Neptune Sciences, Inc.
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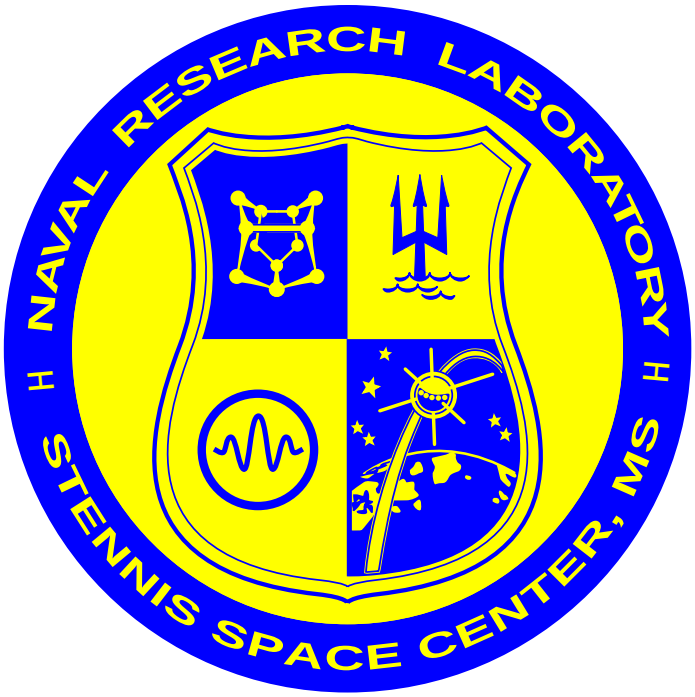
# Automated Processing System Maps Guide Version 2.6




Paul Martinolich
16 June 2003

# Automated Processing System
# Default Maps
# Version 2.6

*Paul Martinolich*

Neptune Sciences, Inc.

*ABSTRACT*

The Automated Processing System (APS) comes with a set of maps pre-defined. These are collected from the various regions of interest processed by the Navy at some point in time. Descriptions of each projected are provided here to (1) document the projection in question and (2) provide the new APS user with maps at the outset.

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19 June 2003

# Automated Processing System
# Default Maps
# Version 2.6

*Paul Martinolich*

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## 1. PRE-DEFINED MAPS

The following descriptions are for the maps that are currently defined in the APS system. Each of these *image maps* are located in the default map file (`$AUTO_DATA/maps.hdf`). Additionally, for convience, the default distribution contains the scripts for each of these areas in the `extra_areas` subdirectory.

### 1.1. Adriatic

This image map covers the Adriatic and Central Mediterrean Sea

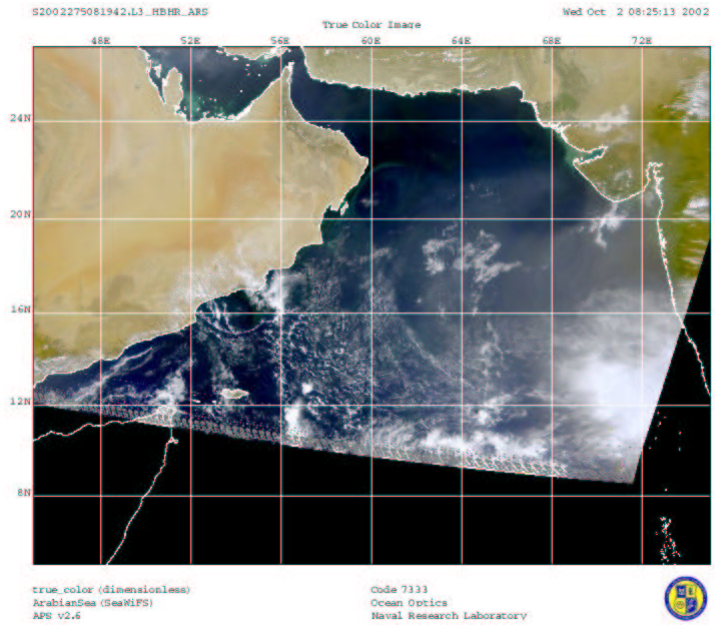
The Mercator projection is used with a longitude of central Meridian of 16.555 ° N. The latitude of true scale is 38.065 ° N. The WGS 84 datum was used.

The Adriatic image map is 1341 pixels wide and 2026 pixels high. The point 9.88 ° E and 45.99 ° N is tied to the upper left corner of the image (1,1). This gives the image an approximate resolution of 868 meters per pixel in the vertical direction and a range of 768 (top) to 956 (bottom) meters in the horizontal direction. This represents a 24.5 percent change in scale.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1341,1) | 1029517 meters | 768 meters |
| (1,1013) | (1341,1013) | 1159771 meters | 865 meters |
| (1,2026) | (1341,2026) | 1282002 meters | 956 meters |
| Vertical Lines | | | |
| (1,1) | (1,2026) | 1759522 meters | 868 meters |
| (670,1) | (670,2026) | 1759522 meters | 868 meters |
| (1341,1) | (1341,2026) | 1759522 meters | 868 meters |

### 1.2. ArabianSea




This image map covers the Arabian Sea

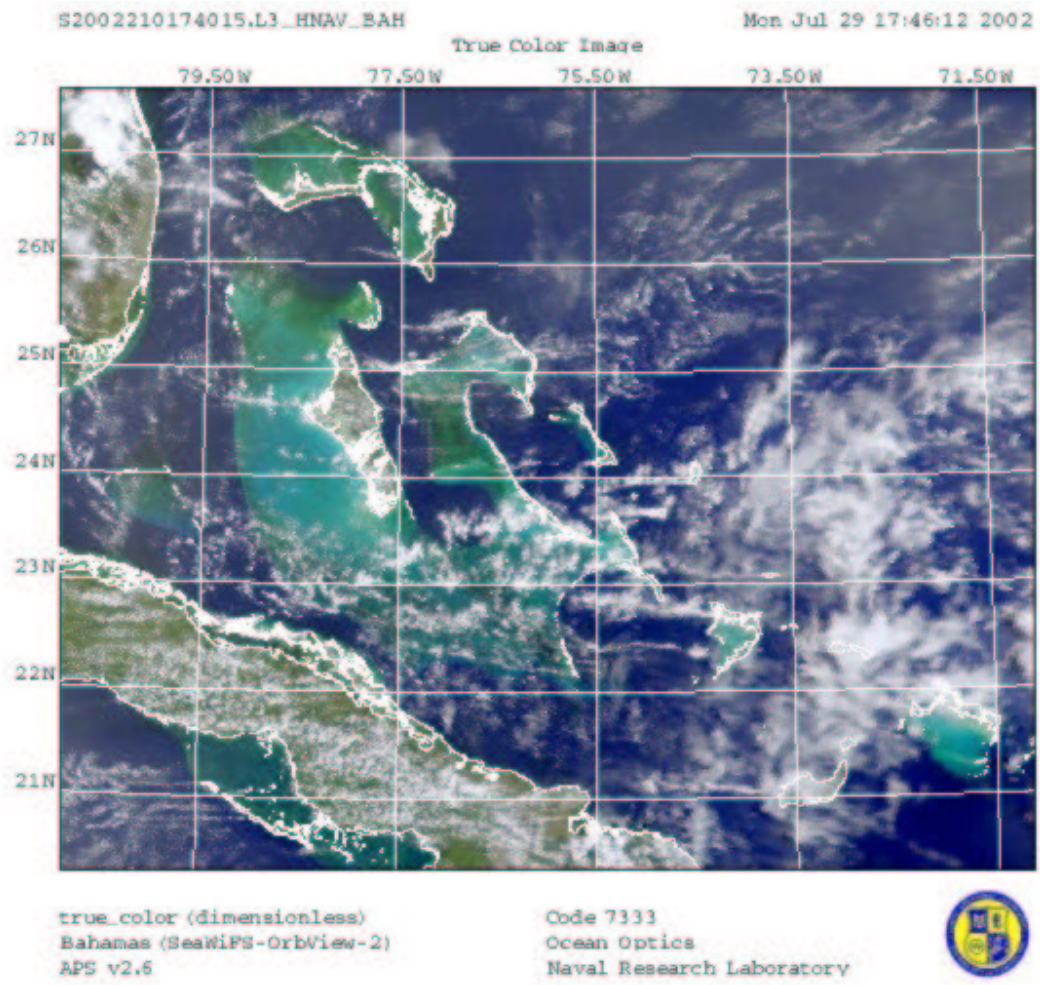
The Mercator projection is used with a longitude of central Meridian of 65 ° N. The latitude of true scale is 22° N. The Clarke 1880 datum was used.

The Arabian Sea image map is 4054 pixels wide and 3100 pixels high. The point 45 ° E and 27 ° N is tied to the upper left corner of the image (1,1). This gives the image an approximate resolution of 789 meters per pixel in the vertical direction and a range of 731 (top) to 819 (bottom)
meters in the horizontal direction. This represents a 12 percent change in scale from top to bottom.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (4054,1) | 2963252 meters | 731 meters |
| (1,1550) | (4054,1550) | 3196785 meters | 788 meters |
| (1,3100) | (4054,3100) | 3320923 meters | 819 meters |
| Vertical Lines | | | |
| (1,1) | (1,3100) | 2448026 meters | 789 meters |
| (2027,1) | (2027,3100) | 2448026 meters | 789 meters |
| (4054,1) | (4054,3100) | 2448026 meters | 789 meters |

### 1.3. Bahamas




This image map covers Bahamas.

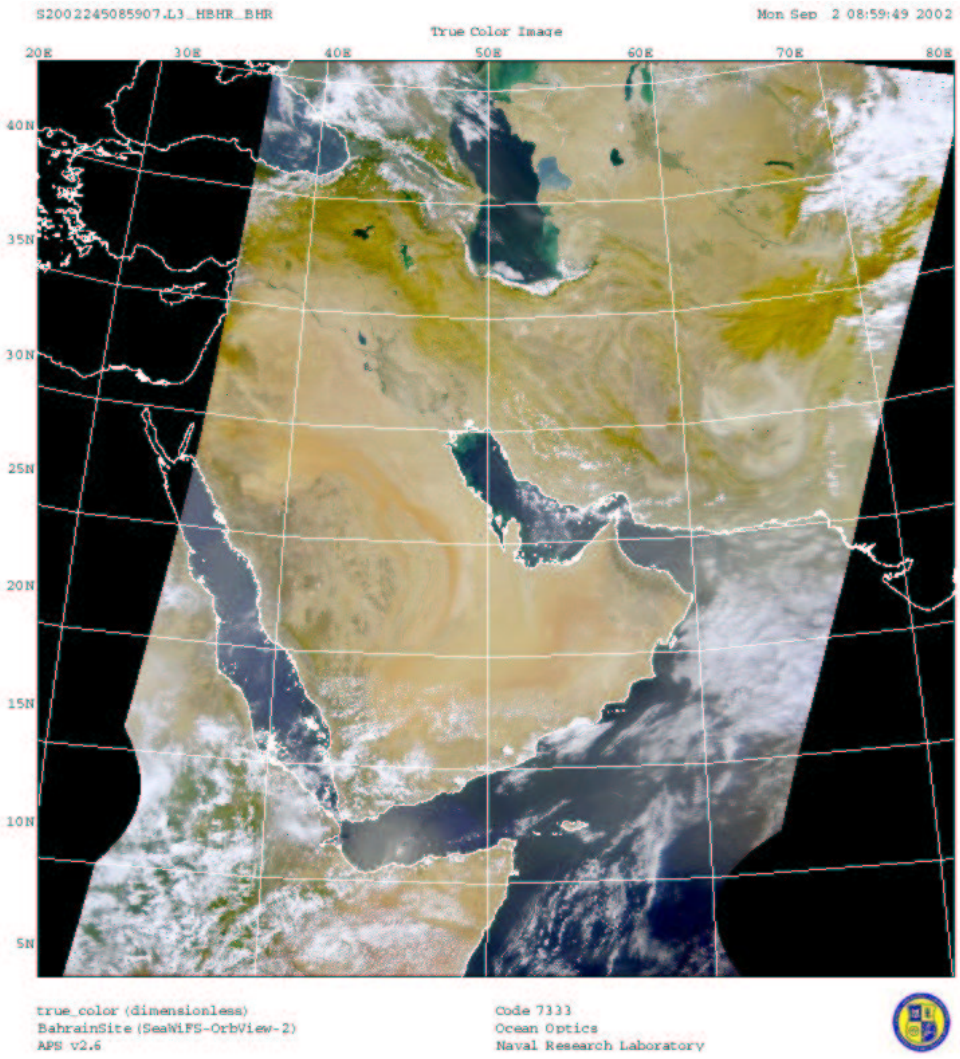
This Bahamas image map uses the Alber Equal Area projection. The standard parallel are at 23 ° N and 25 ° N. The longitude of central meridian is 76 ° W and the latitude of projection origin is 24 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 76000000 ° W. The latitude of true scale is 24000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Bahamas image map is 1000 pixels wide and 800 pixels high. The point 76 ° W and 24 ° N is tied to the center (500,400) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1000,1) | 1004111 meters | 1005 meters |
| (1,400) | (1000,400) | 1006320 meters | 1007 meters |
| (1,800) | (1000,800) | 1004462 meters | 1005 meters |
| Vertical Lines | | | |
| (1,1) | (1,800) | 809671 meters | 1013 meters |
| (500,1) | (500,800) | 809670 meters | 1013 meters |
| (1000,1) | (1000,800) | 809671 meters | 1013 meters |

### 1.4. BahrainSite




This image map covers Bahrain Regional Center.

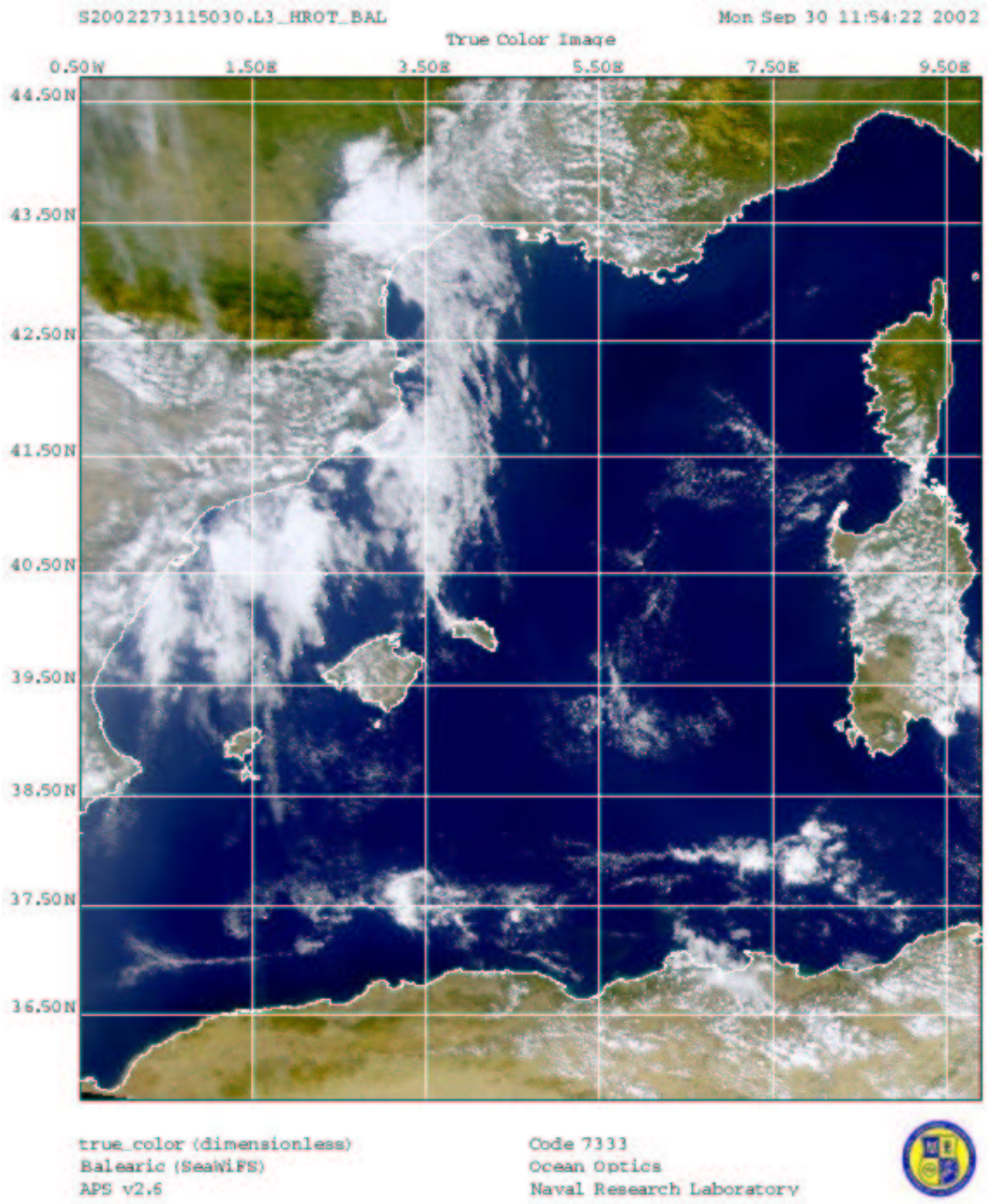
This Bahrain Regional Center image map uses the Stereographic projection.

The BahrianSite image map is 4096 pixels wide and 4096 pixels high. The point 50.38 ° E and 26.12 ° N is tied to the center (2048,2048) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (4096,1) | 4346477 meters | 1061 meters |
| (1,2048) | (4096,2048) | 4485557 meters | 1095 meters |
| (1,4096) | (4096,4096) | 4346346 meters | 1061 meters |
| Vertical Lines | | | |
| (1,1) | (1,4096) | 4346477 meters | 1061 meters |
| (2048,1) | (2048,4096) | 4485557 meters | 1095 meters |
| (4096,1) | (4096,4096) | 4346346 meters | 1061 meters |

### 1.5. Balearic




This image map covers the Balearic and Western Central Med

The Mercator projection is used with a longitude of central Meridian of 4.71 ° N. The latitude of true scale is 40.195° N. The WGS 84 datum was used.

The Balearic image map is 1040 pixels wide and 1180 pixels high. The point 0.47 ° W and 44.69 ° N is tied to the upper left corner of the image (1,1). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1040,1) | 1095288 meters | 1054 meters |
| (1,590) | (1040,590) | 1111826 meters | 1070 meters |
| (1,1180) | (1040,1180) | 1123099 meters | 1080 meters |
| Vertical Lines | | | |
| (1,1) | (1,1180) | 1244507 meters | 1055 meters |
| (520,1) | (520,1180) | 1261399 meters | 1069 meters |
| (1040,1) | (1040,1180) | 1273687 meters | 1080 meters |

### 1.6. Baltic Sea

This image map covers the Baltic Sea

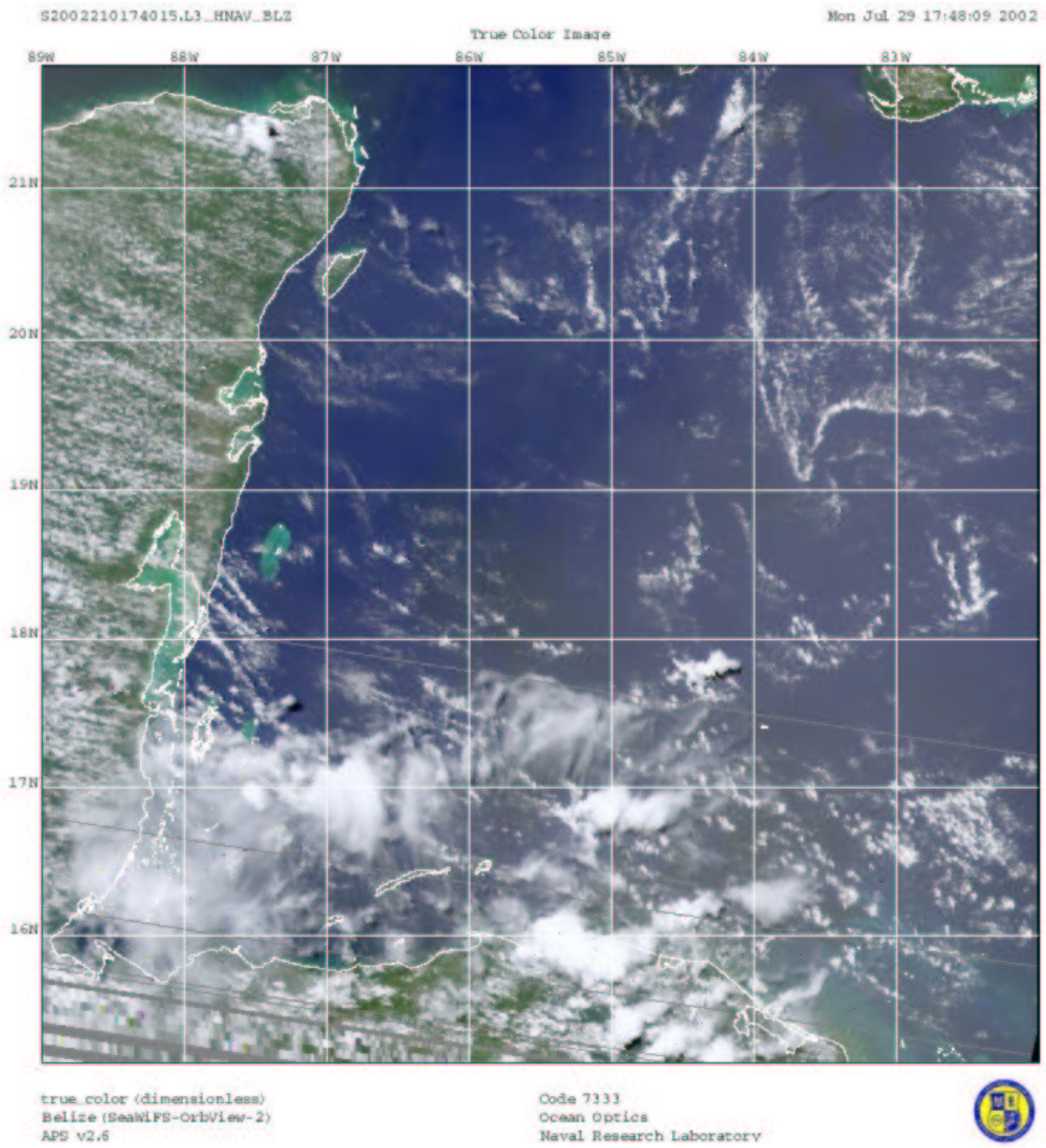
The Mercator projection is used with a longitude of central Meridian of 17.5 ° N. The latitude of true scale is 57° N. The WGS 84 datum was used.

