

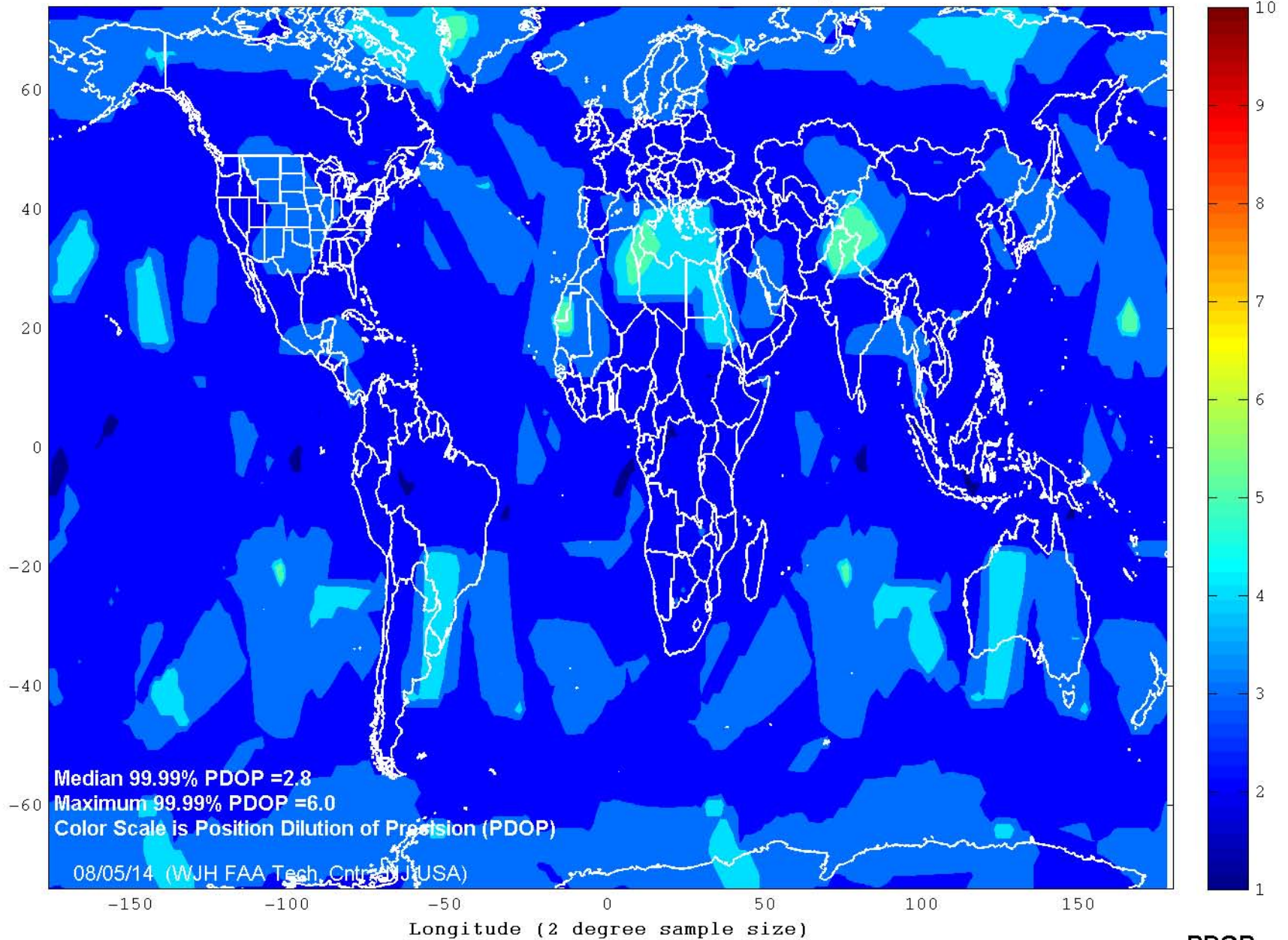
# Civil Report Card On GPS Performance July 2014

