

Civil Report Card On GPS Performance

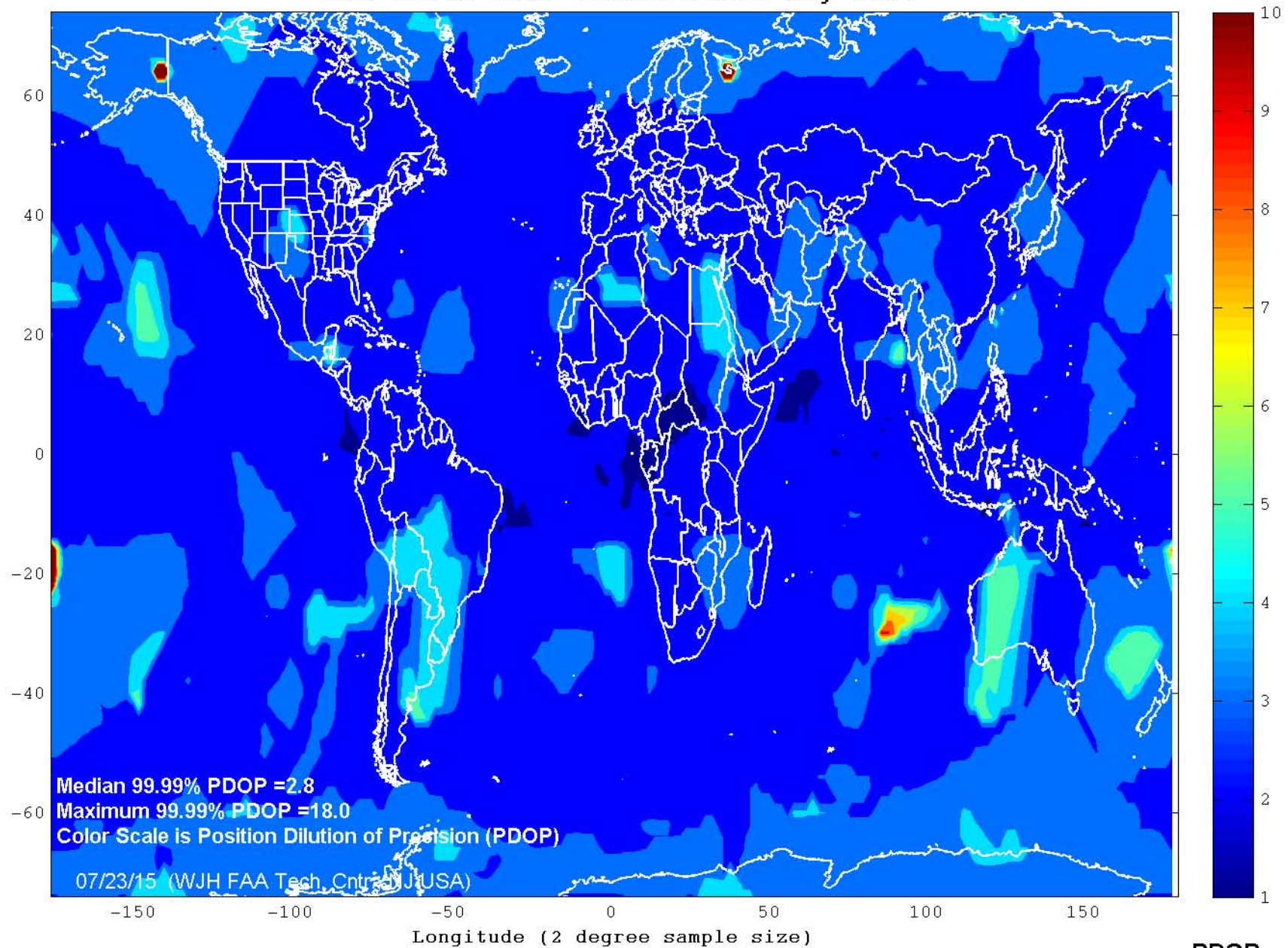
May 2015

Operational Performance Parameter	CY 2014	Apr 2015	May 2015	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.40	30.32	30.97	↑	↑
<i>Average number of satellites usable in primary slots</i>	23.98 (99.94%)	23.98 (99.93%)	23.97 (99.89%)	↓	↓
<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	1.4	1.4	→	→
<i>Worst Site</i>	18.1	7.7	4.6	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.5	2.5	2.5	→	→
<i>Worst Site</i>	43.0	24.0	17.4	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.8	2.8	2.8	→	→
<i>Worst Site</i>	43.4	25.2	18.0	↑	↑
