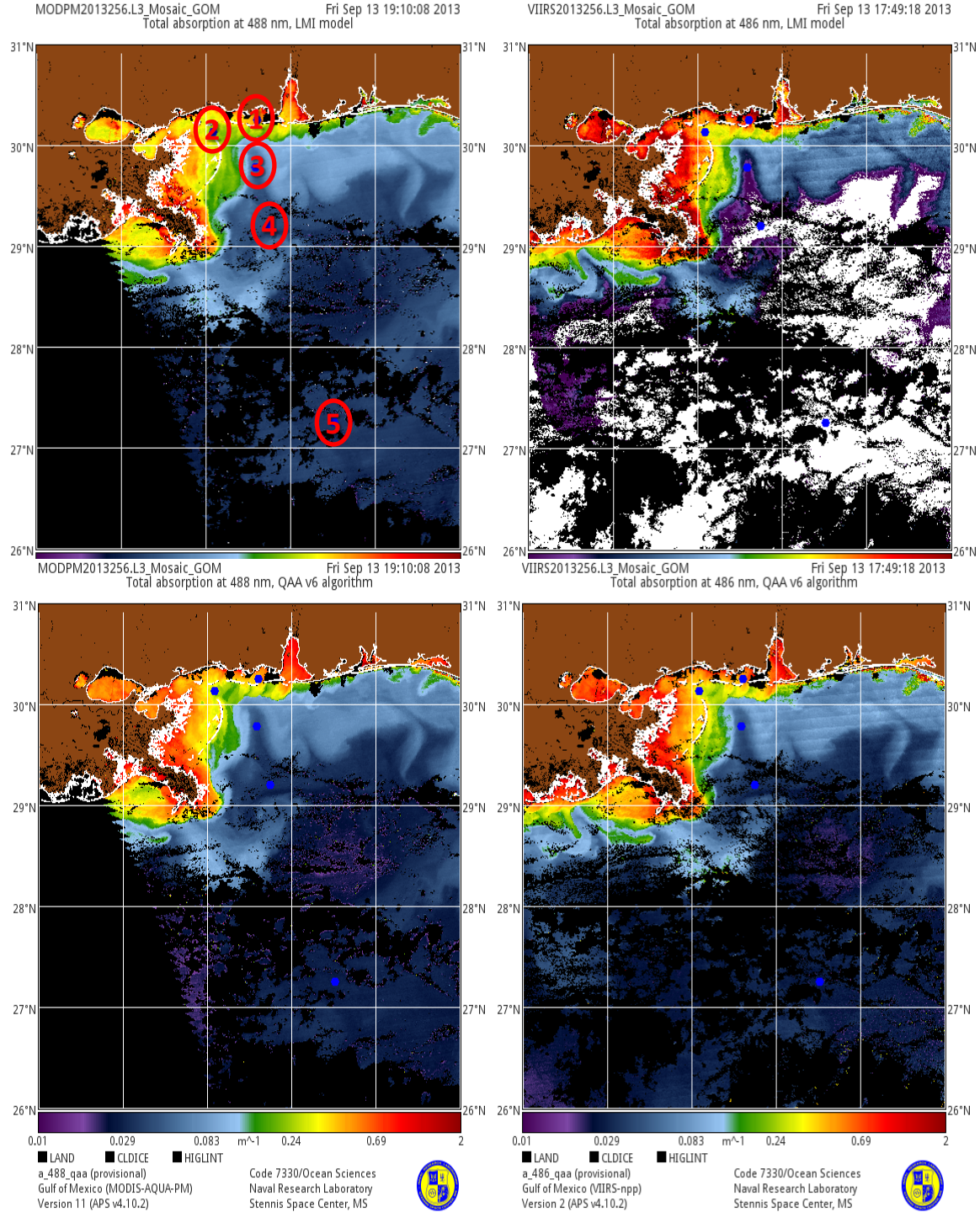
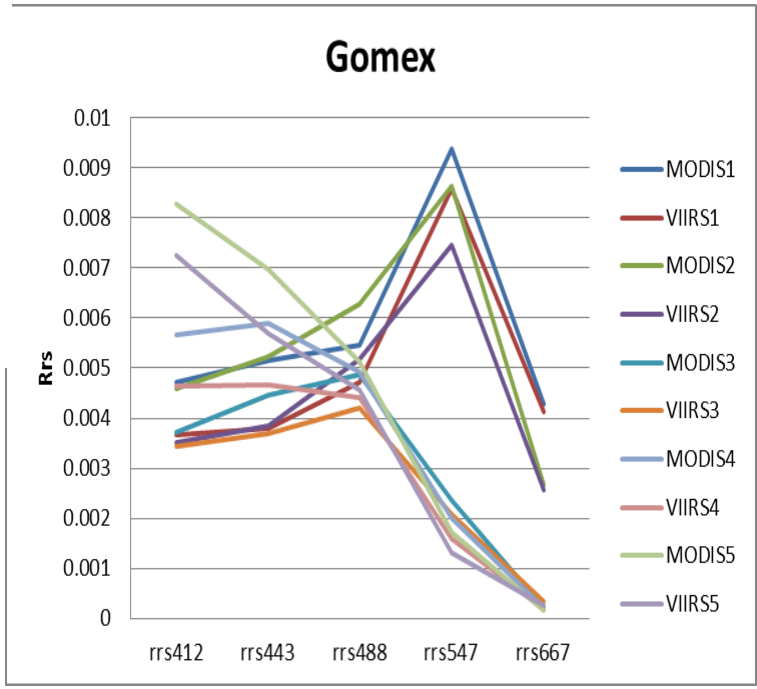
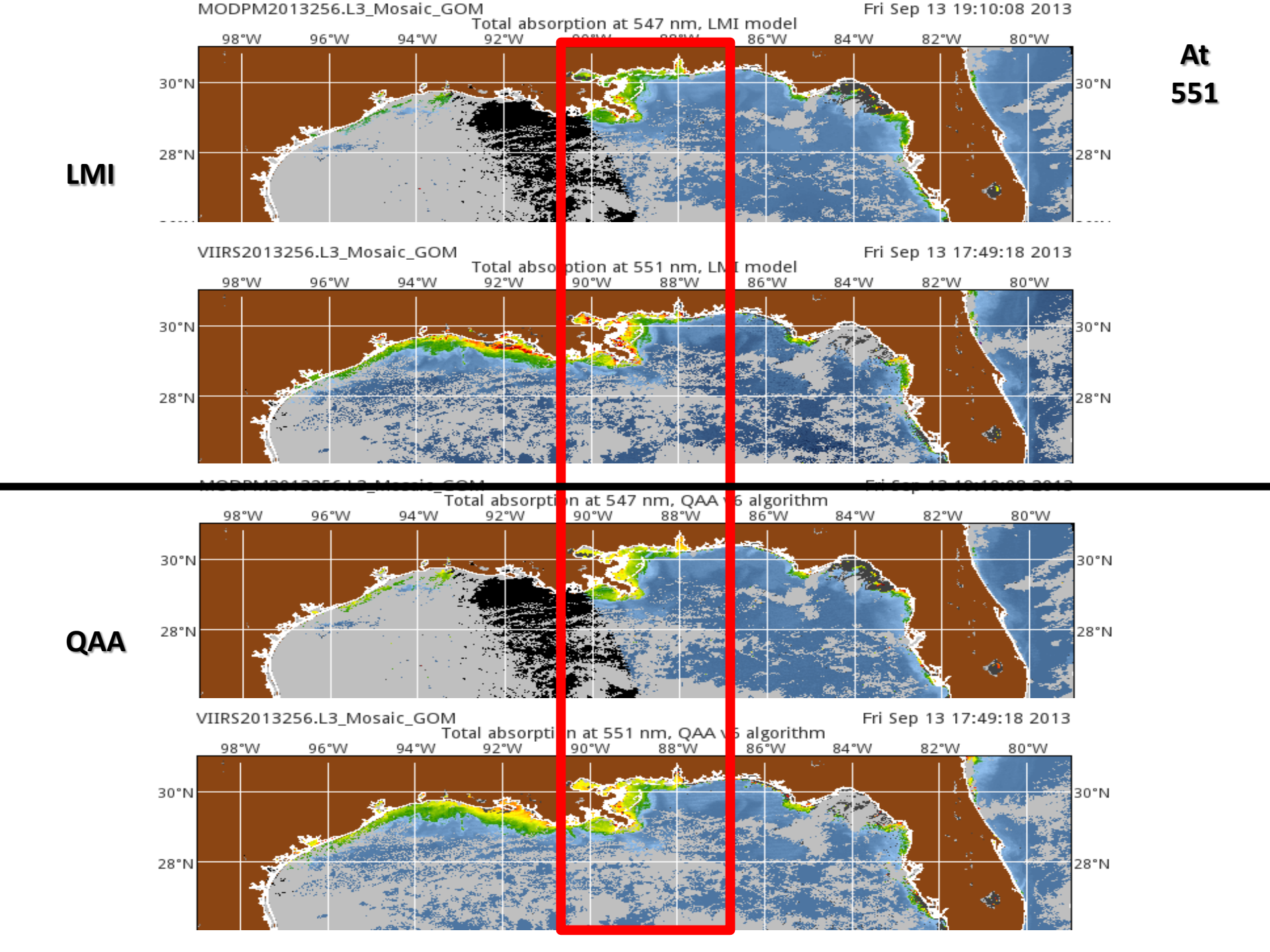
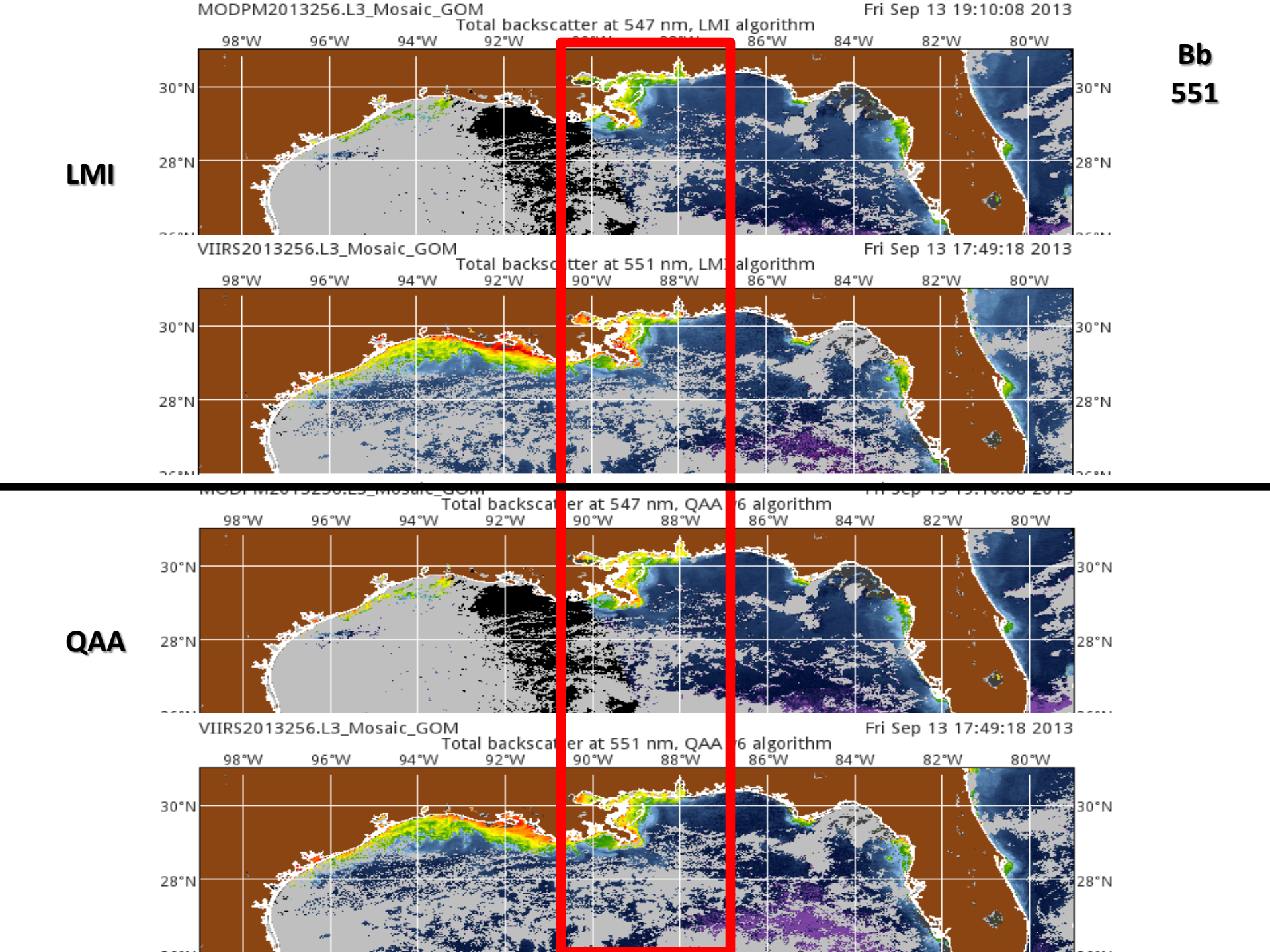


