

Civil Report Card On GPS Performance

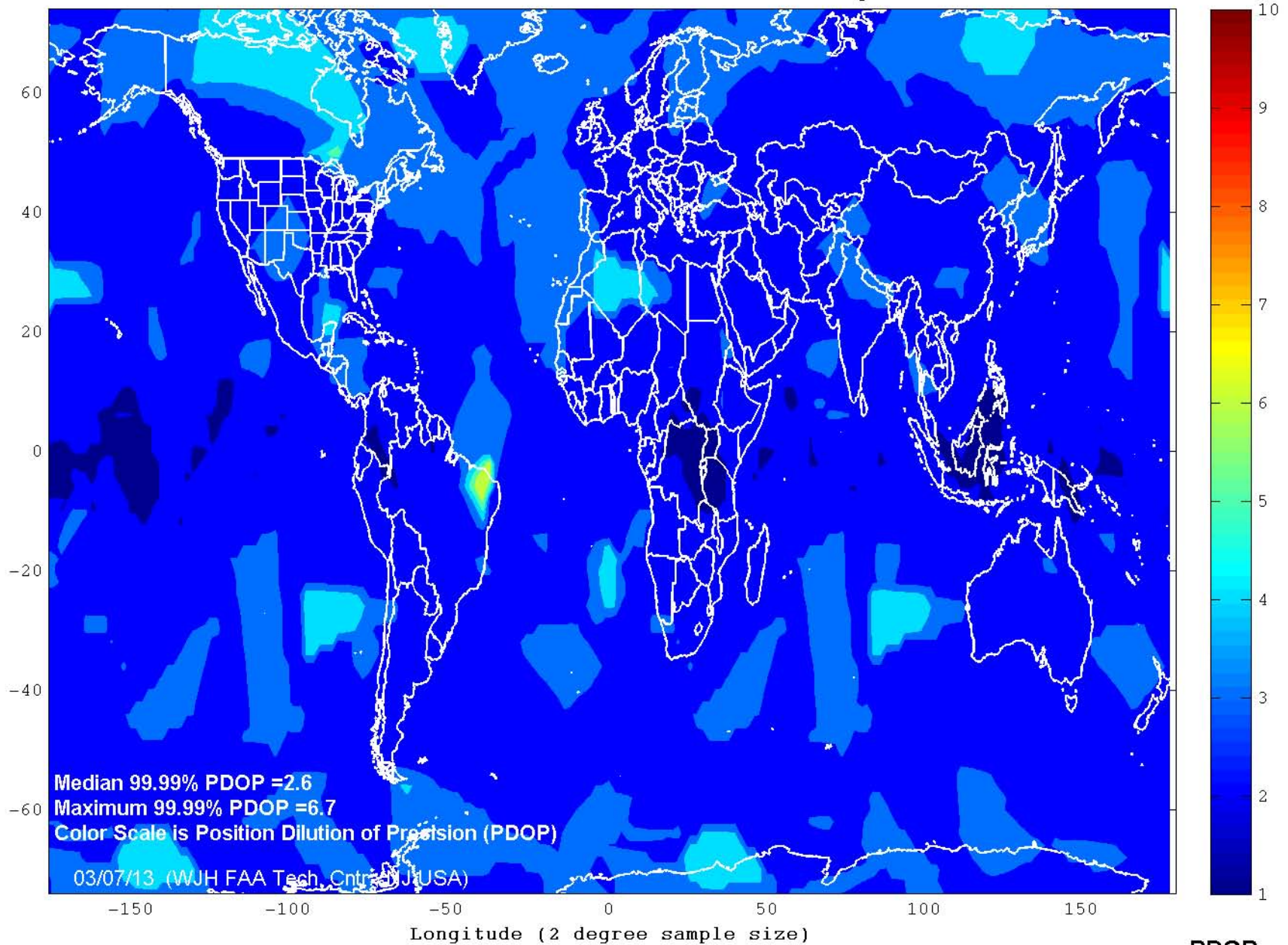
February 2013

Operational Performance Parameter	CY 2012	Jan 2013	Feb 2013	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.92	30.97	30.97	↑	→
<i>Average number of satellites usable in primary slots</i>	23.99 (99.95%)	23.97 (99.89%)	23.99 (99.97%)	↑	↑
<i>Average availability of 6 satellites in view</i>	99.99%	99.99%	100%	↑	↑
99.99% Horizontal DOP					
<i>Area Median</i>	1.3	1.4	1.3	→	↑
<i>Worst Site</i>	4.0	3.6	2.6	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.4	2.5	2.3	↑	↑
<i>Worst Site</i>	10.2	6.7	6.6	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.7	2.8	2.6	↑	↑
<i>Worst Site</i>	10.6	7.6	6.6	↑	↑
