

Civil Report Card On GPS Performance

May 2008

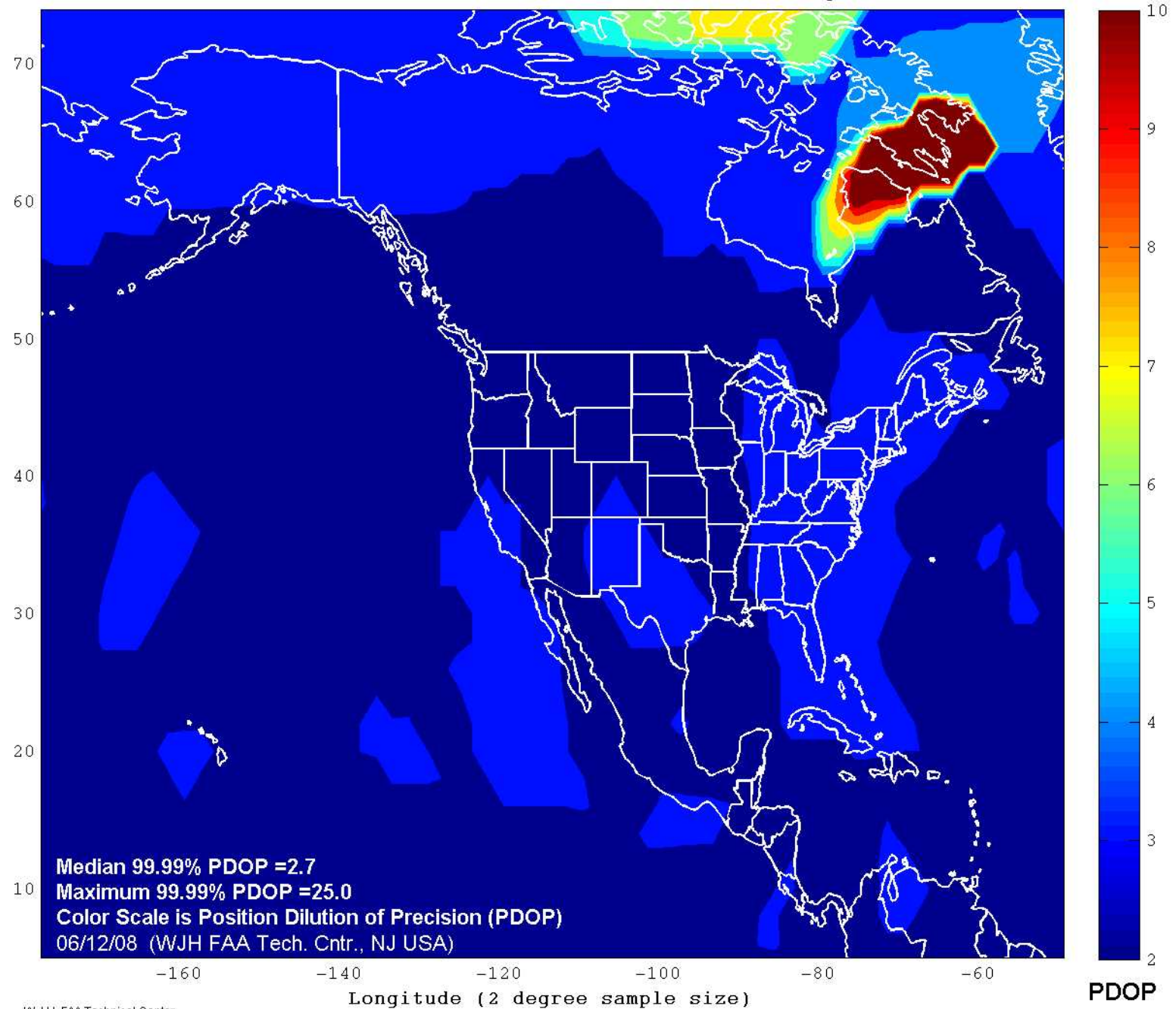
Operational Performance Parameter	CY 2007	Apr 2008	May 2008	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	29.80	29.84	29.99	➡	⬆
<i>Average number of satellites usable in primary slots</i>	23.91 (99.62%)	23.86 (99.41%)	23.99 (99.95%)	➡	⬆
<i>Average availability of 6 satellites in view</i>	99.99%	99.99%	100%	➡	➡
99.99% Horizontal DOP					
<i>Area Median</i>	1.8	1.6	1.4	⬆	⬆
<i>Worst Site</i>	3.4	4.2	6.7	⬇	⬇
99.99% Vertical DOP					
<i>Area Median</i>	3.3	3.1	2.4	⬆	⬆
<i>Worst Site</i>	7.4	14.9	24.2	⬇	⬇
99.99% Position DOP (PDOP)					
<i>Area Median</i>	3.6	3.5	2.7	⬆	⬆
<i>Worst Site</i>	7.8	15.4	25.0	⬇	⬇
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	1.77	1.98	1.73	➡	➡
<i>Worst Satellite</i>	2.29	3.27	2.33	➡	⬆
95% Horizontal Error					
<i>Area Median</i>	2.32	2.45	2.16	➡	⬆
<i>Worst Site</i>	3.63	4.52	3.07	⬆	⬆
<i>Availability (% <4.5m (historical 3-sigma))</i>	99.81%	99.66%	99.95%	⬆	⬆
95% Vertical Error					
<i>Area Median</i>	4.45	5.05	4.10	⬆	⬆
<i>Worst Site</i>	4.95	6.12	5.39	⬇	⬆
<i>Availability (% < 9m (historical 3-sigma))</i>	99.92%	99.91%	99.97%	➡	⬆