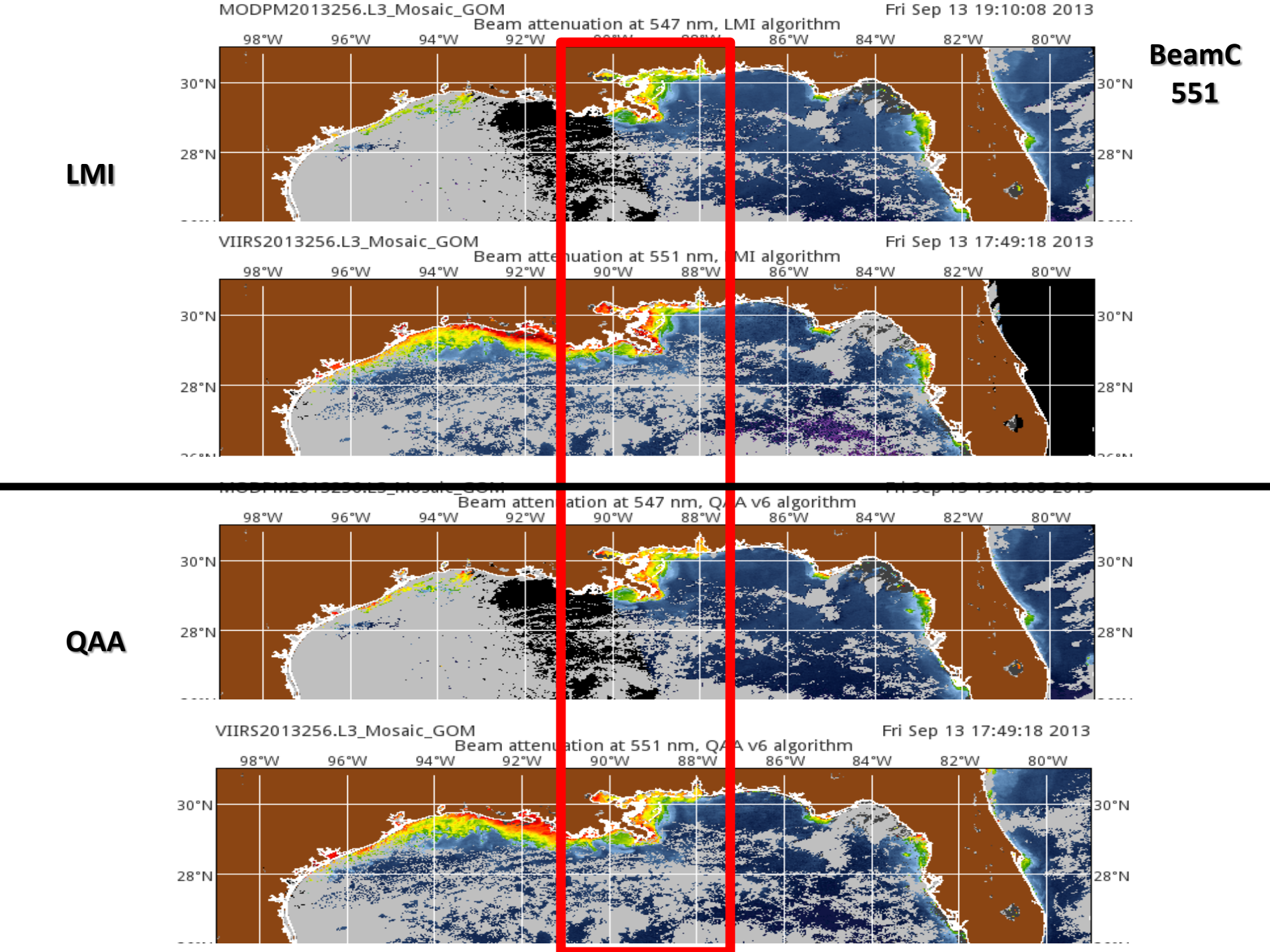
BEFORE CAL CHANGE

AFTER NRL INIT VICAL



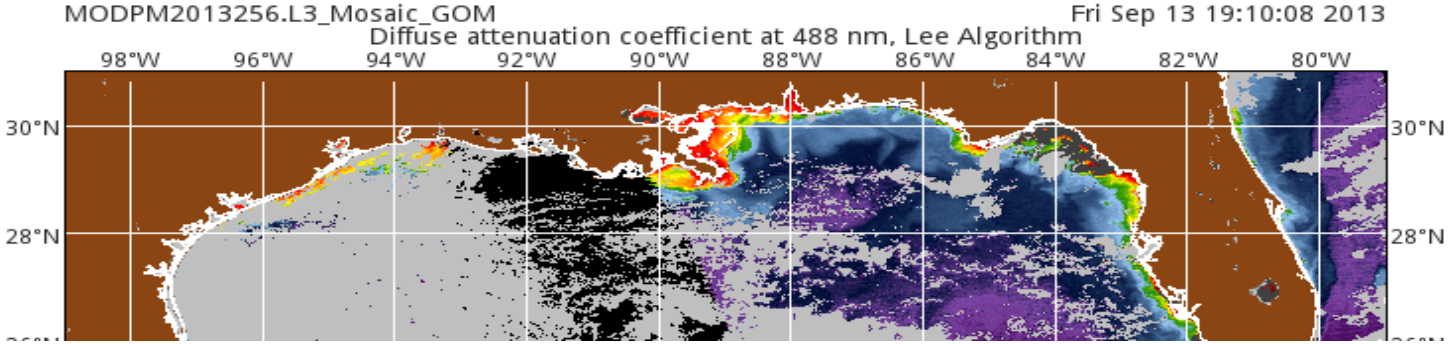

At 551
LMI
QAA
MODPM2013256.L3_Mosaic_GOM
Fri Sep 13 19:10:08 2013
Total absorption at 547 nm, LMI model
VIIRS2013256.L3_Mosaic_GOM
Fri Sep 13 17:49:18 2013
Total absorption at 551 nm, LMI model
Total absorption at 547 nm, QAA V6 algorithm
VIIRS2013256.L3_Mosaic_GOM
Fri Sep 13 17:49:18 2013
Total absorption at 551 nm, QAA V6 algorithm
98°W
96°W
94°W
92°W
90°W
88°W
86°W
84°W
82°W
80°W
30°N
28°N

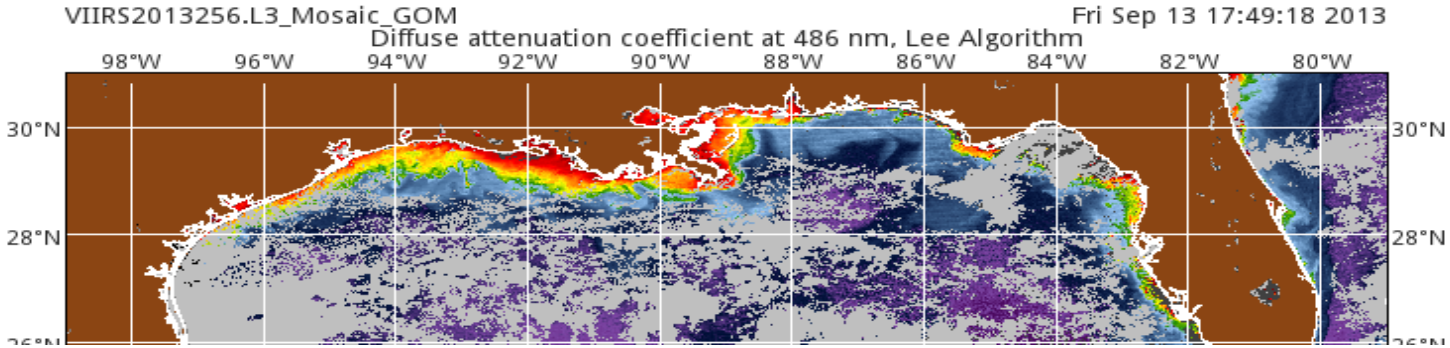

Bb
551
LMI
QAA
MODPM2013256.L3_Mosaic_GOM
Fri Sep 13 19:10:08 2013
Total backscatter at 547 nm, LMI algorithm
VIIRS2013256.L3_Mosaic_GOM
Fri Sep 13 17:49:18 2013
Total backscatter at 551 nm, LMI algorithm
Total backscatter at 547 nm, QAA 6 algorithm
VIIRS2013256.L3_Mosaic_GOM
Fri Sep 13 17:49:18 2013
Total backscatter at 551 nm, QAA 6 algorithm
98°W
96°W
94°W
92°W
90°W
88°W
86°W
84°W
82°W
80°W
30°N
28°N


BeamC
551
LMI
QAA
MODPM2013256.L3_Mosaic_GOM
Fri Sep 13 19:10:08 2013
Beam attenuation at 547 nm, LMI algorithm
VIIRS2013256.L3_Mosaic_GOM
Fri Sep 13 17:49:18 2013
Beam attenuation at 551 nm, LMI algorithm
Beam attenuation at 547 nm, QAA v6 algorithm
VIIRS2013256.L3_Mosaic_GOM
Fri Sep 13 17:49:18 2013
Beam attenuation at 551 nm, QAA v6 algorithm
98°W
96°W
94°W
92°W
90°W
88°W
86°W
84°W
82°W
80°W
30°N
28°N

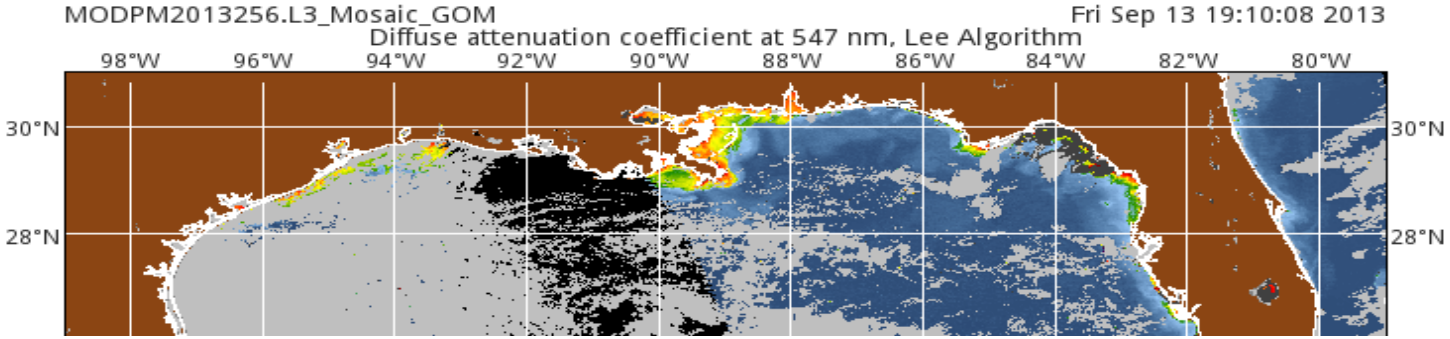
Kd (lee)

