

Civil Report Card On GPS Performance

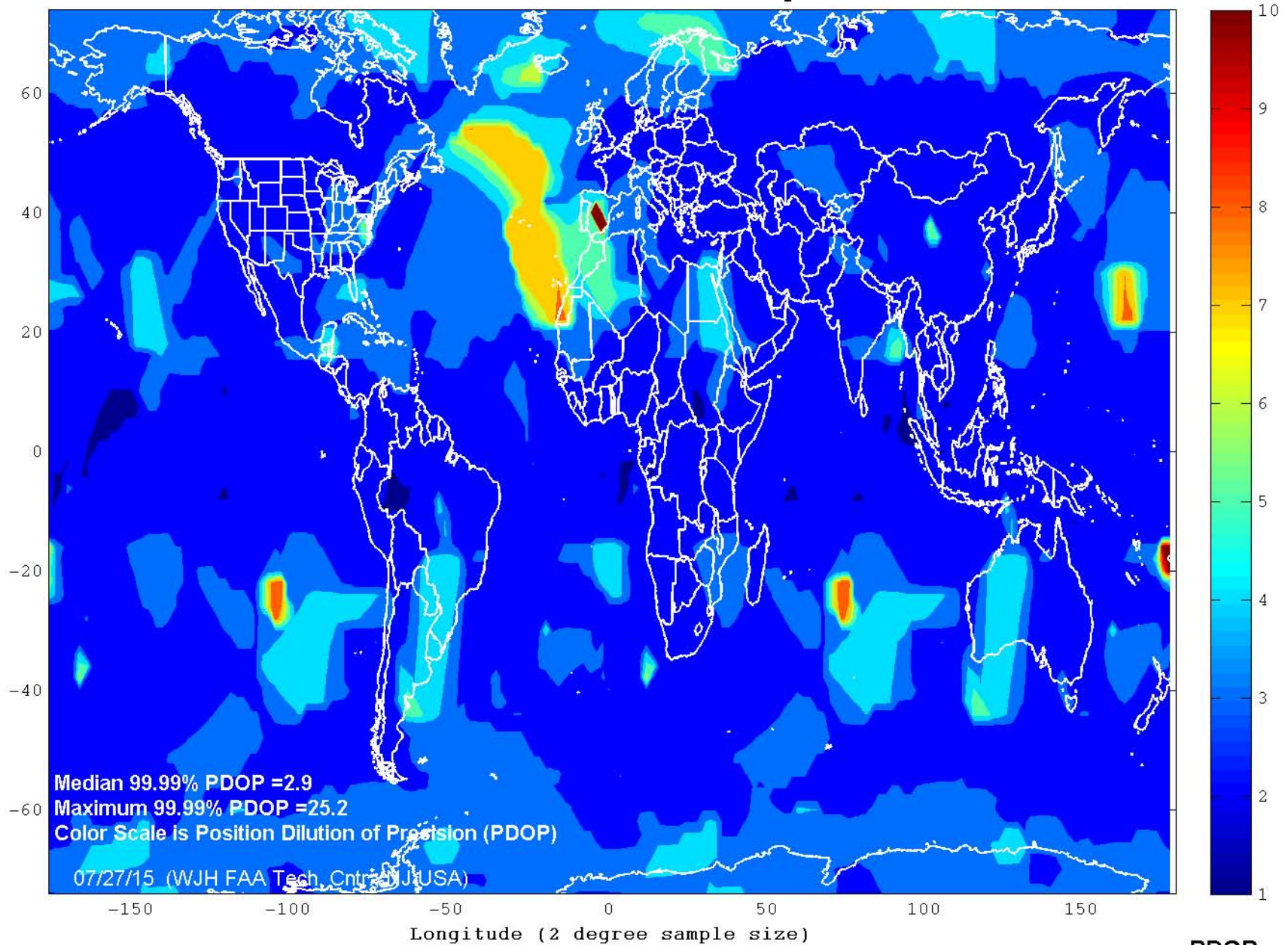
April 2015

Operational Performance Parameter	CY 2014	Mar 2015	Apr 2015	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.40	29.91	30.32	↓	↑
<i>Average number of satellites usable in primary slots</i>	23.98 (99.94%)	23.98 (99.93%)	23.98 (99.93%)	→	→
<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	1.4	→	↑
<i>Worst Site</i>	18.1	9.4	7.7	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.5	2.7	2.5	→	↑
<i>Worst Site</i>	43.0	34.5	24.0	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.8	3.0	2.8	→	↑
<i>Worst Site</i>	43.4	35.7	25.2	↑	↑
