

Civil Report Card On GPS Performance

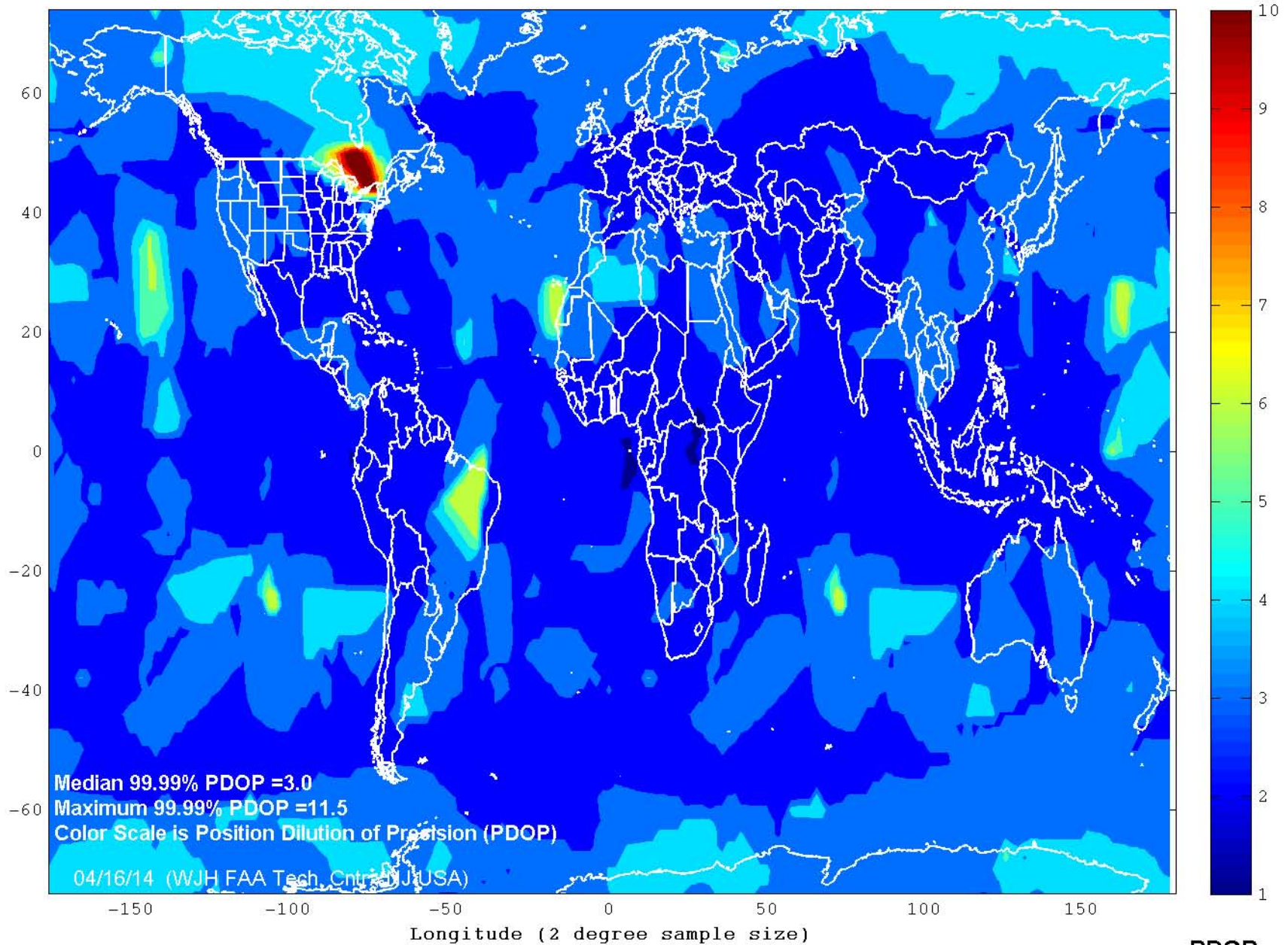
March 2014

Operational Performance Parameter	CY 2013	Feb 2014	Mar 2014	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.97	30.71	29.97	↓	↓
<i>Average number of satellites usable in primary slots</i>	23.98 (99.94%)	23.98 (99.90%)	23.98 (99.91%)	↓	↑
<i>Average availability of 6 satellites in view</i>	99.99%	99.99%	99.99%	→	→
99.99% Horizontal DOP					
<i>Area Median</i>	1.4	1.5	1.5	↓	→
<i>Worst Site</i>	35.6	18.1	4.1	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.4	2.7	2.7	↓	→
<i>Worst Site</i>	71.9	37.5	11.0	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.8	3.0	3.0	↓	→
<i>Worst Site</i>	80.3	41.6	11.5	↑	↑