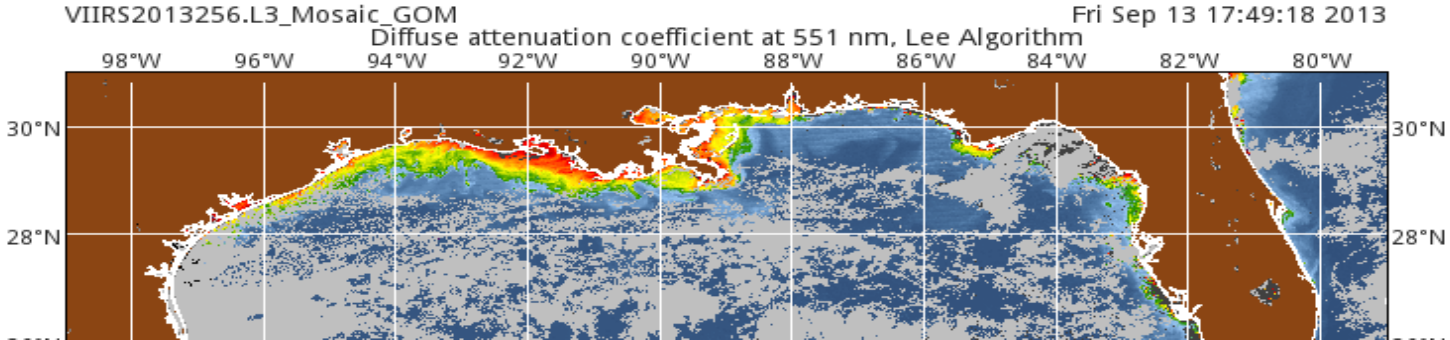
488





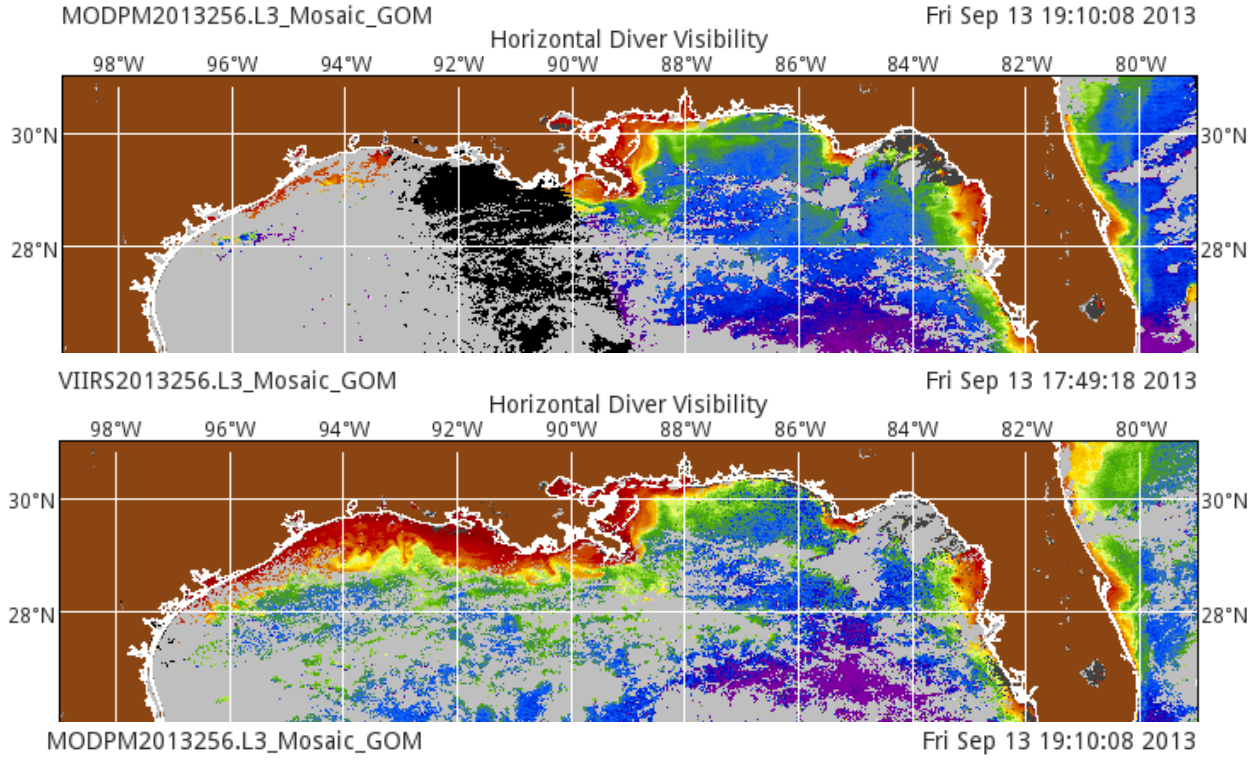
551



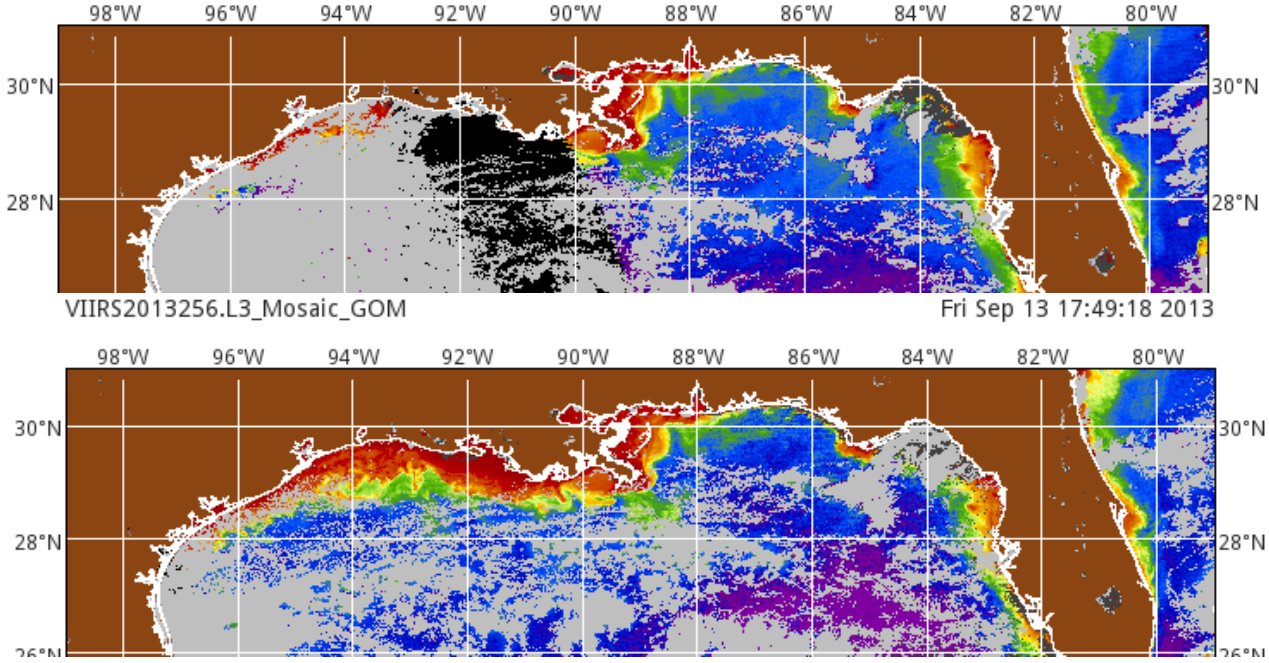


HORIZ VIS

LMI

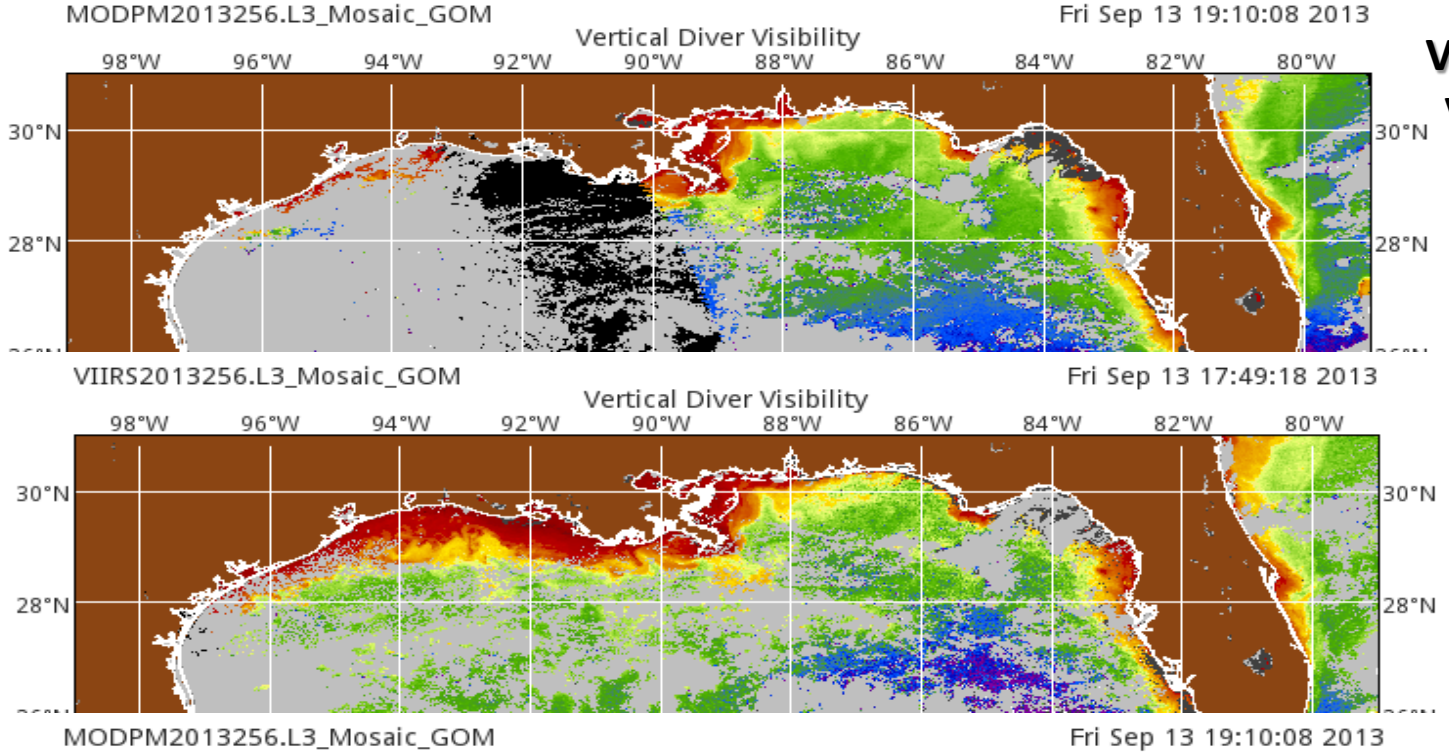


QAA

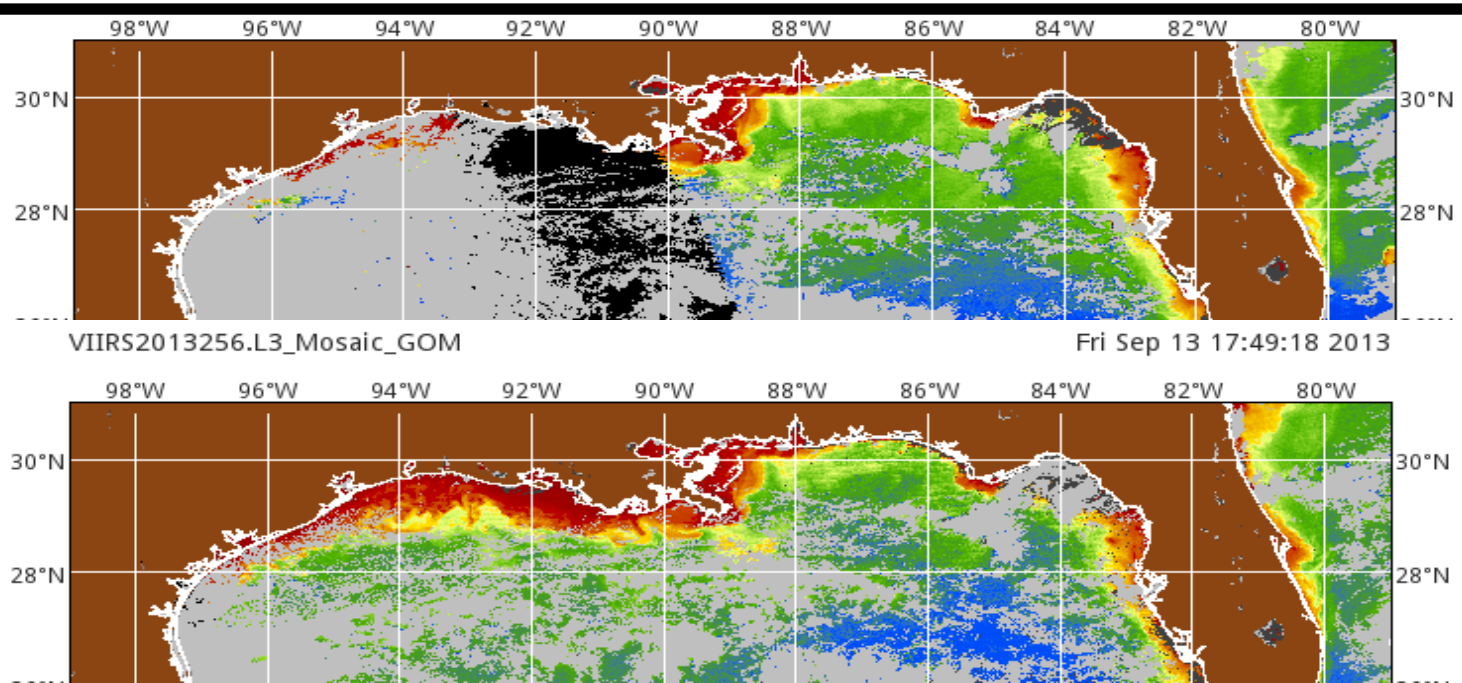


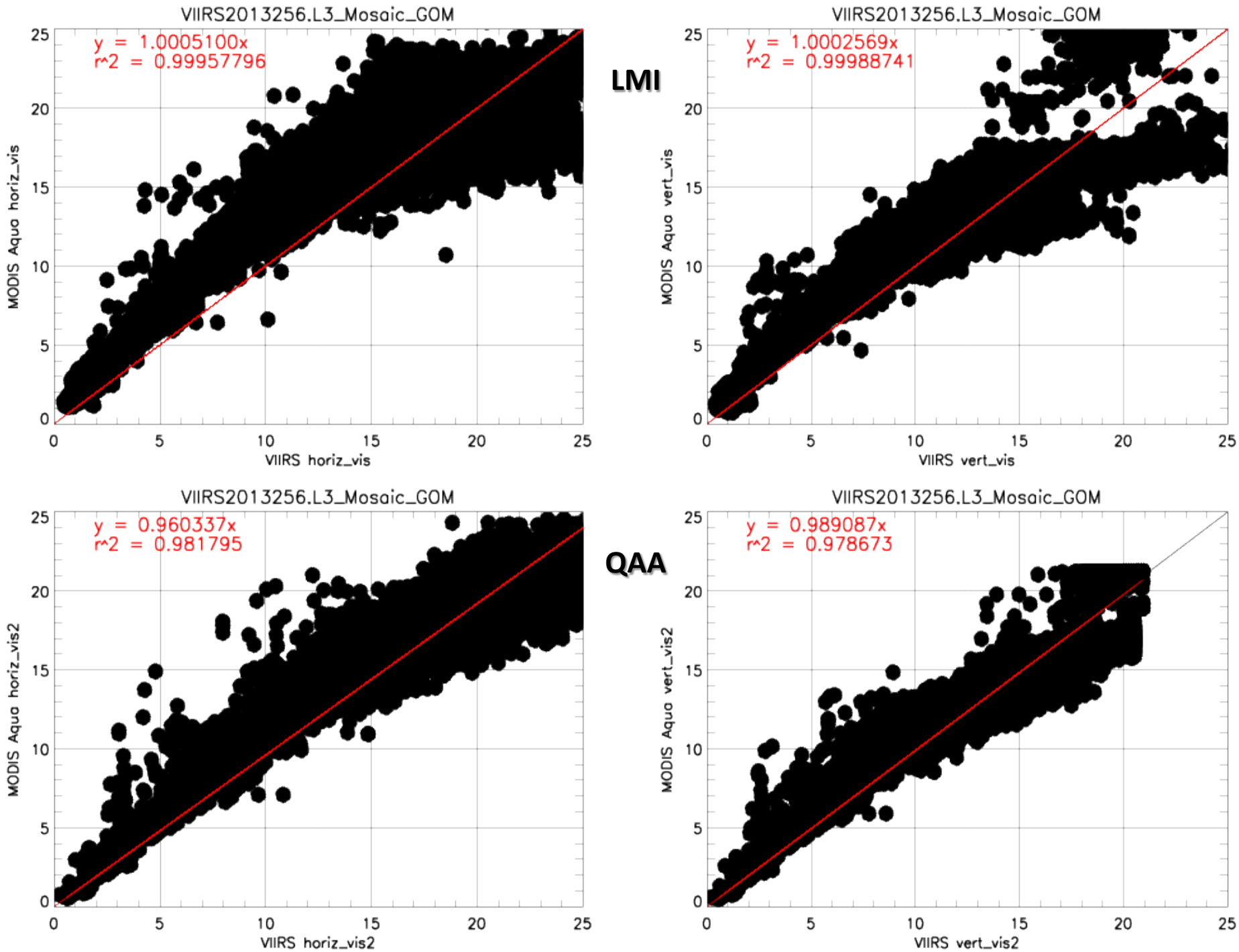
VERT VIS

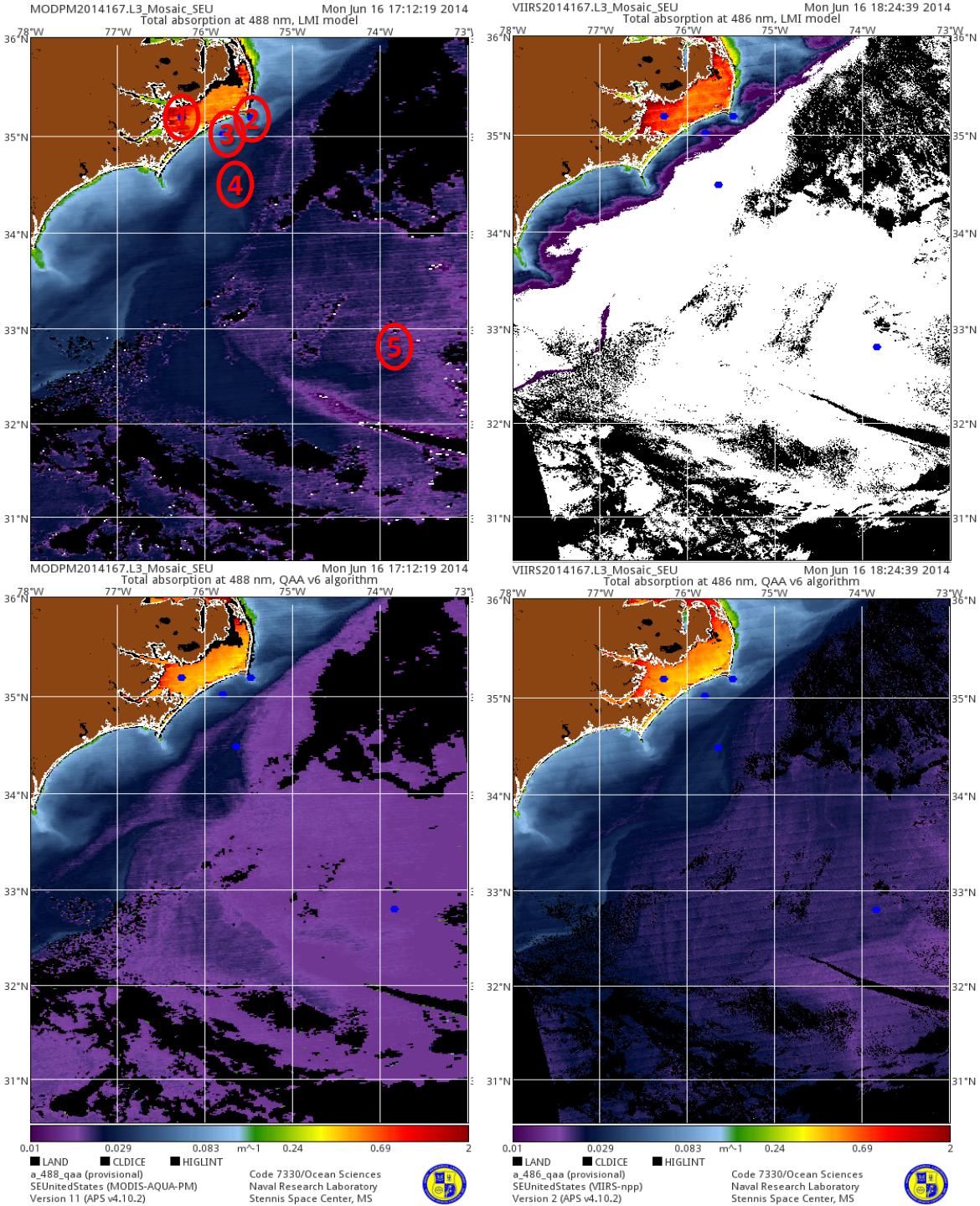
LMI

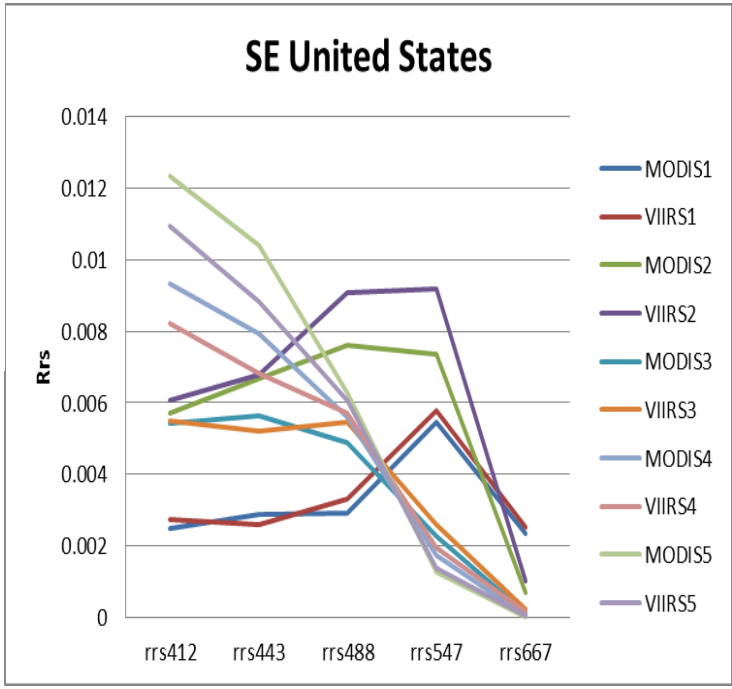


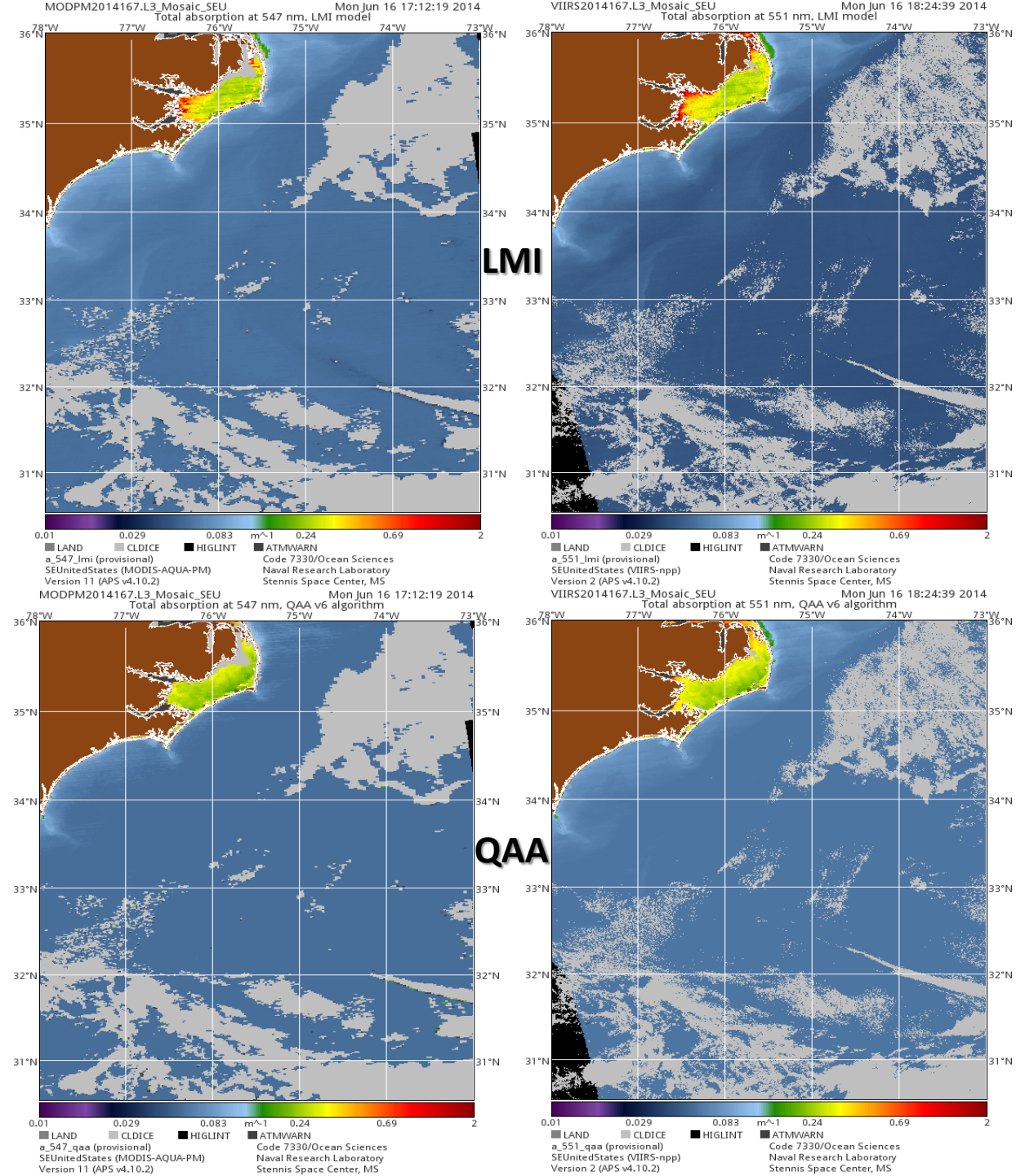
QAA



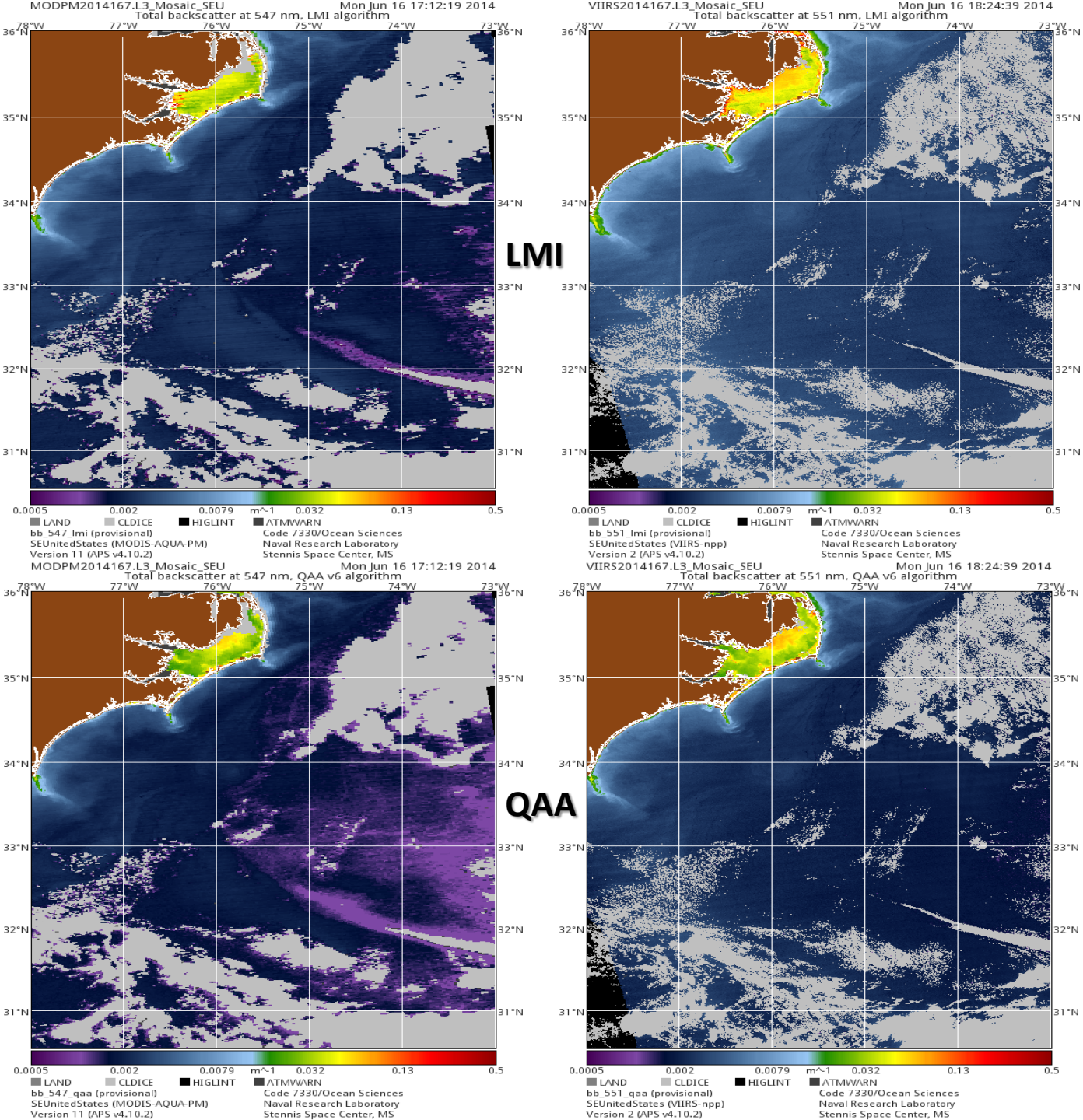

VIIRS2013256.L3_Mosaic_GOM
y = 1.0005100x
r^2 = 0.99957796
MODIS Aqua horiz_vis
VIIRS horiz_vis
LMI
VIIRS2013256.L3_Mosaic_GOM
