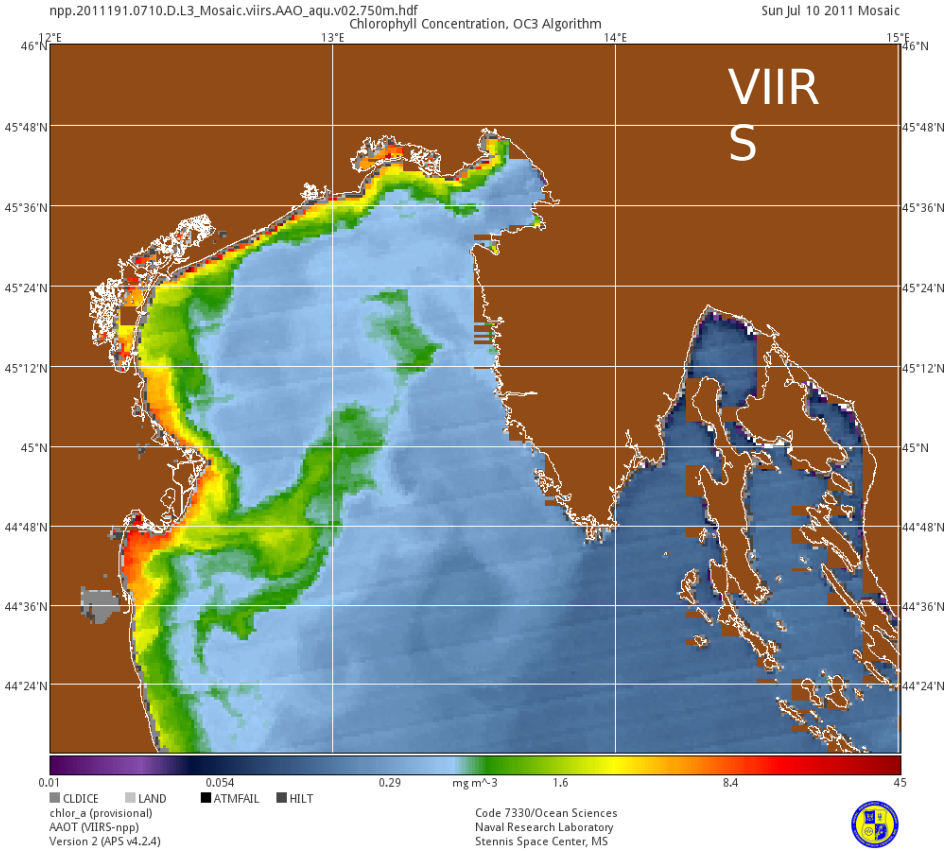
Venice

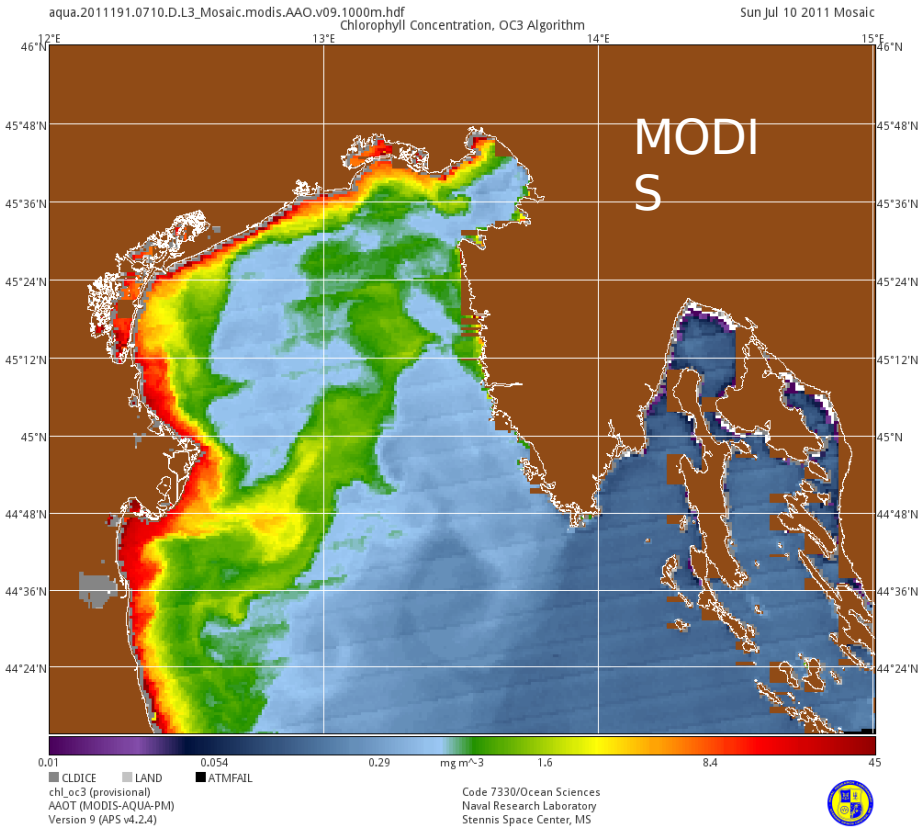
- Rehearsal
- July 10th, 2011 image
- GTP access has been down since Friday (July 15th)

  Chlorophyll-a and a_443 Image Difference and scatter plot examples

July 10, 2011 VIIR and MODIS processed



http://www7333.nrlssc.navy.mil/browse/lvl3/viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl**