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	43.96%	45.05%	55.47%	↑	↑
<i>World</i>	47.30%	42.65%	62.28%	↑	↑
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	2.25	2.24	1.98	↑	↑
<i>Worst Satellite</i>	2.69	2.73	2.43	↑	↑
95% Horizontal Error					
<i>Area Median</i>	2.62	3.59	3.04	↓	↑
<i>Worst Site</i>	10.23	9.26	6.95	↑	↑
<i>Availability (% <4.5m (historical 3-sigma))</i>	97.72%	96.66%	98.63%	↑	↑
95% Vertical Error					
<i>Area Median</i>	5.52	5.02	4.26	↑	↑
<i>Worst Site</i>	9.87	8.54	6.98	↑	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	98.90%	99.38%	99.84%	↑	↑

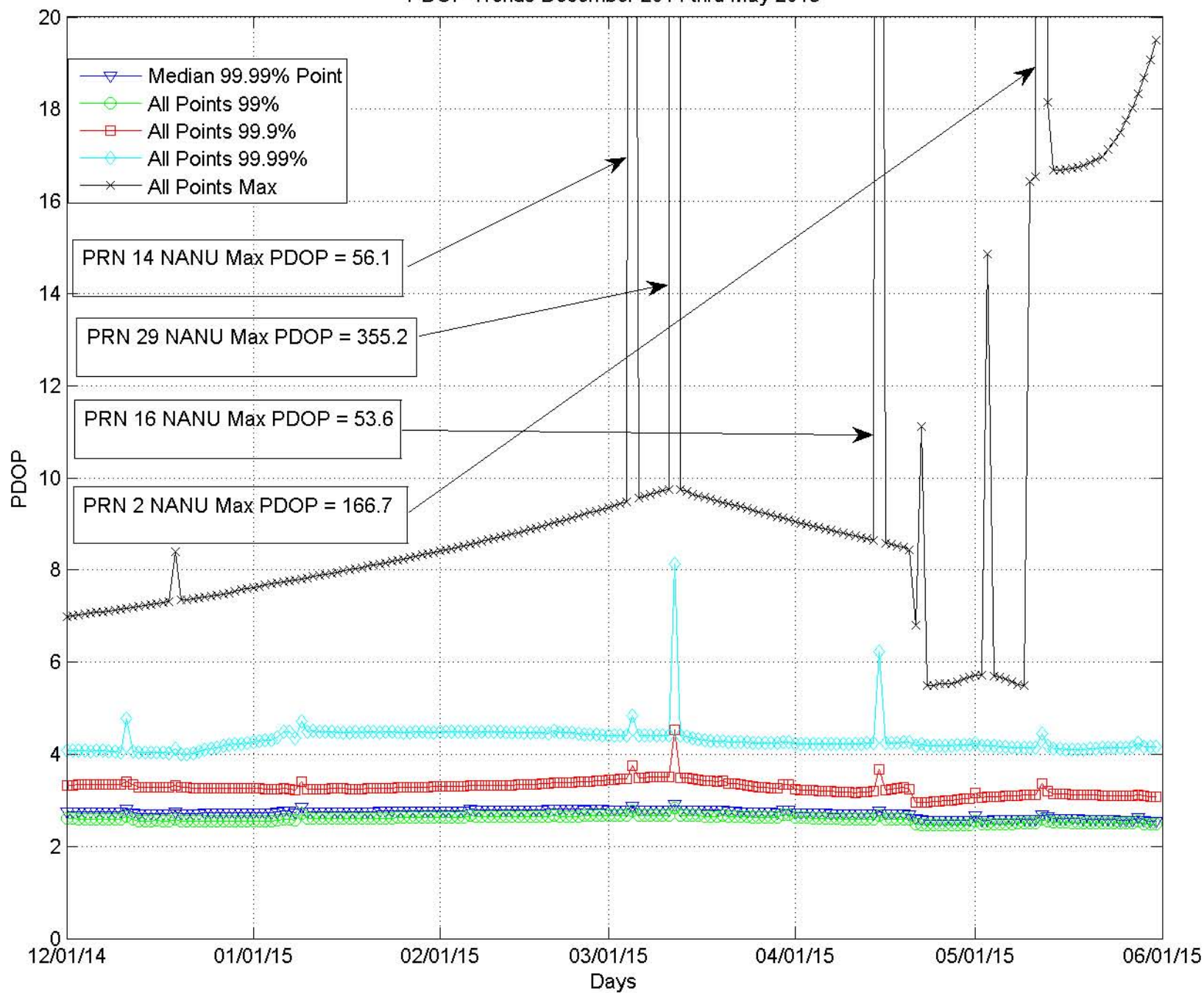
Key: ↑ improving ↓ worsening → no significant change