The Baltic Sea image map is 1600 pixels wide and 1200 pixels high. The point 18 ° E and 57 ° N is tied to the center of the image (800,600). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1600,1) | 882860 meters | 552 meters |
| (1,600) | (1600,600) | 965551 meters | 603 meters |
| (1,1200) | (1600,1200) | 1052753 meters | 658 meters |
| Vertical Lines | | | |
| (1,1) | (1,1200) | 727732 meters | 606 meters |
| (800,1) | (800,1200) | 727732 meters | 606 meters |
| (1600,1) | (1600,1200) | 727732 meters | 606 meters |

### 1.7. Belize




This image map covers the Belize

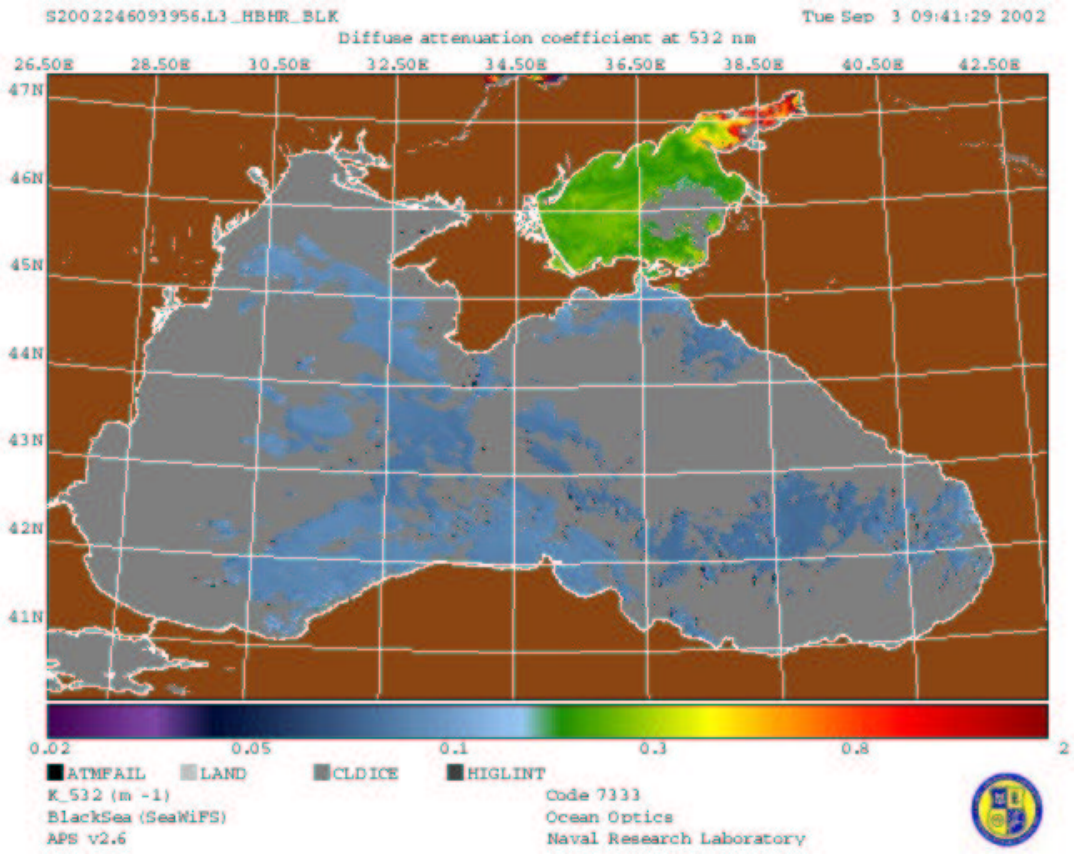
The Mercator projection is used with a longitude of central Meridian of 85.5 ° W. The latitude of true scale is 18.5° N. The WGS 84 datum was used.

The Belize image map is 700 pixels wide and 700 pixels high. The point 85.5 ° W and 18.5 ° N is tied to the center of the image (350,350). This gives the image an approximate resolution of 1,060 meters per pixel in the vertical direction and a range of 1,032 (top) to 1,072 (bottom) meters in the horizontal direction. This represents a 3.8 percent change in scale from top to bottom.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (700,1) | 721176 meters | 1032 meters |
| (1,350) | (700,350) | 736578 meters | 1053 meters |
| (1,700) | (700,700) | 749808 meters | 1072 meters |
| Vertical Lines | | | |
| (1,1) | (1,700) | 740736 meters | 1060 meters |
| (350,1) | (350,700) | 740736 meters | 1060 meters |
| (700,1) | (700,700) | 740736 meters | 1060 meters |

### 1.8. Black Sea




This image map covers the Black Sea and Sea of Azoz.

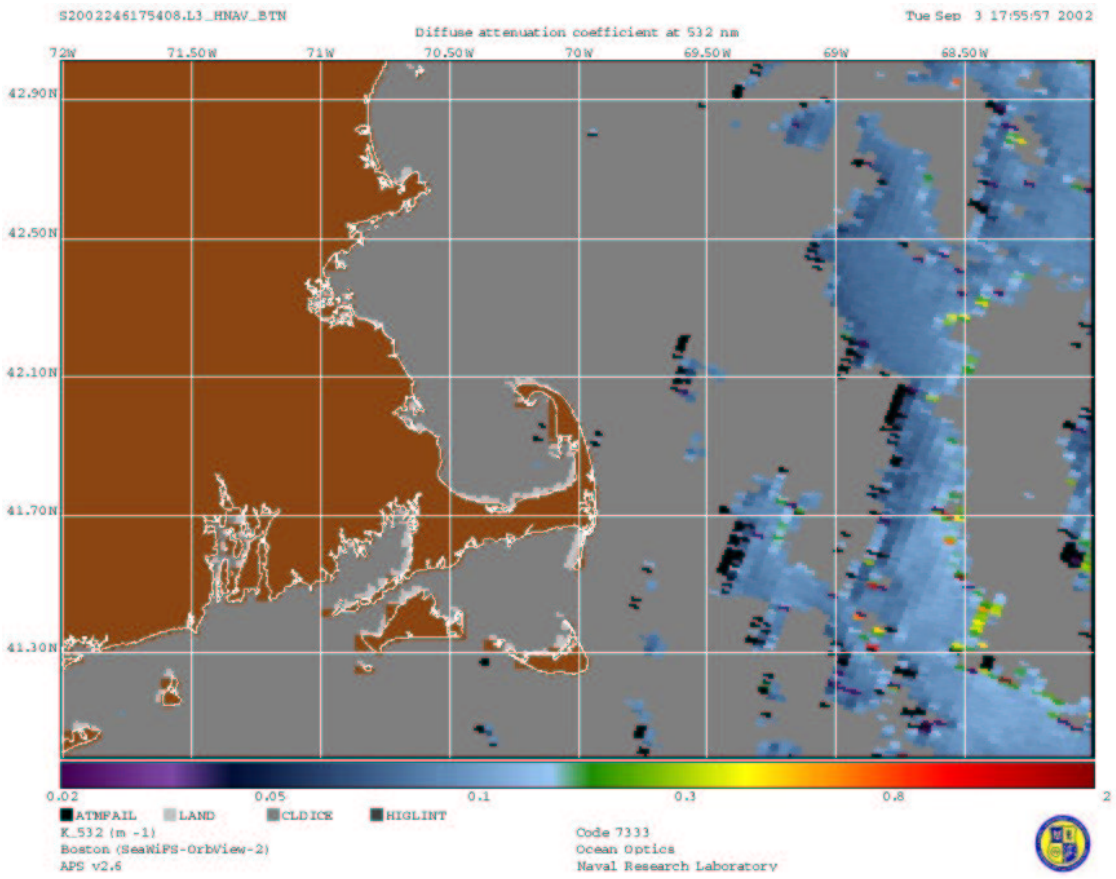
The Albers Equal Area projection is used with standard parallels at 46 ° N and 42 ° N. The latitude of origin is 44 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Black Sea image map is 1200x750 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (600,375). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.9. Boston




This image map covers the Boston

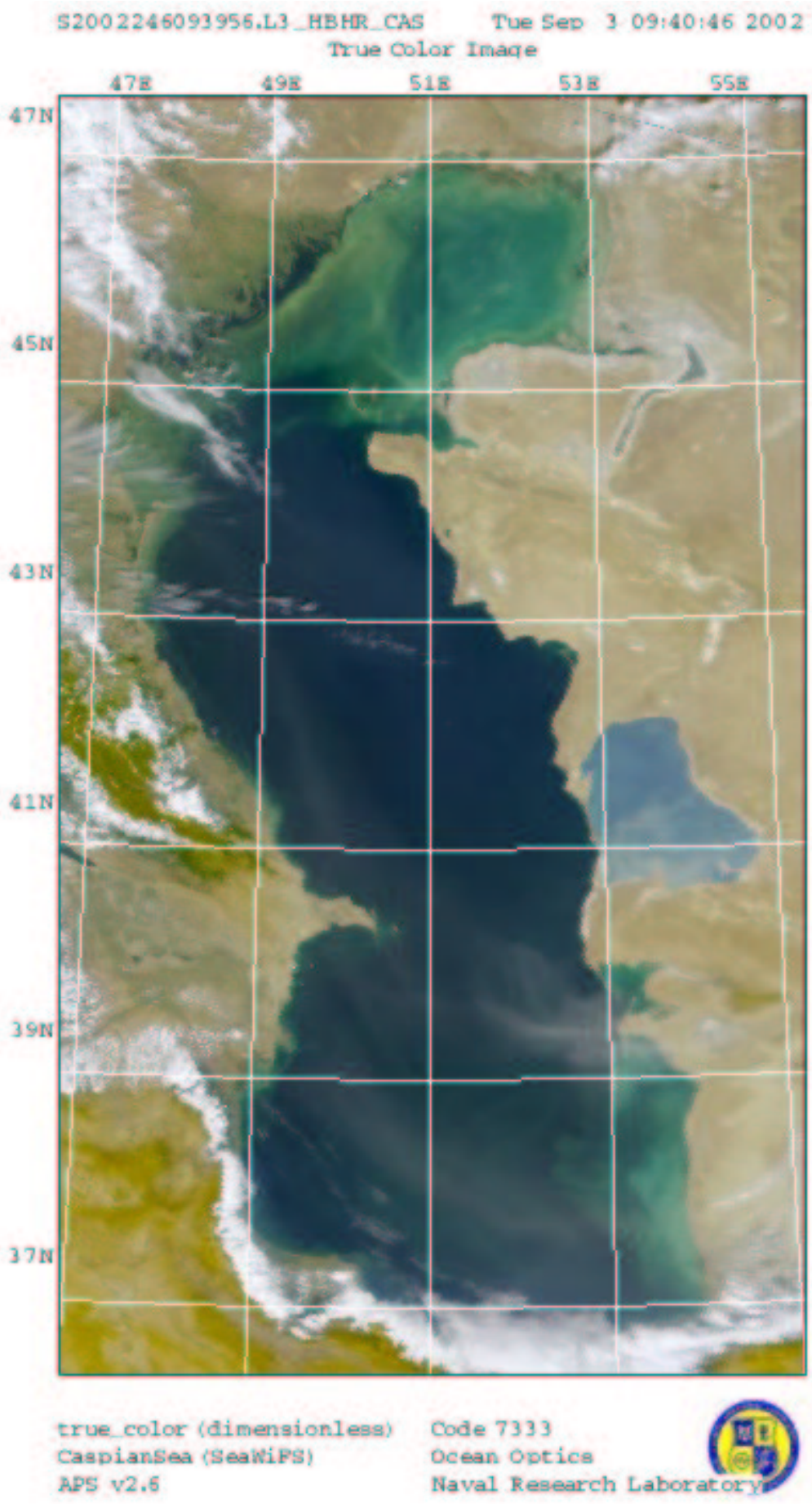
The Mercator projection is used with a longitude of central Meridian of 70 ° W. The latitude of true scale is 42° N. The WGS 84 datum was used.

The Boston image map is 400 pixels wide and 270 pixels high. The point 72 ° W and 43 ° N is tied to the upper left corner of the image (1,1). gives the image an approximate resolution of 831 meters per pixel in the vertical direction and a range of 814 (top) to 840 (bottom) meters per pixel in the horizonal direction. This represents a 3.2 percent change in scale.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (400,1) | 325056 meters | 814 meters |
| (1,135) | (400,135) | 330266 meters | 827 meters |
| (1,270) | (400,270) | 335497 meters | 840 meters |
| Vertical Lines | | | |
| (1,1) | (1,270) | 223521 meters | 831 meters |
| (200,1) | (200,270) | 223521 meters | 831 meters |
| (400,1) | (400,270) | 223521 meters | 831 meters |

**1.10. Caspian Sea**


S2002246093956.L3_HBHR_CAS Tue Sep 3 09:40:46 2002
True Color Image
47E
49E
51E
53E
55E
47N
45N
43N
41N
39N
37N
true_color (dimensionless)
CaspianSea (SeaWiFS)
APS v2.6
Code 7333
Ocean Optics
Naval Research Laboratory

This image map covers the Caspian Sea

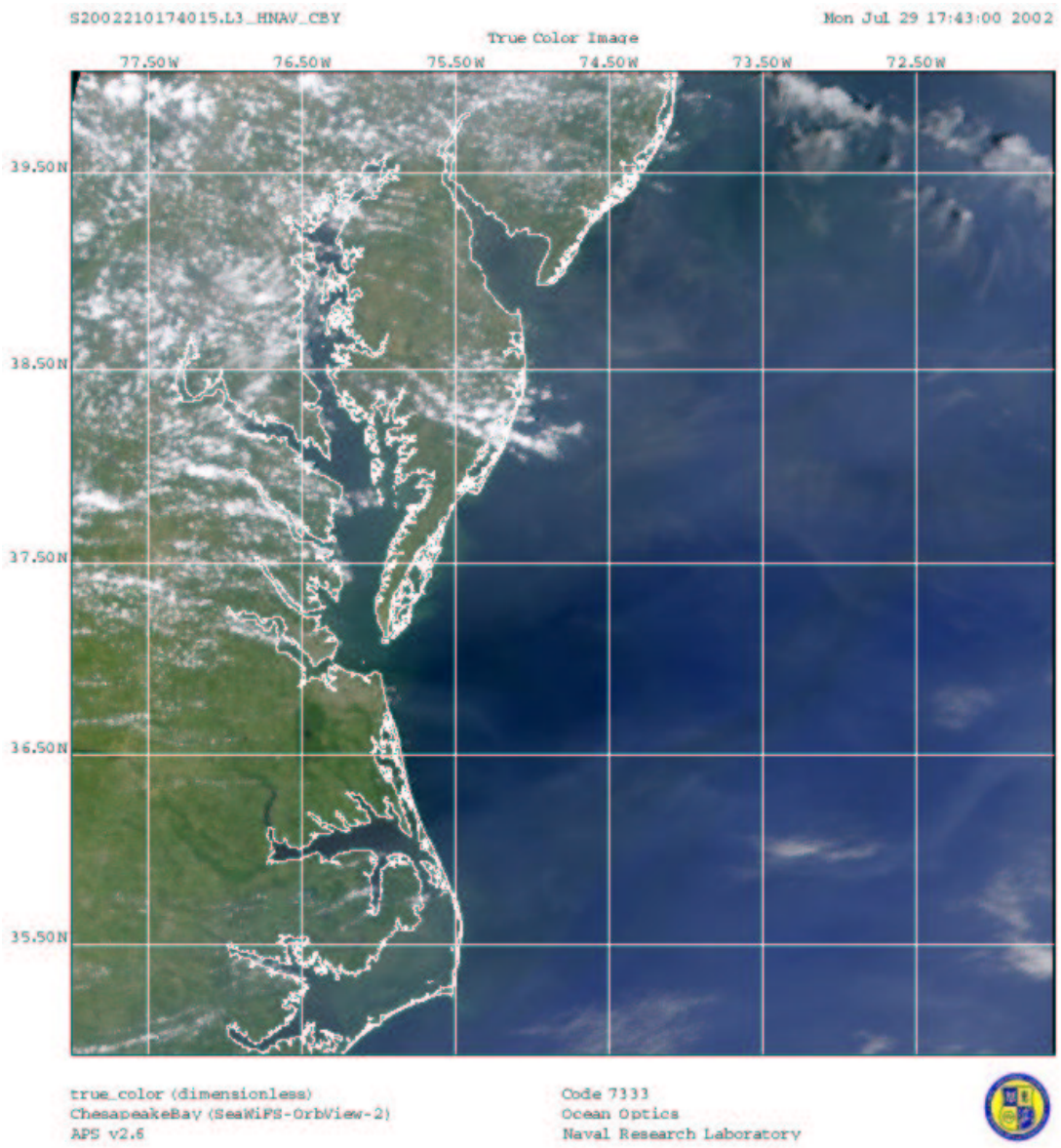
The Albers Equal Area projection is used with standard parallels at 44 ° N and 40 ° N. The latitude of origin is 42 ° N and the longitude of central meridian at set to 51 ° N. The WGS 84 datum was used.

The Caspian Sea image map is 700x1200 pixels. The point 51 ° E and 42 ° N is tie to the center of the image (350,600). This gives the image an approximate resolution of 1,033 meters per pixel in the vertical direction and 1,025 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (700,1) | 715378 meters | 1023 meters |
| (1,600) | (700,600) | 719233 meters | 1029 meters |
| (1,1200) | (700,1200) | 716274 meters | 1025 meters |
| Vertical Lines | | | |
| (1,1) | (1,1200) | 1238730 meters | 1033 meters |
| (350,1) | (350,1200) | 1238740 meters | 1033 meters |
| (700,1) | (700,1200) | 1238730 meters | 1033 meters |

### 1.11. ChesapeakeBay




This image map covers the Chesapeake Bay

The Mercator projection is used with a longitude of central Meridian of 74.8 ° W. The latitude of true scale is 36.8° N. The WGS 84 datum was used.

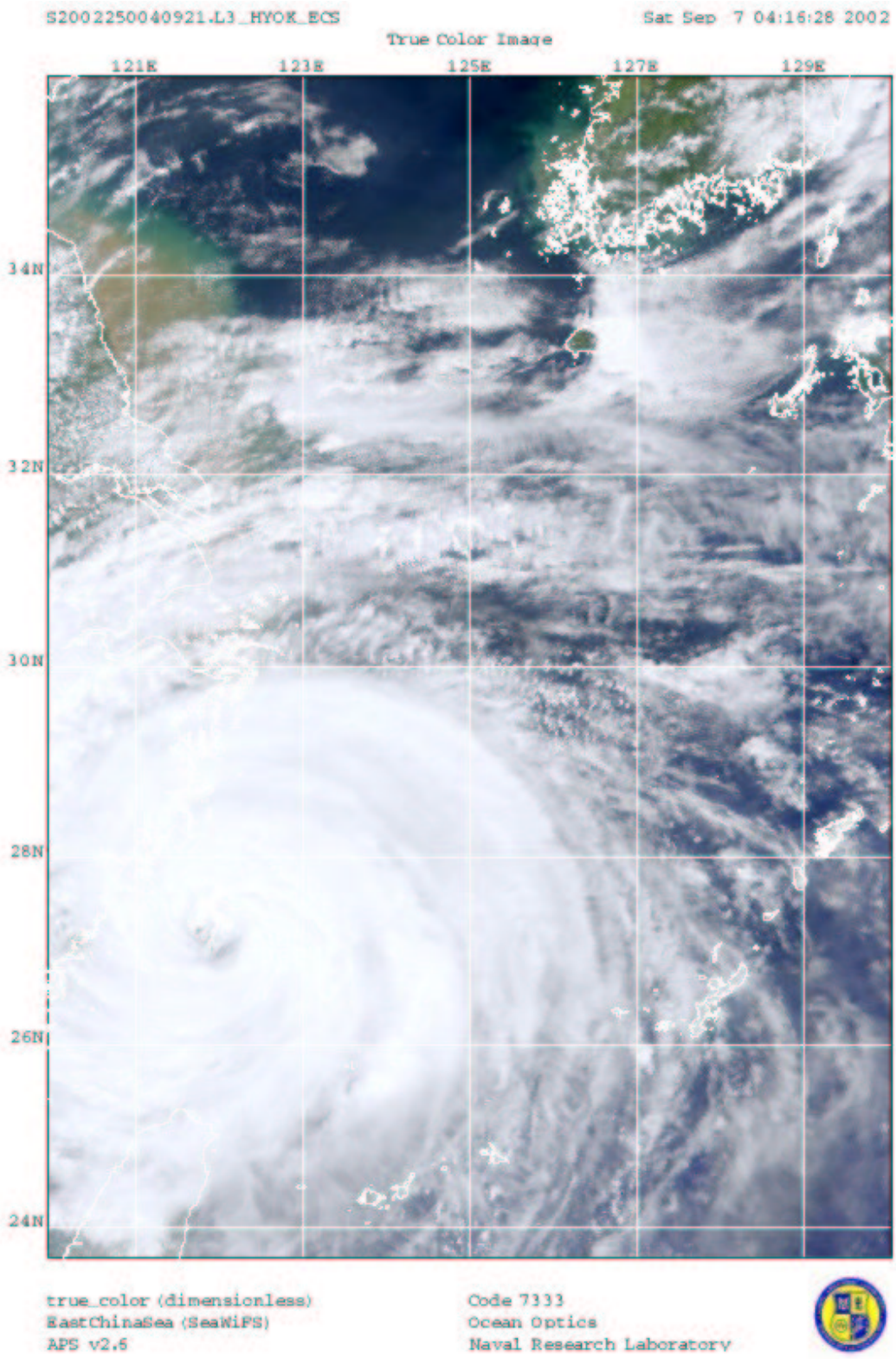
The Chesapeake Bay image map is 640 pixels wide and 640 pixels high. The point 78 ° W and 40 ° N is tied to the upper left corner of the image (1,1). gives the image an approximate resolution of 831 meters per pixel in the vertical direction and a range of 852 (top) to 912 (bottom) meters per pixel in the horizonal direction. This represents a 7 percent change in scale from top to bottom.