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	43.96%	7.16%	45.05%	↑	↑
<i>World</i>	47.30%	21.32%	42.65%	↓	↑
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	2.25	2.13	2.24	↑	↓
<i>Worst Satellite</i>	2.69	2.62	2.73	↓	↓
95% Horizontal Error					
<i>Area Median</i>	2.62	3.26	3.59	↓	↓
<i>Worst Site</i>	10.23	9.92	9.26	↑	↑
<i>Availability (% <4.5m (historical 3-sigma))</i>	97.72%	97.27%	96.66%	↓	↓
95% Vertical Error					
<i>Area Median</i>	5.52	4.86	5.02	↑	↓
<i>Worst Site</i>	9.87	9.25	8.54	↑	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	98.90%	99.64%	99.38%	↑	↓

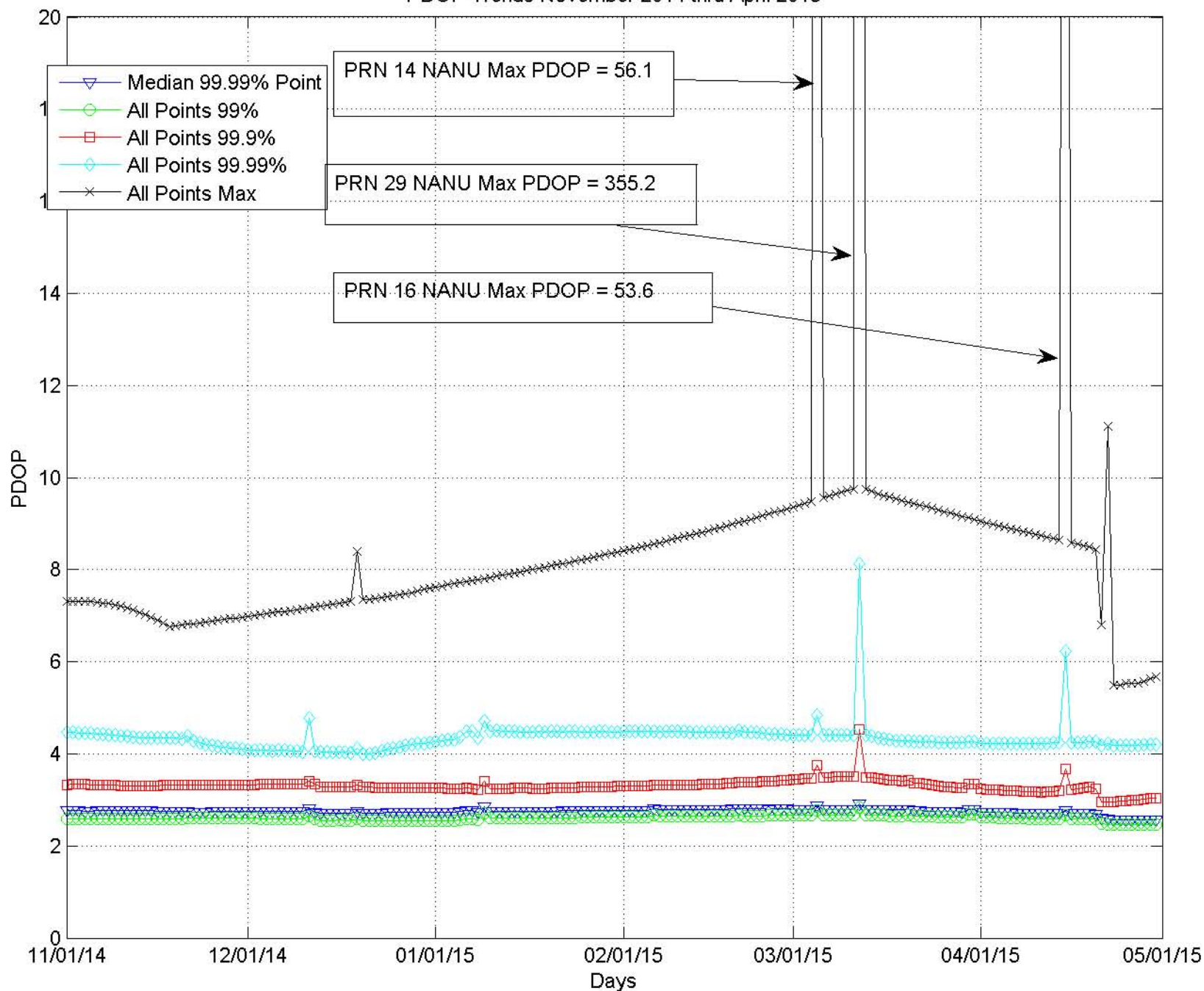
Key: ↑ improving ↓ worsening → no significant change