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	83.70%	38.42%	65.47%	↑	↑
<i>World</i>	85.37%	48.12%	64.71%	↑	↑
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	2.00	2.02	1.77	↑	↑
<i>Worst Satellite</i>	2.38	2.91	2.51	↓	↑
95% Horizontal Error					
<i>Area Median</i>	2.88	2.48	2.49	↑	↓
<i>Worst Site</i>	8.26	6.05	7.16	↑	↓
<i>Availability (% <4.5m (historical 3-sigma))</i>	99.89%	99.91%	99.88%	↓	↓
95% Vertical Error					
<i>Area Median</i>	4.93	5.98	4.13	↑	↑
<i>Worst Site</i>	9.21	7.38	7.24	↑	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	99.89%	99.61%	99.97%	↑	↑

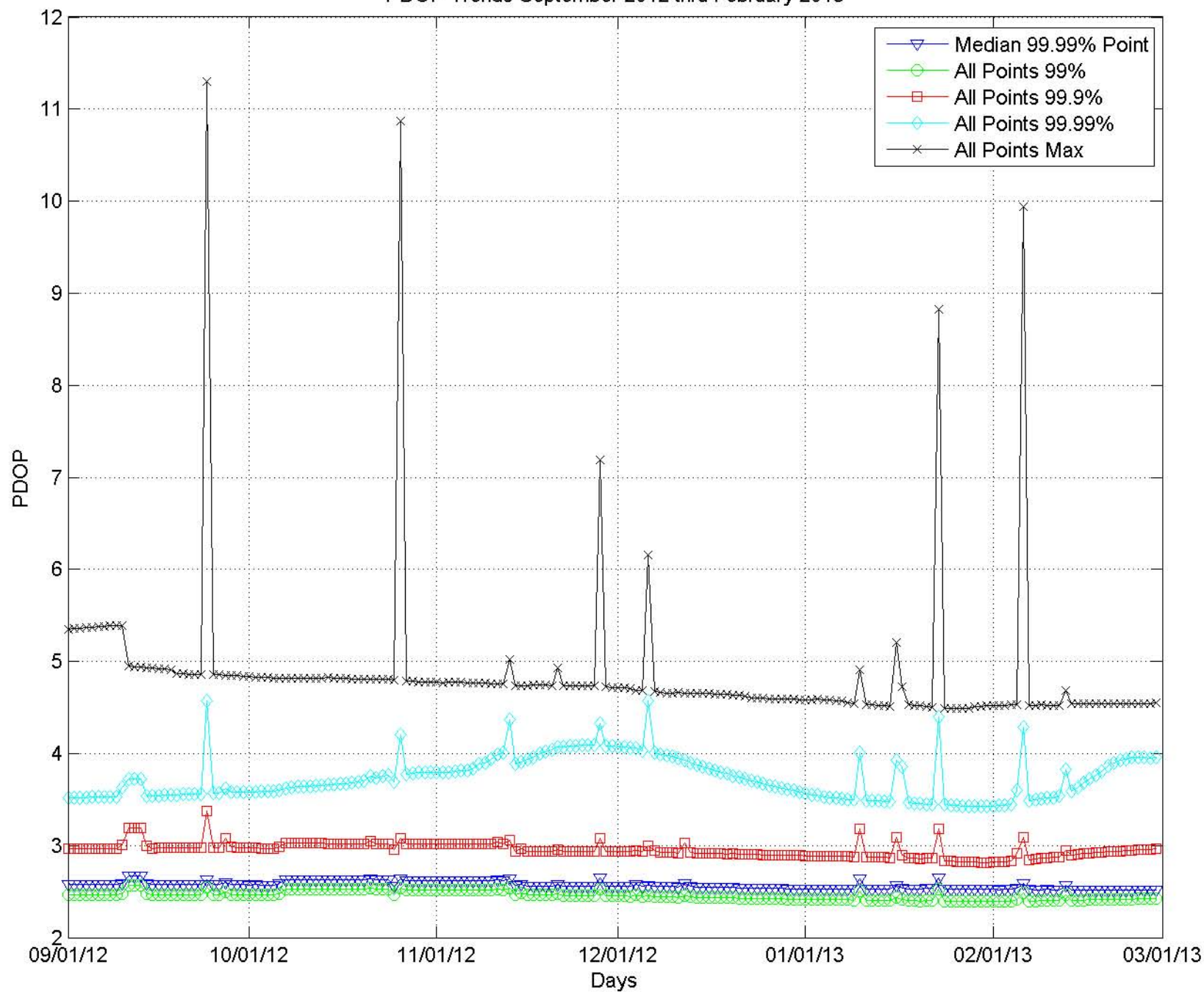
Key: ↑ improving ↓ worsening → no significant change