A MOS resolution image of the same area is called `ChesapeakeBay_MOS`.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (640,1) | 544694 meters | 852 meters |
| (1,320) | (640,320) | 564136 meters | 882 meters |
| (1,640) | (640,640) | 583184 meters | 912 meters |
| Vertical Lines | | | |
| (1,1) | (1,640) | 566594 meters | 886 meters |
| (320,1) | (320,640) | 566594 meters | 886 meters |
| (640,1) | (640,640) | 566594 meters | 886 meters |

### 1.12. East China Sea




This image map covers the East China Sea

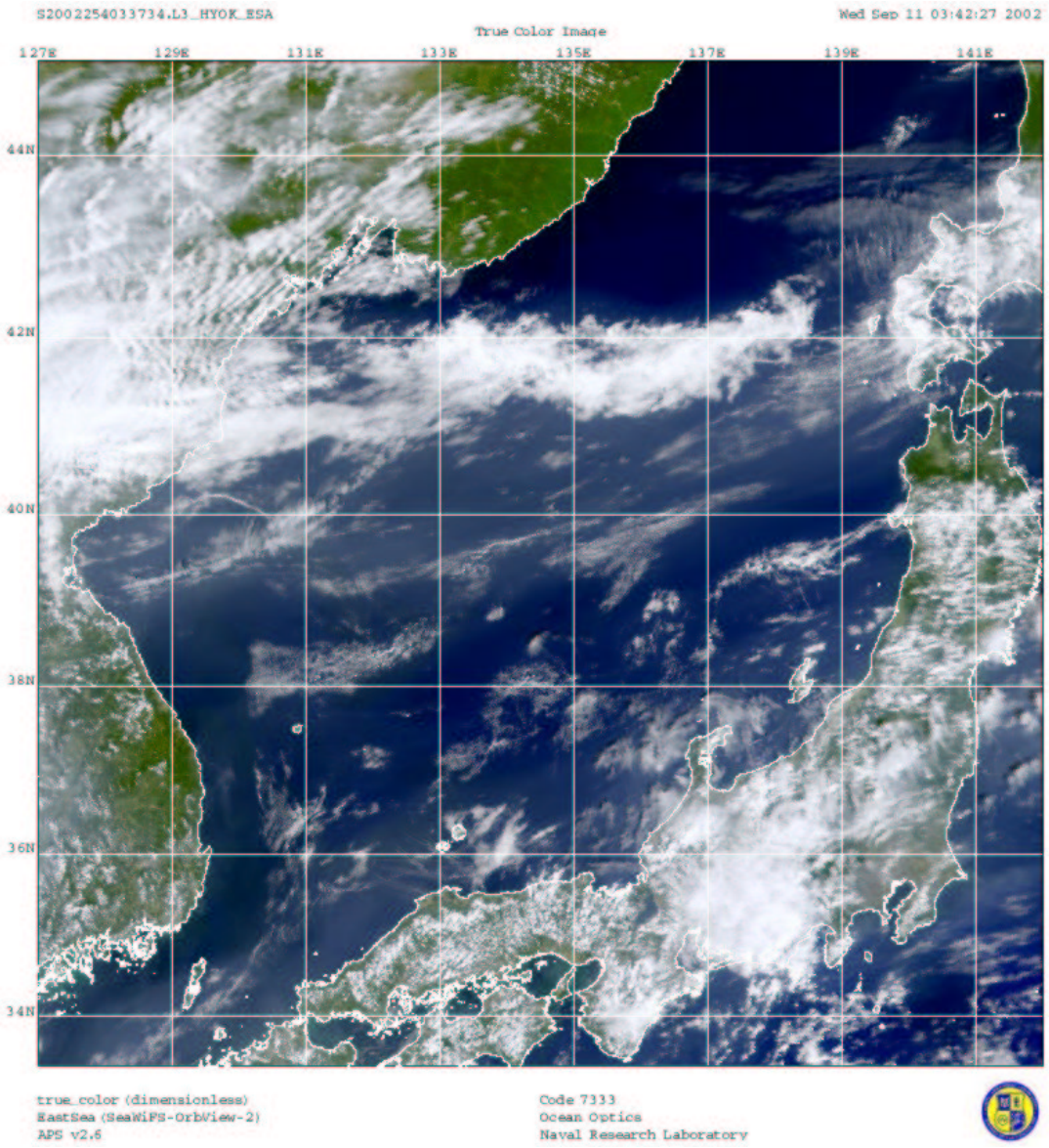
The Albers Equal Area projection is used with standard parallels at 45 ° N and 43 ° N. The latitude of origin is 43 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The East China Sea image map is 1400x700 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (700,350). This gives the image an approximate resolution of 1,000 meters per pixel in the vertical direction and 1,000 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1400,1) | 1434234 | 124 |
| Vertical Lines | | | |
| (1,1) | (1400,1) | 1434234 | 124 |

### 1.13. EastSea




This image map covers the East Sea.

The Mercator projection is used with a longitude of central Meridian of 134.30 ° E. The latitude of true scale is 39.2° N. The WGS 84 datum was used.

The East Sea image map is 1500 pixels square. The point 127 ° E and 45 ° N is tied to the upper left corner of the image (1,1). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.14. EastSound

This image map covers the East Sound.

The Merctor projection is used with standard parallels at 46 ° N and 42 ° N. The latitude of origin is 44 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The East Sound image map is 1200x750 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (600,375). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.15. FloridaBay

This image map covers the Florida Bay.

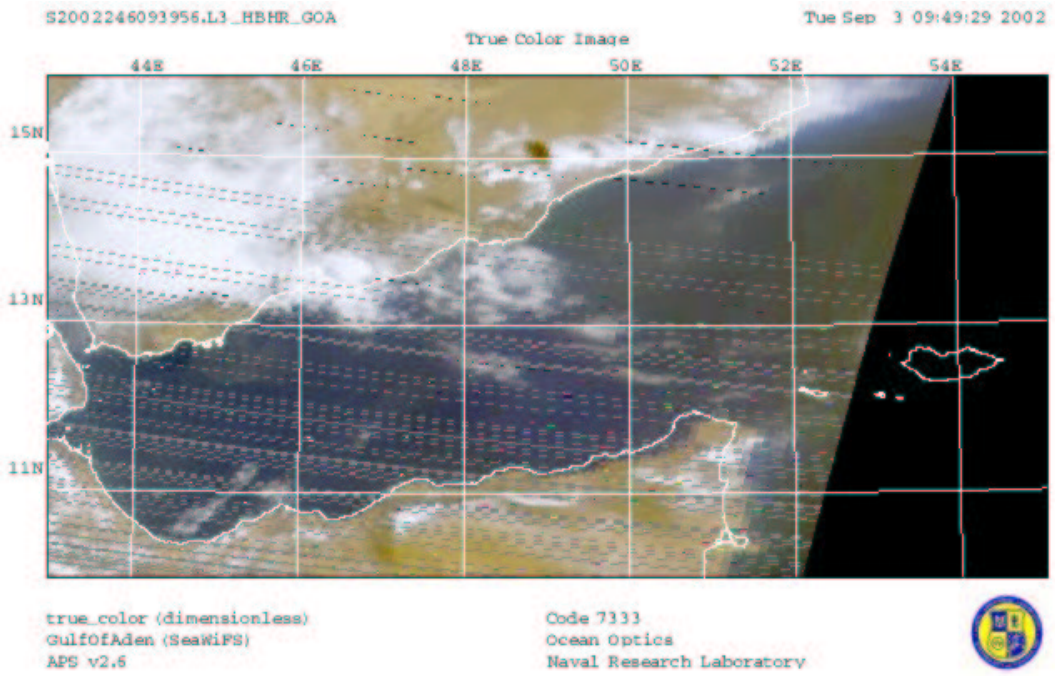
The Merctor projection is used with standard parallels at 46 ° N and 42 ° N. The latitude of origin is 44 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Florida Bay image map is 1200x750 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (600,375). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.16. Gulf of Aden




This image map covers the Gulf of Aden

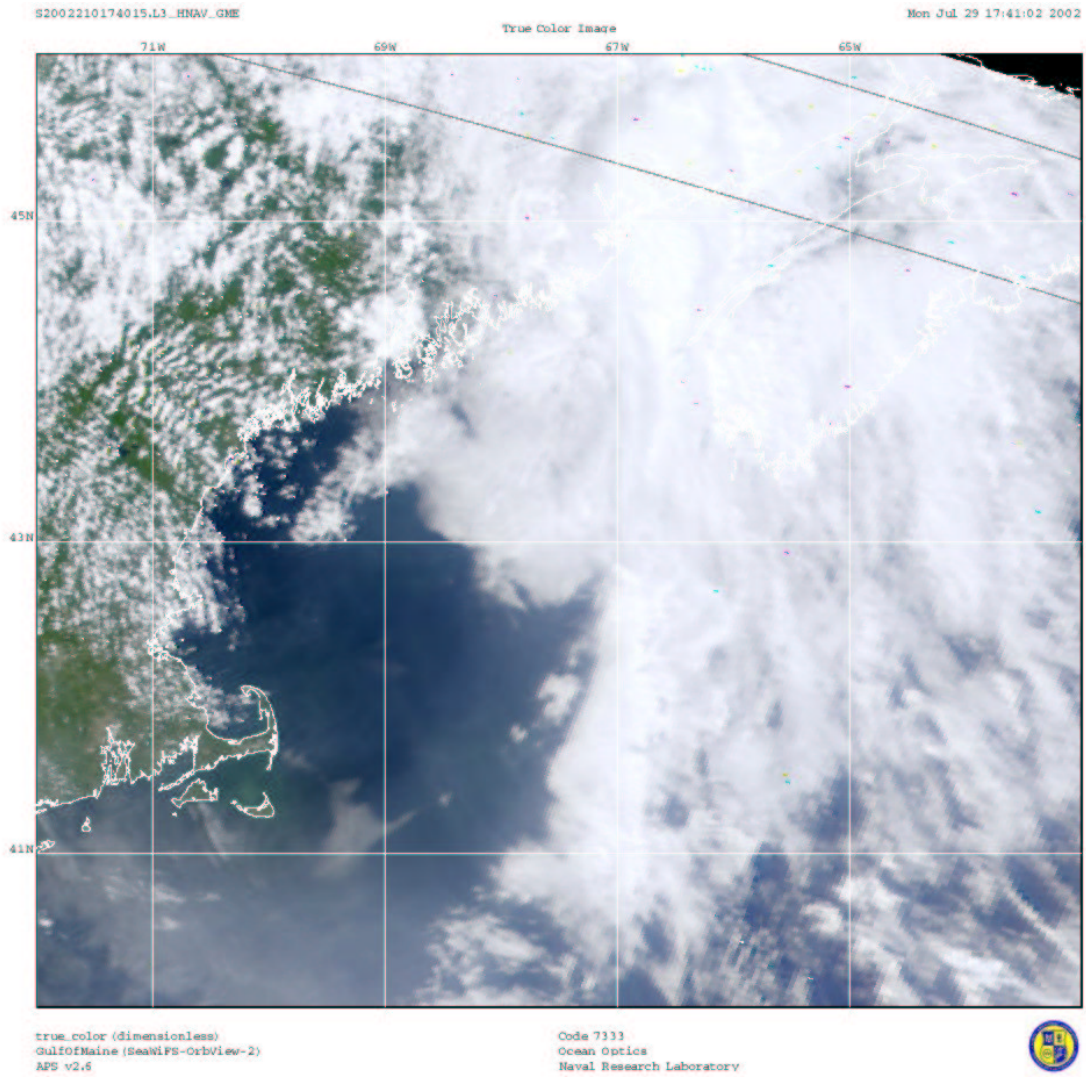
The Albers Equal Area projection is used with standard parallels at 45 ° N and 43 ° N. The latitude of origin is 43 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Gulf of Aden image map is 1400x700 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (700,350). This gives the image an approximate resolution of 1,000 meters per pixel in the vertical direction and 1,000 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |
| Vertical Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |

### 1.17. GulfOfMaine




This image map covers the Gulf of Maine.

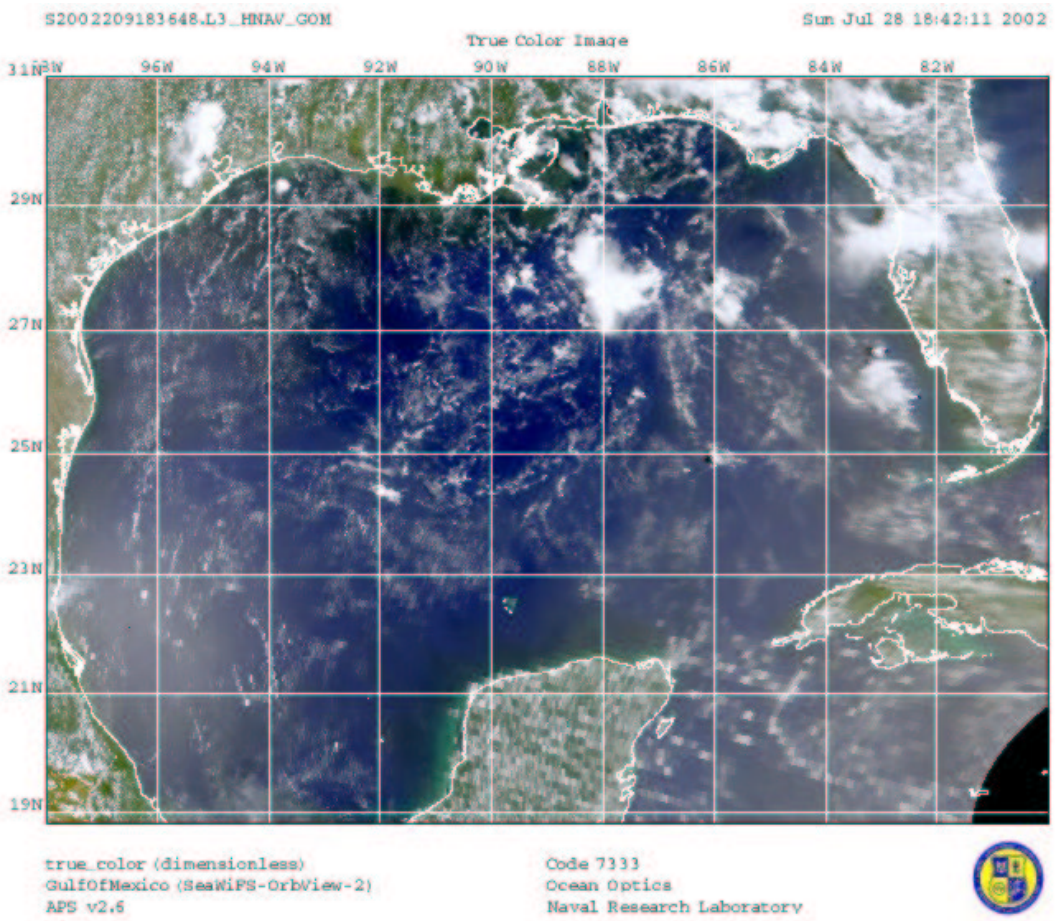
The Merctor projection is used with standard parallels at 46 ° N and 42 ° N. The latitude of origin is 44 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Gulf of Maine image map is 1200x750 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (600,375). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.18. GulfOfMexico




This image map covers the Gulf of Mexico.

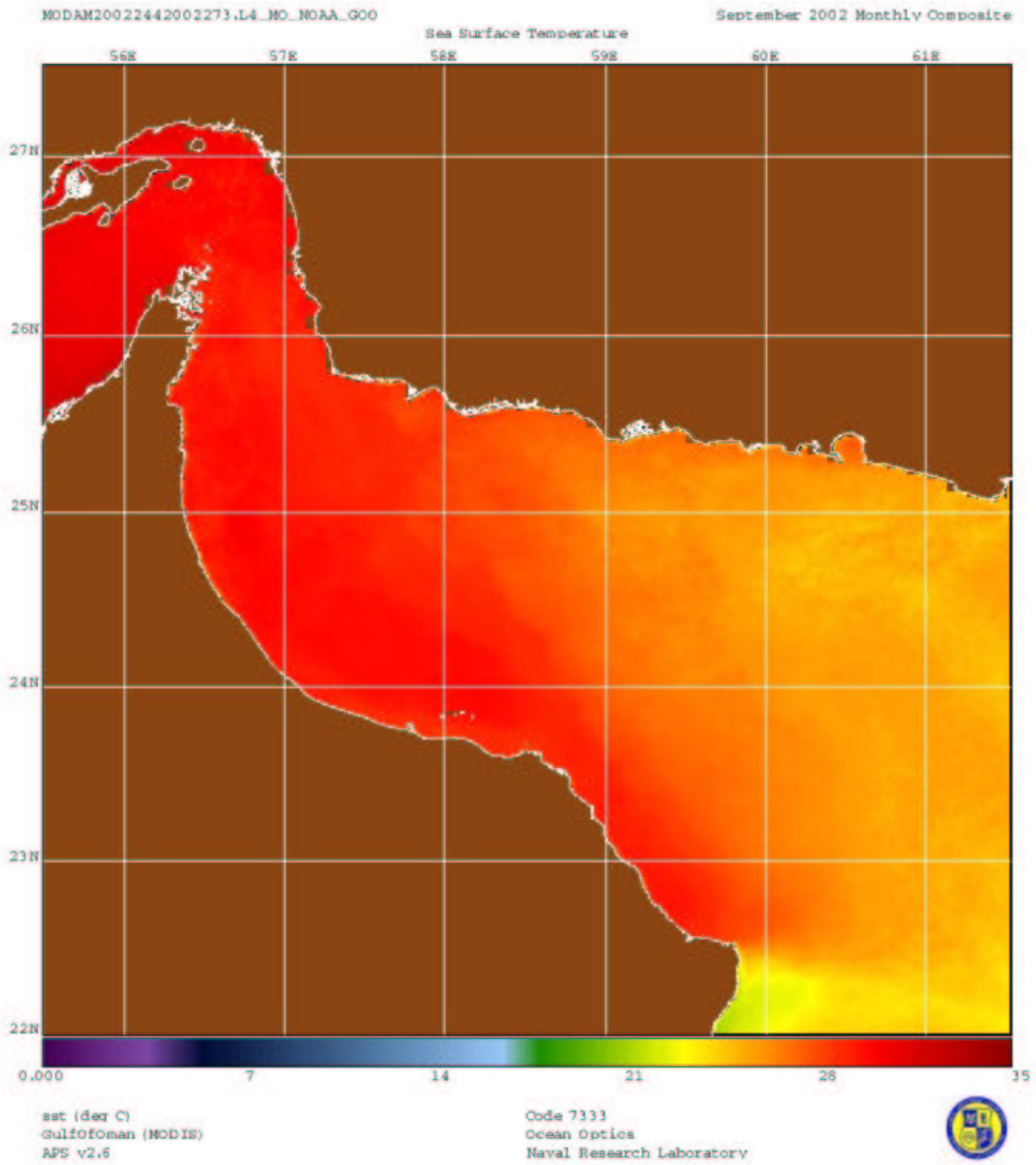
The Merctor projection is used with standard parallels at 46 ° N and 42 ° N. The latitude of origin is 44 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Gulf of Mexico image map is 1200x750 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (600,375). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.19. GulfOfOman




This image map covers the Gulf of Oman.