y = 1.0002569x
r^2 = 0.99988741
MODIS Aqua vert_vis
VIIRS vert_vis
VIIRS2013256.L3_Mosaic_GOM
y = 0.960337x
r^2 = 0.981795
MODIS Aqua horiz_vis2
VIIRS horiz_vis2
QAA
VIIRS2013256.L3_Mosaic_GOM
y = 0.989087x
r^2 = 0.978673
MODIS Aqua vert_vis2
VIIRS vert_vis2


MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Total absorption at 488 nm, LMI model
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Total absorption at 486 nm, LMI model
MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Total absorption at 488 nm, QAA v6 algorithm
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Total absorption at 486 nm, QAA v6 algorithm
78°W 77°W 76°W 75°W 74°W 73°W
36°N 35°N 34°N 33°N 32°N 31°N
1 2 3 4 5
0.01 0.029 0.083 m^-1 0.24 0.69 2
LAND CLDICE HIGLINT
a_488_qaa (provisional)
SEUnitedStates (MODIS-AQUA-PM)
Version 11 (APS v4.10.2)
Code 7330/Ocean Sciences
Naval Research Laboratory
Stennis Space Center, MS
a_486_qaa (provisional)
SEUnitedStates (VIIRS-npp)
Version 2 (APS v4.10.2)

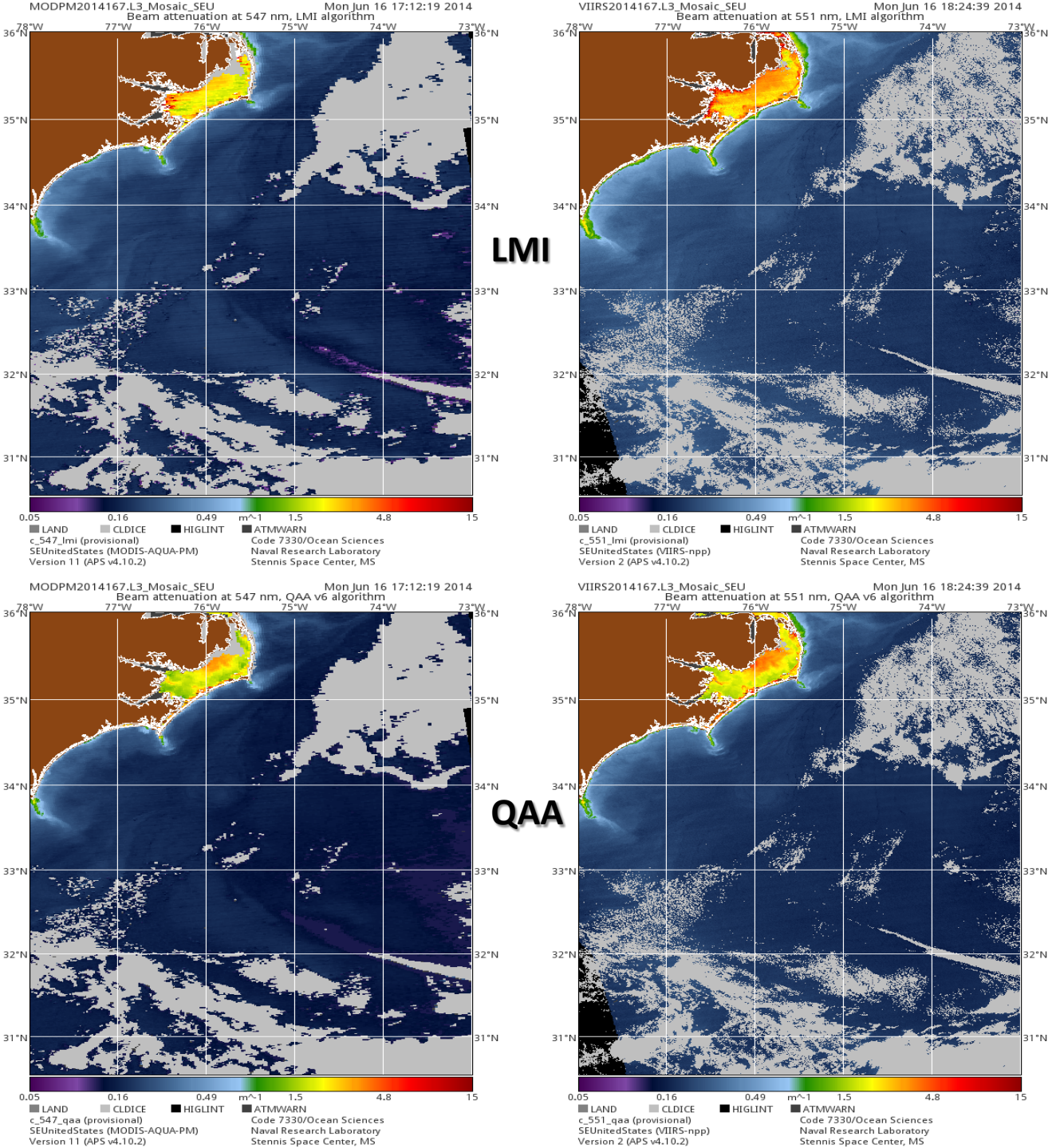

SE United States
Rrs
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
rrs412
rrs443
rrs488
rrs547
rrs667
MODIS1
VIIRS1
MODIS2
VIIRS2
MODIS3
VIIRS3
MODIS4
VIIRS4
MODIS5
VIIRS5


MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Total absorption at 547 nm, LMI model
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Total absorption at 551 nm, LMI model
LMI
MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Total absorption at 547 nm, QAA v6 algorithm
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Total absorption at 551 nm, QAA v6 algorithm
QAA
78°W 77°W 76°W 75°W 74°W 73°W
36°N 35°N 34°N 33°N 32°N 31°N
0.01 0.029 0.083 m^-1 0.24 0.69 2
LAND CLDICE HIGLINT ATMWARN
a_547_lmi (provisional)
SEUnitedStates (MODIS-AQUA-PM)
Version 11 (APS v4.10.2)
Code 7330/Ocean Sciences
Naval Research Laboratory
Stennis Space Center, MS
a_551_lmi (provisional)
SEUnitedStates (VIIRS-npp)
Version 2 (APS v4.10.2)
a_547_qaa (provisional)
a_551_qaa (provisional)

At 551


MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Total backscatter at 547 nm, LMI algorithm
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Total backscatter at 551 nm, LMI algorithm
LMI
Total backscatter at 547 nm, QAA v6 algorithm
Total backscatter at 551 nm, QAA v6 algorithm
QAA
78°W 77°W 76°W 75°W 74°W 73°W
36°N 35°N 34°N 33°N 32°N 31°N
0.0005 0.002 0.0079 m^-1 0.032 0.13 0.5
LAND CLDICE HIGLINT ATMWARN
bb_547_lmi (provisional)
SEUnitedStates (MODIS-AQUA-PM)
Version 11 (APS v4.10.2)
Code 7330/Ocean Sciences
Naval Research Laboratory
Stennis Space Center, MS
bb_551_lmi (provisional)
SEUnitedStates (VIIRS-npp)
Version 2 (APS v4.10.2)
bb_547_qaa (provisional)
bb_551_qaa (provisional)

Bb 551

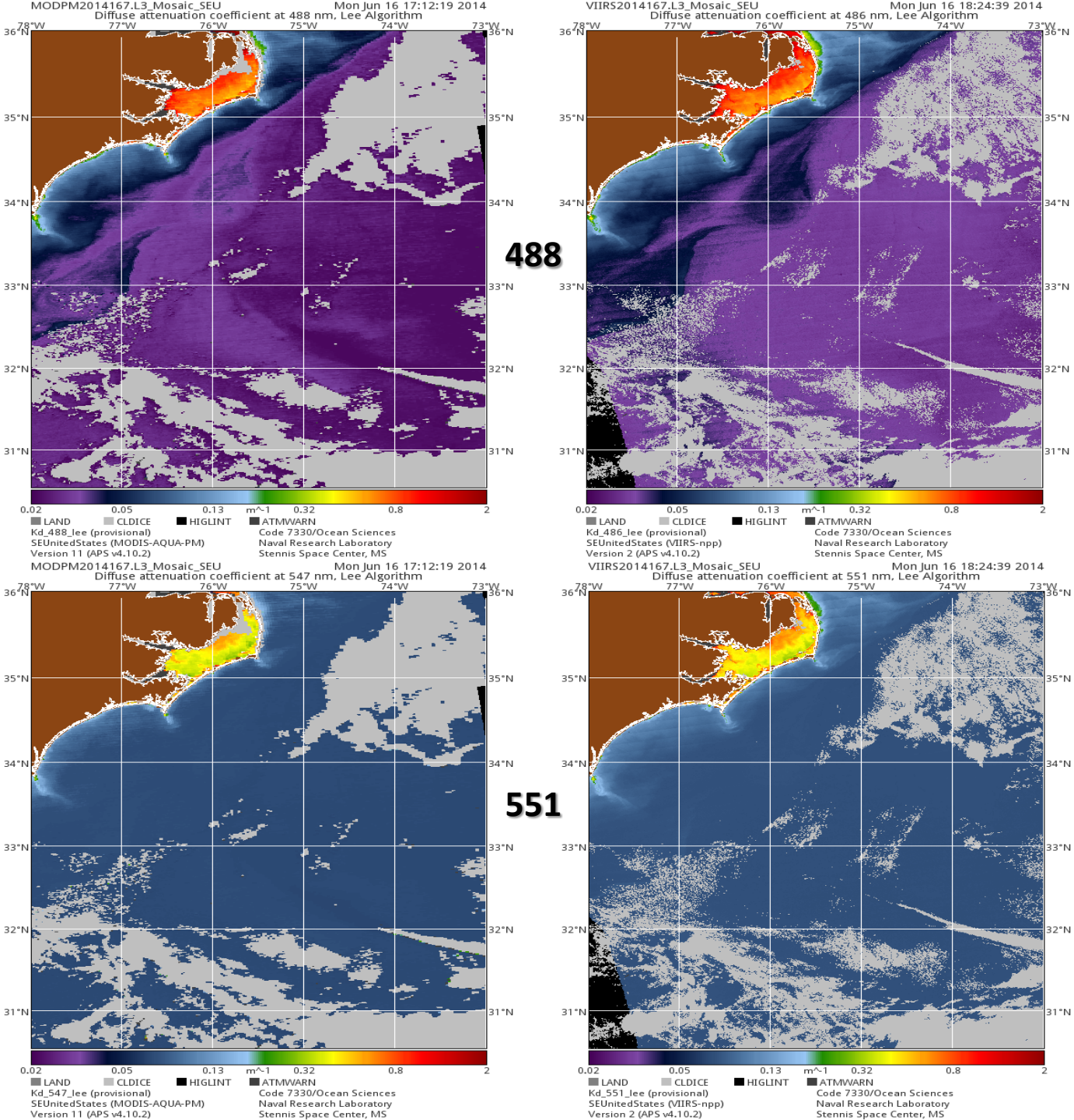

MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Beam attenuation at 547 nm, LMI algorithm
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Beam attenuation at 551 nm, LMI algorithm
LMI
MODPM2014167.L3_Mosaic_SEU
Mon Jun 16 17:12:19 2014
Beam attenuation at 547 nm, QAA v6 algorithm
VIIRS2014167.L3_Mosaic_SEU
Mon Jun 16 18:24:39 2014
Beam attenuation at 551 nm, QAA v6 algorithm
QAA
78°W 77°W 76°W 75°W 74°W 73°W
36°N 35°N 34°N 33°N 32°N 31°N
0.05 0.16 0.49 m^-1 1.5 4.8 15
LAND CLDICE HIGLINT ATMWARN
c_547_lmi (provisional)
SEUnitedStates (MODIS-AQUA-PM)
Version 11 (APS v4.10.2)
c_551_lmi (provisional)
SEUnitedStates (VIIRS-npp)
Version 2 (APS v4.10.2)
c_547_qaa (provisional)
SEUnitedStates (MODIS-AQUA-PM)
Version 11 (APS v4.10.2)
c_551_qaa (provisional)
SEUnitedStates (VIIRS-npp)
Version 2 (APS v4.10.2)
Code 7330/Ocean Sciences
Naval Research Laboratory
Stennis Space Center, MS

BeamC 551

Kd (lee)