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

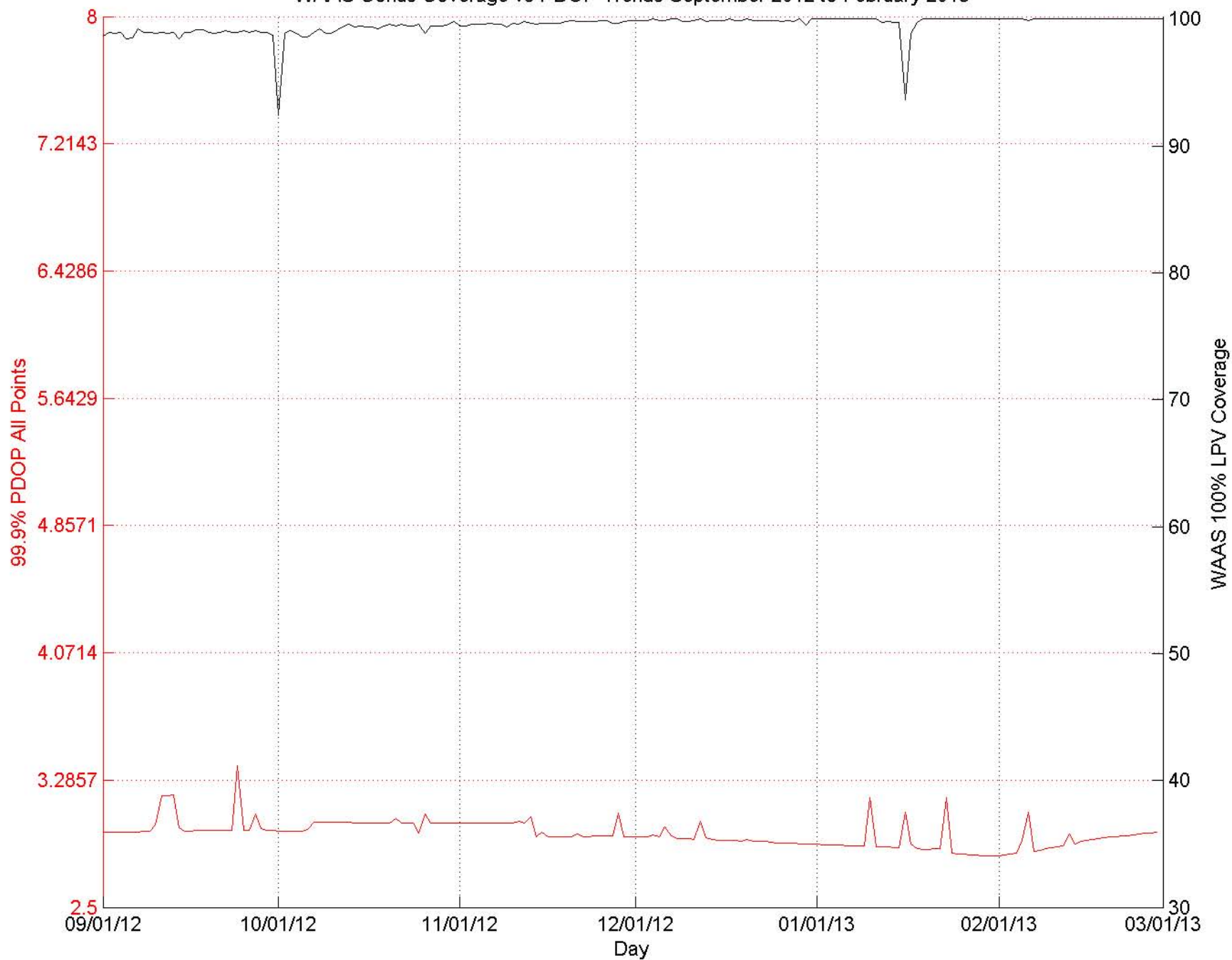
GPS World PDOP 99.99% Index February 2013