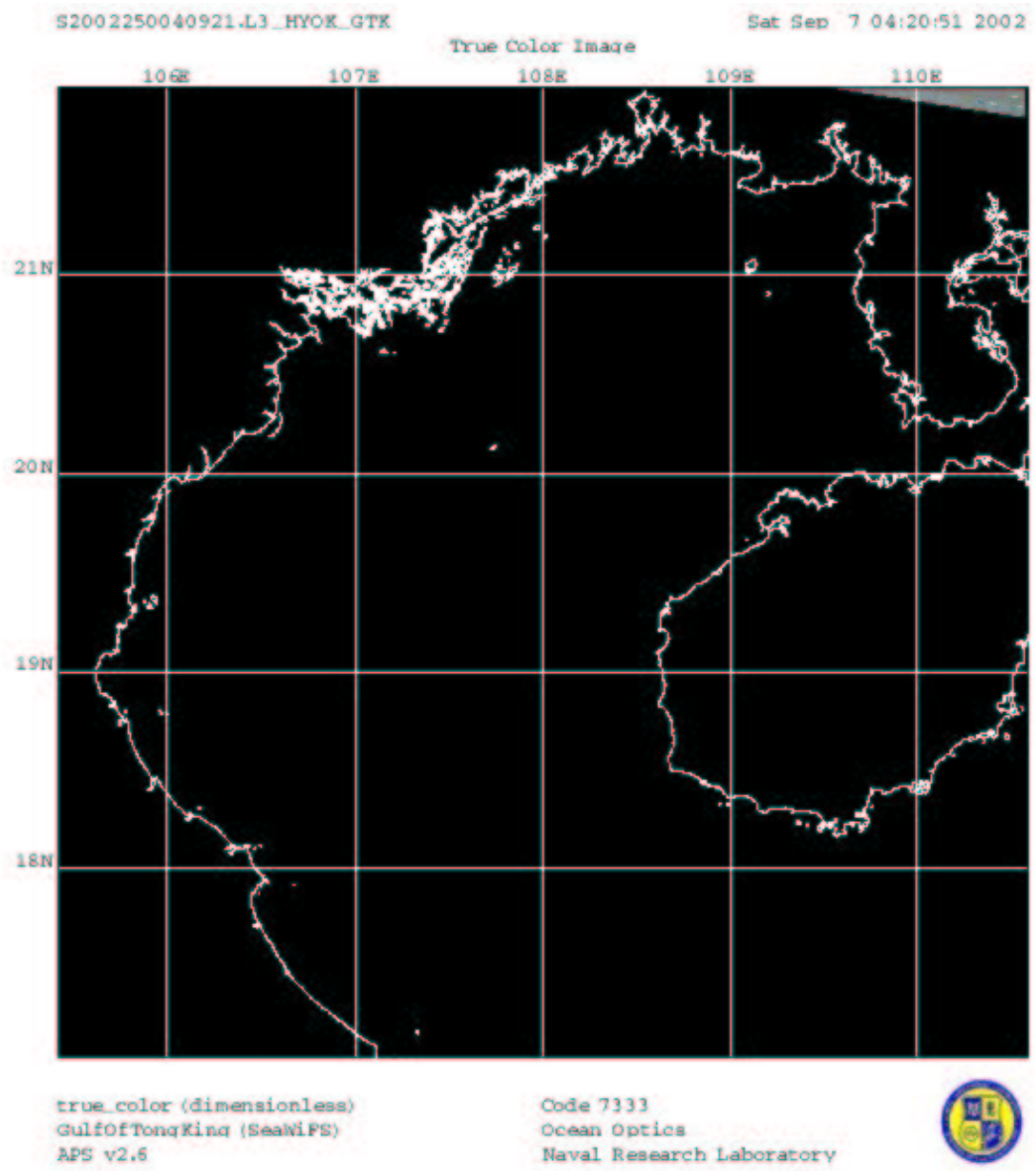
The Merctor projection is used with standard parallels at 46 ° N and 42 ° N. The latitude of origin is 44 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Gulf of Oman image map is 1200x750 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (600,375). This gives the image an approximate resolution of 1,045 meters per pixel in the vertical direction and 1,046 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1200,1) | 1253830 meters | 1045 meters |
| (1,375) | (1200,375) | 1256420 meters | 1047 meters |
| (1,700) | (1200,700) | 1254810 meters | 1046 meters |
| Vertical Lines | | | |
| (1,1) | (1,750) | 787159 meters | 1051 meters |
| (600,1) | (600,750) | 787147 meters | 1051 meters |
| (1200,1) | (1200,750) | 787159 meters | 1051 meters |

### 1.20. Gulf of TongKing




This image map covers the Gulf of TongKing

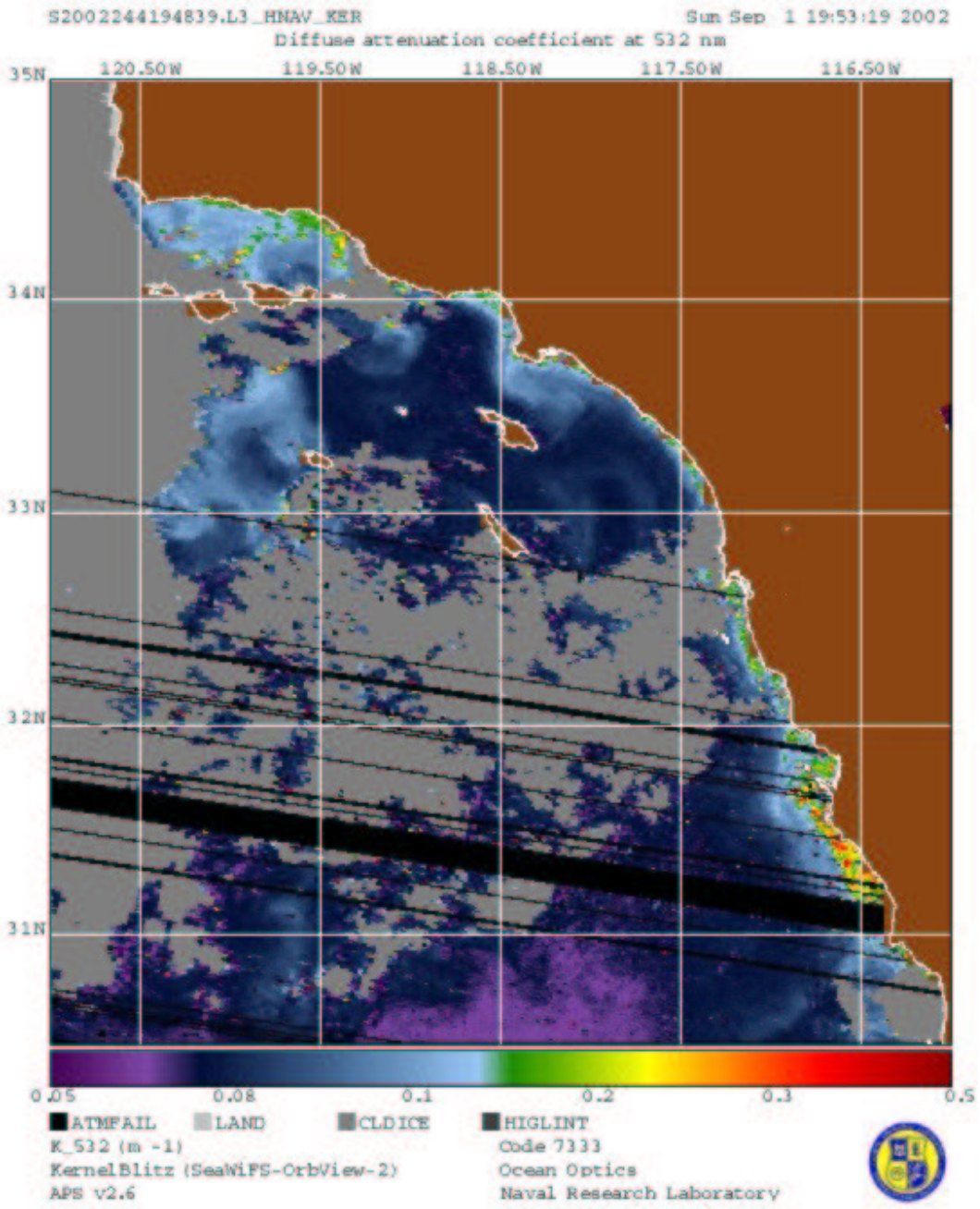
The Albers Equal Area projection is used with standard parallels at 45 ° N and 43 ° N. The latitude of origin is 43 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Gulf of TongKing image map is 1400x700 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (700,350). This gives the image an approximate resolution of 1,000 meters per pixel in the vertical direction and 1,000 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |
| Vertical Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |

### 1.21. KernelBlitz




This image map covers KernelBlitz

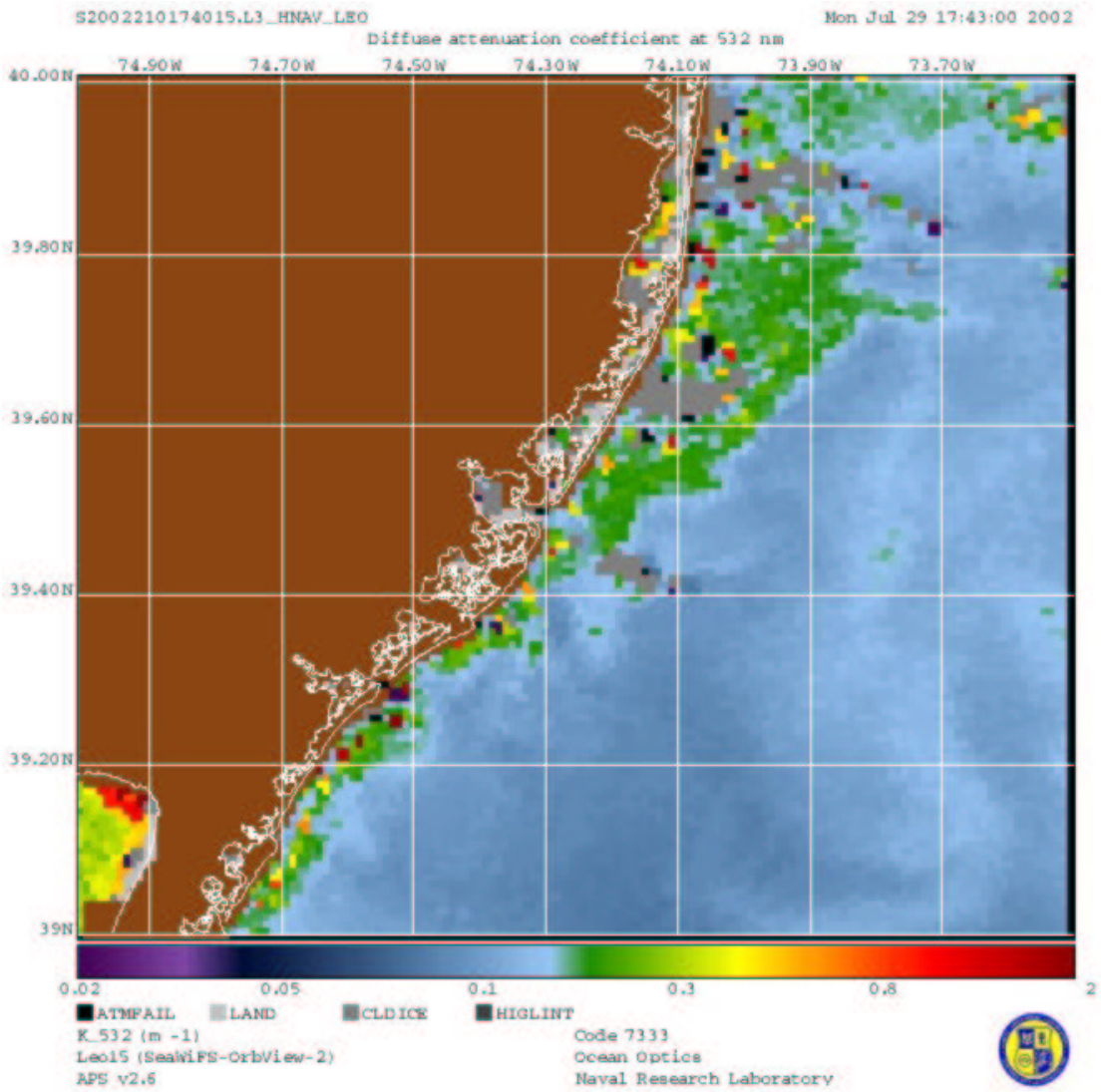
This KernelBlitz image map uses the Mercator projection. The longitude of central meridian is set to 118030000 ° W. The latitude of true scale is 32045000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The KernelBlitz image map is 500 pixels wide and 535 pixels high. The point 121 ° W and 35 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (500,1) | 455094 meters | 912 meters |
| (1,267) | (500,267) | 467115 meters | 936 meters |
| (1,535) | (500,535) | 478802 meters | 960 meters |
| Vertical Lines | | | |
| (1,1) | (1,535) | 502280 meters | 941 meters |
| (250,1) | (250,535) | 502280 meters | 941 meters |
| (500,1) | (500,535) | 502280 meters | 941 meters |

### 1.22. Leo15




This image map covers Leo15

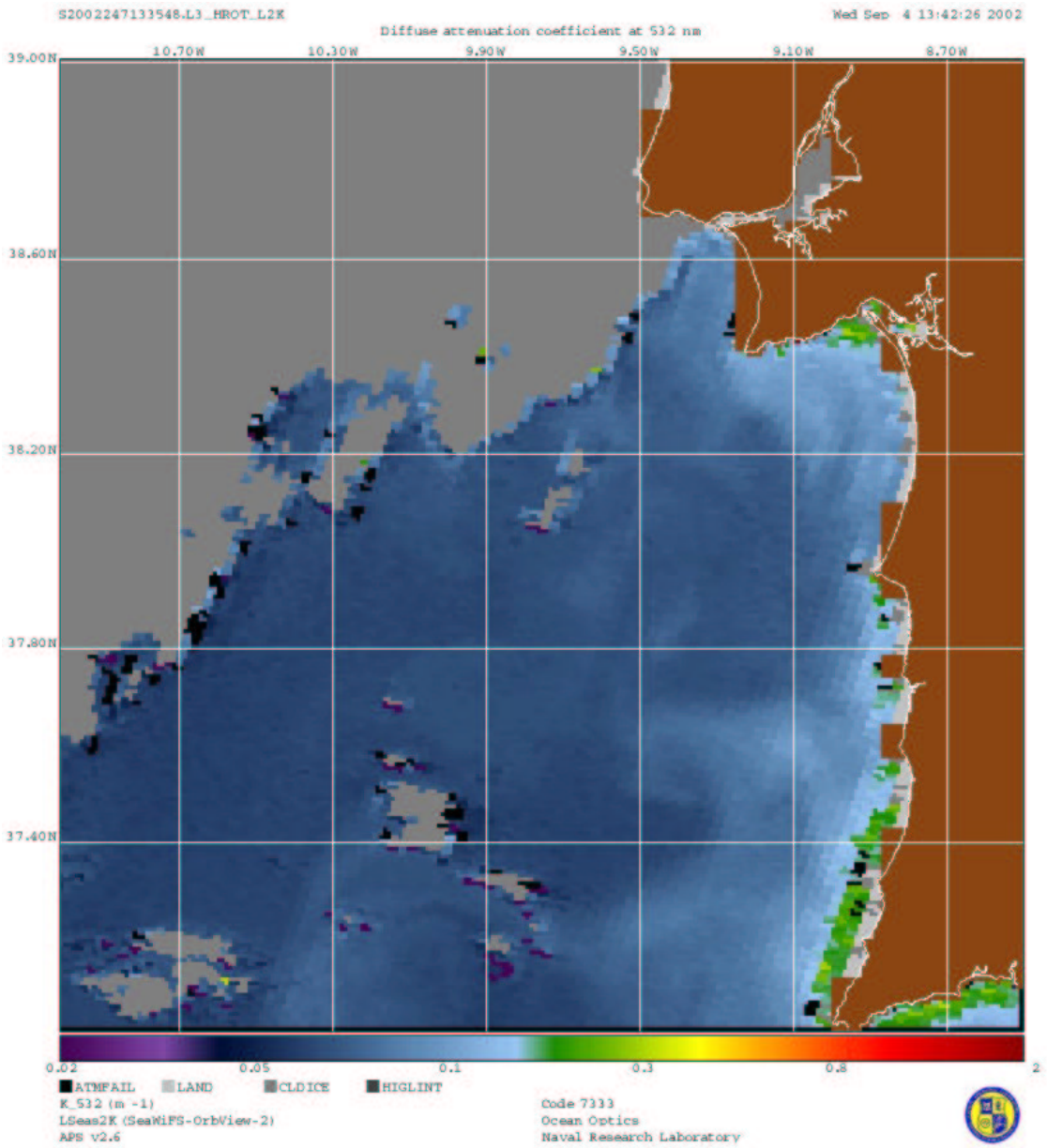
This Leo15 image map uses the Mercator projection. The longitude of central meridian is set to 74015000 ° W. The latitude of true scale is 39030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Leo15 image map is 150 pixels wide and 130 pixels high. The point 75 ° W and 40 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (150,1) | 127689 meters | 857 meters |
| (1,65) | (150,65) | 128614 meters | 863 meters |
| (1,130) | (150,130) | 129550 meters | 869 meters |
| Vertical Lines | | | |
| (1,1) | (1,130) | 111804 meters | 867 meters |
| (75,1) | (75,130) | 111804 meters | 867 meters |
| (150,1) | (150,130) | 111804 meters | 867 meters |

### 1.23. LSeas2K




This image map covers LSeas2K

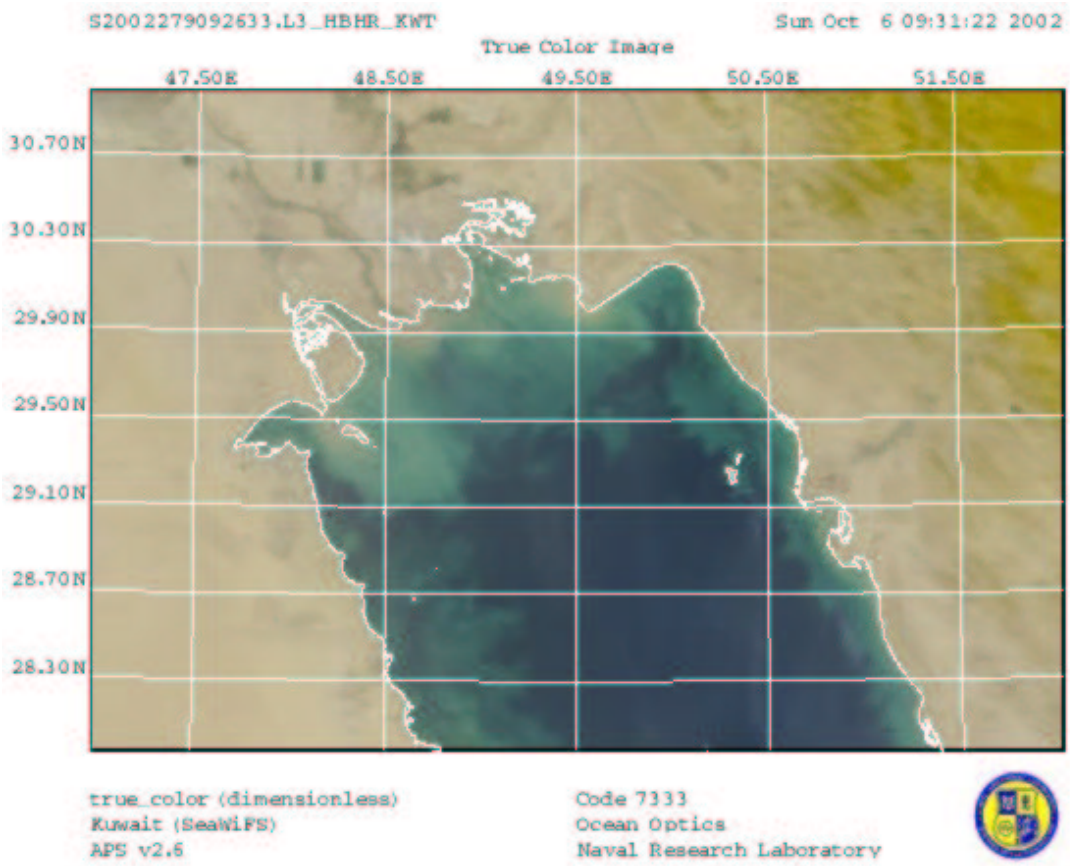
This LSeas2K image map uses the Mercator projection. The longitude of central meridian is set to 9045000 ° W. The latitude of true scale is 38000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The LSeas2K image map is 251 pixels wide and 253 pixels high. The point 11 ° W and 39 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (251,1) | 215894 meters | 864 meters |
| (1,126) | (251,126) | 218860 meters | 875 meters |
| (1,253) | (251,253) | 221847 meters | 887 meters |
| Vertical Lines | | | |
| (1,1) | (1,253) | 221560 meters | 879 meters |
| (125,1) | (125,253) | 221560 meters | 879 meters |
| (251,1) | (251,253) | 221560 meters | 879 meters |

### 1.24. Kuwait




This image map covers Kuwait

This Kuwait image map uses the Alber Equal Area projection. The standard parallel are at 31 ° N and 28 ° N. The longitude of central meridian is 49.50 ° E and the latitude of projection origin is 29.50 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 49030000 ° E. The latitude of true scale is 29030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Kuwait image map is 496 pixels wide and 336 pixels high. The point 49.50 ° E and 29.50 ° N is tied to the center (248,168) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (496,1) | 492311 meters | 995 meters |
| (1,168) | (496,168) | 492515 meters | 995 meters |
| (1,336) | (496,336) | 492379 meters | 995 meters |
| Vertical Lines | | | |
| (1,1) | (1,336) | 334830 meters | 999 meters |
| (248,1) | (248,336) | 334829 meters | 999 meters |
| (496,1) | (496,336) | 334830 meters | 999 meters |

### 1.25. Kuwait4

This image map covers Kuwait (at 250 m resolution)

