

Civil Report Card On GPS Performance

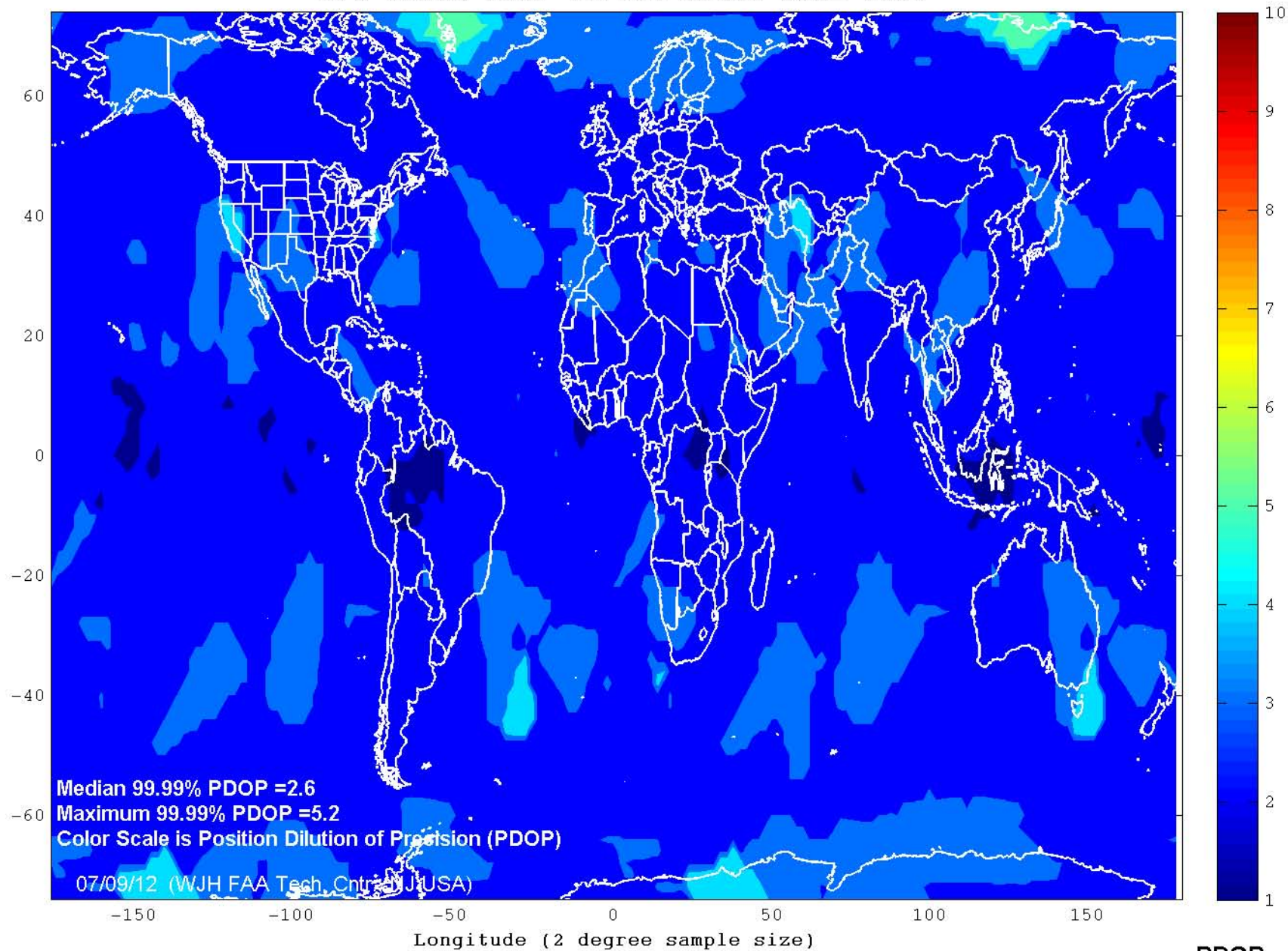
June 2012

Operational Performance Parameter	CY 2011	May 2012	June 2012	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.65	30.80	30.98	↑	↑
<i>Average number of satellites usable in primary slots</i>	23.78 (99.10%)	23.99 (99.96%)	23.99 (99.99%)	↑	→
<i>Average availability of 6 satellites in view</i>	99.99%	100%	100%	↑	→
99.99% Horizontal DOP					
<i>Area Median</i>	1.5	1.4	1.3	↑	↑
<i>Worst Site</i>	3.0	2.6	2.1	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.8	2.5	2.4	↑	↑
<i>Worst Site</i>	5.8	6.4	4.9	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	3.1	2.8	2.6	↑	↑
<i>Worst Site</i>	6.5	6.8	5.2	↑	↑