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

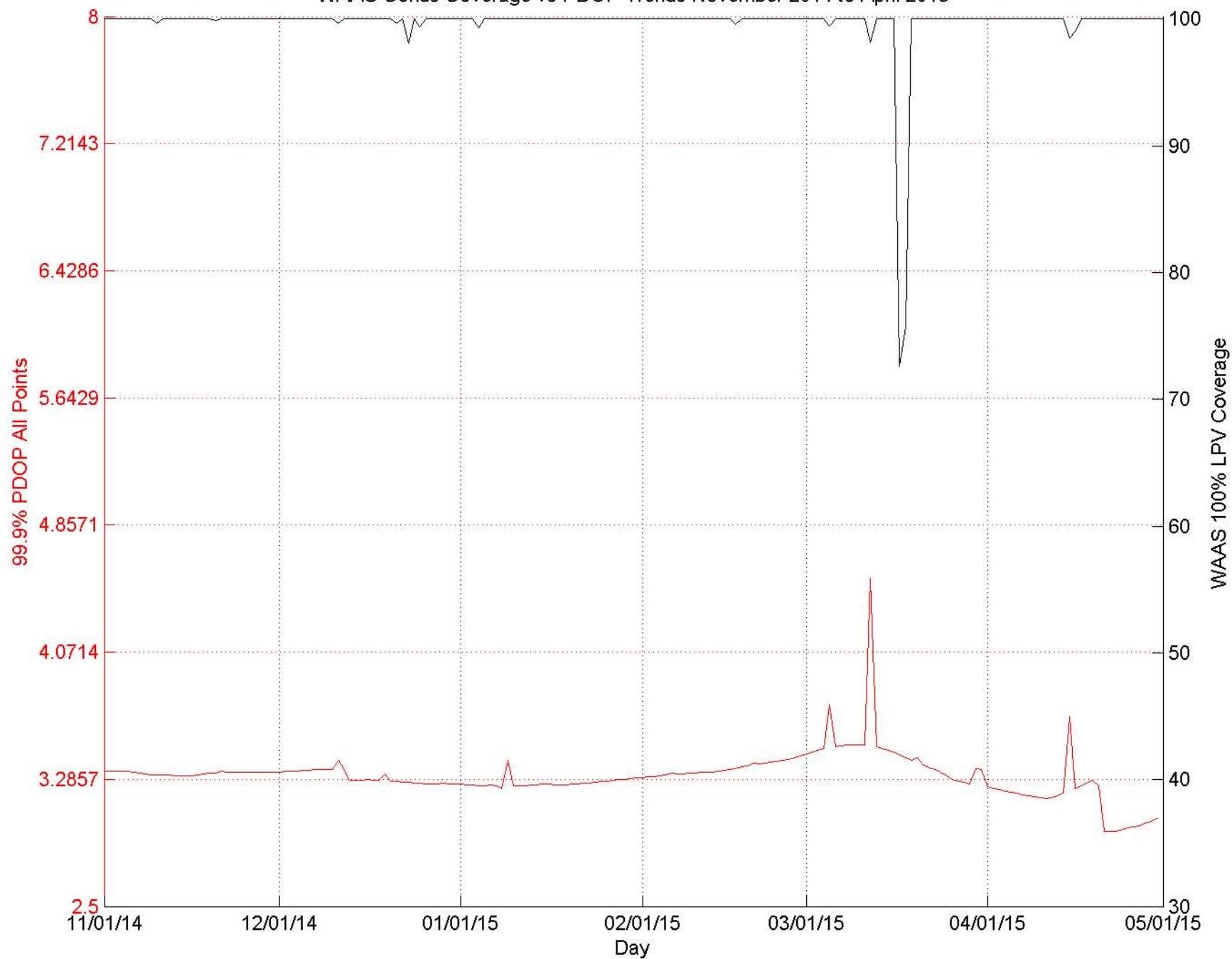
GPS World PDOP 99.99% Index April 2015



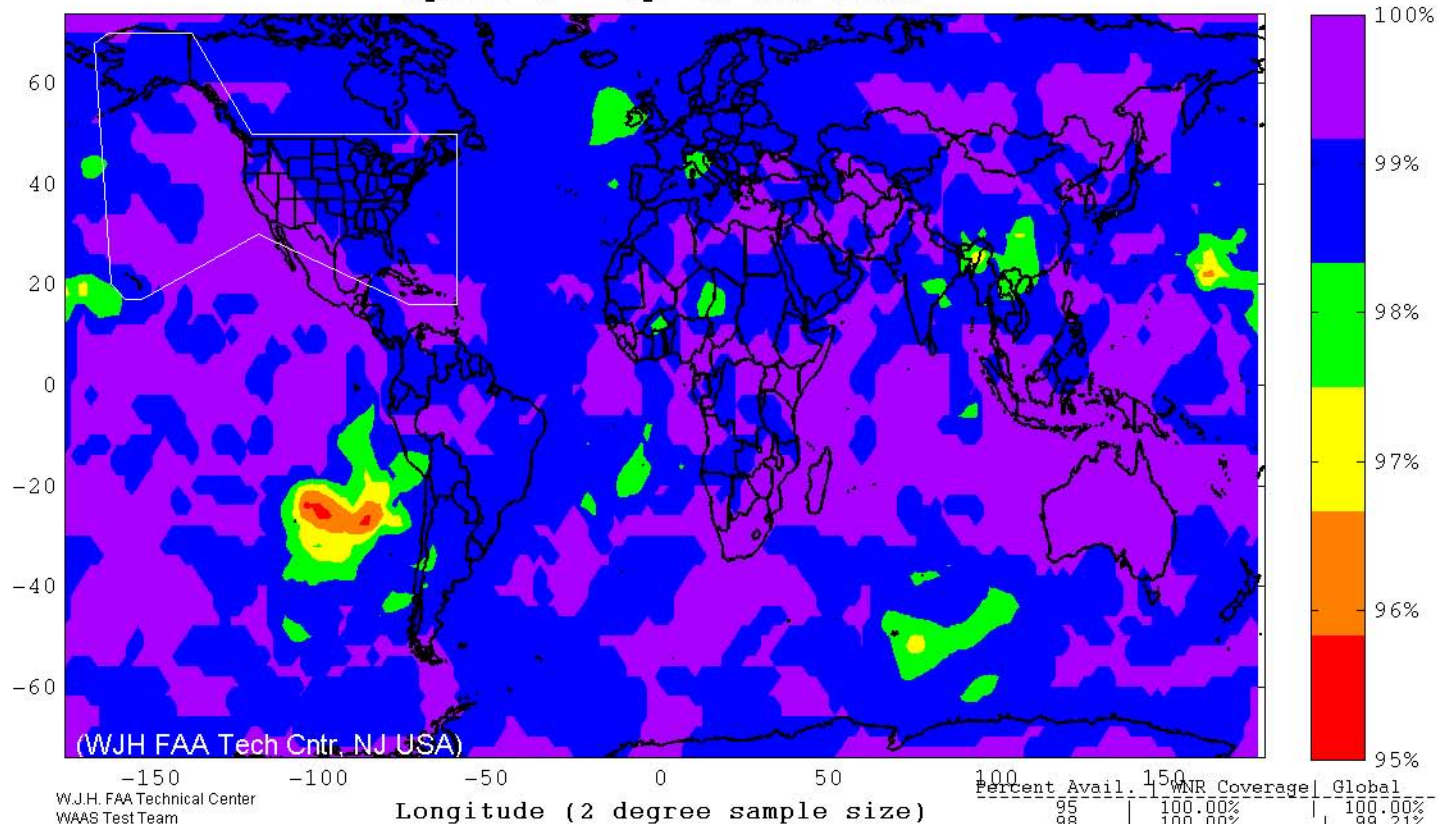
PDOP Trends November 2014 thru April 2015



WAAS Conus Coverage vs PDOP Trends November 2014 to April 2015



SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 April 1 - April 30, 2015



SPS RAIM RNP 0.3 (HAL = 556m) Availability
 FD Only, SA Off, without Baro-Aiding
 April 1 - April 30, 2015