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	73.24%	23.79%	7.37%	↓	↓
<i>World</i>	65.97%	33.10%	29.50%	↓	↓
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	2.06	2.35	2.35	↓	→
<i>Worst Satellite</i>	4.37	3.34	2.91	↑	↑
95% Horizontal Error					
<i>Area Median</i>	2.78	3.34	3.62	↓	↓
<i>Worst Site</i>	8.07	9.49	12.2	↓	↓
<i>Availability (% <4.5m (historical 3-sigma))</i>	98.68%	96.53%	95.96%	↓	↓
95% Vertical Error					
<i>Area Median</i>	5.23	5.57	4.98	↑	↑
<i>Worst Site</i>	9.25	9.21	11.5	↓	↓
<i>Availability (% < 9m (historical 3-sigma))</i>	99.37%	99.38%	99.12%	↓	↓

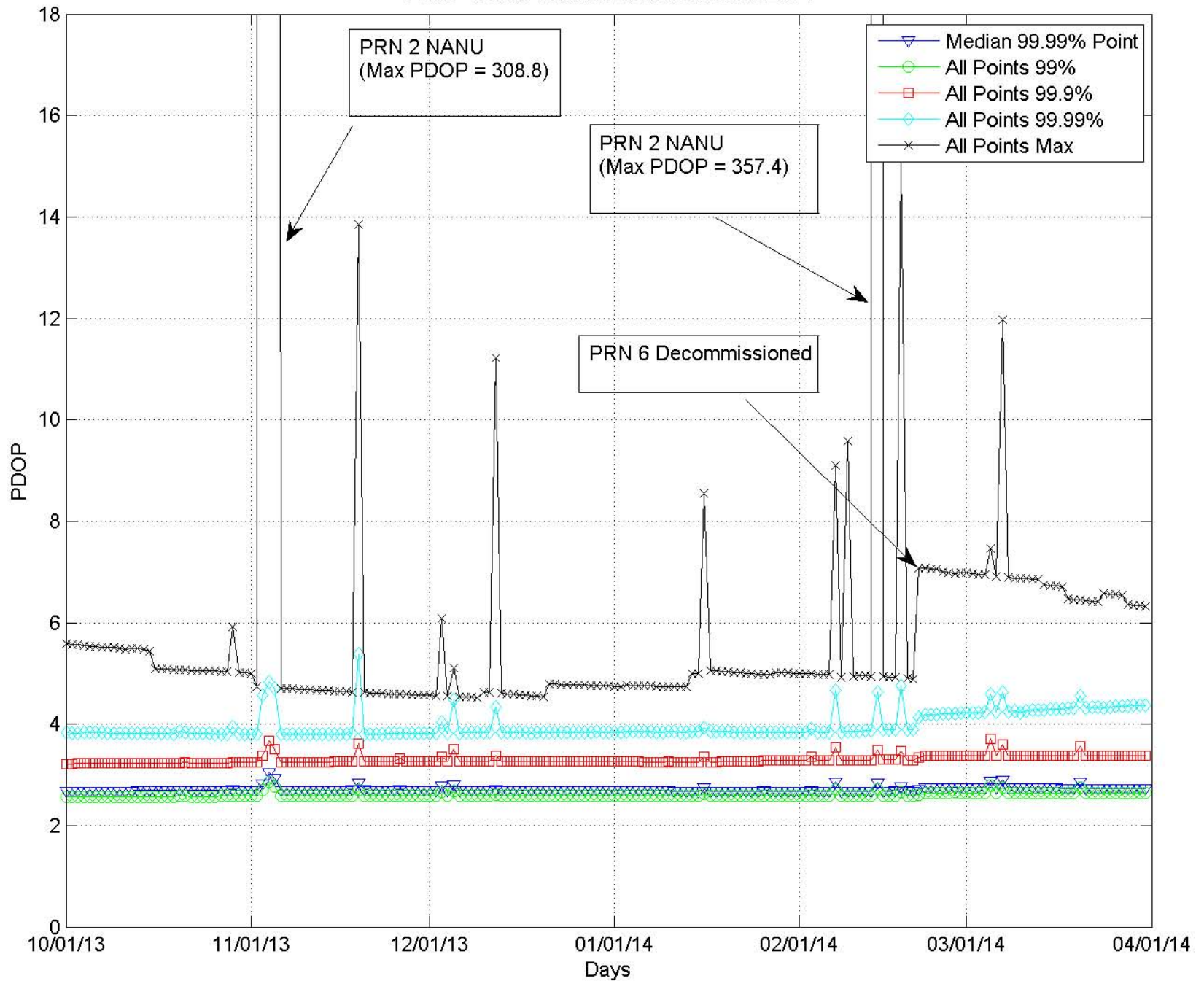
Key: ↑ improving ↓ worsening → no significant change