99% RAIM Availability (HAL=100m)					
<i>NPA Service Area (NSA)</i>	-	97.05%	97.37%	↑	↑
<i>World</i>	-	96.64%	97.14%	↑	↑
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	1.95	1.96	1.77	↑	↑
<i>Worst Satellite</i>	2.57	2.53	2.49	↑	↑
95% Horizontal Error					
<i>Area Median</i>	2.71	3.06	2.65	↑	↑
<i>Worst Site</i>	10.10	5.96	4.24	↑	↑
<i>Availability (% <4.5m (historical 3-sigma))</i>	98.74%	99.71%	99.90%	↑	↑
95% Vertical Error					
<i>Area Median</i>	5.03	4.04	4.04	↑	→
<i>Worst Site</i>	10.39	7.42	5.93	↑	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	99.53%	99.99%	99.99%	↑	→

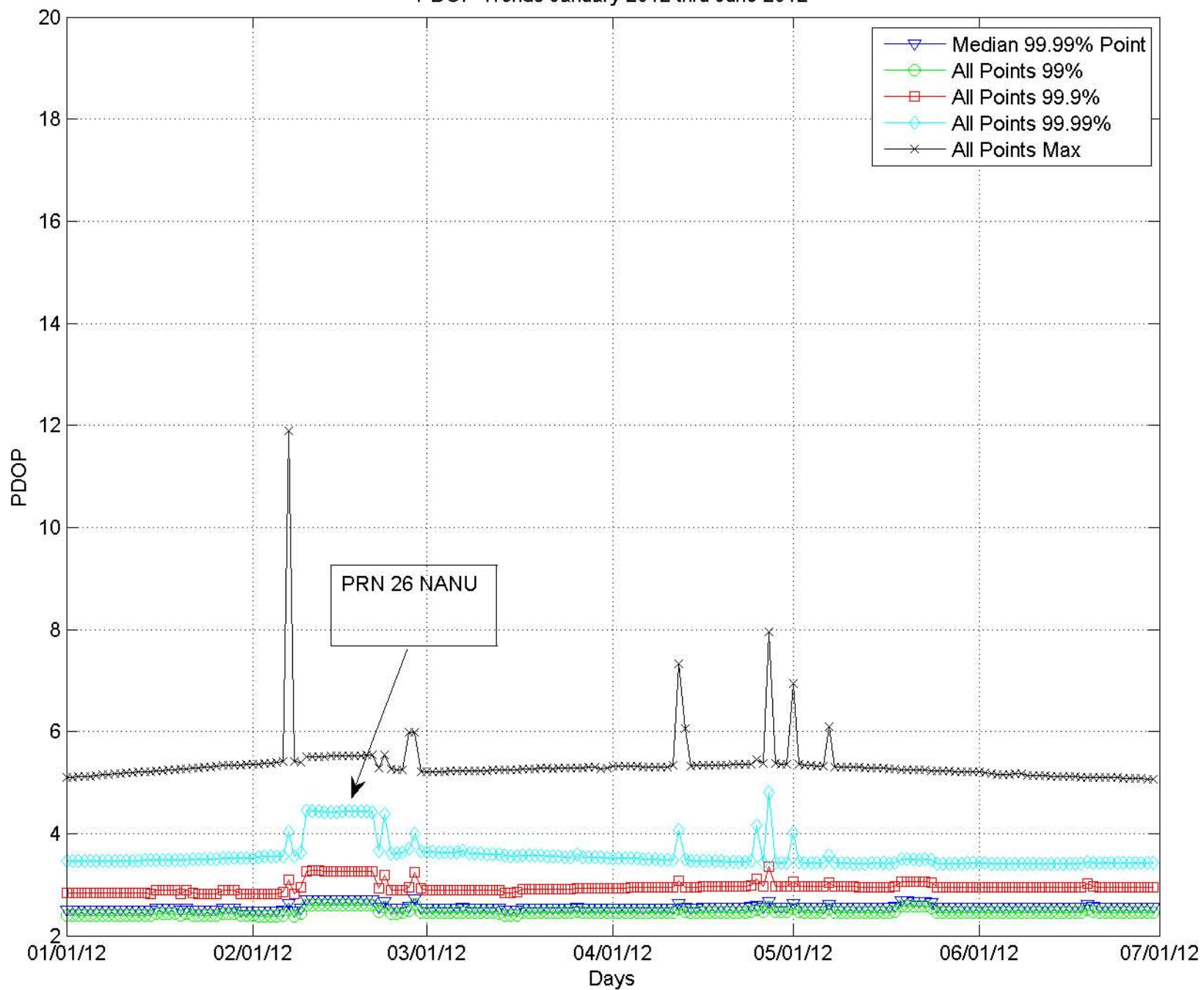
Key: ↑ improving ↓ worsening → no significant change