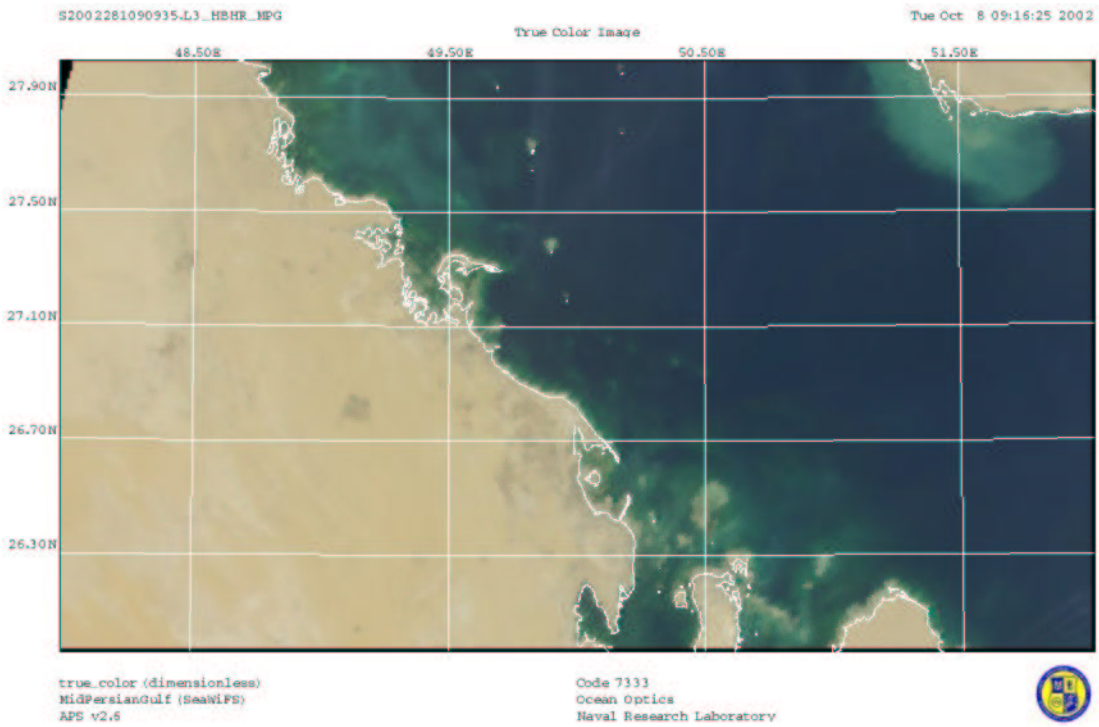
This Kuwait image map uses the Alber Equal Area projection. The standard parallel are at 31 ° N and 28 ° N. The longitude of central meridian is 49.50 ° E and the latitude of projection origin is 29.50 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 49030000 ° E. The latitude of true scale is 29030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Kuwait4 image map is 1984 pixels wide and 1344 pixels high. The point 49.50 ° E and 29.50 ° N is tied to the center (992,672) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1984,1) | 493055 meters | 249 meters |
| (1,672) | (1984,672) | 493261 meters | 249 meters |
| (1,1344) | (1984,1344) | 493125 meters | 249 meters |
| Vertical Lines | | | |
| (1,1) | (1,1344) | 335579 meters | 250 meters |
| (992,1) | (992,1344) | 335579 meters | 250 meters |
| (1984,1) | (1984,1344) | 335579 meters | 250 meters |

### 1.26. MidPersianGulf




This image map covers MidPersianGulf

This MidPersianGulf image map uses the Alber Equal Area projection. The standard parallel are at 28 ° N and 26 ° N. The longitude of central meridian is 50 ° E and the latitude of projection origin is 27 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 50000000 ° E. The latitude of true scale is 27000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The MidPersianGulf image map is 404 pixels wide and 230 pixels high. The point 50 ° E and 27 ° N is tied to the center (202,115) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (404,1) | 399402 meters | 991 meters |
| (1,115) | (404,115) | 399484 meters | 991 meters |
| (1,230) | (404,230) | 399438 meters | 991 meters |
| Vertical Lines | | | |
| (1,1) | (1,230) | 228160 meters | 996 meters |
| (202,1) | (202,230) | 228159 meters | 996 meters |
| (404,1) | (404,230) | 228160 meters | 996 meters |

### 1.27. MidPersianGulf4

This image map covers MidPersianGulf at 250 meter resolution

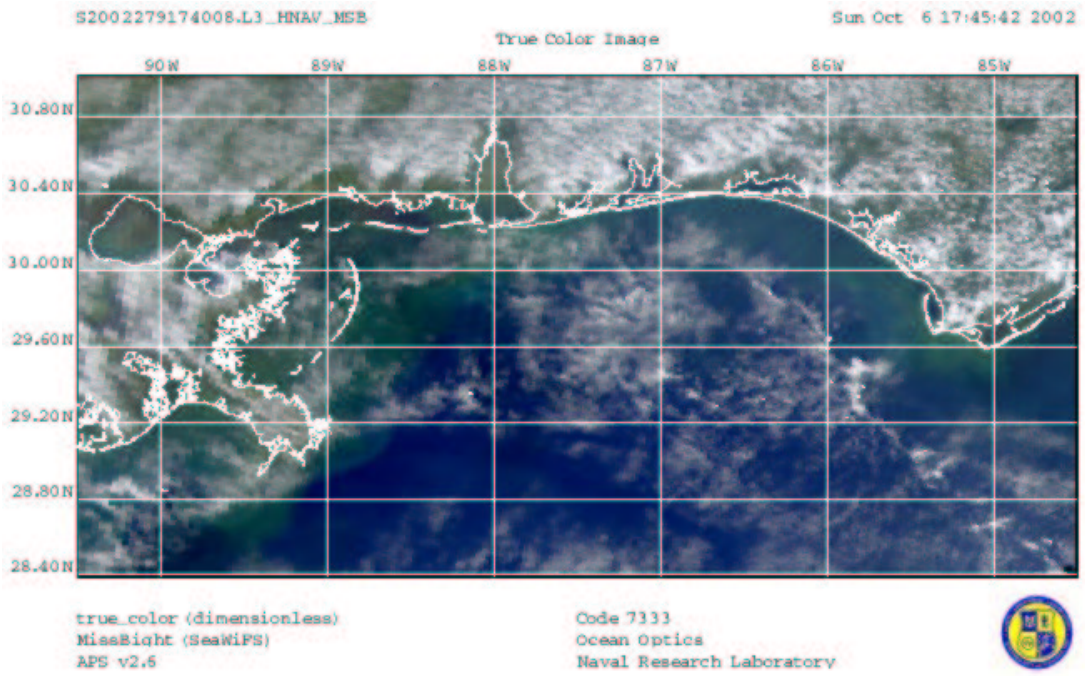
This MidPersianGulf4 image map uses the Alber Equal Area projection. The standard parallel are at 28 ° N and 26 ° N. The longitude of central meridian is 50 ° E and the latitude of projection origin is 27 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 50000000 ° E. The latitude of true scale is 27000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The MidPersianGulf4 image map is 1616 pixels wide and 920 pixels high. The point 50 ° E and 27 ° N is tied to the center (808,460) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1616,1) | 403714 meters | 250 meters |
| (1,460) | (1616,460) | 403800 meters | 250 meters |
| (1,920) | (1616,920) | 403753 meters | 250 meters |
| Vertical Lines | | | |
| (1,1) | (1,920) | 230950 meters | 251 meters |
| (808,1) | (808,920) | 230950 meters | 251 meters |
| (1616,1) | (1616,920) | 230950 meters | 251 meters |

### 1.28. MissBight




This image map covers MissBight

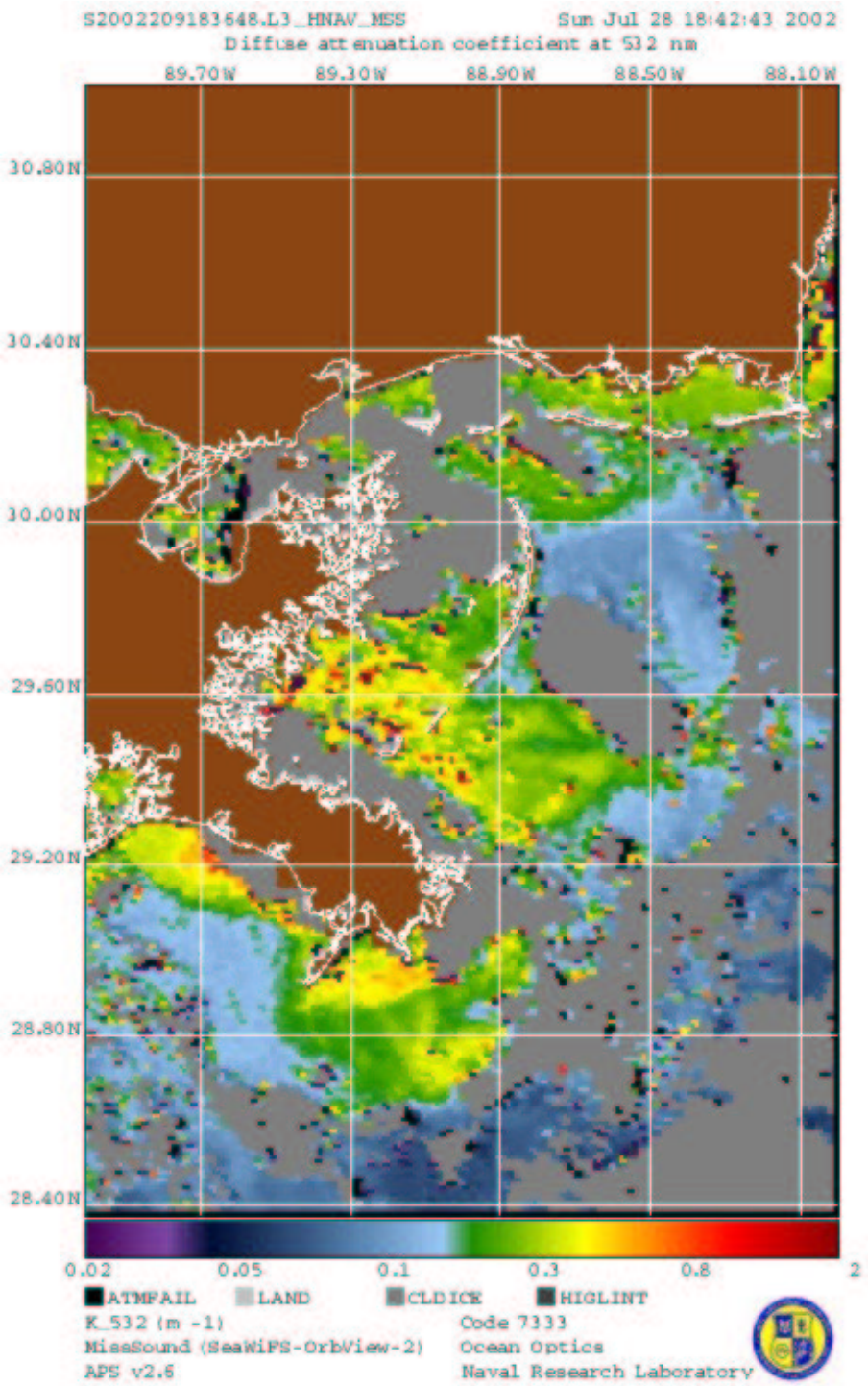
This MissBight image map uses the Mercator projection. The longitude of central meridian is set to 87030000 ° W. The latitude of true scale is 29030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The MissBight image map is 600 pixels wide and 300 pixels high. The point 90.50 ° W and 31 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (600,1) | 571448 meters | 954 meters |
| (1,150) | (600,150) | 579063 meters | 967 meters |
| (1,300) | (600,300) | 586526 meters | 979 meters |
| Vertical Lines | | | |
| (1,1) | (1,300) | 290546 meters | 972 meters |
| (300,1) | (300,300) | 290546 meters | 972 meters |
| (600,1) | (600,300) | 290546 meters | 972 meters |

### 1.29. MissSound




This image map covers MissSound

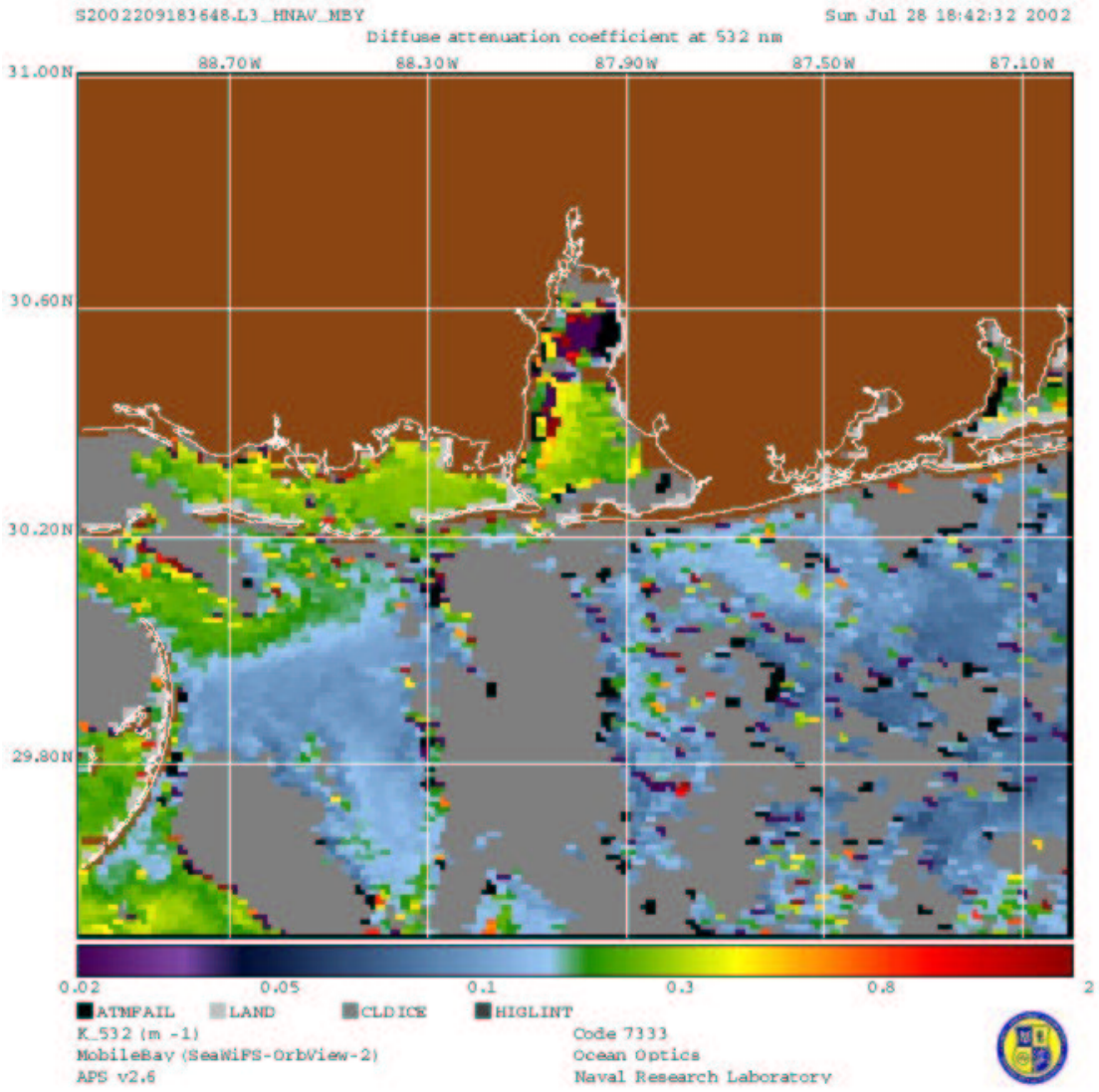
This MissSound image map uses the Mercator projection. The longitude of central meridian is set to 89000000 ° W. The latitude of true scale is 29030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The MissSound image map is 200 pixels wide and 300 pixels high. The point 90 ° W and 31 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (200,1) | 190503 meters | 957 meters |
| (1,150) | (200,150) | 193049 meters | 970 meters |
| (1,300) | (200,300) | 195543 meters | 983 meters |
| Vertical Lines | | | |
| (1,1) | (1,300) | 291532 meters | 975 meters |
| (100,1) | (100,300) | 291532 meters | 975 meters |
| (200,1) | (200,300) | 291532 meters | 975 meters |

### 1.30. MobileBay




This image map covers MobileBay

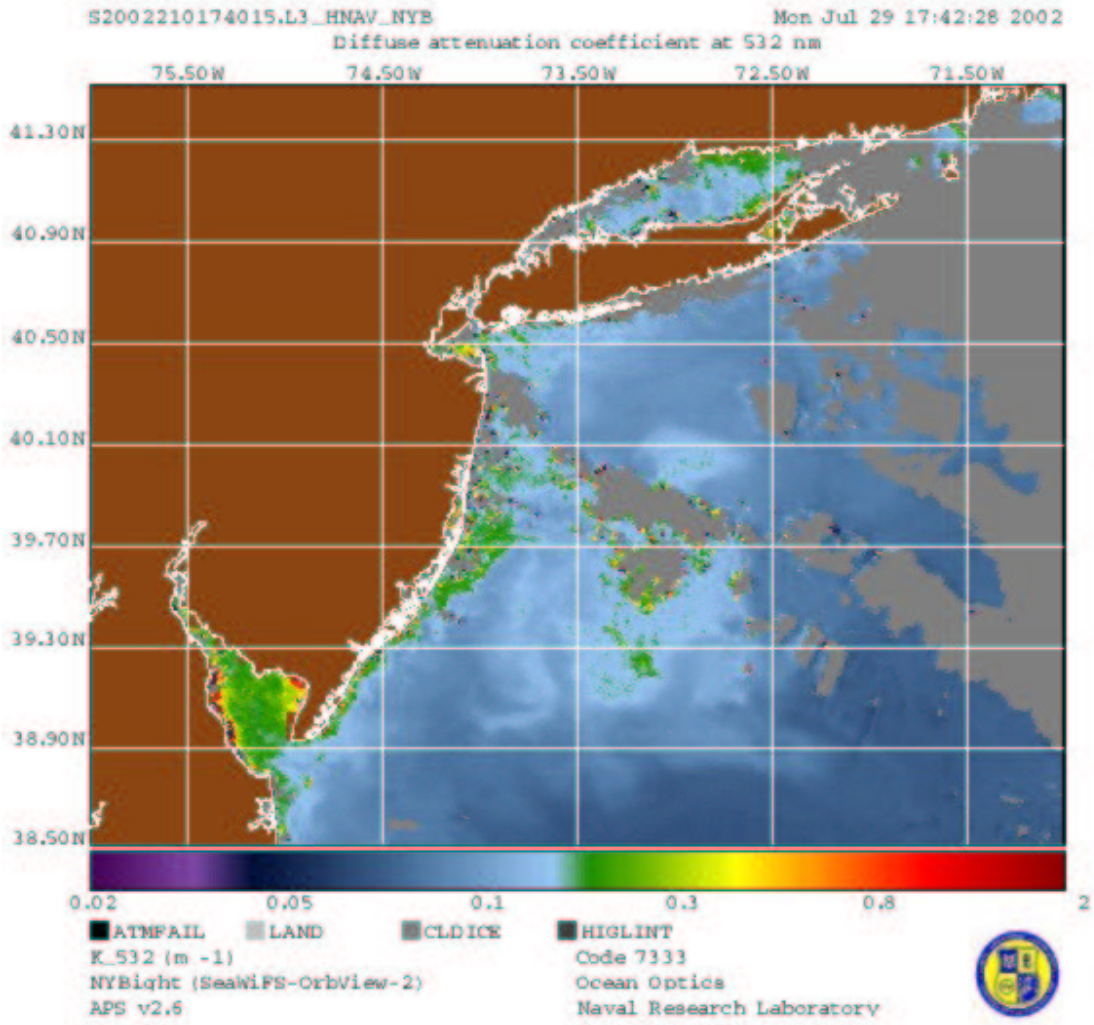
This MobileBay image map uses the Mercator projection. The longitude of central meridian is set to 88000000 ° W. The latitude of true scale is 30015000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The MobileBay image map is 200 pixels wide and 174 pixels high. The point 89 ° W and 31 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (200,1) | 190503 meters | 957 meters |
| (1,87) | (200,87) | 191980 meters | 965 meters |
| (1,174) | (200,174) | 193453 meters | 972 meters |
| Vertical Lines | | | |
| (1,1) | (1,174) | 167743 meters | 970 meters |
| (100,1) | (100,174) | 167743 meters | 970 meters |
| (200,1) | (200,174) | 167743 meters | 970 meters |