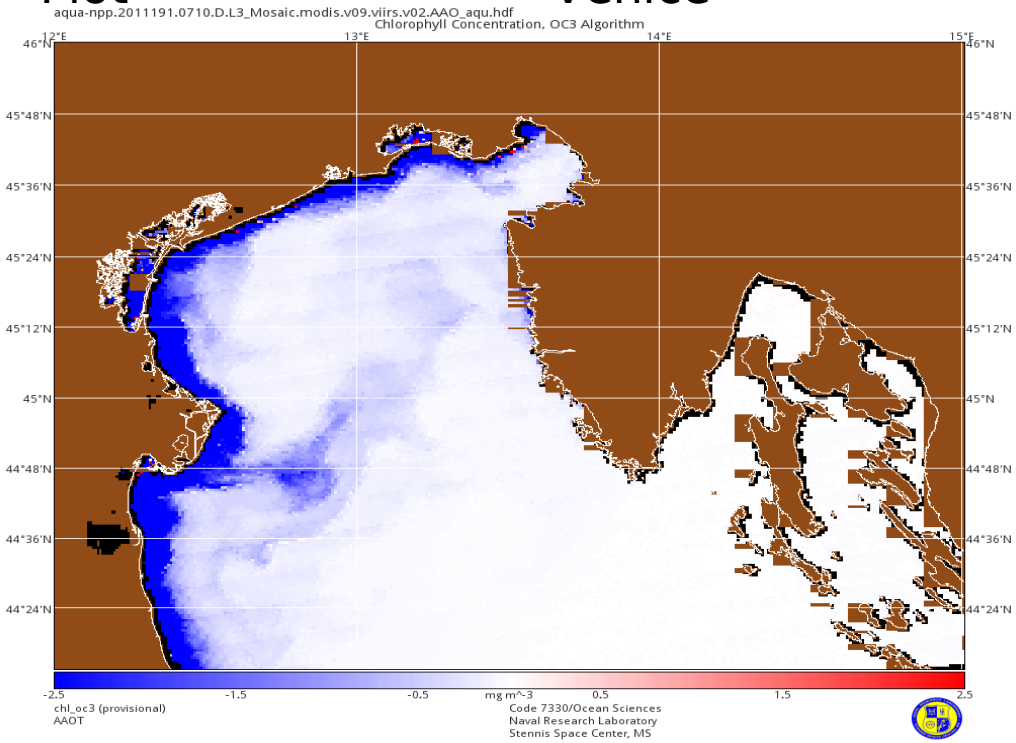
http://www7333.nrlssc.navy.mil/browse/lvl3/modis/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl*

Example of Chlorophyll.
All products processed

Remote sensing reflectance.