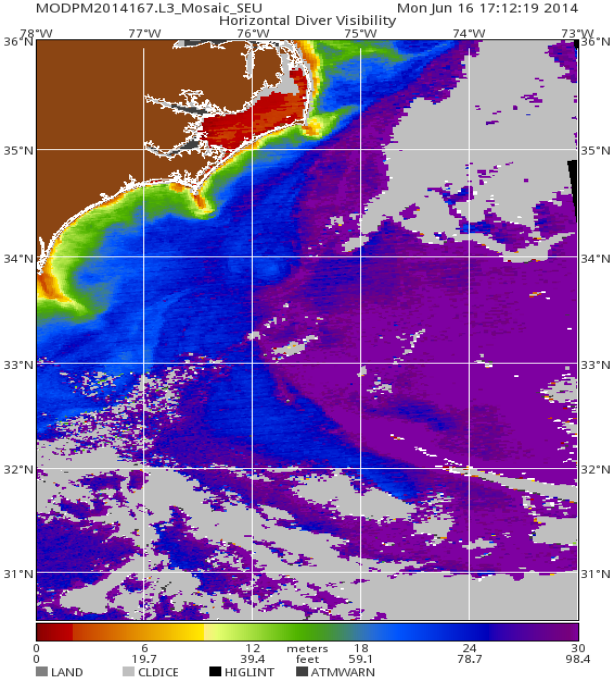
488

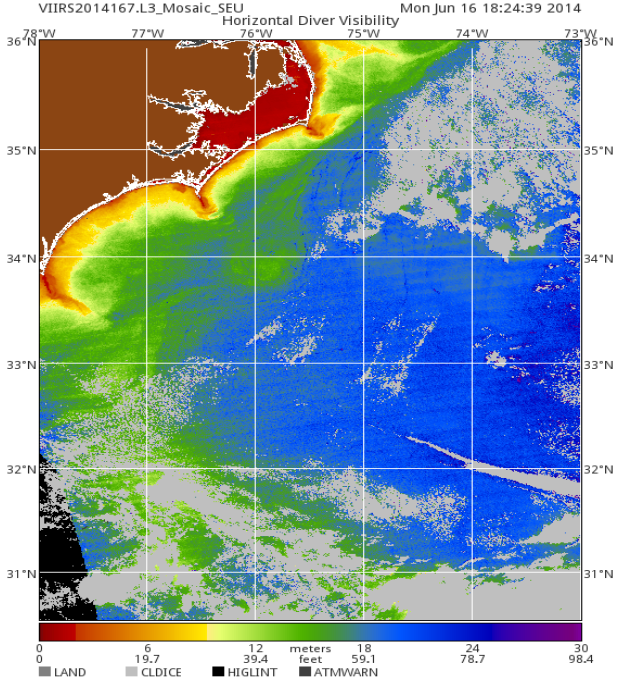
551



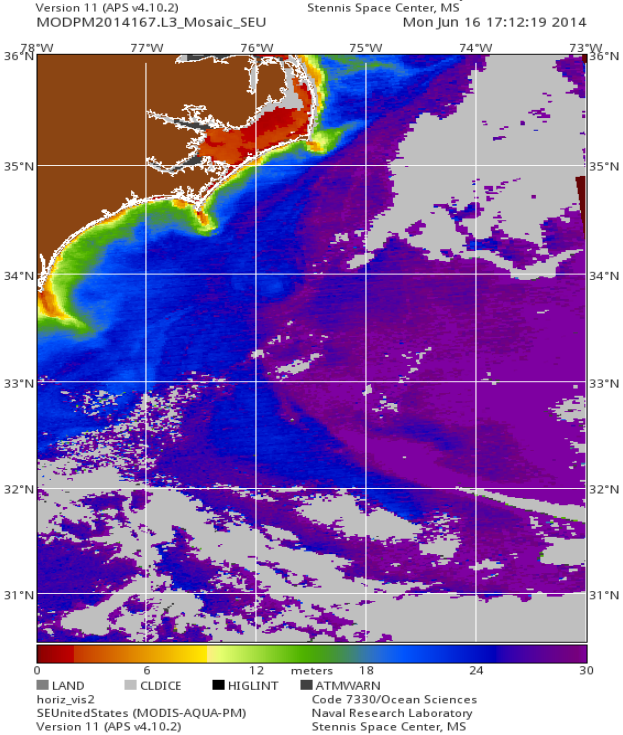
HORIZ VIS

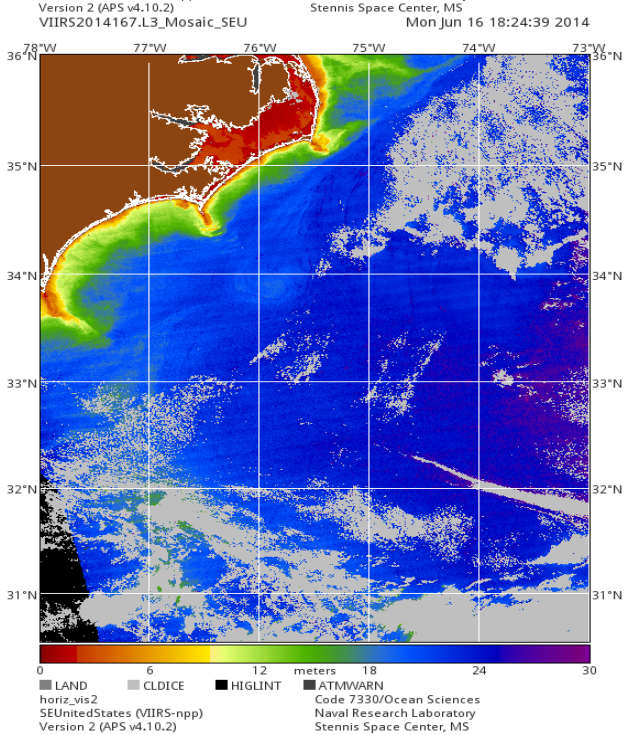
LMI

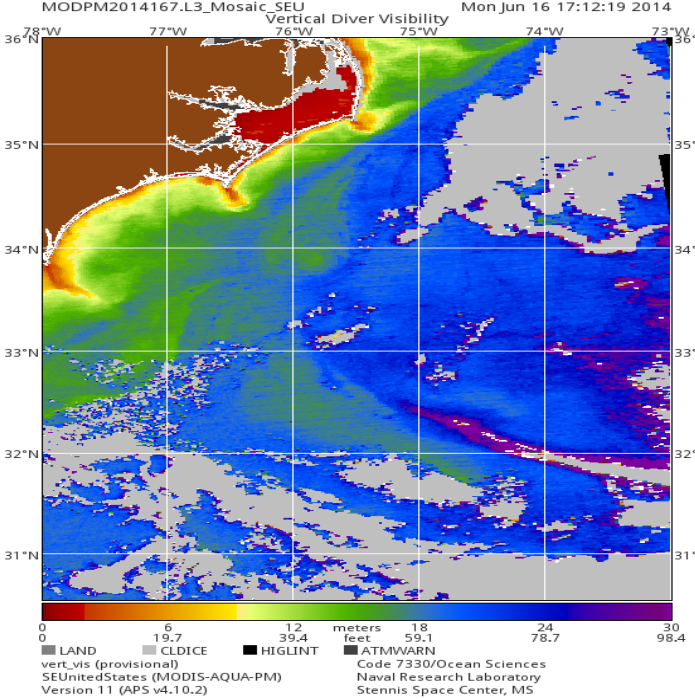




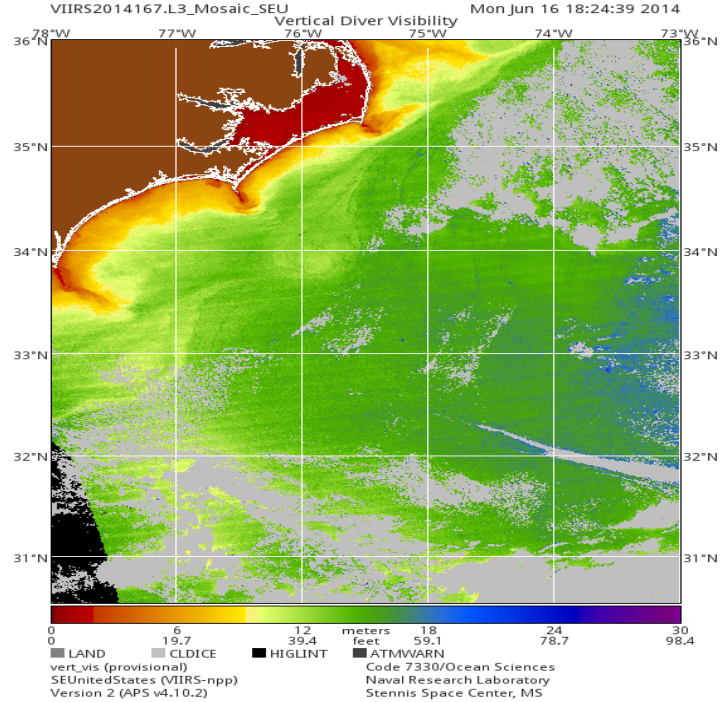
QAA



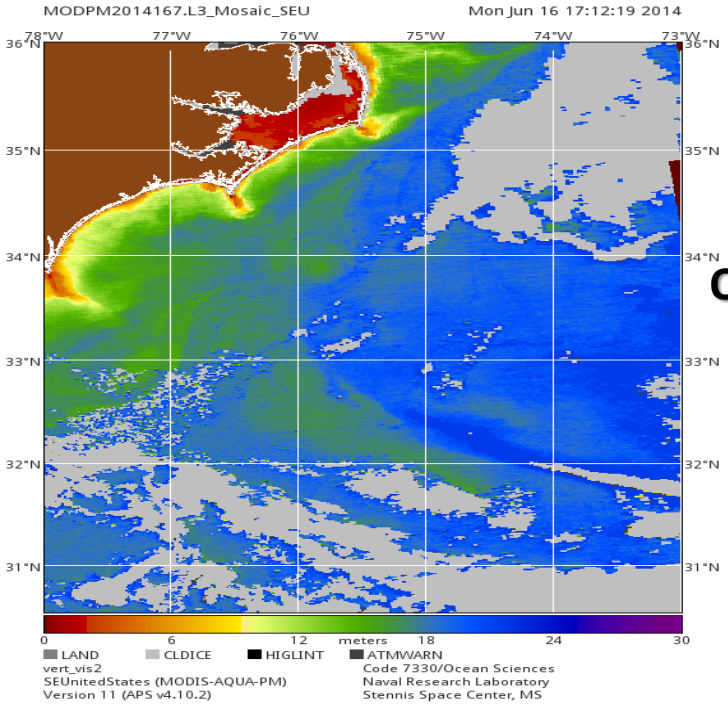




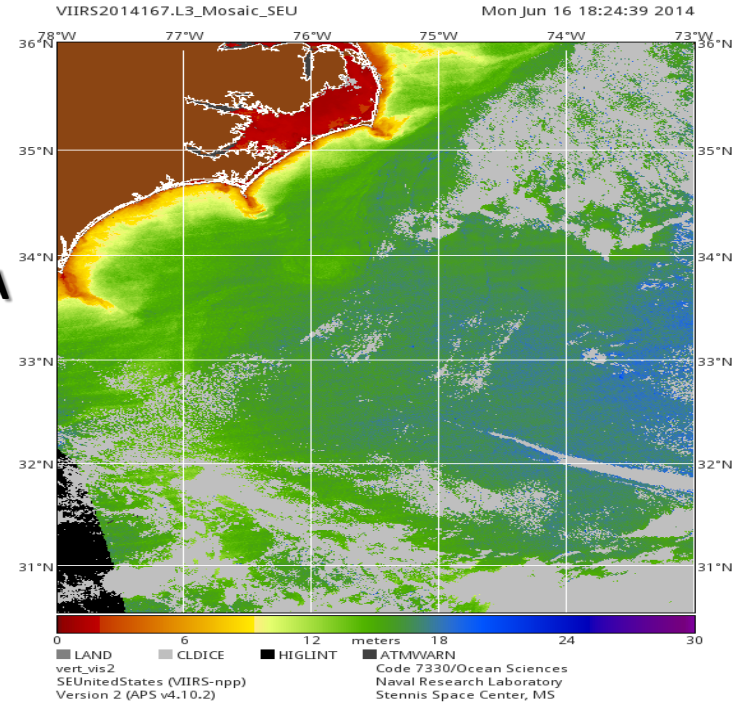
LMI

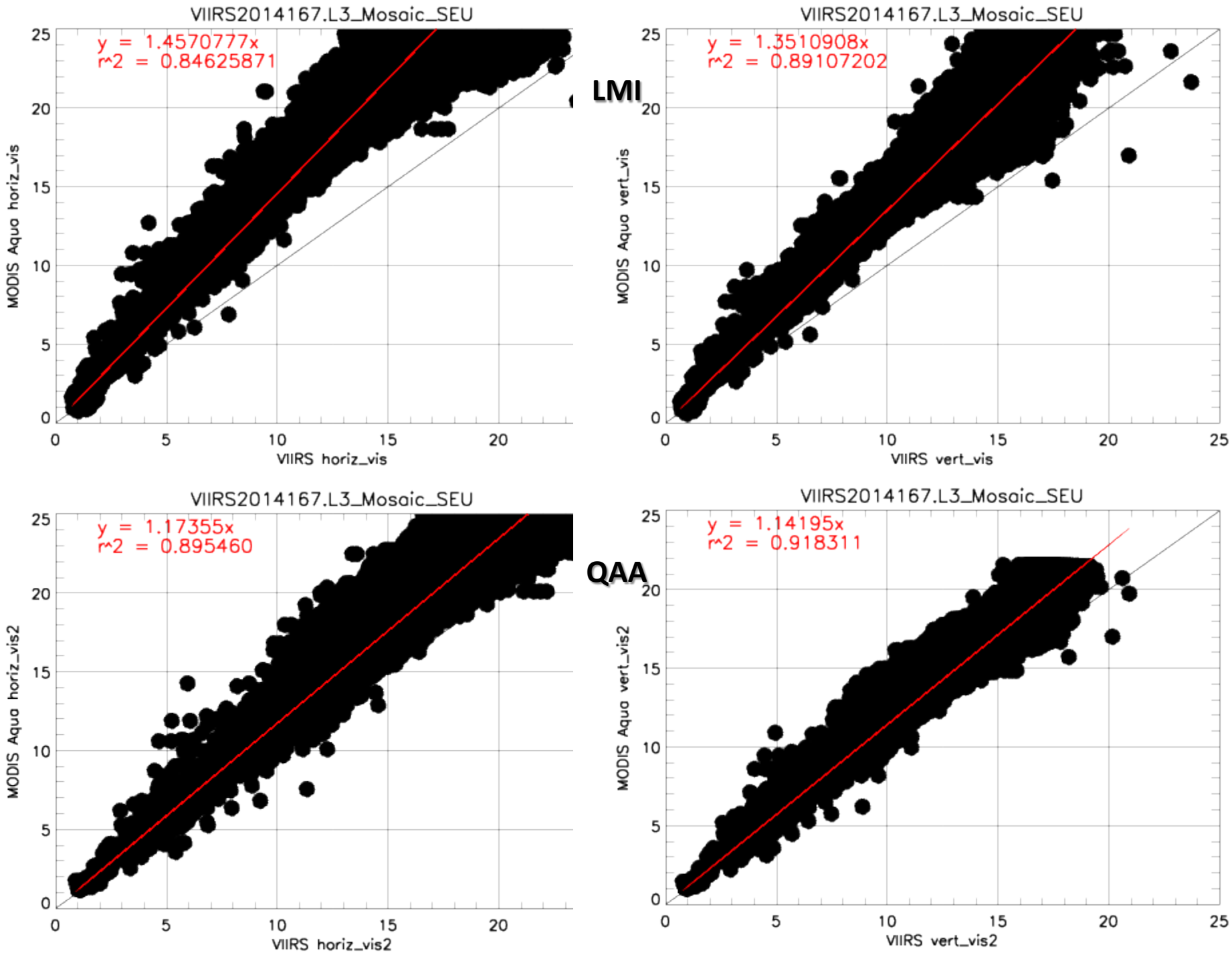


VERT VIS



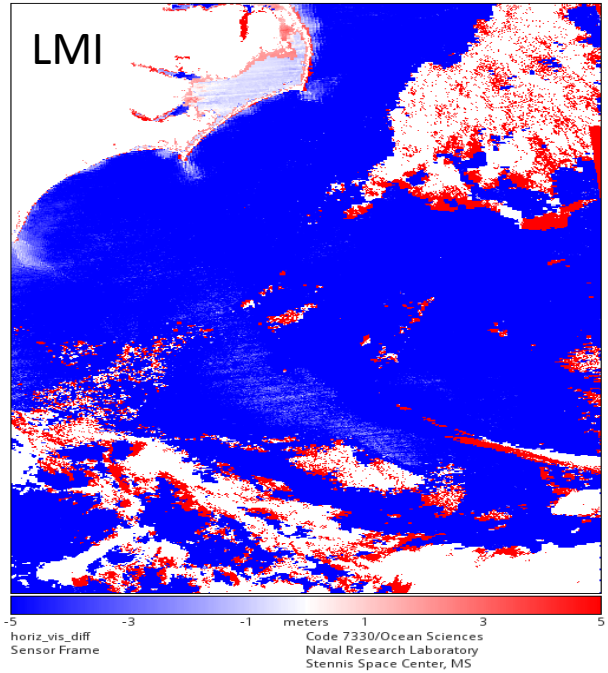
QAA



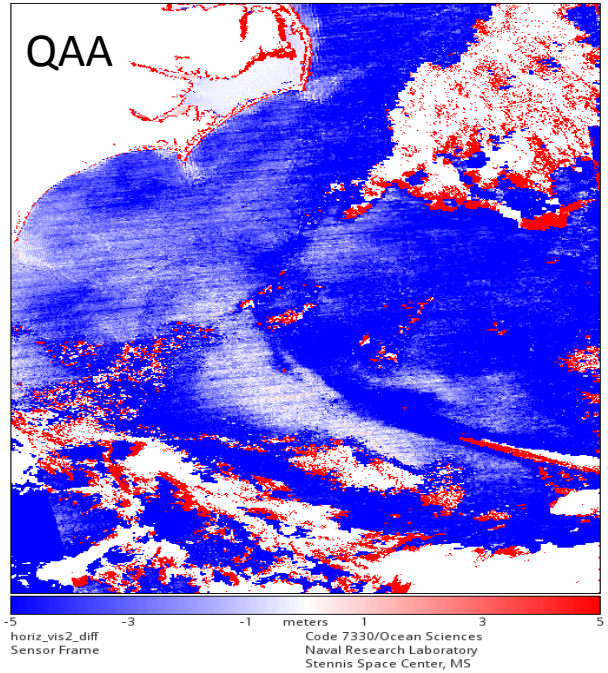

VIIRS2014167.L3_Mosaic_SEU
y = 1.4570777x
r^2 = 0.84625871
MODIS Aqua horiz_vis
VIIRS horiz_vis
LMI
VIIRS2014167.L3_Mosaic_SEU
y = 1.3510908x
r^2 = 0.89107202
MODIS Aqua vert_vis
VIIRS vert_vis
VIIRS2014167.L3_Mosaic_SEU
y = 1.17355x
r^2 = 0.895460
MODIS Aqua horiz_vis2
VIIRS horiz_vis2