### 1.31. NYBight




This image map covers NYBight

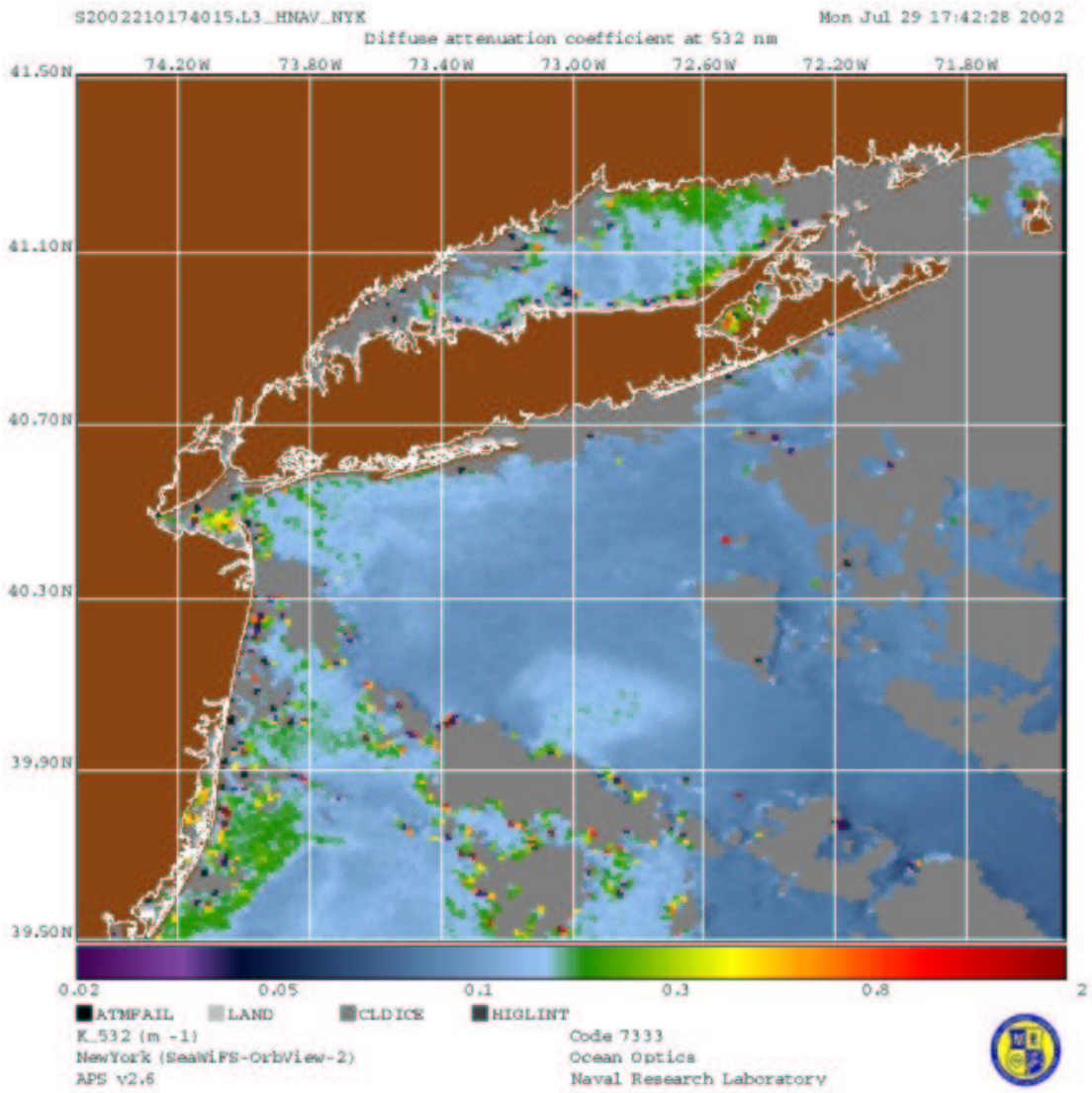
This NYBight image map uses the Mercator projection. The longitude of central meridian is set to 73030000 ° W. The latitude of true scale is 40000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The NYBight image map is 500 pixels wide and 390 pixels high. The point 76 ° W and 41.50 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (500,1) | 416081 meters | 834 meters |
| (1,195) | (500,195) | 425441 meters | 853 meters |
| (1,390) | (500,390) | 434764 meters | 871 meters |
| Vertical Lines | | | |
| (1,1) | (1,390) | 333019 meters | 856 meters |
| (250,1) | (250,390) | 333019 meters | 856 meters |
| (500,1) | (500,390) | 333019 meters | 856 meters |

### 1.32. NewYork




This image map covers NewYork

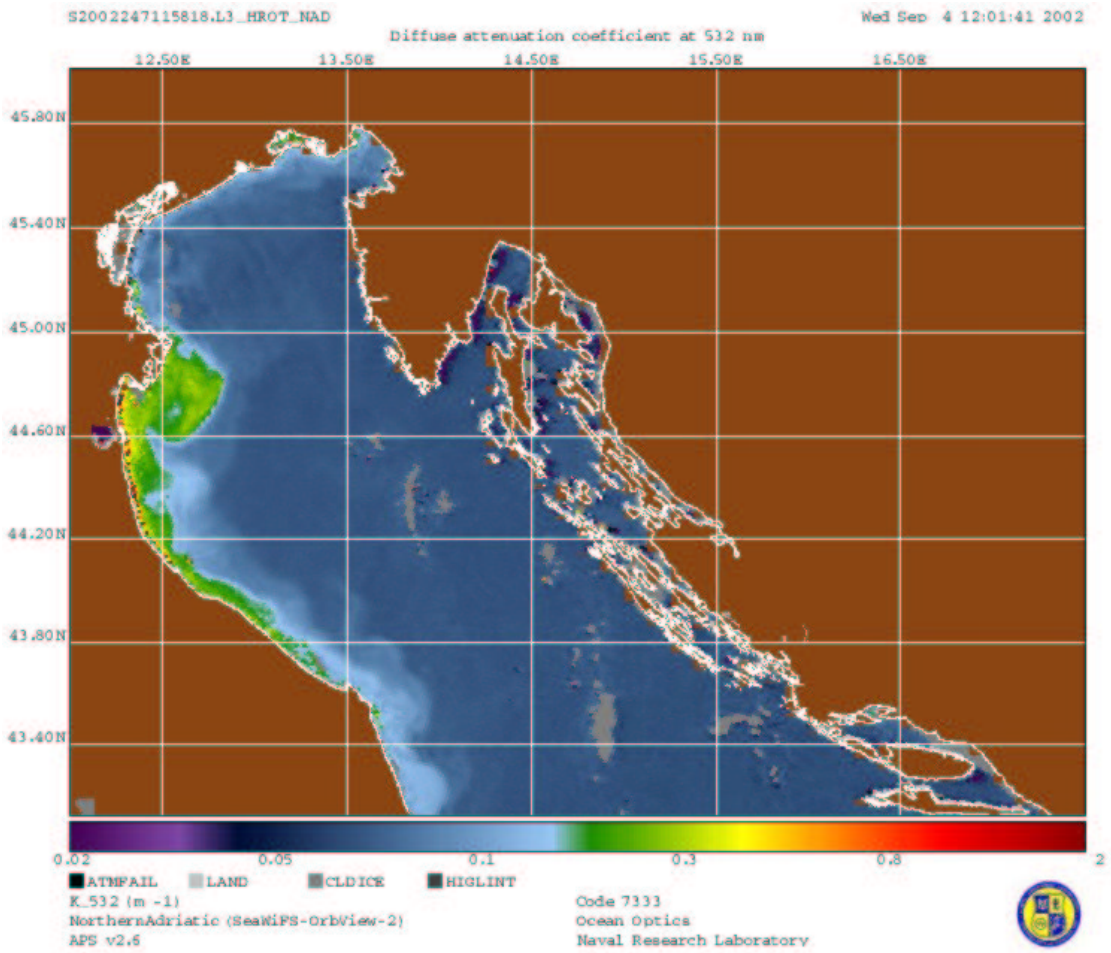
This NewYork image map uses the Mercator projection. The longitude of central meridian is set to 73000000 ° W. The latitude of true scale is 40030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The NewYork image map is 300 pixels wide and 263 pixels high. The point 74.50 ° W and 41.50 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (300,1) | 249671 meters | 835 meters |
| (1,131) | (300,131) | 253443 meters | 848 meters |
| (1,263) | (300,263) | 257253 meters | 860 meters |
| Vertical Lines | | | |
| (1,1) | (1,263) | 222979 meters | 851 meters |
| (150,1) | (150,263) | 222979 meters | 851 meters |
| (300,1) | (300,263) | 222979 meters | 851 meters |

### 1.33. NorthernAdriatic




This image map covers NorthernAdriatic

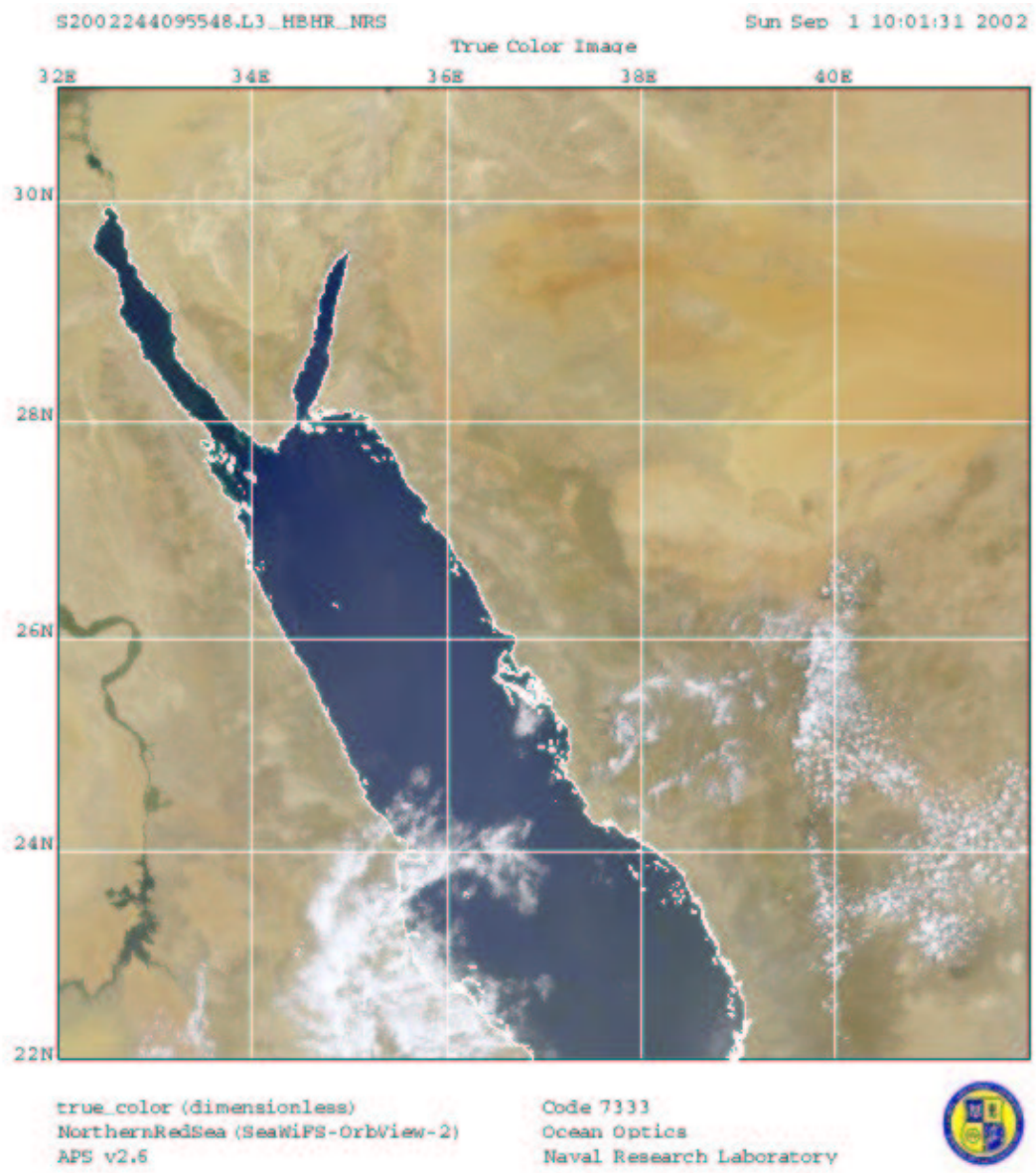
This NorthernAdriatic image map uses the Mercator projection. The longitude of central meridian is set to 14045000 ° E. The latitude of true scale is 44030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The NorthernAdriatic image map is 680 pixels wide and 500 pixels high. The point 12 ° E and 46 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (680,1) | 424483 meters | 625 meters |
| (1,250) | (680,250) | 435276 meters | 641 meters |
| (1,500) | (680,500) | 446107 meters | 657 meters |
| Vertical Lines | | | |
| (1,1) | (1,500) | 321057 meters | 643 meters |
| (340,1) | (340,500) | 321057 meters | 643 meters |
| (680,1) | (680,500) | 321057 meters | 643 meters |

### 1.34. NorthernRedSea




This image map covers NorthernRedSea

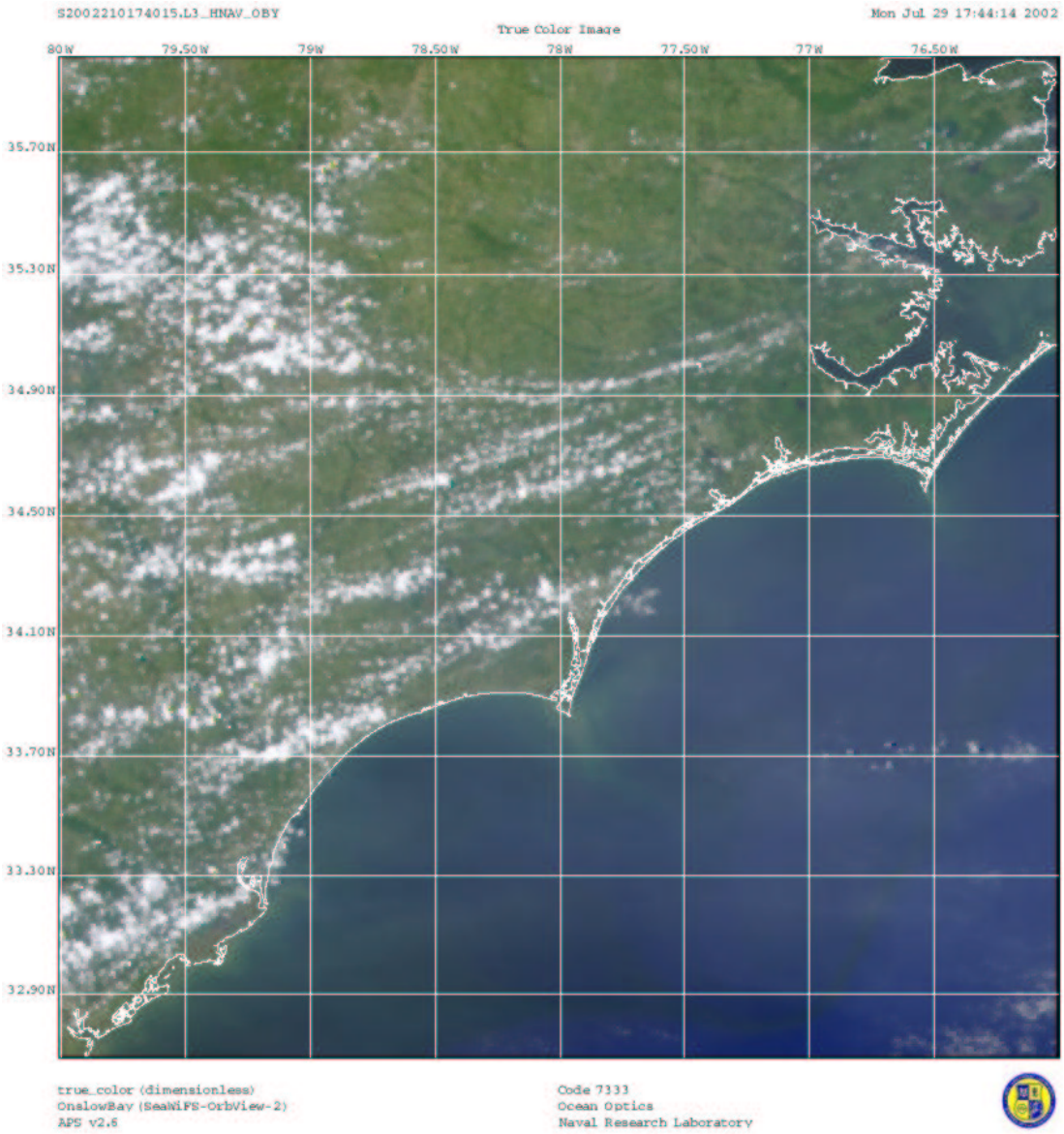
This NorthernRedSea image map uses the Mercator projection. The longitude of central meridian is set to 37000000 ° E. The latitude of true scale is 26000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The NorthernRedSea image map is 1024 pixels wide and 1024 pixels high. The point 32 ° E and 31 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1024,1) | 952207 meters | 931 meters |
| (1,512) | (1024,512) | 993360 meters | 971 meters |
| (1,1024) | (1024,1024) | 1030027 meters | 1007 meters |
| Vertical Lines | | | |
| (1,1) | (1,1024) | 998241 meters | 976 meters |
| (512,1) | (512,1024) | 998241 meters | 976 meters |
| (1024,1) | (1024,1024) | 998241 meters | 976 meters |

### 1.35. OnslowBay




This image map covers OnslowBay

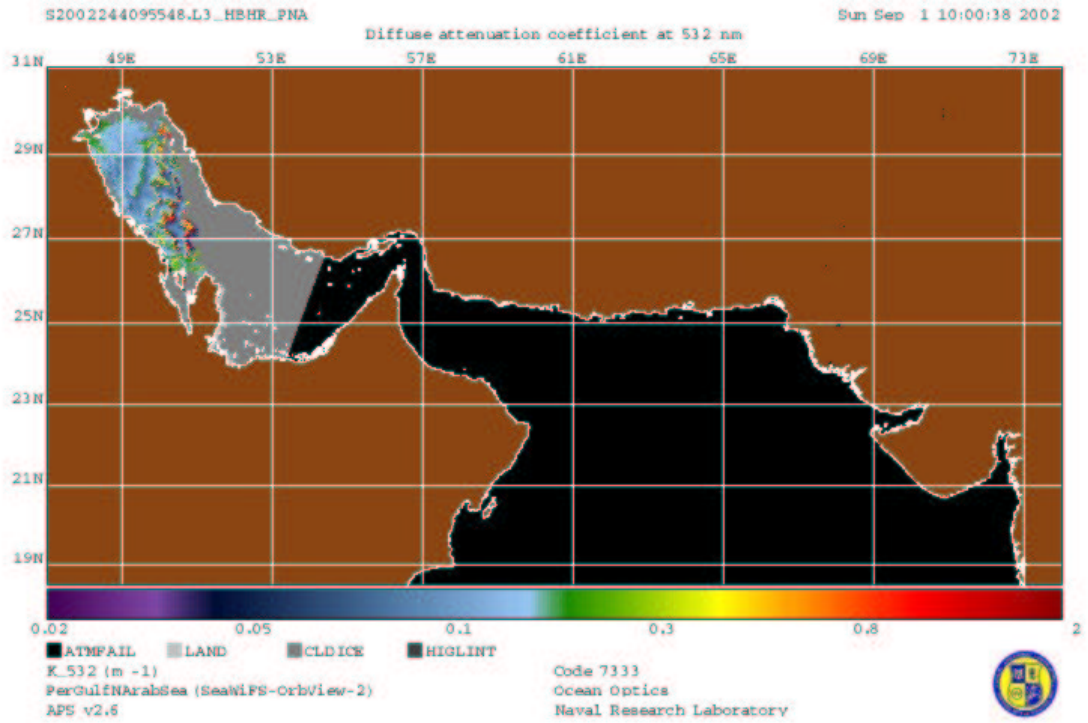
This OnslowBay image map uses the Mercator projection. The longitude of central meridian is set to 78000000 ° W. The latitude of true scale is 34000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The OnslowBay image map is 400 pixels wide and 400 pixels high. The point 80 ° W and 36 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (400,1) | 359583 meters | 901 meters |
| (1,200) | (400,200) | 366905 meters | 920 meters |
| (1,400) | (400,400) | 374101 meters | 938 meters |
| Vertical Lines | | | |
| (1,1) | (1,400) | 368606 meters | 924 meters |
| (200,1) | (200,400) | 368606 meters | 924 meters |
| (400,1) | (400,400) | 368606 meters | 924 meters |