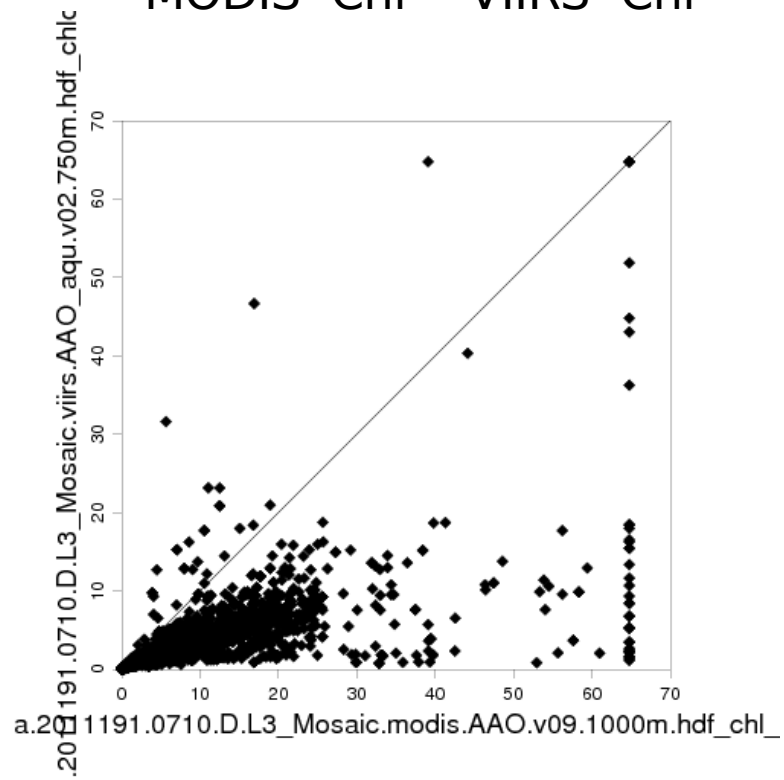
Difference Plot

July 10, 2011 - Venice



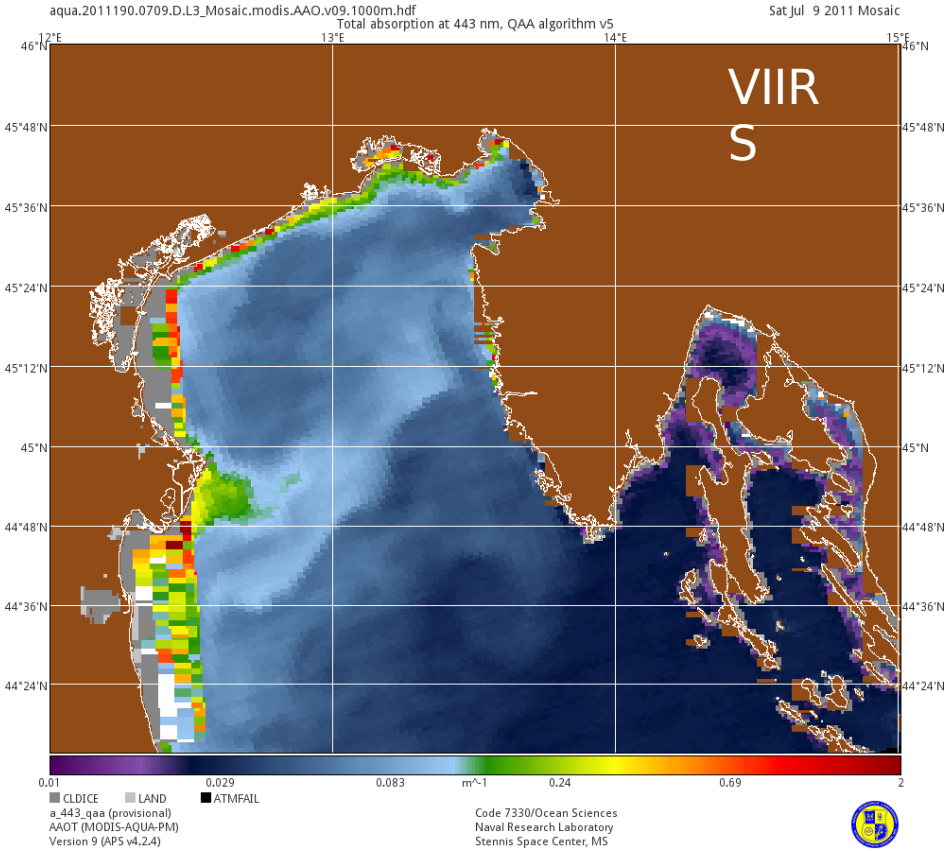
MODIS Chlor

Scatter plot MODIS Chl - VIIRS Chl

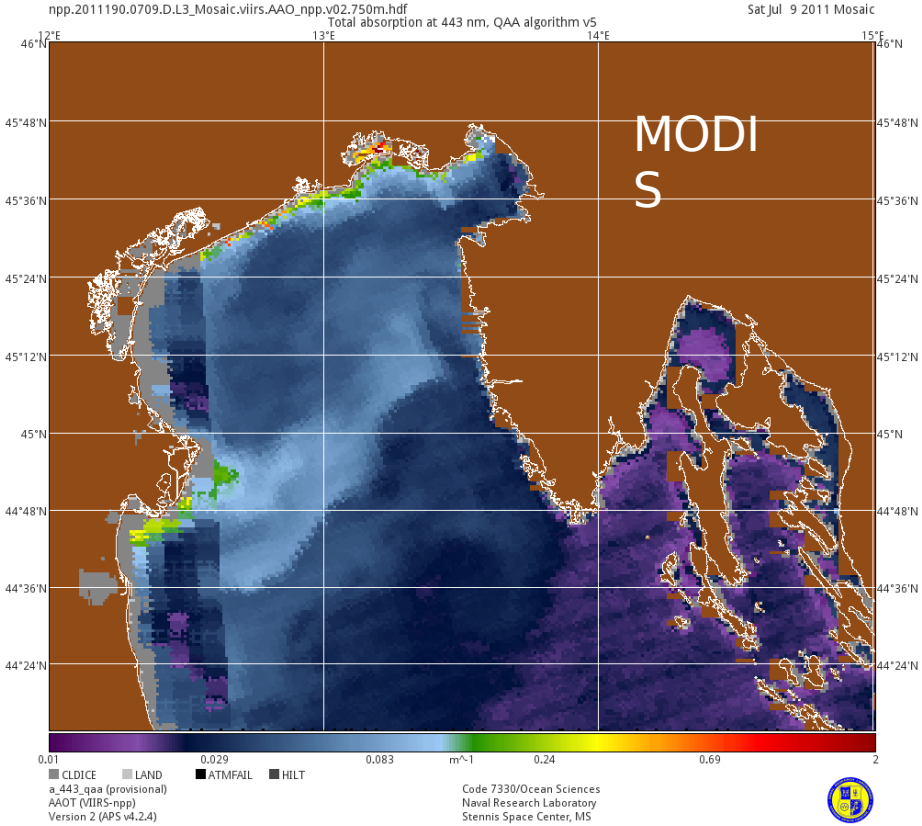


http://www7333.nrlssc.navy.mil/browse/lvl5/modis-viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl*eps

July 10, 2011 VIIR and MODIS processed



http://www7333.nrlssc.navy.mil/browse/lvl3/viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl**



http://www7333.nrlssc.navy.mil/browse/lvl3/modis/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl*

