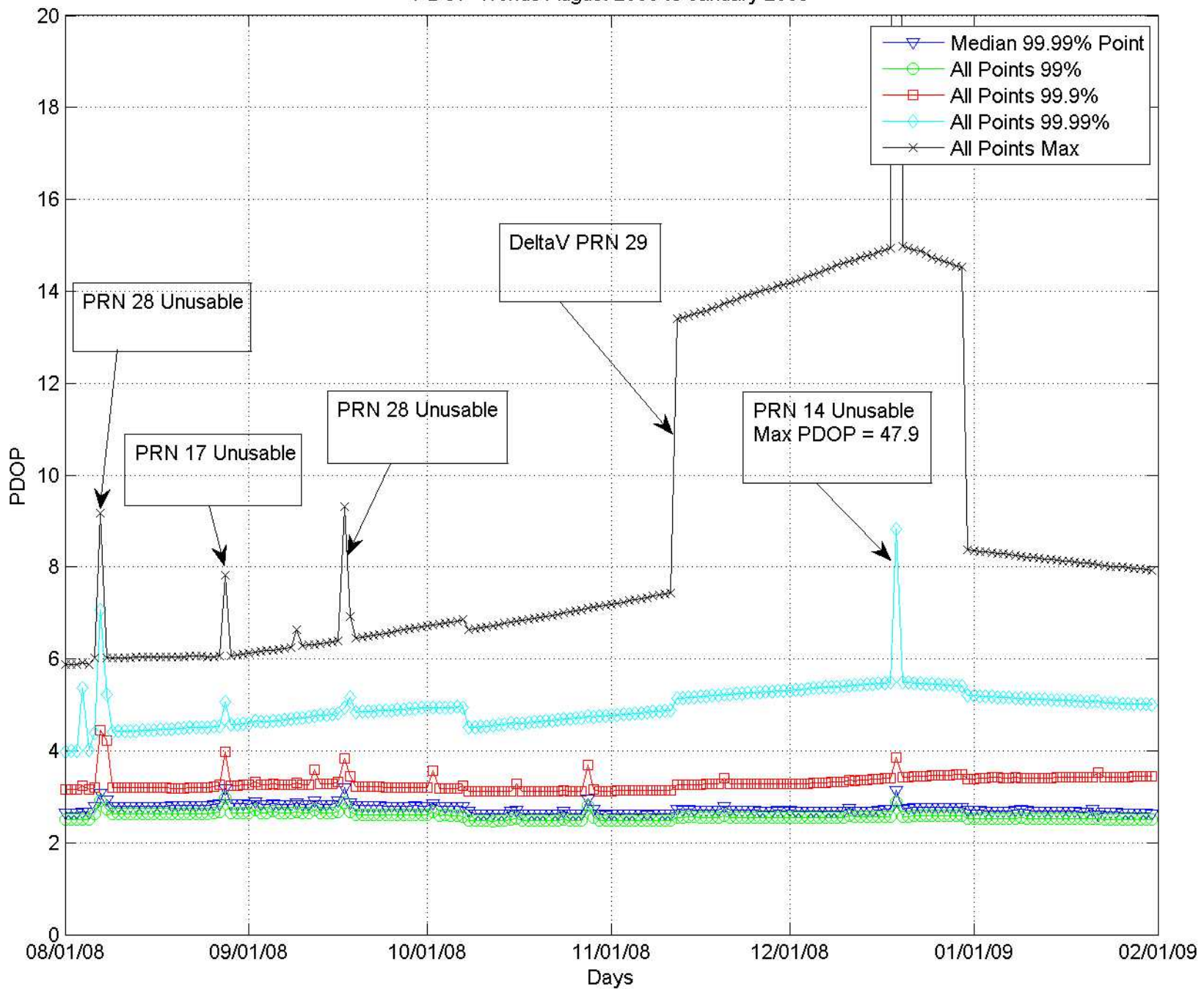
Key: ↑ improving ↓ worsening → no significant change

Long Term is current month vs. prior 24 months; Short Term is current month vs. prior month

North America GPS PDOP 99.99% Index January 2009



PDOP Trends August 2008 to January 2009



WAAS LPV Coverage vs PDOP Trends August 2008 to January 2009