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

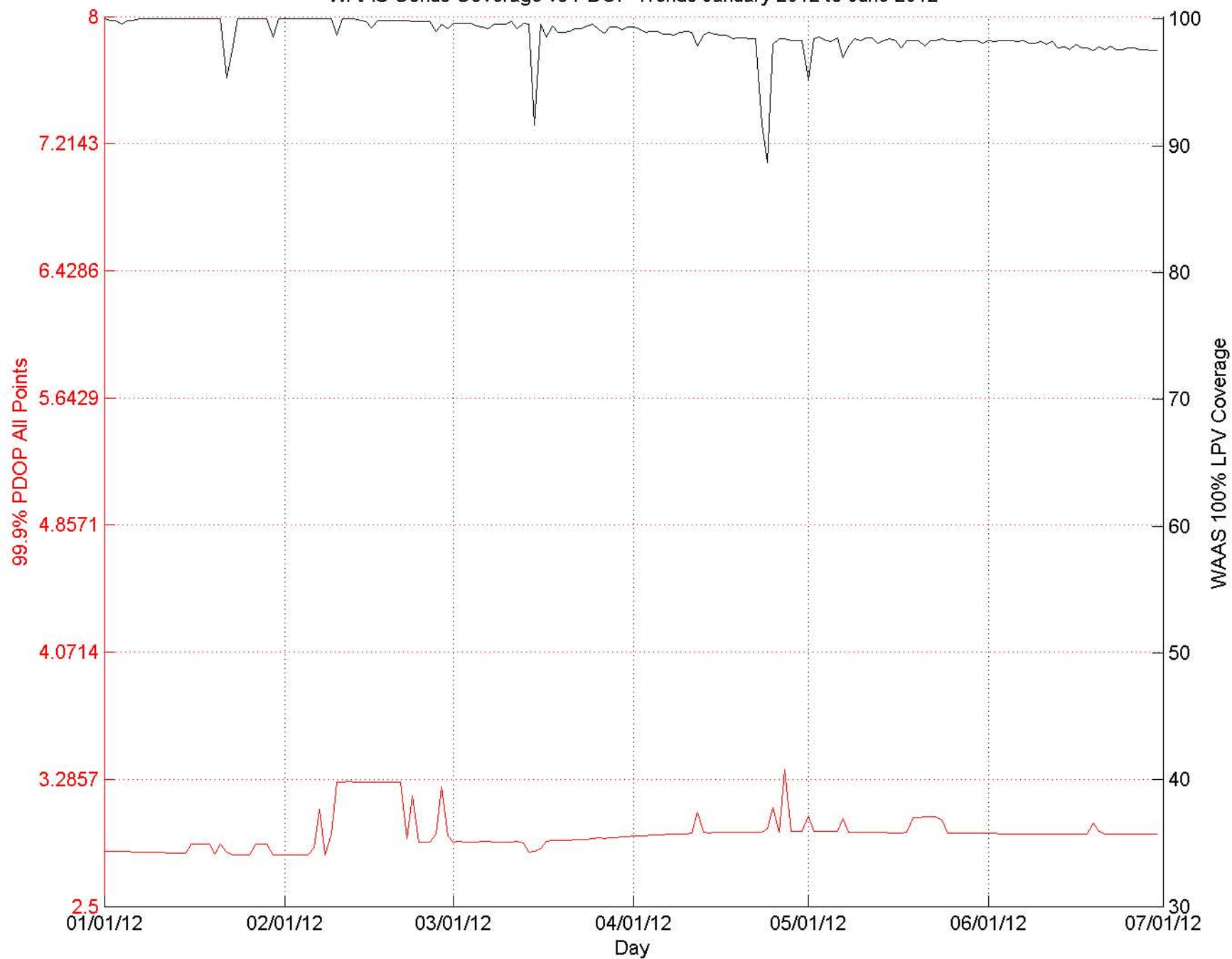