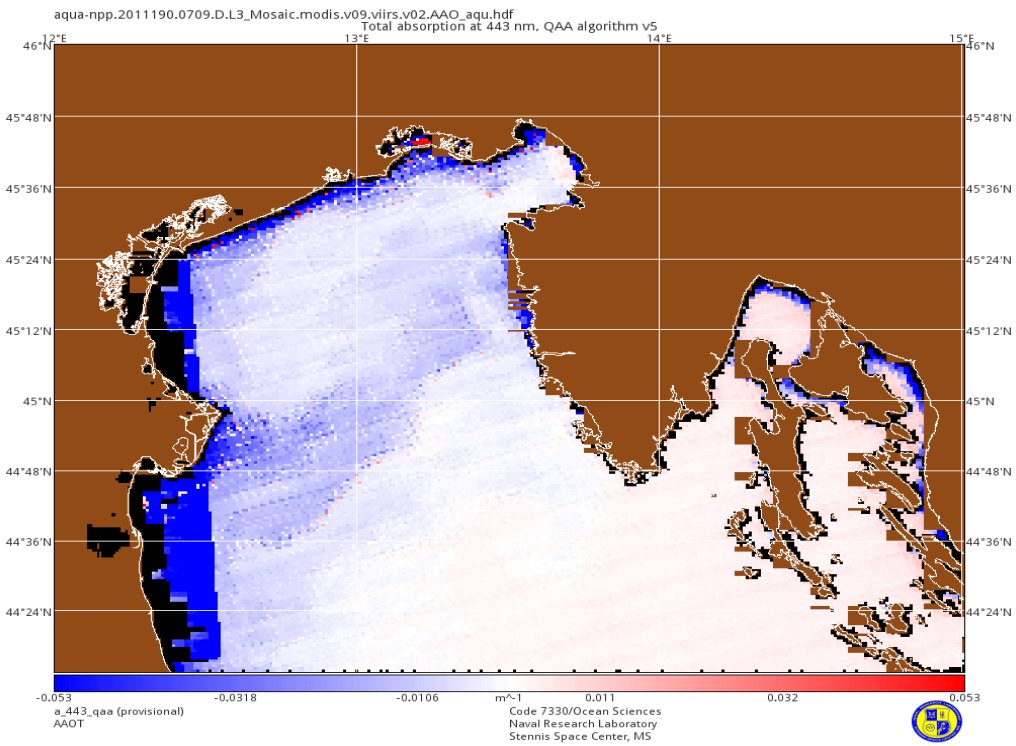
Example of a_443 (QAA).
All products processed

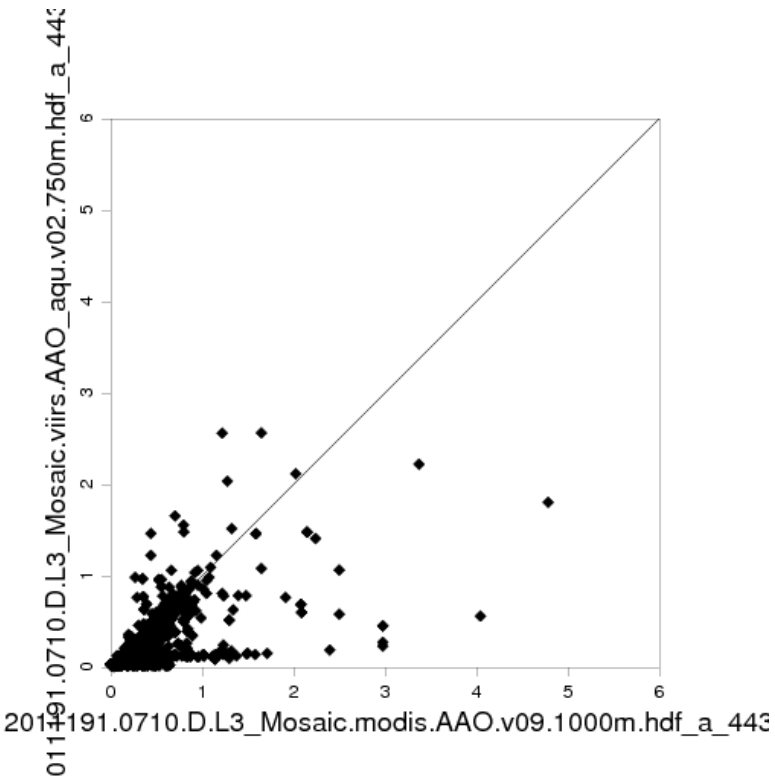
Remote sensing reflectance.