### 1.36. PerGulfNArabSea




This image map covers PerGulfNArabSea

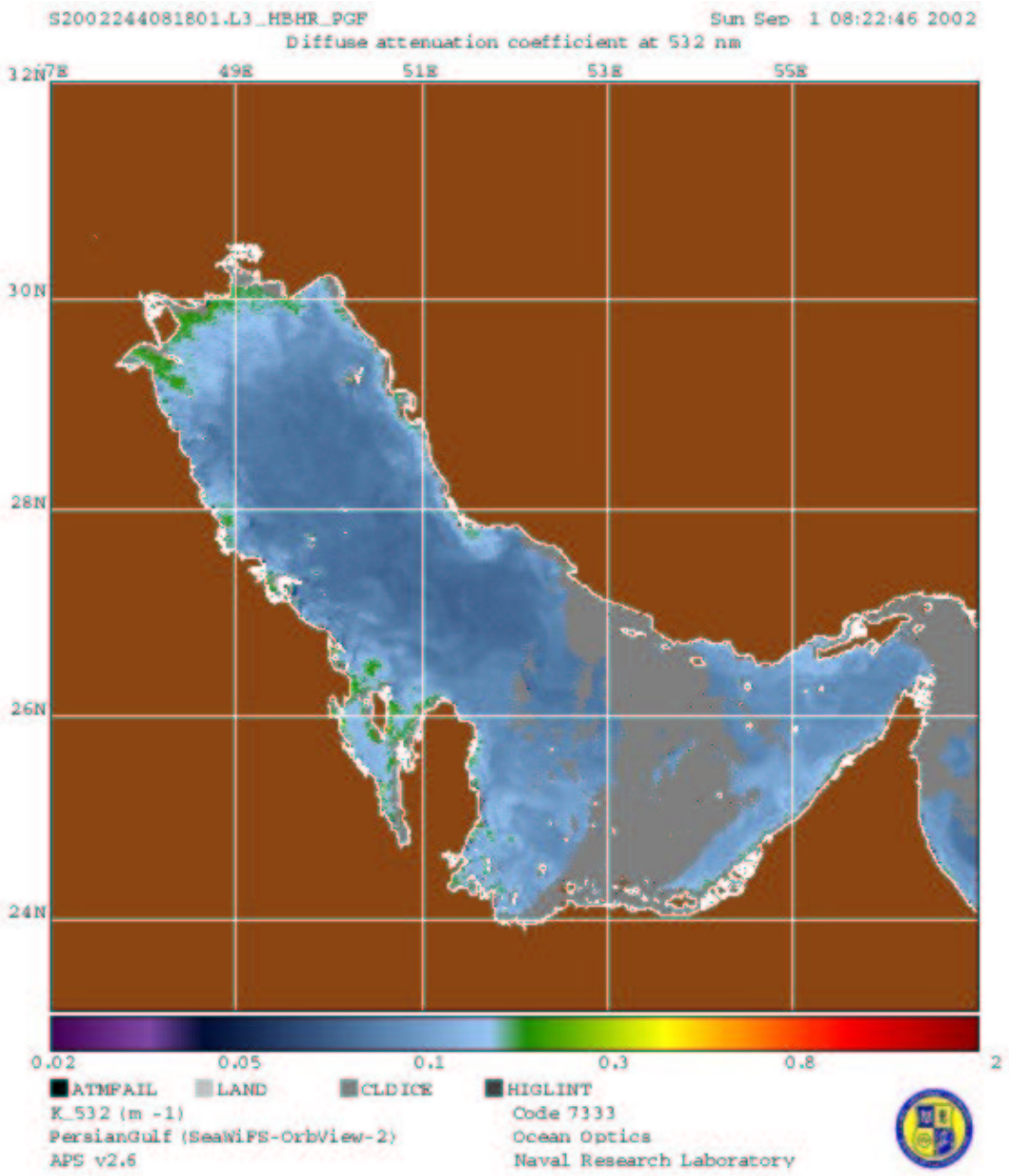
This PerGulfNArabSea image map uses the Mercator projection. The longitude of central meridian is set to 60030000 ° E. The latitude of true scale is 24045000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The PerGulfNArabSea image map is 2700 pixels wide and 1376 pixels high. The point 47 ° E and 31 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (2700,1) | 2565414 meters | 951 meters |
| (1,688) | (2700,688) | 2716891 meters | 1007 meters |
| (1,1376) | (2700,1376) | 2843069 meters | 1053 meters |
| Vertical Lines | | | |
| (1,1) | (1,1376) | 1391988 meters | 1012 meters |
| (1350,1) | (1350,1376) | 1391988 meters | 1012 meters |
| (2700,1) | (2700,1376) | 1391988 meters | 1012 meters |

### 1.37. PersianGulf




This image map covers PersianGulf

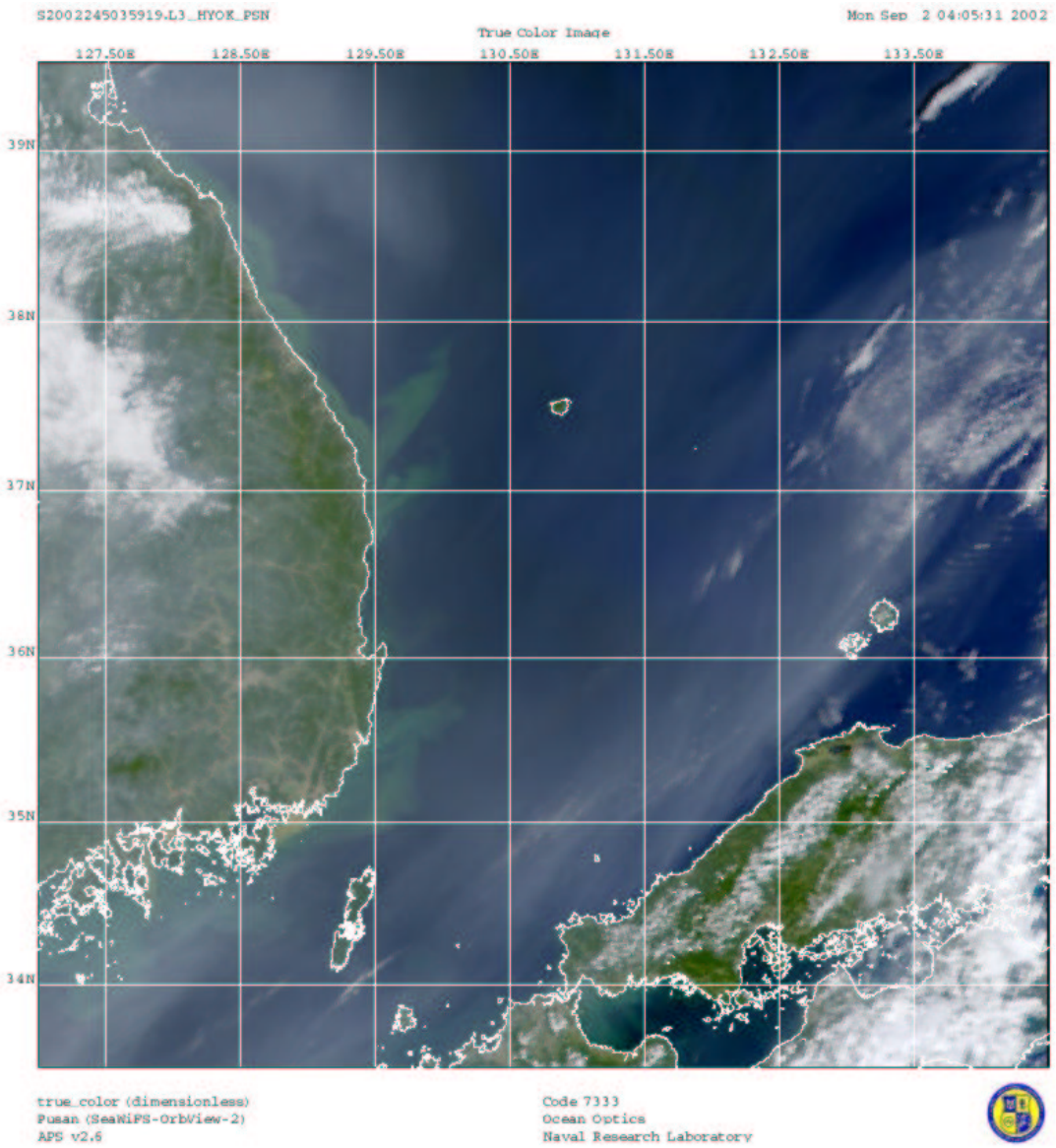
This PersianGulf image map uses the Mercator projection. The longitude of central meridian is set to 52000000 ° E. The latitude of true scale is 27000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The PersianGulf image map is 1024 pixels wide and 1024 pixels high. The point 47 ° E and 32 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1024,1) | 942058 meters | 921 meters |
| (1,512) | (1024,512) | 984110 meters | 962 meters |
| (1,1024) | (1024,1024) | 1021945 meters | 999 meters |
| Vertical Lines | | | |
| (1,1) | (1,1024) | 988906 meters | 967 meters |
| (512,1) | (512,1024) | 988906 meters | 967 meters |
| (1024,1) | (1024,1024) | 988906 meters | 967 meters |

### 1.38. Pusan




This image map covers Pusan

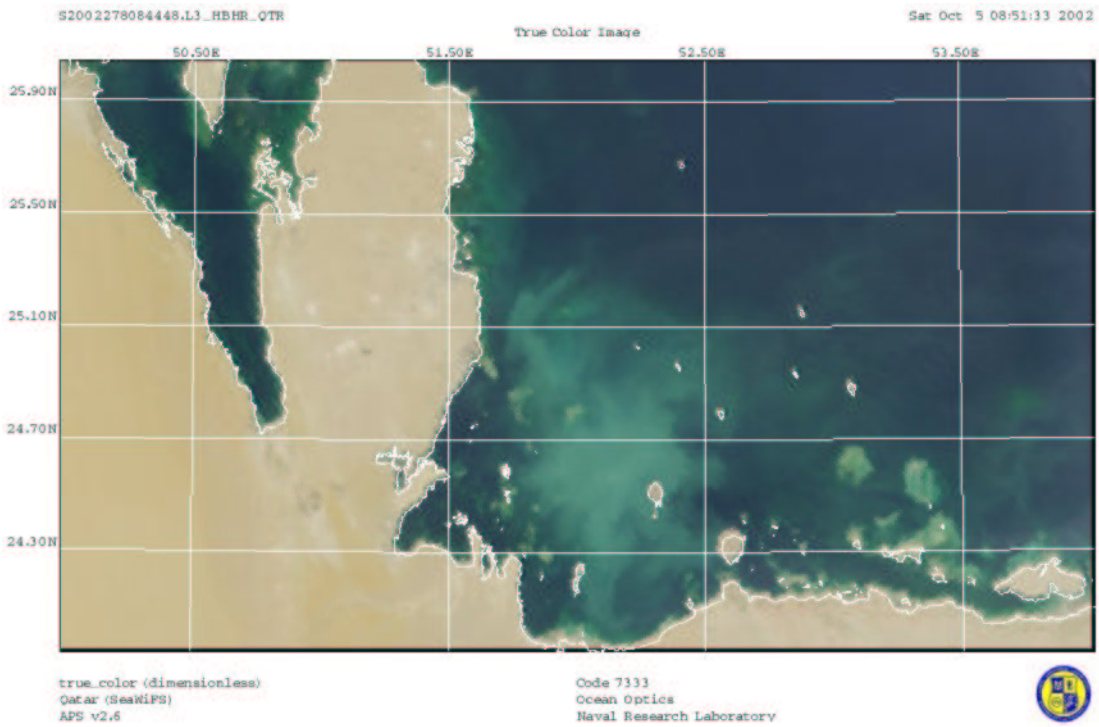
This Pusan image map uses the Mercator projection. The longitude of central meridian is set to 130045000 ° E. The latitude of true scale is 36030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Pusan image map is 750 pixels wide and 746 pixels high. The point 127 ° E and 39.50 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (750,1) | 642916 meters | 858 meters |
| (1,373) | (750,373) | 669326 meters | 894 meters |
| (1,746) | (750,746) | 694983 meters | 928 meters |
| Vertical Lines | | | |
| (1,1) | (1,746) | 668717 meters | 898 meters |
| (375,1) | (375,746) | 668717 meters | 898 meters |
| (750,1) | (750,746) | 668717 meters | 898 meters |

### 1.39. Qatar




This image map covers Qatar

This Qatar image map uses the Alber Equal Area projection. The standard parallel are at 26 ° N and 24 ° N. The longitude of central meridian is 52 ° E and the latitude of projection origin is 25 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 52000000 ° E. The latitude of true scale is 25000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Qatar image map is 404 pixels wide and 230 pixels high. The point 52 ° E and 25 ° N is tied to the center (202,115) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (404,1) | 405787 meters | 1007 meters |
| (1,115) | (404,115) | 405872 meters | 1007 meters |
| (1,230) | (404,230) | 405823 meters | 1007 meters |
| Vertical Lines | | | |
| (1,1) | (1,230) | 231851 meters | 1012 meters |
| (202,1) | (202,230) | 231851 meters | 1012 meters |
| (404,1) | (404,230) | 231851 meters | 1012 meters |

### 1.40. Qatar4

This image map covers Qatar

This Qatar4 image map uses the Alber Equal Area projection. The standard parallel are at 26 ° N and 24 ° N. The longitude of central meridian is 52 ° E and the latitude of projection origin is 25 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 52000000 ° E. The latitude of true scale is 25000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Qatar4 image map is 1616 pixels wide and 920 pixels high. The point 52 ° E and 25 ° N is tied to the center (808,460) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1616,1) | 403252 meters | 250 meters |
| (1,460) | (1616,460) | 403336 meters | 250 meters |
| (1,920) | (1616,920) | 403288 meters | 250 meters |
| Vertical Lines | | | |
| (1,1) | (1,920) | 230727 meters | 251 meters |
| (808,1) | (808,920) | 230727 meters | 251 meters |
| (1616,1) | (1616,920) | 230727 meters | 251 meters |

### 1.41. RotaSite

This image map covers RotaSite

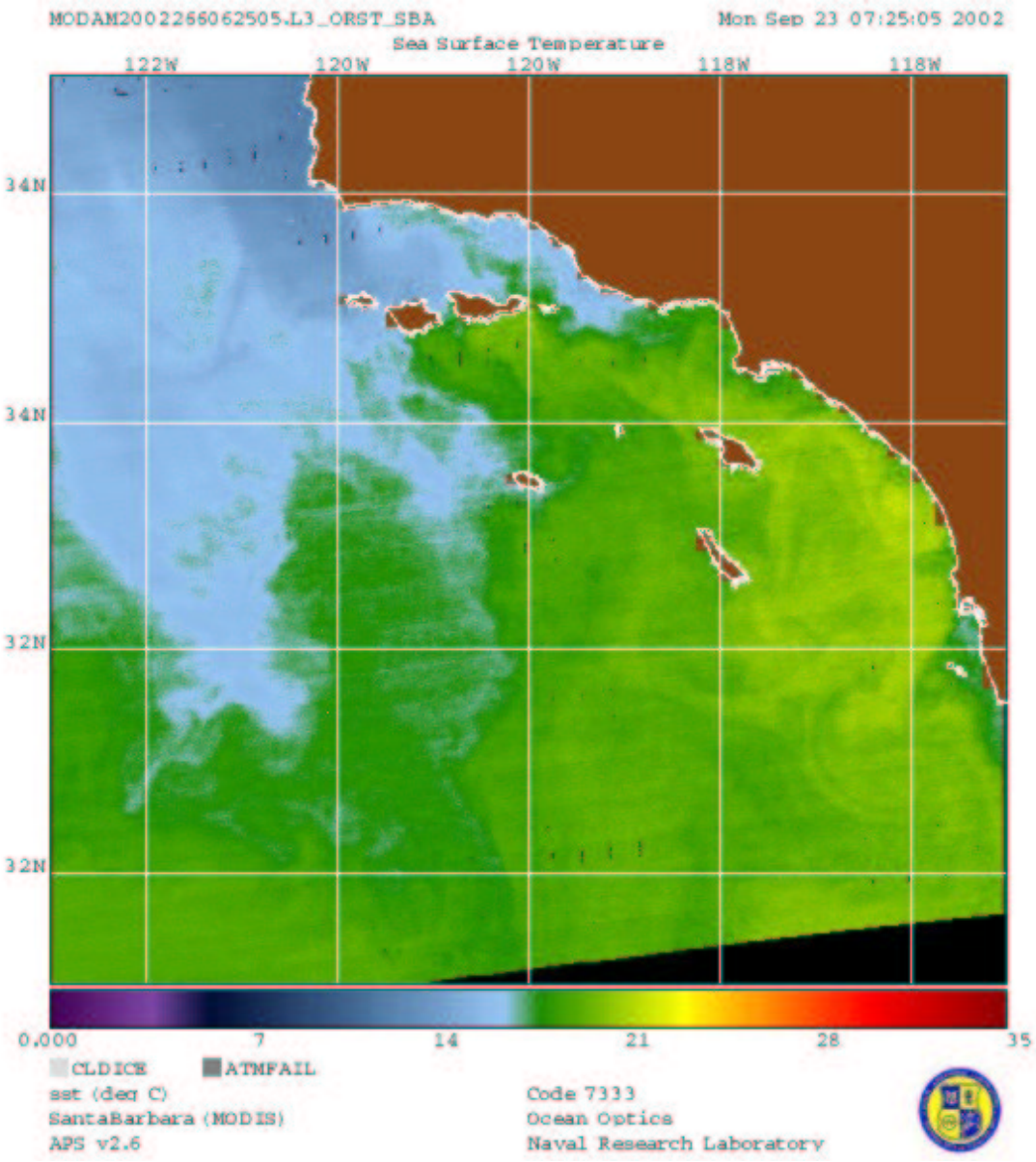
This RotaSite image map uses the Stereographic projection.

The RotaSite image map is 4096 pixels wide and 4096 pixels high. The point 6.21 ° W and 36.38 ° N is tied to the center (2048,2048) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (4096,1) | 4346814 meters | 1061 meters |
| (1,2048) | (4096,2048) | 4485928 meters | 1095 meters |
| (1,4096) | (4096,4096) | 4346682 meters | 1061 meters |
| Vertical Lines | | | |
| (1,1) | (1,4096) | 4346814 meters | 1061 meters |
| (2048,1) | (2048,4096) | 4485928 meters | 1095 meters |
| (4096,1) | (4096,4096) | 4346682 meters | 1061 meters |

### 1.42. SantaBarbara




This image map covers SantaBarbara

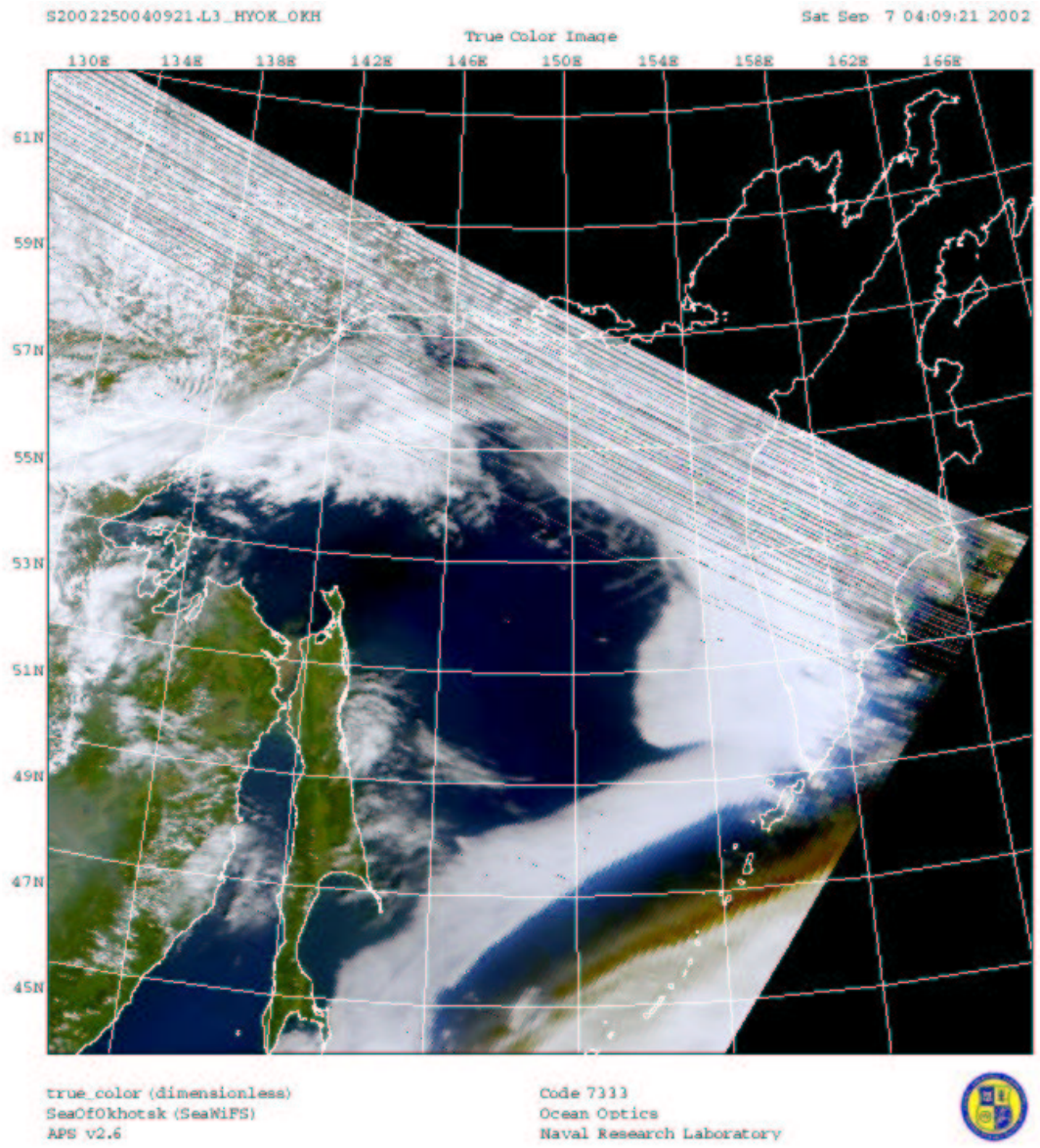
This SantaBarbara image map uses the Mercator projection. The longitude of central meridian is set to 119030000 ° W. The latitude of true scale is 33000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The SantaBarbara image map is 500 pixels wide and 475 pixels high. The point 122 ° W and 35 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (500,1) | 455094 meters | 912 meters |
| (1,237) | (500,237) | 465779 meters | 933 meters |
| (1,475) | (500,475) | 476227 meters | 954 meters |
| Vertical Lines | | | |
| (1,1) | (1,475) | 444573 meters | 938 meters |
| (250,1) | (250,475) | 444573 meters | 938 meters |
| (500,1) | (500,475) | 444573 meters | 938 meters |