QAA
VIIRS2014167.L3_Mosaic_SEU
y = 1.14195x
r^2 = 0.918311
MODIS Aqua vert_vis2
VIIRS vert_vis2

Diff VIIRS - MODIS

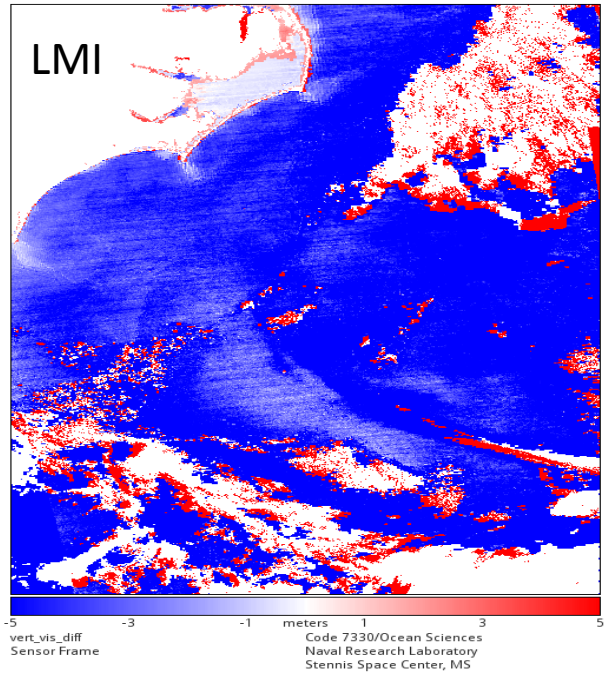
MODPM2014167.L3_Mosaic_SEU_500x650_4f.hdf



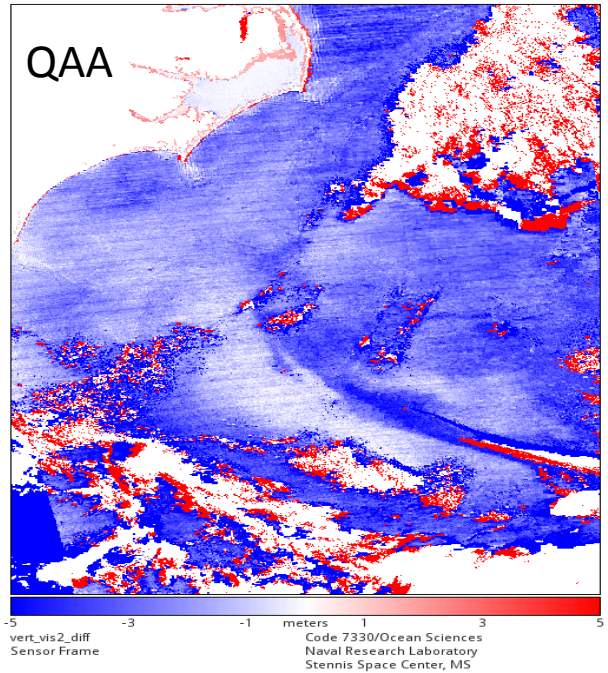
MODPM2014167.L3_Mosaic_SEU_500x650_4f.hdf

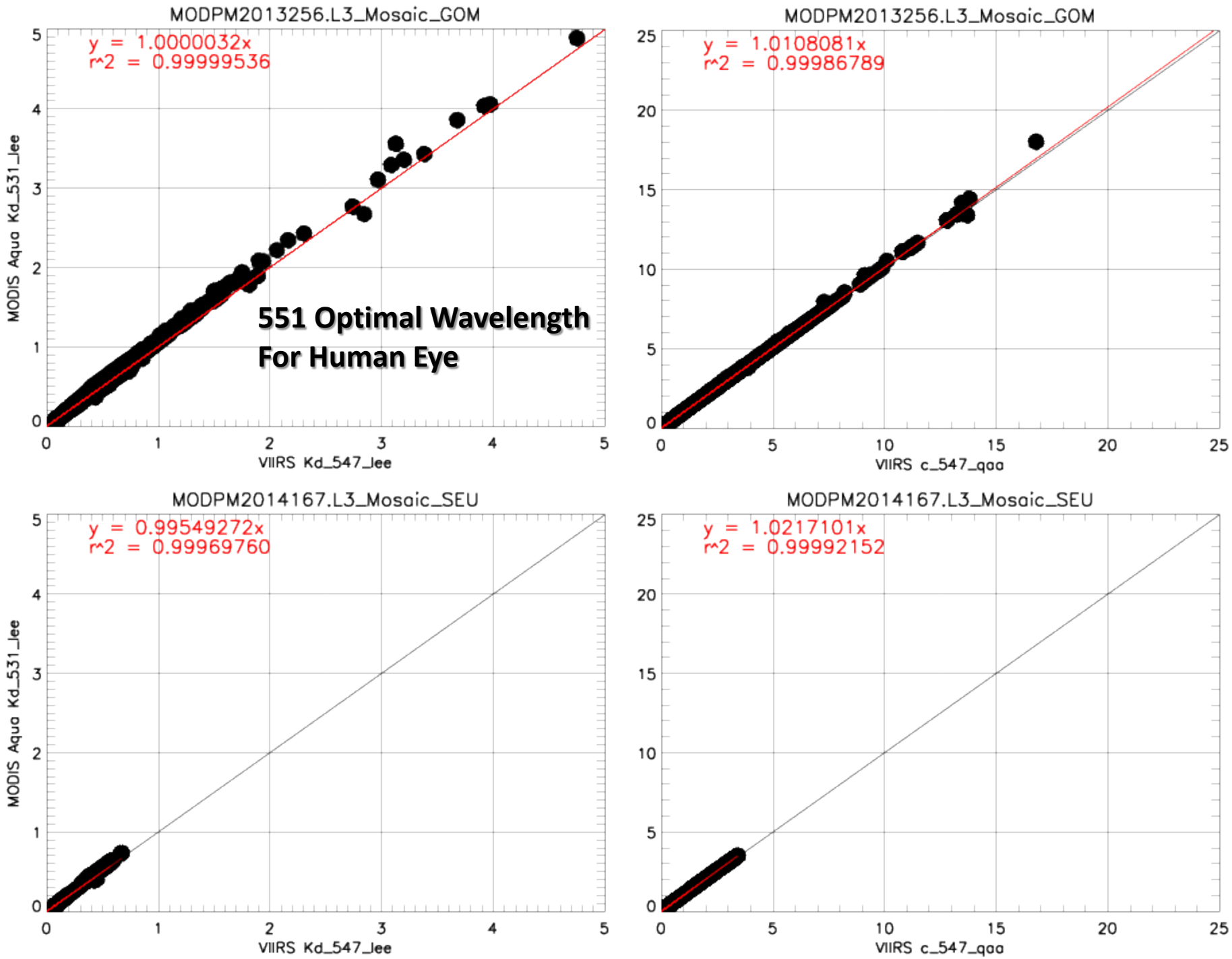


MODPM2014167.L3_Mosaic_SEU_500x650_4f.hdf



MODPM2014167.L3_Mosaic_SEU_500x650_4f.hdf




MODPM2013256.L3_Mosaic_GOM
y = 1.0000032x
r^2 = 0.99999536
MODIS Aqua Kd_531_Jee
VIIRS Kd_547_Jee
551 Optimal Wavelength
For Human Eye
MODPM2013256.L3_Mosaic_GOM
y = 1.0108081x
r^2 = 0.99986789
VIIRS c_547_qaa
MODPM2014167.L3_Mosaic_SEU
y = 0.99549272x
r^2 = 0.99969760
MODIS Aqua Kd_531_Jee
VIIRS Kd_547_Jee
MODPM2014167.L3_Mosaic_SEU
y = 1.0217101x
r^2 = 0.99992152
VIIRS c_547_qaa