Difference Plot

July 10, 2011 - Venice

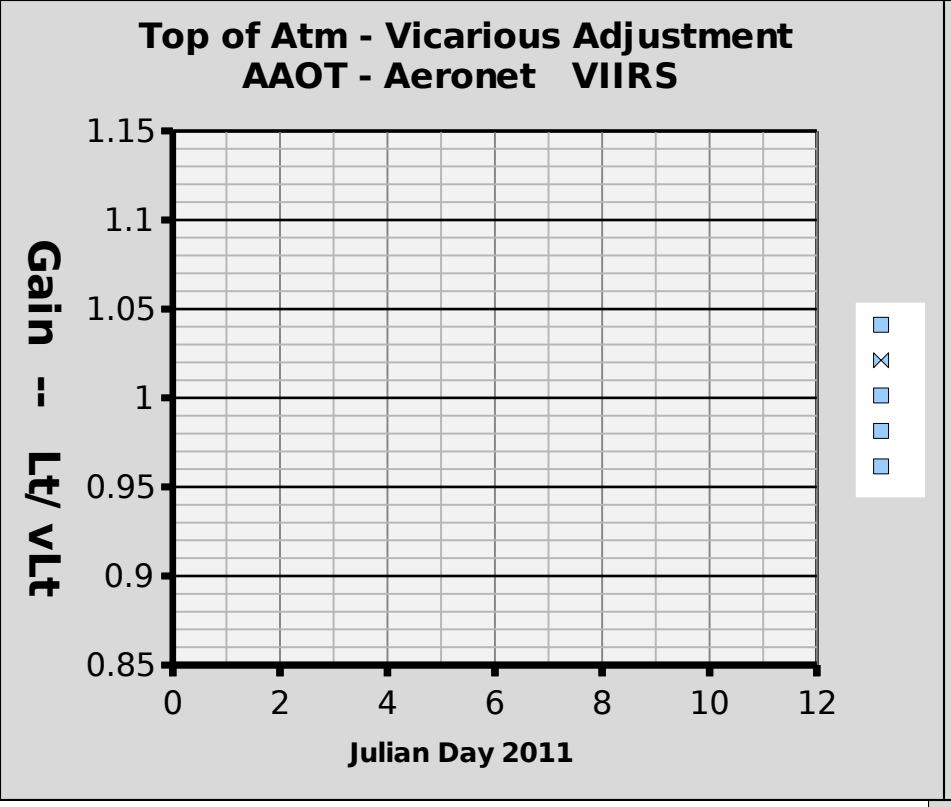
Scatter plot MODIS a_443 - VIIRS a_443

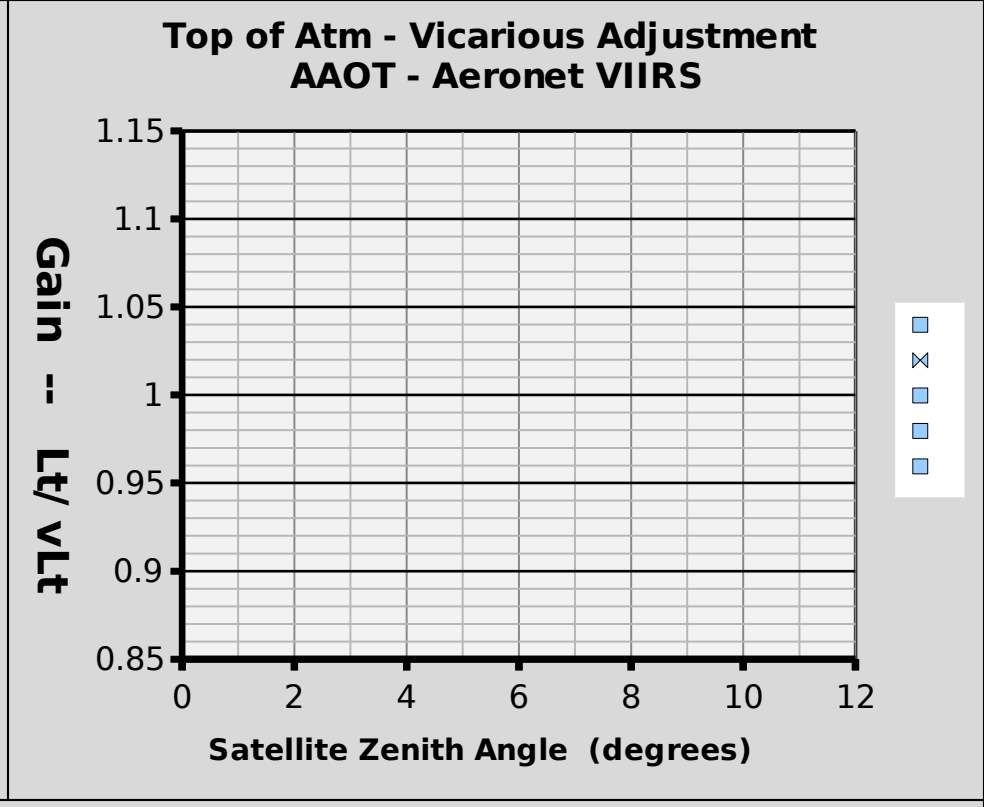




MODIS a_443 – VIIRS a_443 (QAA)

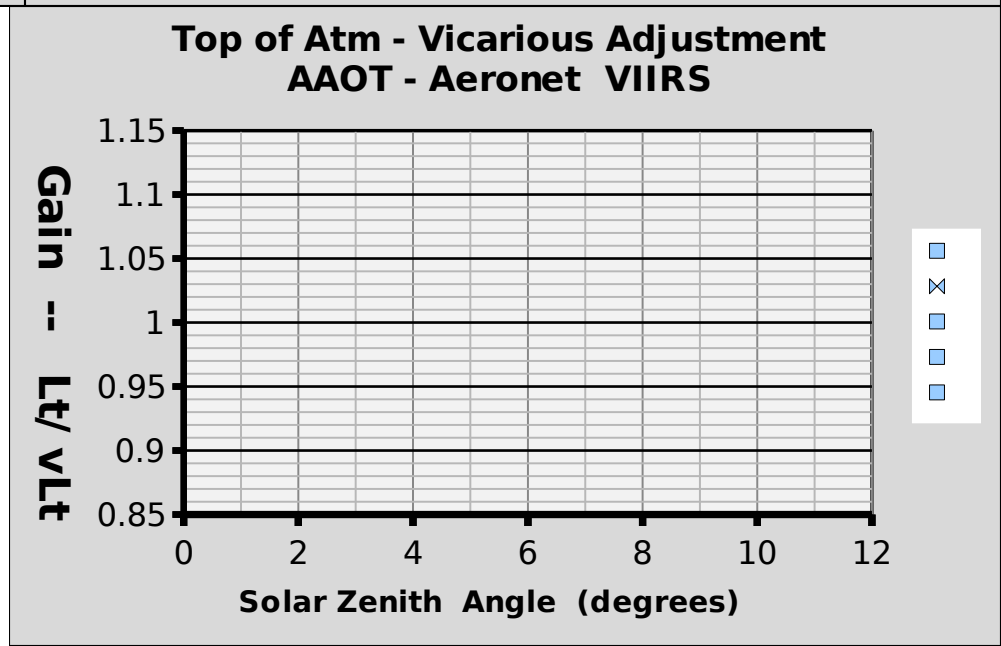
Probability Distribution of the Difference