GPS World PDOP 99.99% Index June 2012



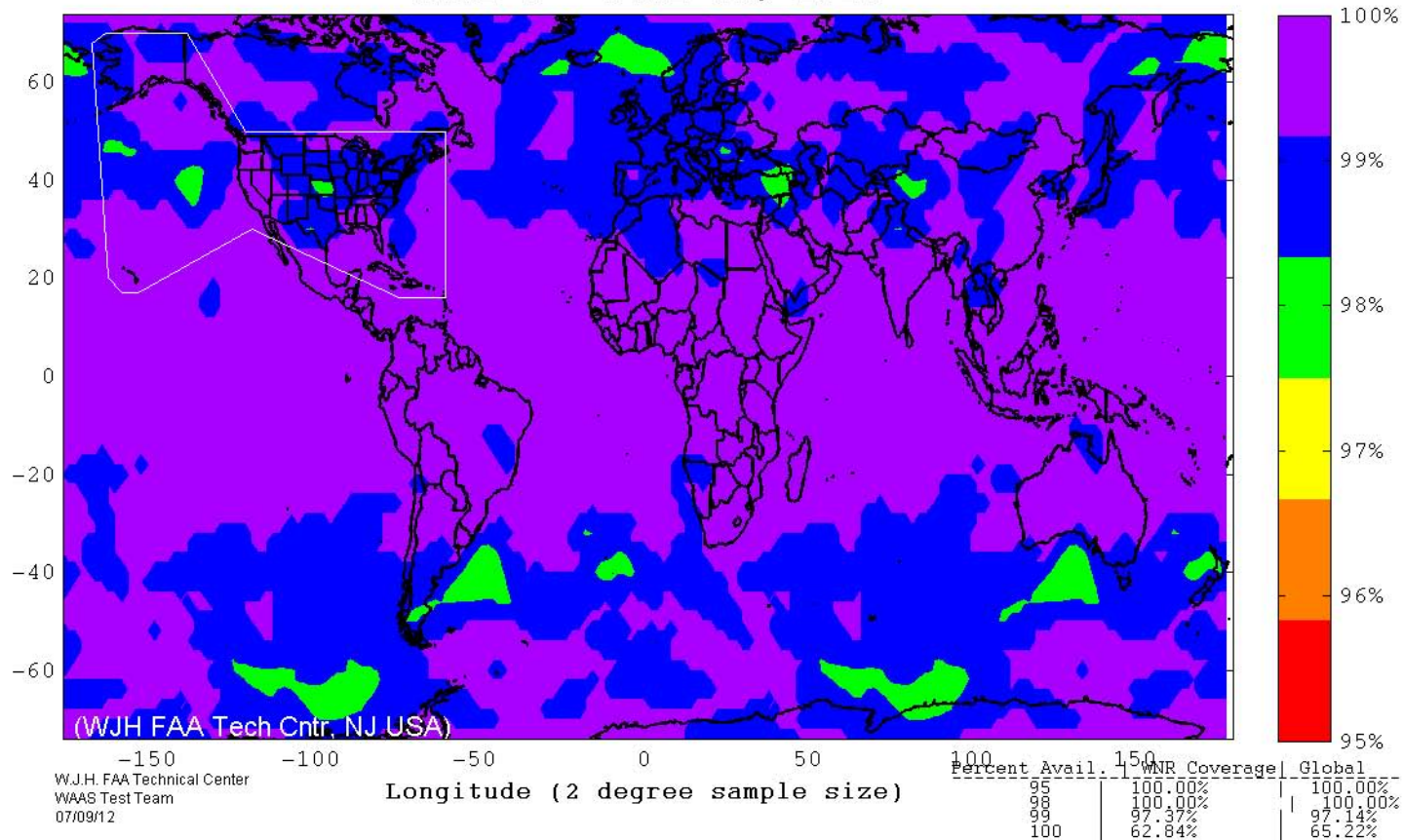
PDOP Trends January 2012 thru June 2012