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

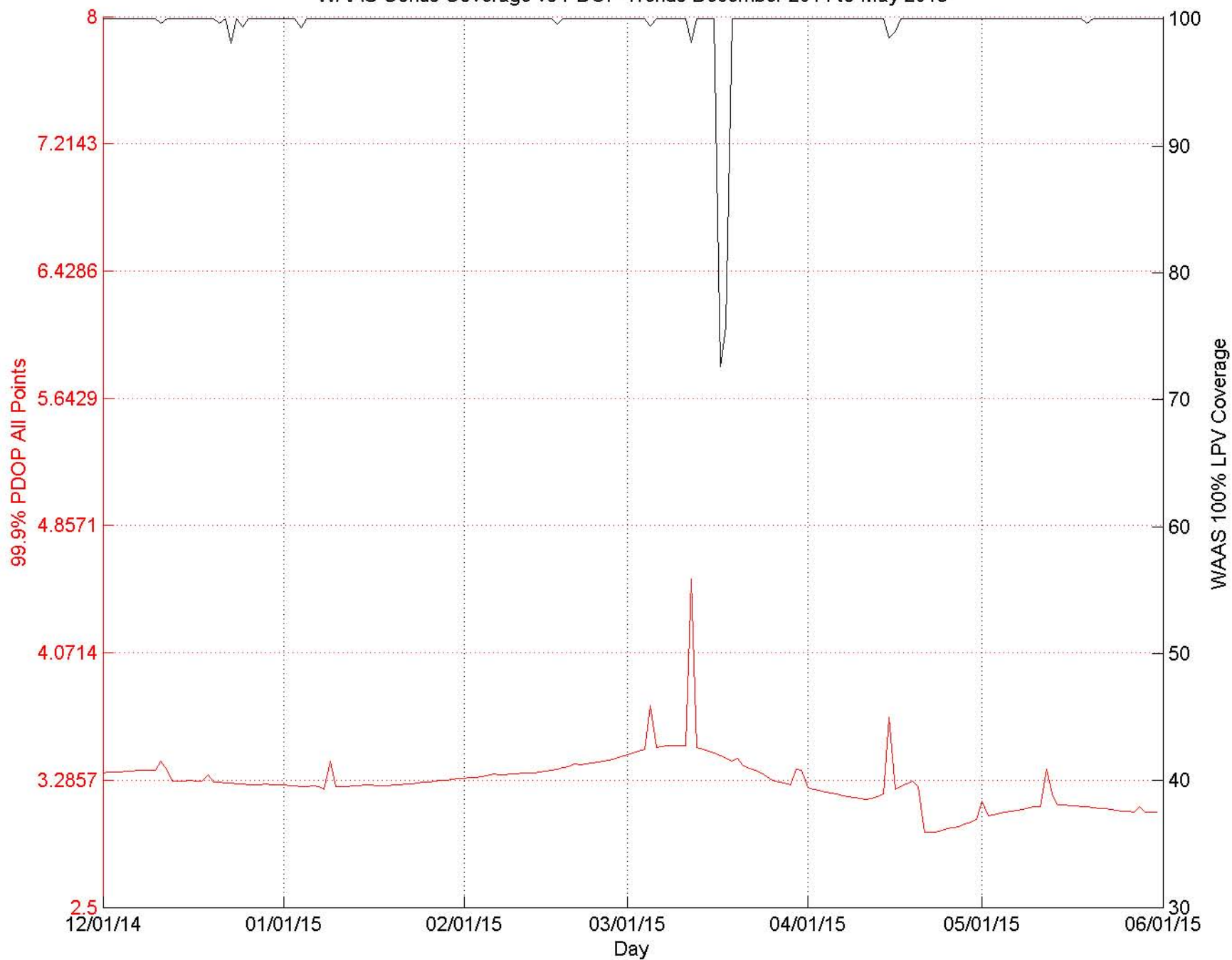
GPS World PDOP 99.99% Index May 2015



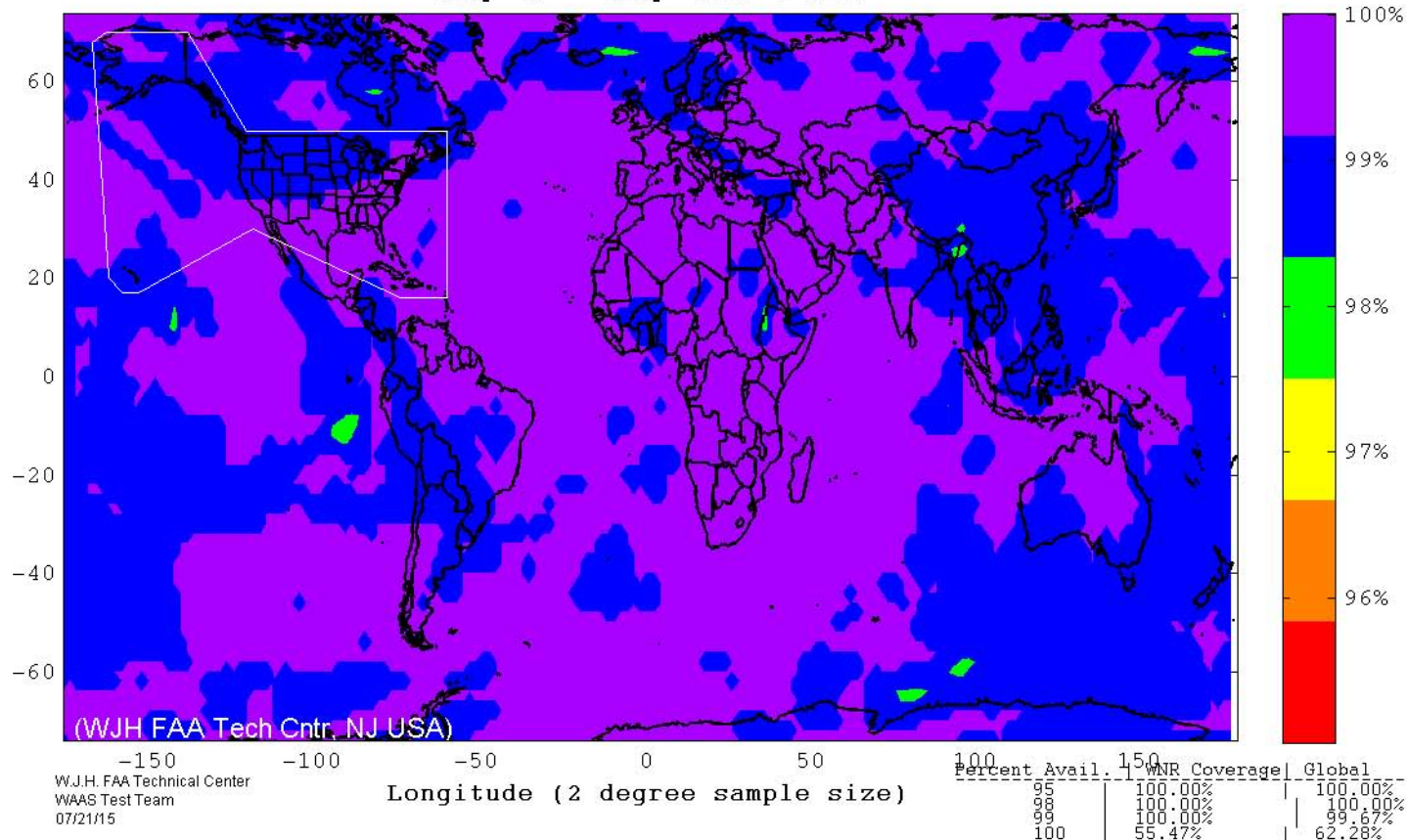
PDOP Trends December 2014 thru May 2015



WAAS Conus Coverage vs PDOP Trends December 2014 to May 2015



SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 May 1 - May 31, 2015



SPS RAIM RNP 0.3 (HAL = 556m) Availability
 FD Only, SA Off, without Baro-Aiding
 May 1 - May 31, 2015