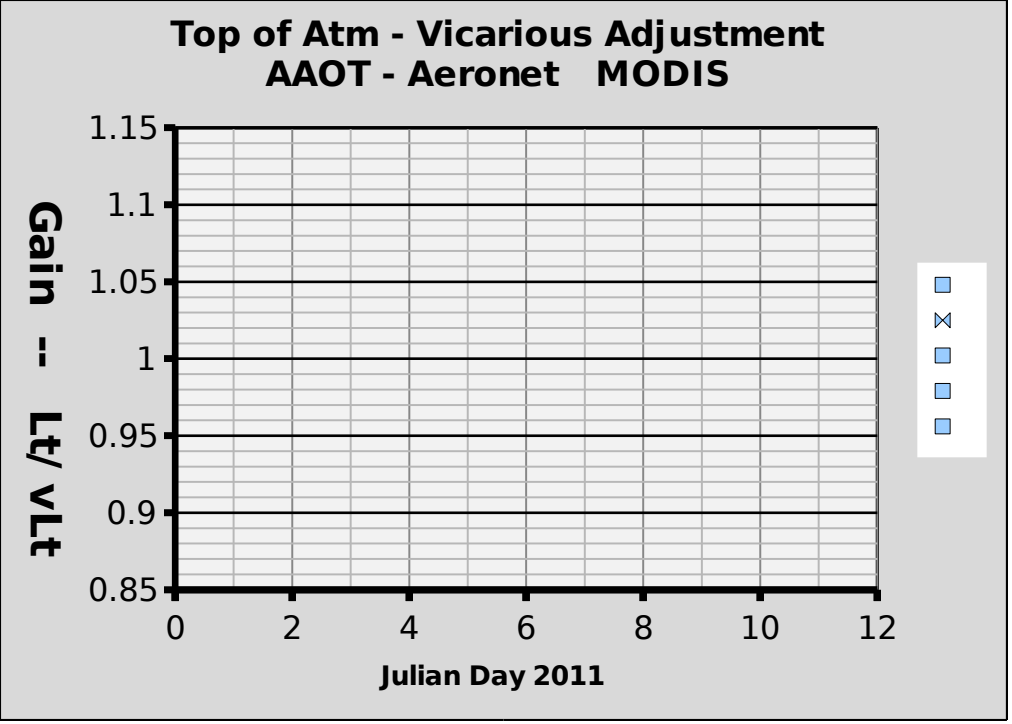

Top of Atm - Vicarious Adjustment
AAOT - Aeronet VIIRS
Gain -- Lt/ vLt
1.15
1.1
1.05
1
0.95
0.9
0.85
0
2
4
6
8
10
12
Julian Day 2011

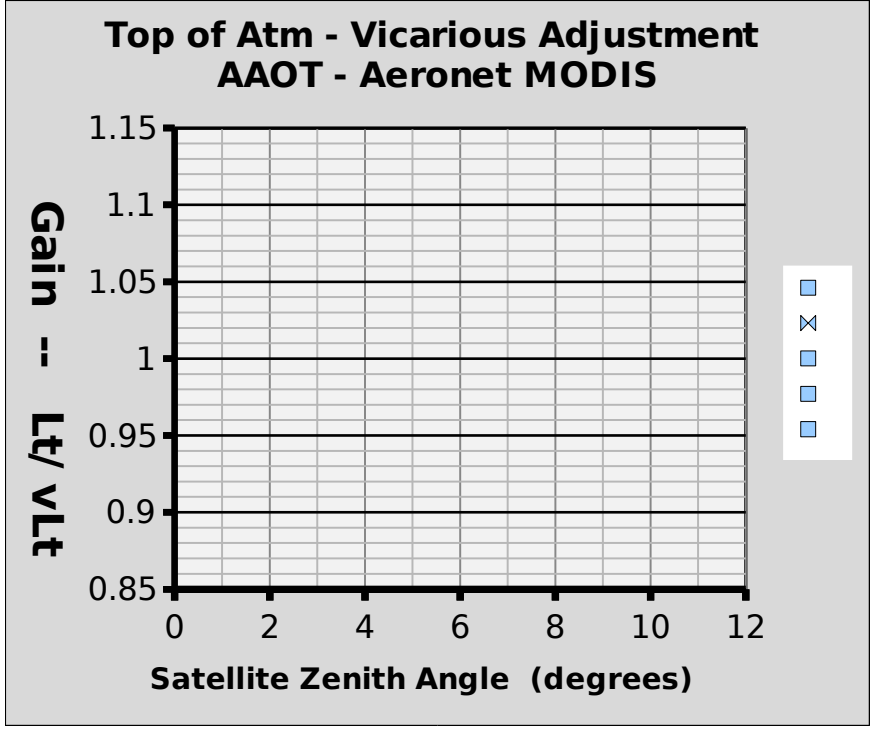

Top of Atm - Vicarious Adjustment
AAOT - Aeronet VIIRS
Gain -- Lt/ vLt
1.15
1.1
1.05
1
0.95
0.9
0.85
0
2
4
6
8
10
12
Satellite Zenith Angle (degrees)