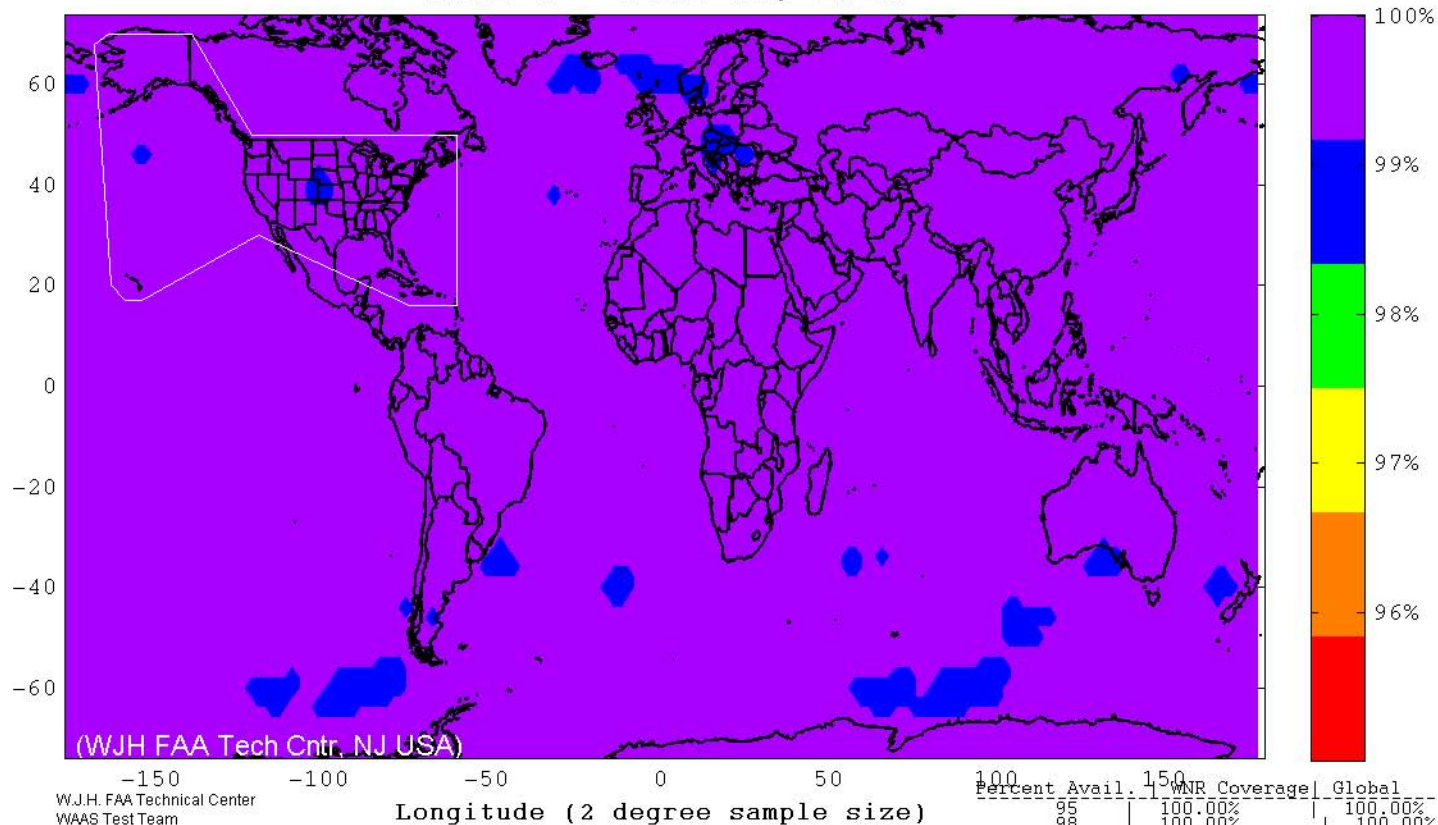
WAAS Conus Coverage vs PDOP Trends January 2012 to June 2012