Key: ⬆ improving ⬇ worsening ➡ no significant change

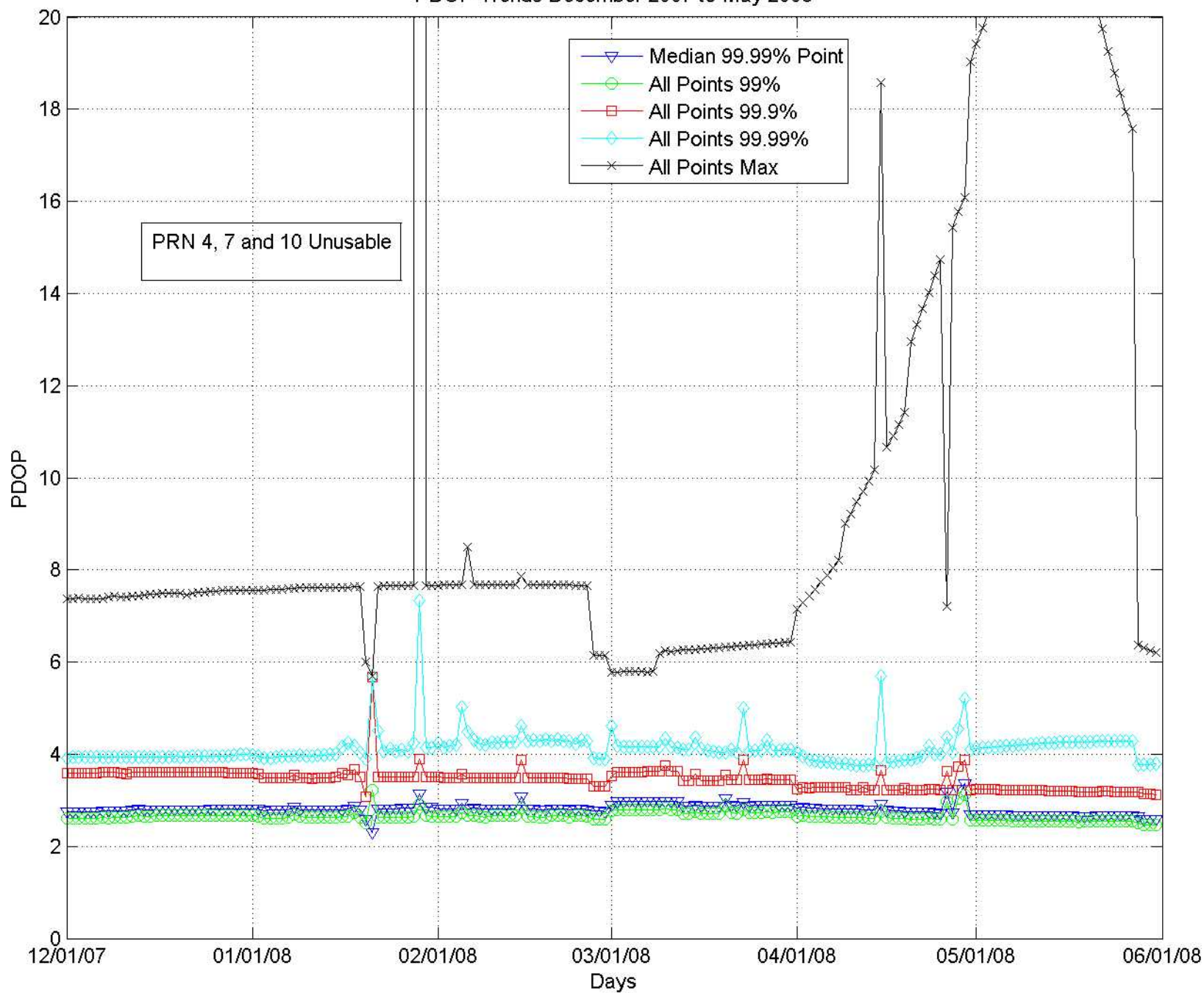
Long Term is current month vs. prior 24 months, Short Term is current month vs. prior month