VIIR
S

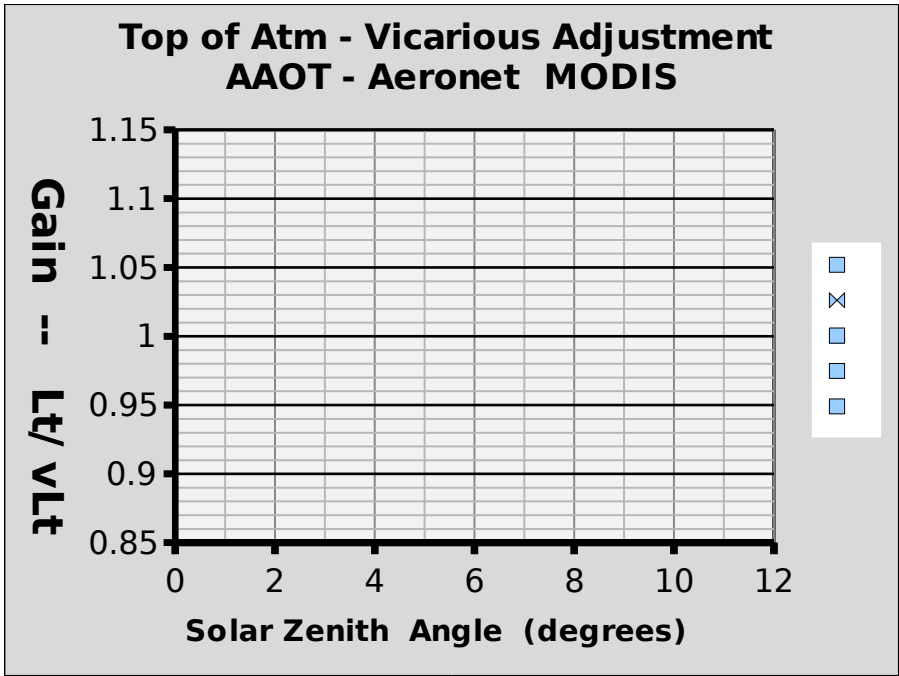
7/19/11


Top of Atm - Vicarious Adjustment
AAOT - Aeronet VIIRS
Gain -- Lt/ vLt
1.15
1.1
1.05
1
0.95
0.9
0.85
0
2
4
6
8
10
12
Solar Zenith Angle (degrees)

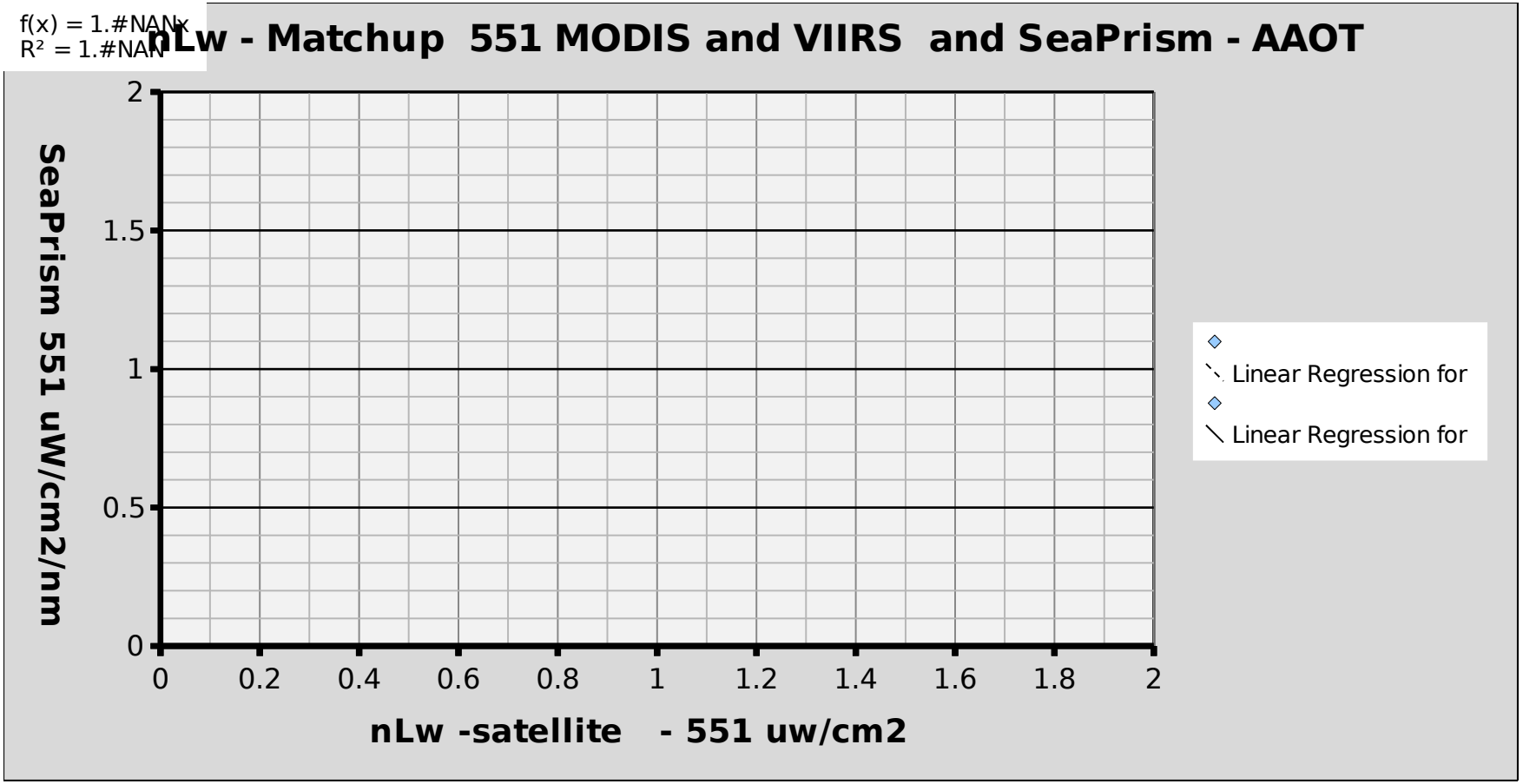

Top of Atm - Vicarious Adjustment
AAOT - Aeronet MODIS
Gain -- Lt/ vLt
1.15
1.1
1.05
1
0.95
0.9
0.85
0
2
4
6
8
10
12
Julian Day 2011