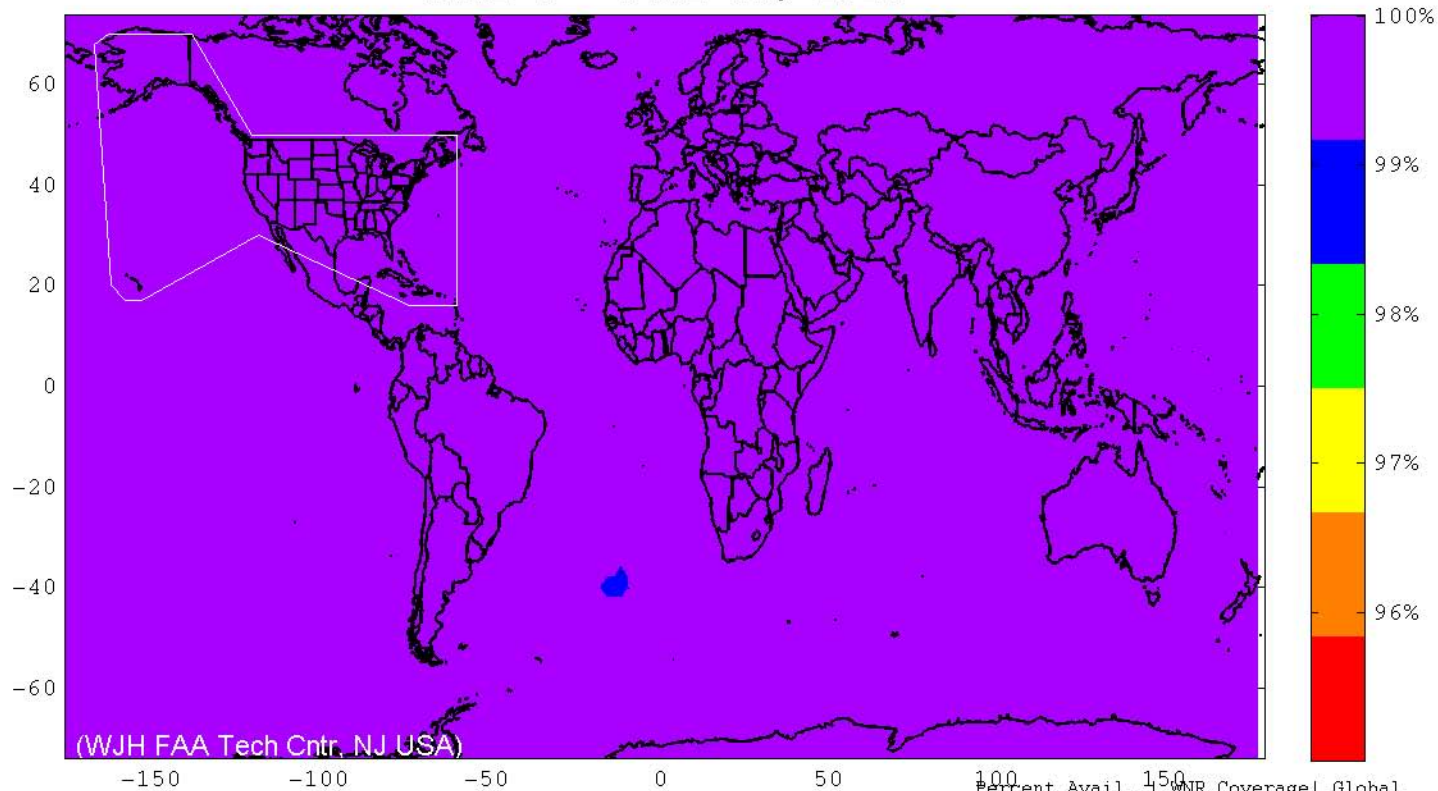
SPS RAIM (HAL=100m) Availability
 FD Only, SA Off, without Baro-Aiding
 June 1 - June 30, 2012



SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 June 1 - June 30, 2012



SPS RAIM RNP 0.3 (HAL = 556m) Availability
 FD Only, SA Off, without Baro-Aiding
 June 1 - June 30, 2012

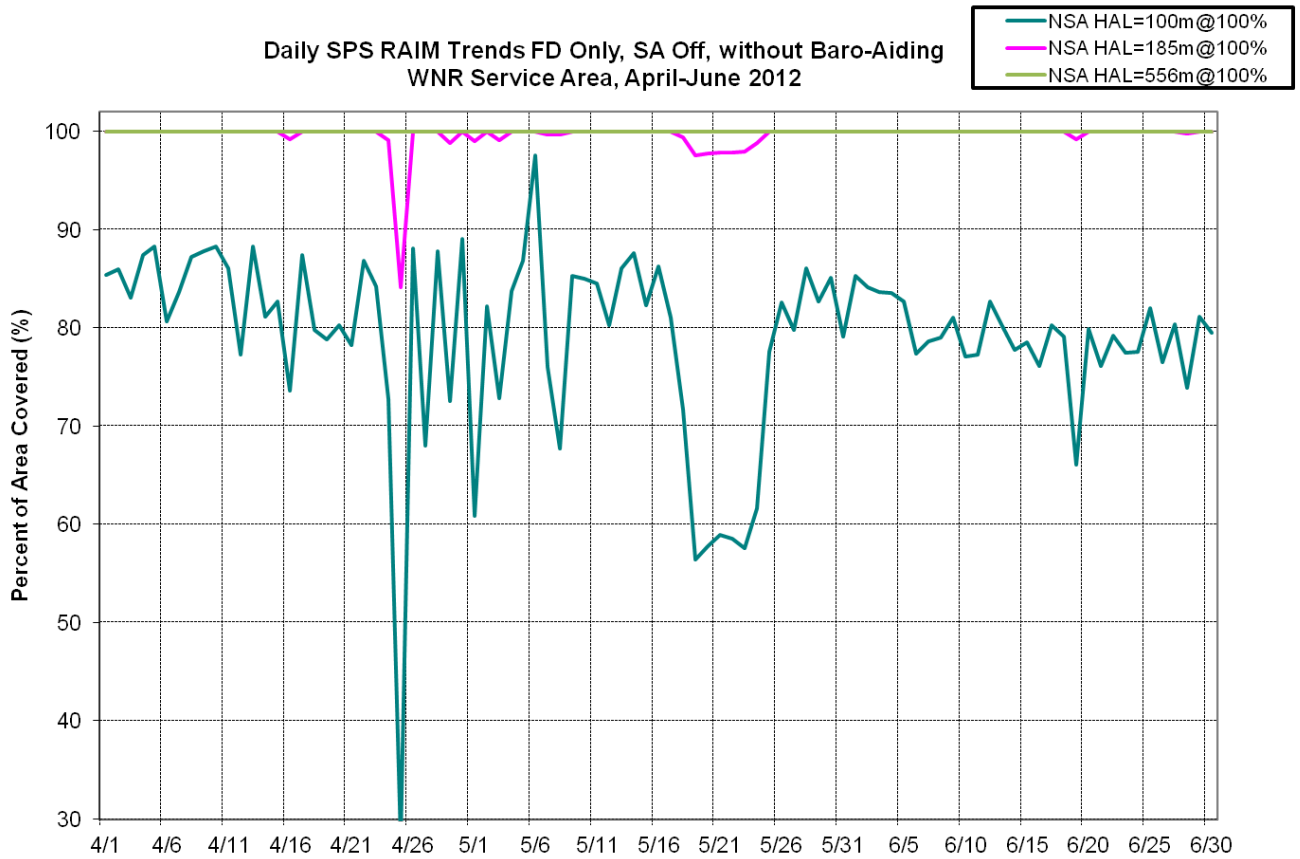


W.J.H. FAA Technical Center
 WAAS Test Team
 07/09/12

Longitude (2 degree sample size)

Percent Avail.	WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	100.00%	99.97%

Daily SPS RAIM Trends FD Only, SA Off, without Baro-Aiding
WNR Service Area, April-June 2012



Daily SPS RAIM Trends FD Only, SA Off, without Baro-Aiding
World Service Area, April-June 2012