Operational Performance Parameter	CY 2013	June 2014	July 2014	Long term	Short term
<b>Availability Parameters</b>					
<i>Average Number of satellites usable</i>	30.97	30.69	30.97	→	↑
<i>Average number of satellites usable in primary slots</i>	23.985 (99.94%)	23.990 (99.95%)	23.996 (99.98%)	↑	↑
<i>Average availability of 6 satellites in view</i>	99.99%	99.99%	99.99%	→	→
<b>99.99% Horizontal DOP</b>					
<i>Area Median</i>	1.4	1.4	1.4	→	→
<i>Worst Site</i>	35.6	2.5	2.8	↑	↓
<b>99.99% Vertical DOP</b>					
<i>Area Median</i>	2.4	2.5	2.5	↓	→
<i>Worst Site</i>	71.9	5.7	5.7	↑	→
<b>99.99% Position DOP (PDOP)</b>					
<i>Area Median</i>	2.8	2.8	2.8	→	→
<i>Worst Site</i>	80.3	5.9	6.0	↑	↓
<b>100% RAIM Availability (HAL=185m)</b>					
<i>NPA Service Area (NSA)</i>	73.24%	66.11%	62.53%	↓	↓
<i>World</i>	65.97%	60.12%	55.84%	↓	↓
<b>Accuracy Parameters</b>					
<b>RMS Single Frequency User Range Error</b>					
<i>Constellation Median</i>	2.06	1.80	1.83	↑	↓
<i>Worst Satellite</i>	4.37	2.38	2.40	↑	↓
<b>95% Horizontal Error</b>					
<i>Area Median</i>	2.78	2.63	2.64	↑	↓
<i>Worst Site</i>	8.07	4.23	4.52	↑	↓
<i>Availability (% &lt;4.5m (historical 3-sigma))</i>	98.68%	99.73%	99.52%	↑	↓
<b>95% Vertical Error</b>					
<i>Area Median</i>	5.23	3.95	4.41	↑	↓
<i>Worst Site</i>	9.25	5.35	6.34	↑	↓
<i>Availability (% &lt; 9m (historical 3-sigma))</i>	99.37%	99.97%	99.92%	↑	↓

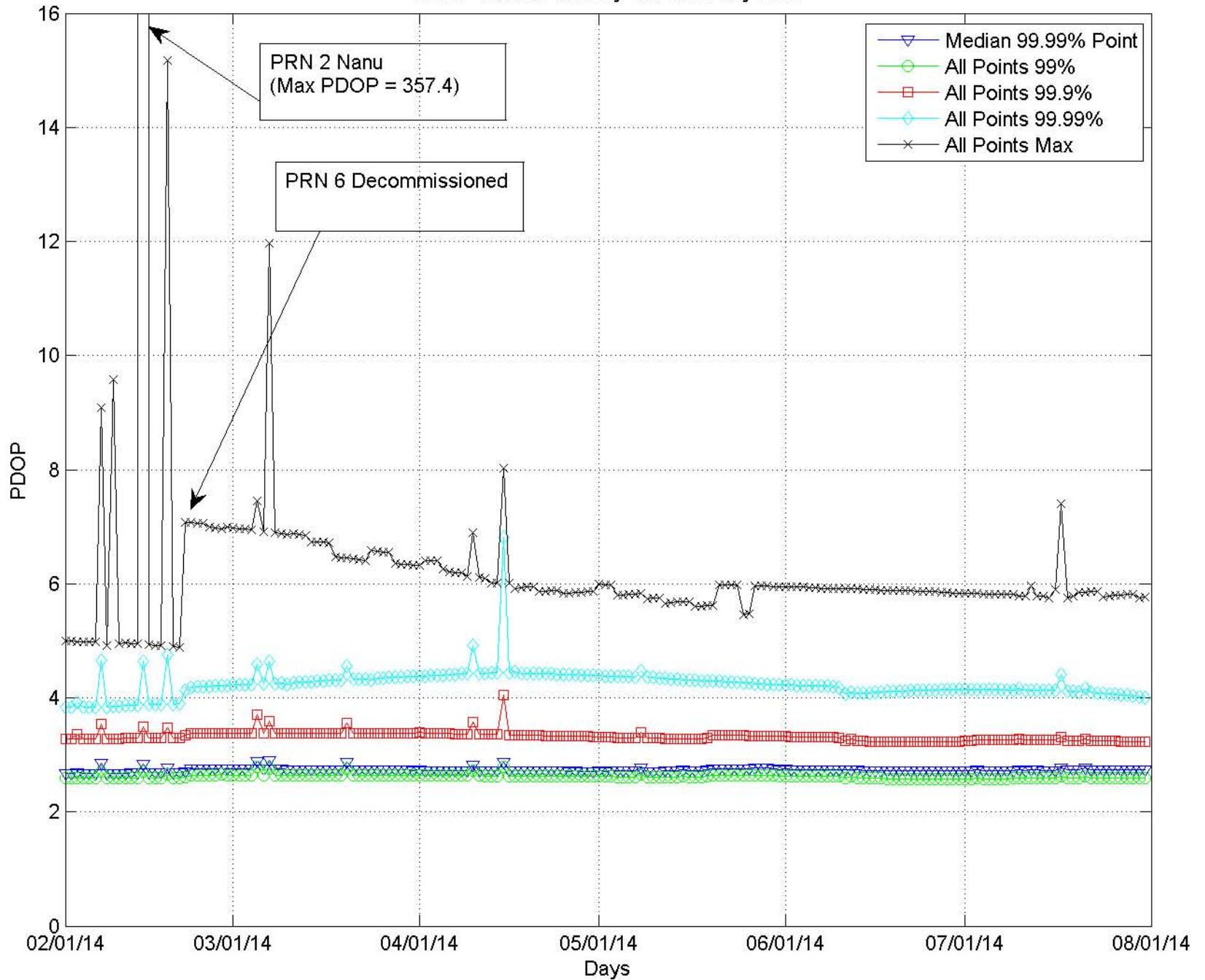
Key: ↑ improving ↓ worsening → no significant change