Top of Atm - Vicarious Adjustment
AAOT - Aeronet MODIS
Gain -- Lt/ vLt
1.15
1.1
1.05
1
0.95
0.9
0.85
0
2
4
6
8
10
12
Satellite Zenith Angle (degrees)

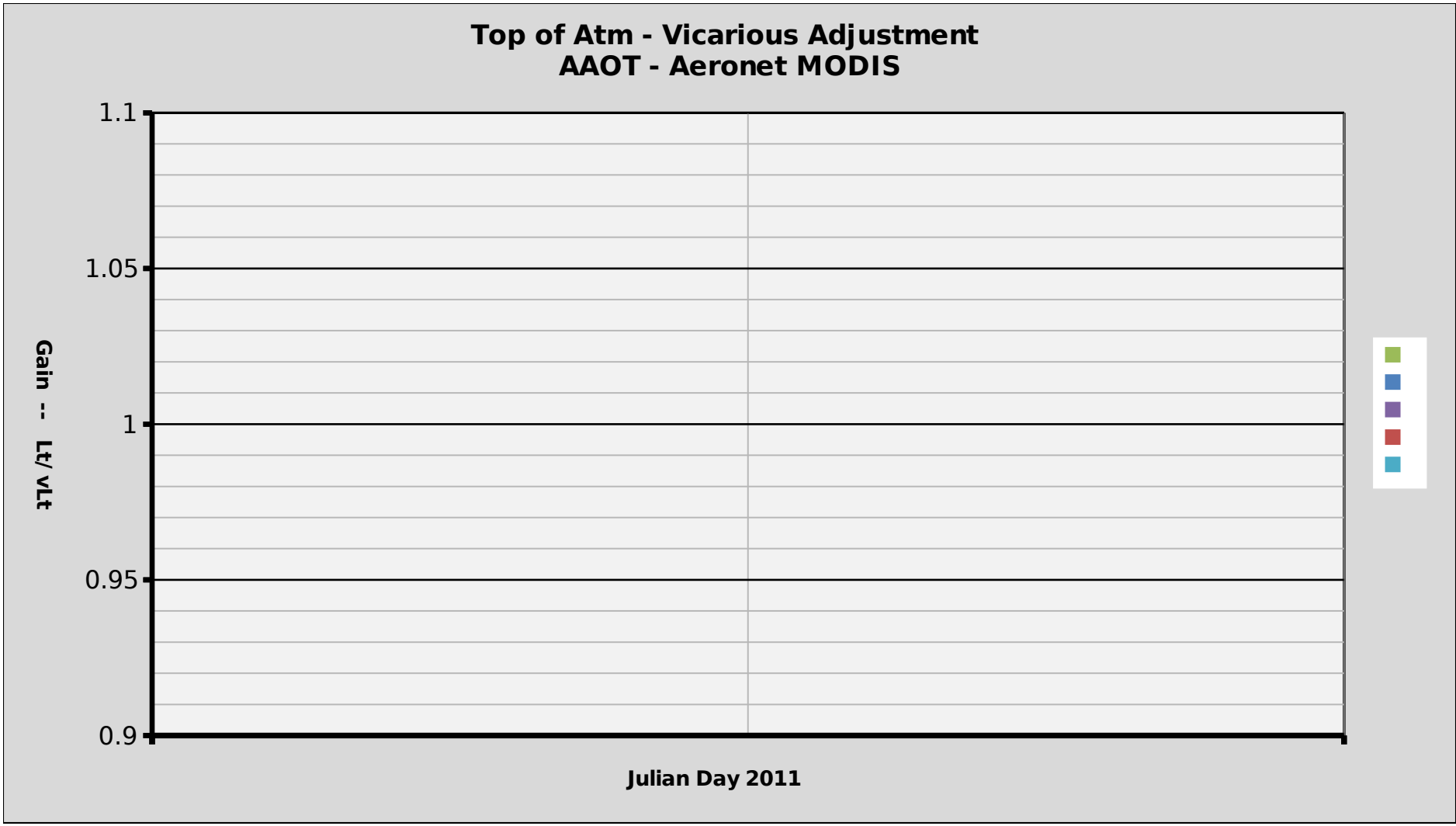
MODI
S


Top of Atm - Vicarious Adjustment
AAOT - Aeronet MODIS
Gain -- Lt/ vLt
1.15
1.1
1.05
1
0.95
0.9
0.85
0
2
4
6
8
10
12
Solar Zenith Angle (degrees)

7/19/11


f(x) = 1.#NAN x
R² = 1.#NAN
nLw - Matchup 551 MODIS and VIIRS and SeaPrism - AAOT
SeaPrism 551 uW/cm2/nm
2
1.5
1
0.5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
nLw -satellite - 551 uw/cm2
Linear Regression for
Linear Regression for

7/19/11


Top of Atm - Vicarious Adjustment
AAOT - Aeronet MODIS
1.1
1.05
1
0.95
0.9
Gain -- Lt/ vLt
Julian Day 2011

7/19/11