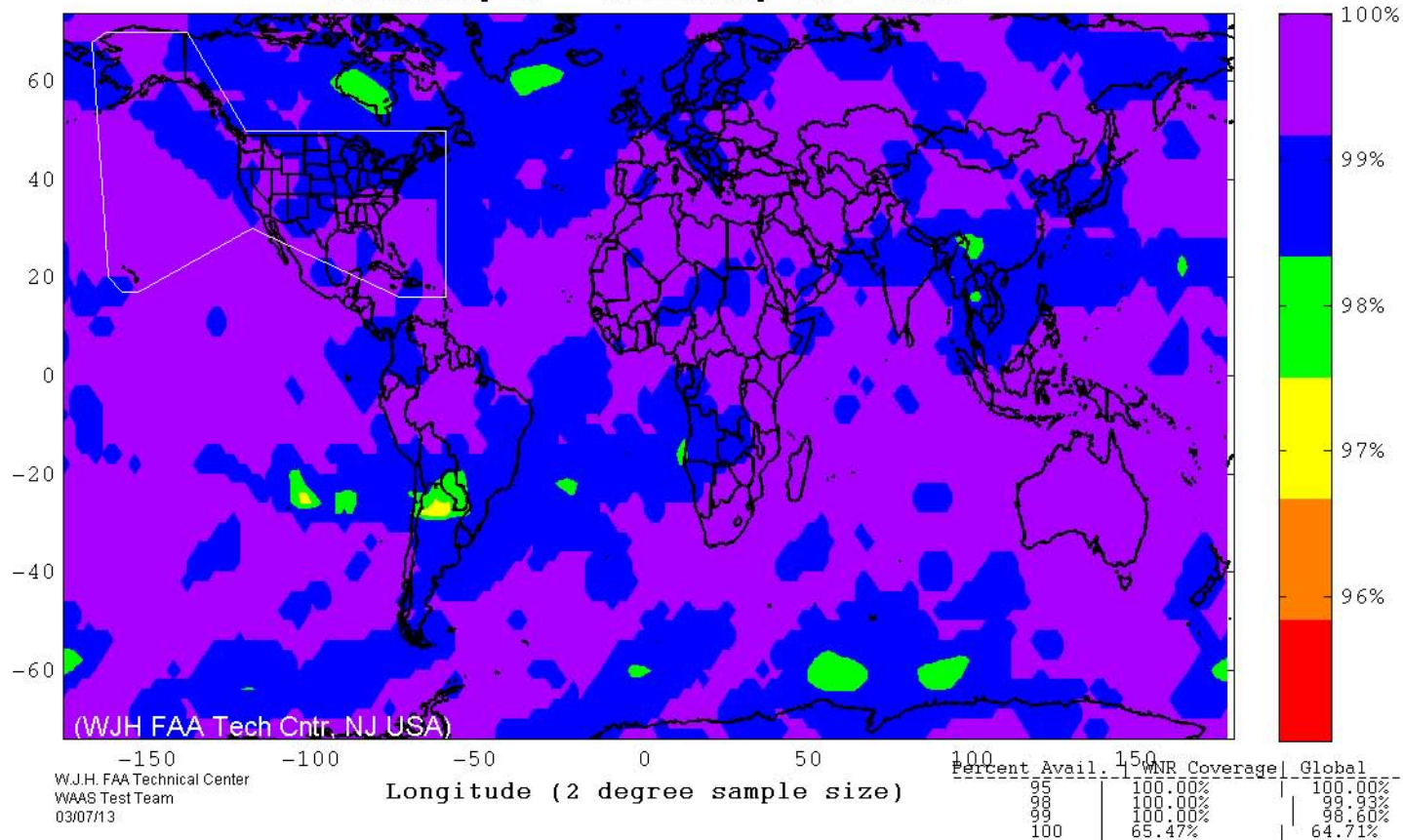
PDOP Trends September 2012 thru February 2013



WAAS Conus Coverage vs PDOP Trends September 2012 to February 2013



SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 February 1 - February 28, 2013



SPS RAIM RNP 0.3 (HAL = 556m) Availability
 FD Only, SA Off, without Baro-Aiding
 February 1 - February 28, 2013