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

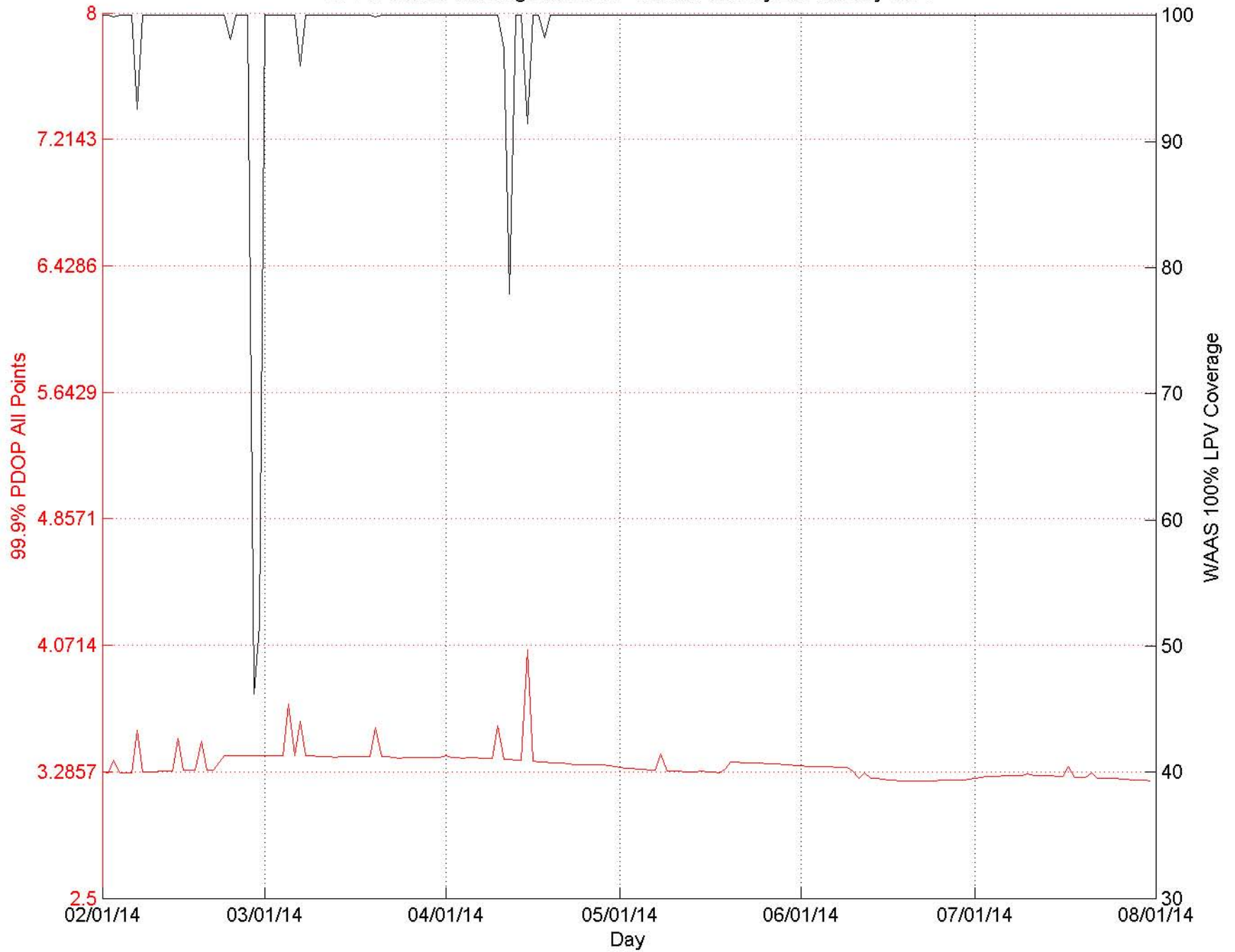
# GPS World PDOP 99.99% Index July 2014



PDOP Trends February 2014 thru July 2014

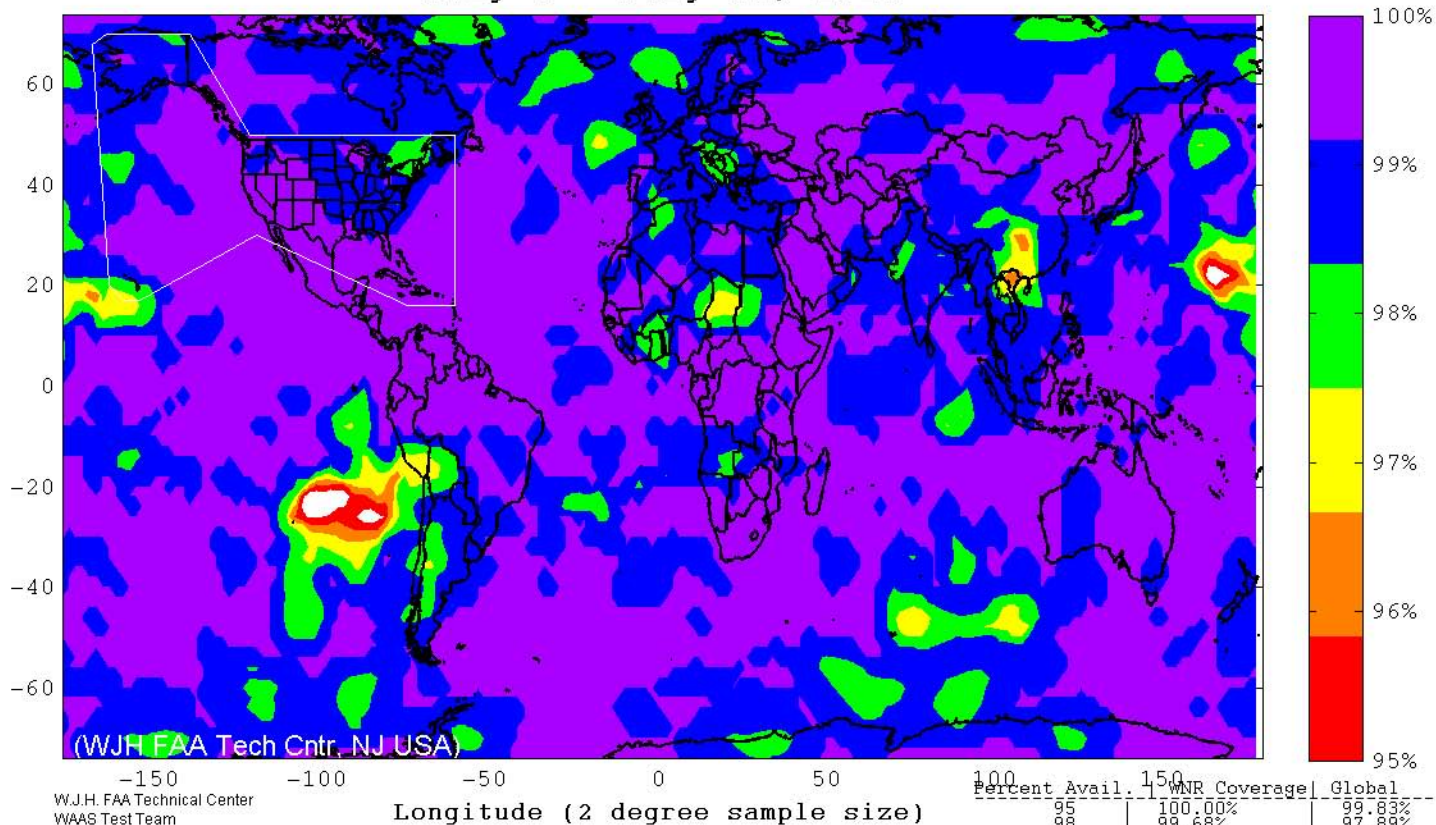


WAAS Conus Coverage vs PDOP Trends February 2014 to July 2014





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



W.J.H. FAA Technical Center  
 WAAS Test Team  
 08/05/14

Longitude (2 degree sample size)

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