Compiled from WAAS network as requested by the Defense Science Board

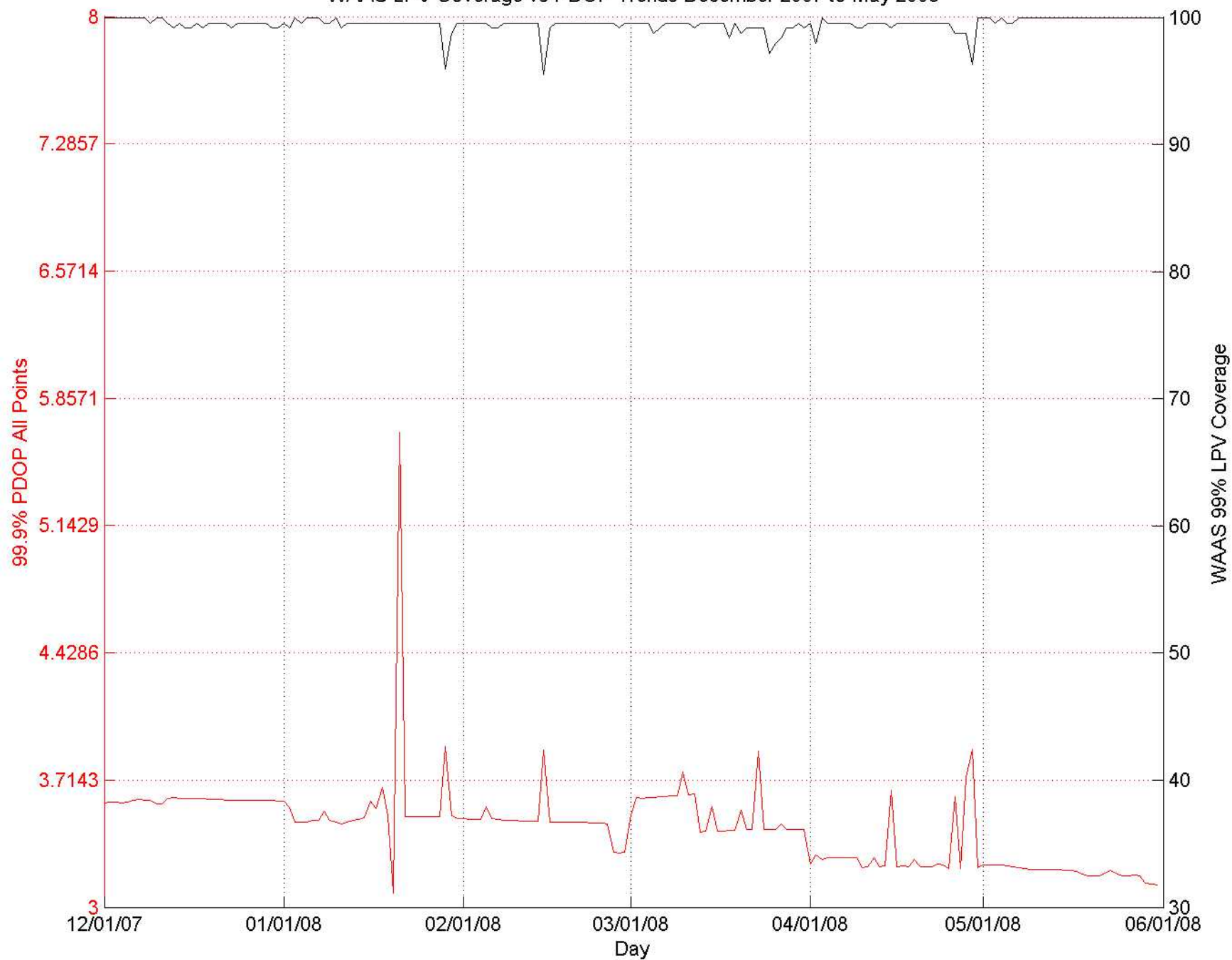
North America GPS PDOP 99.99% Index May 2008



PDOP Trends December 2007 to May 2008



WAAS LPV Coverage vs PDOP Trends December 2007 to May 2008



Six Satellite Availability Trends December 2007 to May 2008