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

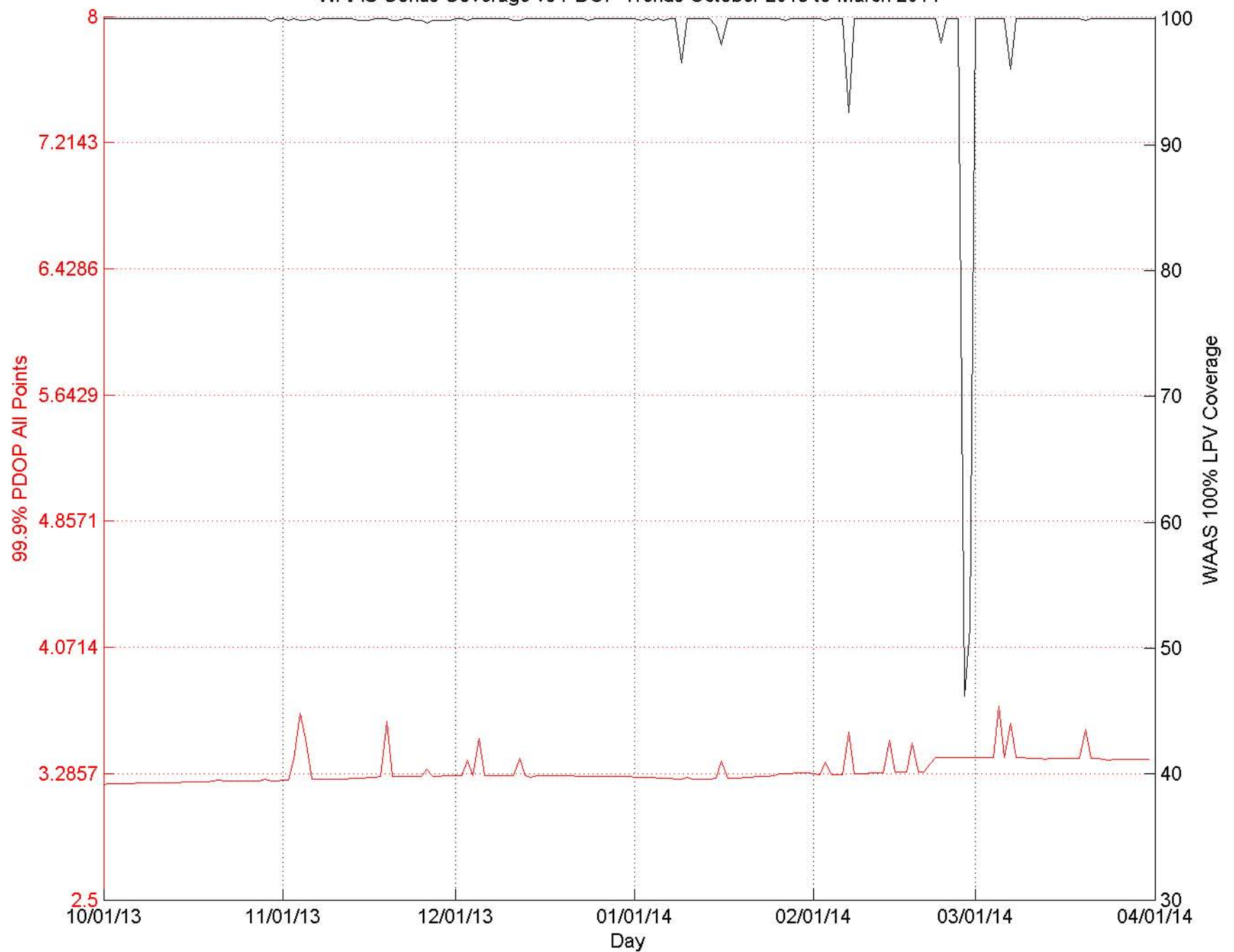
GPS World PDOP 99.99% Index March 2014



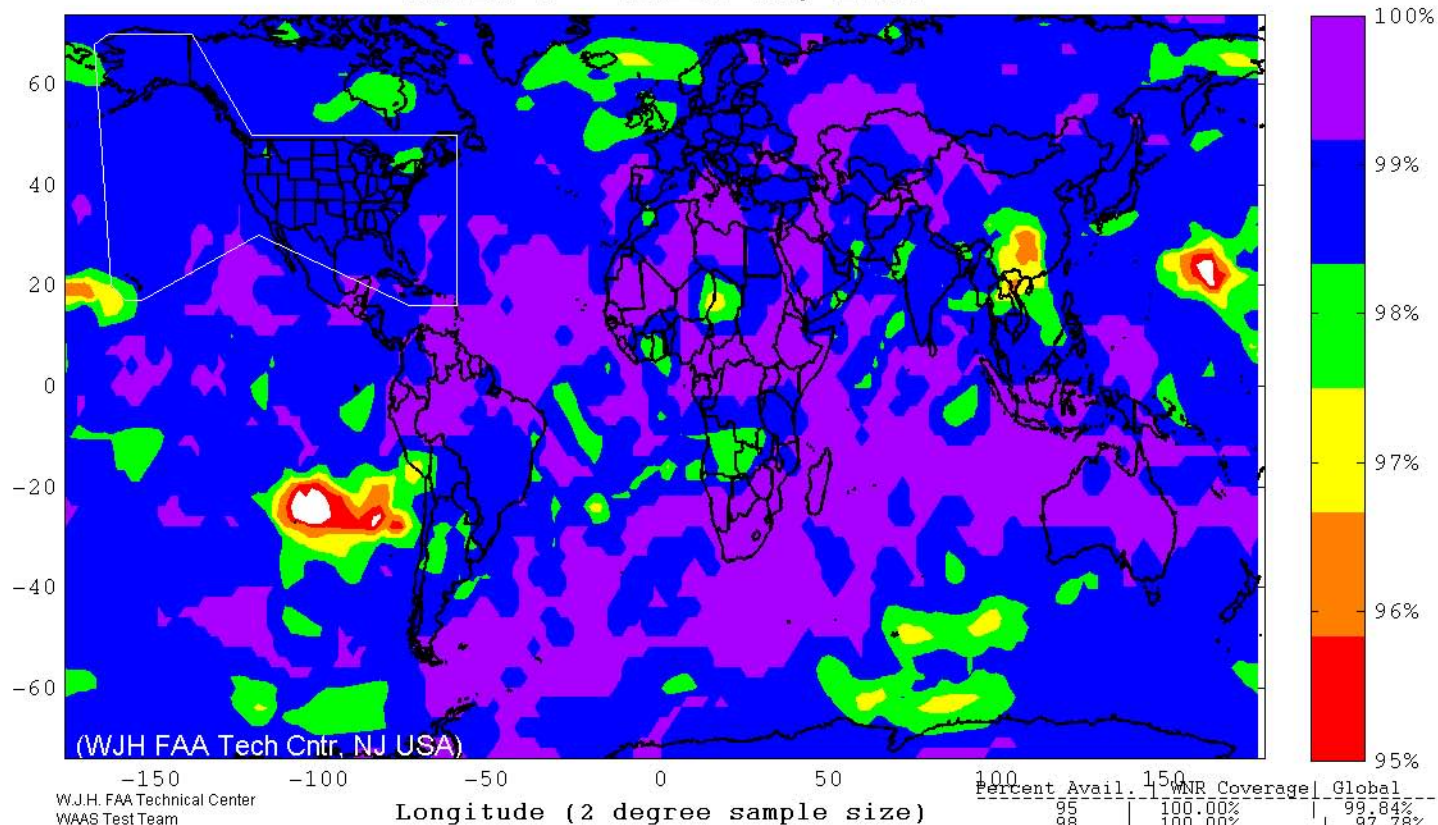
PDOP Trends October 2013 thru March 2014



WAAS Conus Coverage vs PDOP Trends October 2013 to March 2014



SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 March 1 - March 31, 2014



SPS RAIM RNP 0.3 (HAL = 556m) Availability
 FD Only, SA Off, without Baro-Aiding
 March 1 - March 31, 2014