### 1.43. Sea of Okhotsk




This image map covers the Sea of Okhotsk

The Albers Equal Area projection is used with standard parallels at 45 ° N and 43 ° N. The latitude of origin is 43 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The Sea of Okhotsk image map is 1400x700 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (700,350). This gives the image an approximate resolution of 1,000 meters per pixel in the vertical direction and 1,000 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |
| Vertical Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |

### 1.44. SouthAus

This image map covers SouthAus

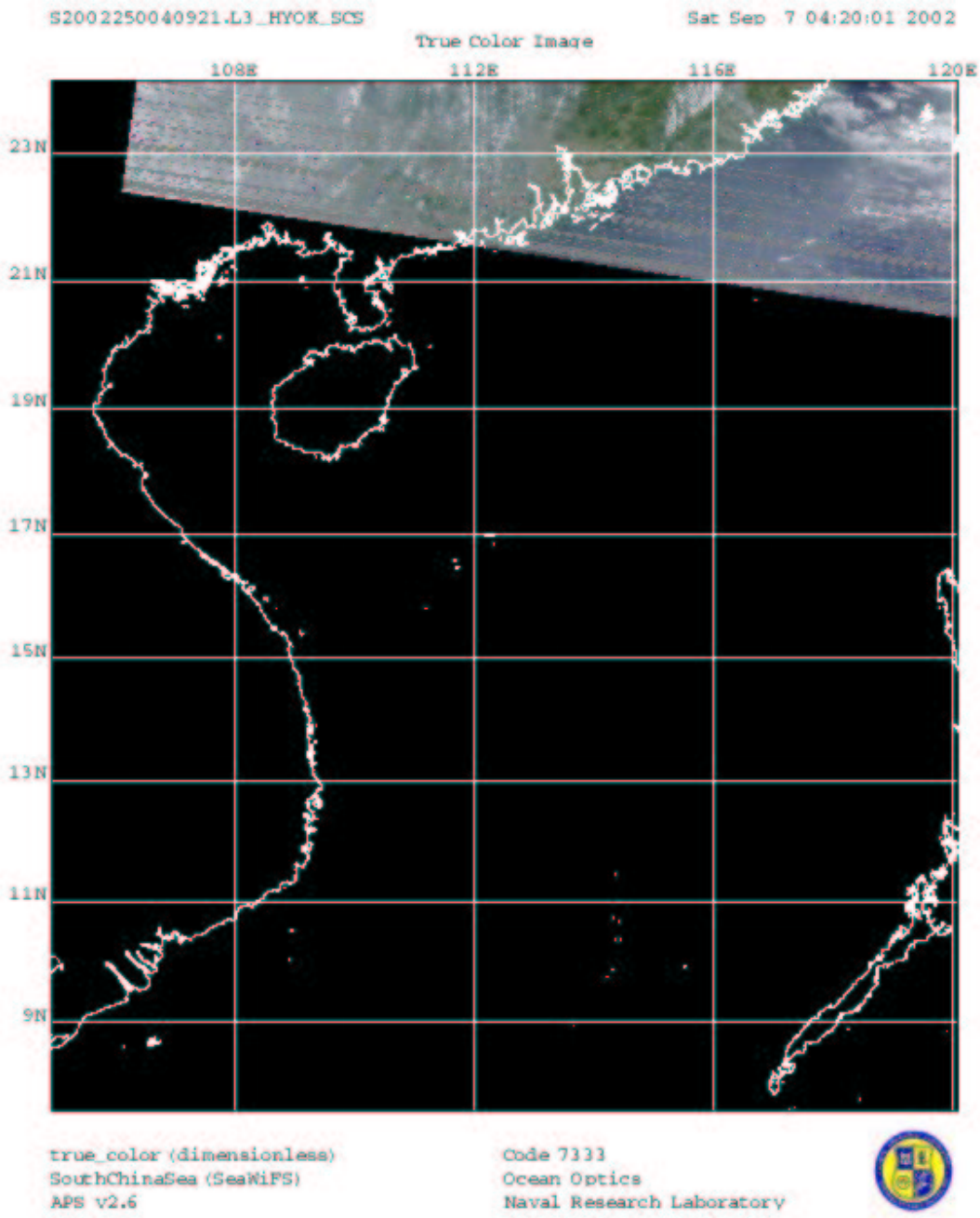
This SouthAus image map uses the Mercator projection. The longitude of central meridian is set to 130000000 ° E. The latitude of true scale is 40000000 ° S. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The SouthAus image map is 3000 pixels wide and 2000 pixels high. The point 115 ° E and 30 ° S is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (3000,1) | 2878705 meters | 960 meters |
| (1,1000) | (3000,1000) | 2604788 meters | 869 meters |
| (1,2000) | (3000,2000) | 2312876 meters | 771 meters |
| Vertical Lines | | | |
| (1,1) | (1,2000) | 1749138 meters | 875 meters |
| (1500,1) | (1500,2000) | 1749138 meters | 875 meters |
| (3000,1) | (3000,2000) | 1749138 meters | 875 meters |

### 1.45. South China Sea




This image map covers the South China Sea

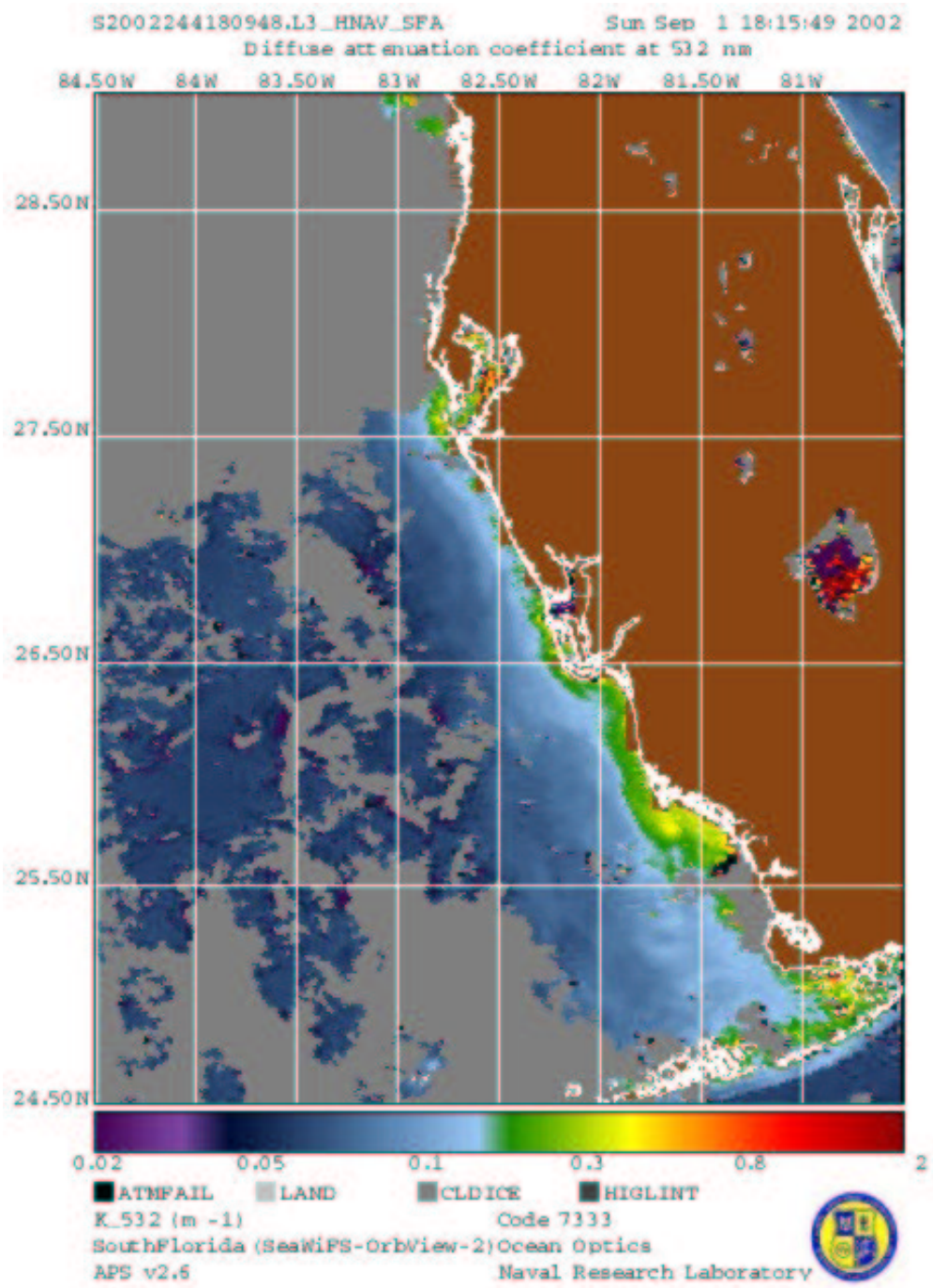
The Albers Equal Area projection is used with standard parallels at 45 ° N and 43 ° N. The latitude of origin is 43 ° N and the longitude of central meridian at set to 35 ° N. The WGS 84 datum was used.

The South China Sea image map is 1400x700 pixels. The point 35 ° E and 44 ° N is tie to the center of the image (700,350). This gives the image an approximate resolution of 1,000 meters per pixel in the vertical direction and 1,000 meters in the horizontal direction.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |
| Vertical Lines | | | |
| (1,1) | (1400,1) | 1434234 meters | |

### 1.46. SouthFlorida




This image map covers SouthFlorida

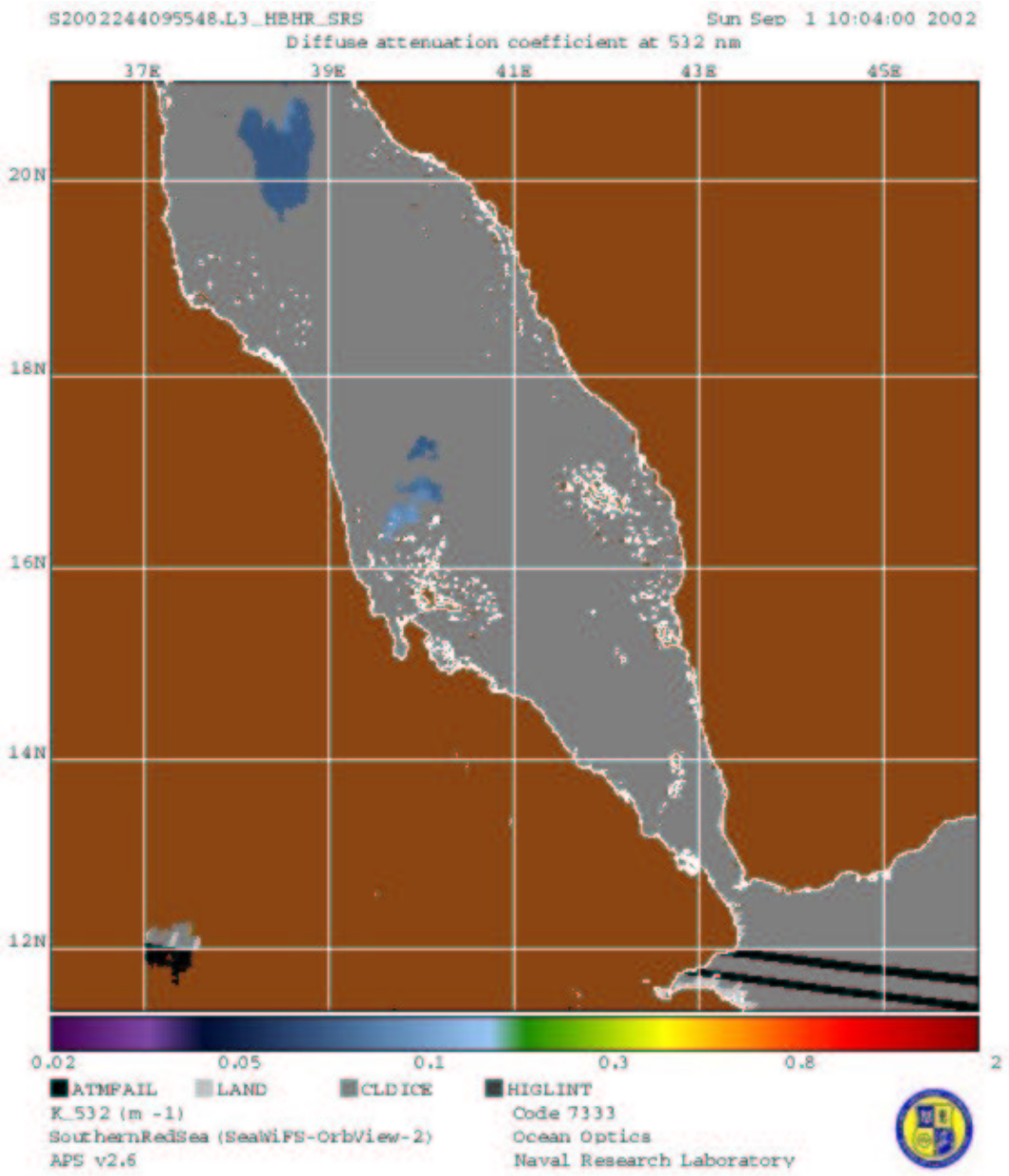
This SouthFlorida image map uses the Mercator projection. The longitude of central meridian is set to 82030000 ° W. The latitude of true scale is 26030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The SouthFlorida image map is 400 pixels wide and 500 pixels high. The point 84.50 ° W and 29 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (400,1) | 388750 meters | 974 meters |
| (1,250) | (400,250) | 396800 meters | 994 meters |
| (1,500) | (400,500) | 404429 meters | 1014 meters |
| Vertical Lines | | | |
| (1,1) | (1,500) | 498860 meters | 1000 meters |
| (200,1) | (200,500) | 498860 meters | 1000 meters |
| (400,1) | (400,500) | 498860 meters | 1000 meters |

### 1.47. SouthernRedSea




This image map covers SouthernRedSea

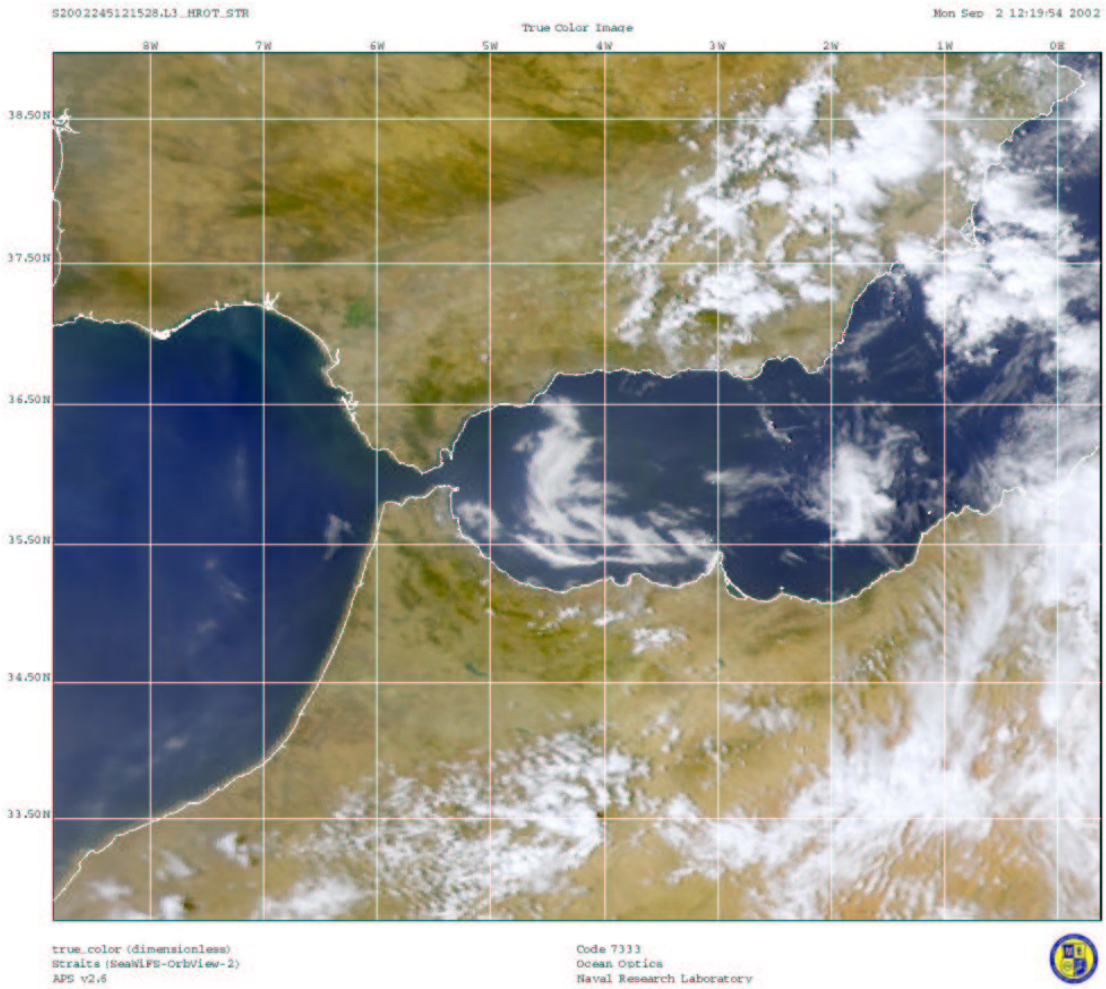
This SouthernRedSea image map uses the Mercator projection. The longitude of central meridian is set to 41000000 ° E. The latitude of true scale is 16000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The SouthernRedSea image map is 1024 pixels wide and 1024 pixels high. The point 36 ° E and 21 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1024,1) | 1037273 meters | 1014 meters |
| (1,512) | (1024,512) | 1066808 meters | 1043 meters |
| (1,1024) | (1024,1024) | 1089466 meters | 1065 meters |
| Vertical Lines | | | |
| (1,1) | (1,1024) | 1072397 meters | 1048 meters |
| (512,1) | (512,1024) | 1072397 meters | 1048 meters |
| (1024,1) | (1024,1024) | 1072397 meters | 1048 meters |

### 1.48. Straits




This image map covers Straits

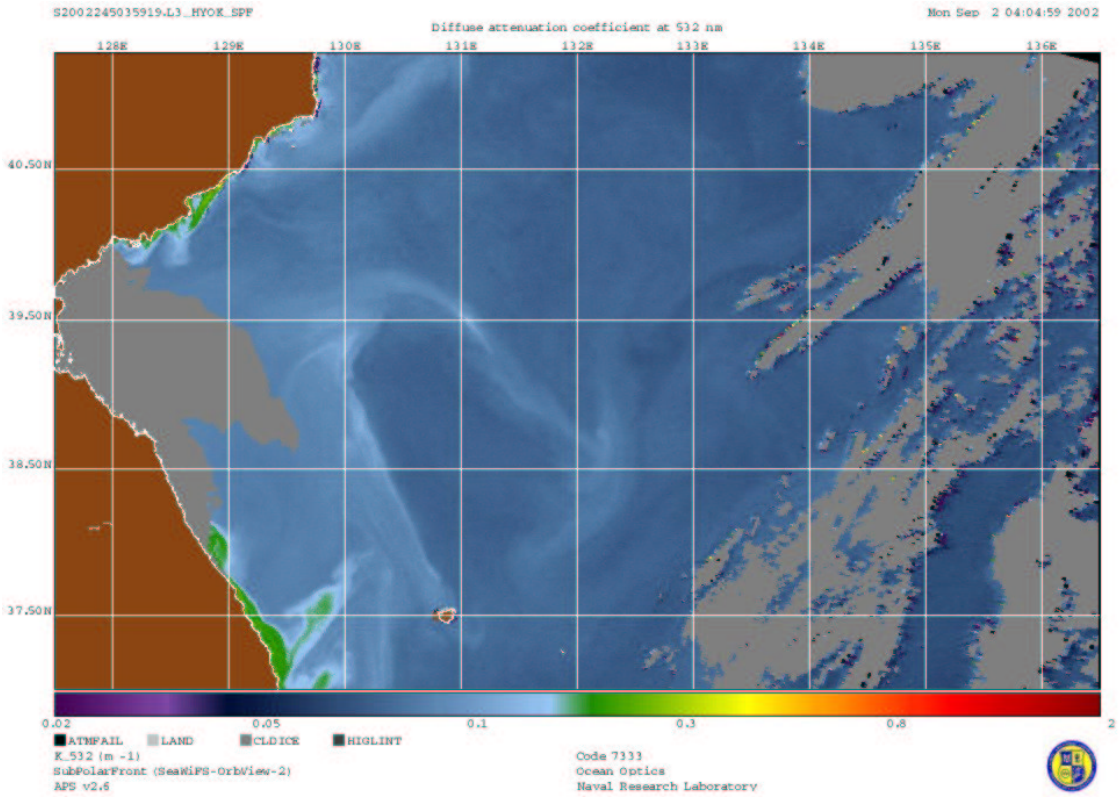
This Straits image map uses the Mercator projection. The longitude of central meridian is set to 4014006 ° W. The latitude of true scale is 35050042 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Straits image map is 926 pixels wide and 766 pixels high. The point 8.85 ° W and 38.95 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (926,1) | 797328 meters | 862 meters |
| (1,383) | (926,383) | 830422 meters | 898 meters |
| (1,766) | (926,766) | 862453 meters | 932 meters |
| Vertical Lines | | | |
| (1,1) | (1,766) | 689954 meters | 902 meters |
| (463,1) | (463,766) | 689954 meters | 902 meters |
| (926,1) | (926,766) | 689954 meters | 902 meters |

### 1.49. SubPolarFront




This image map covers SubPolarFront

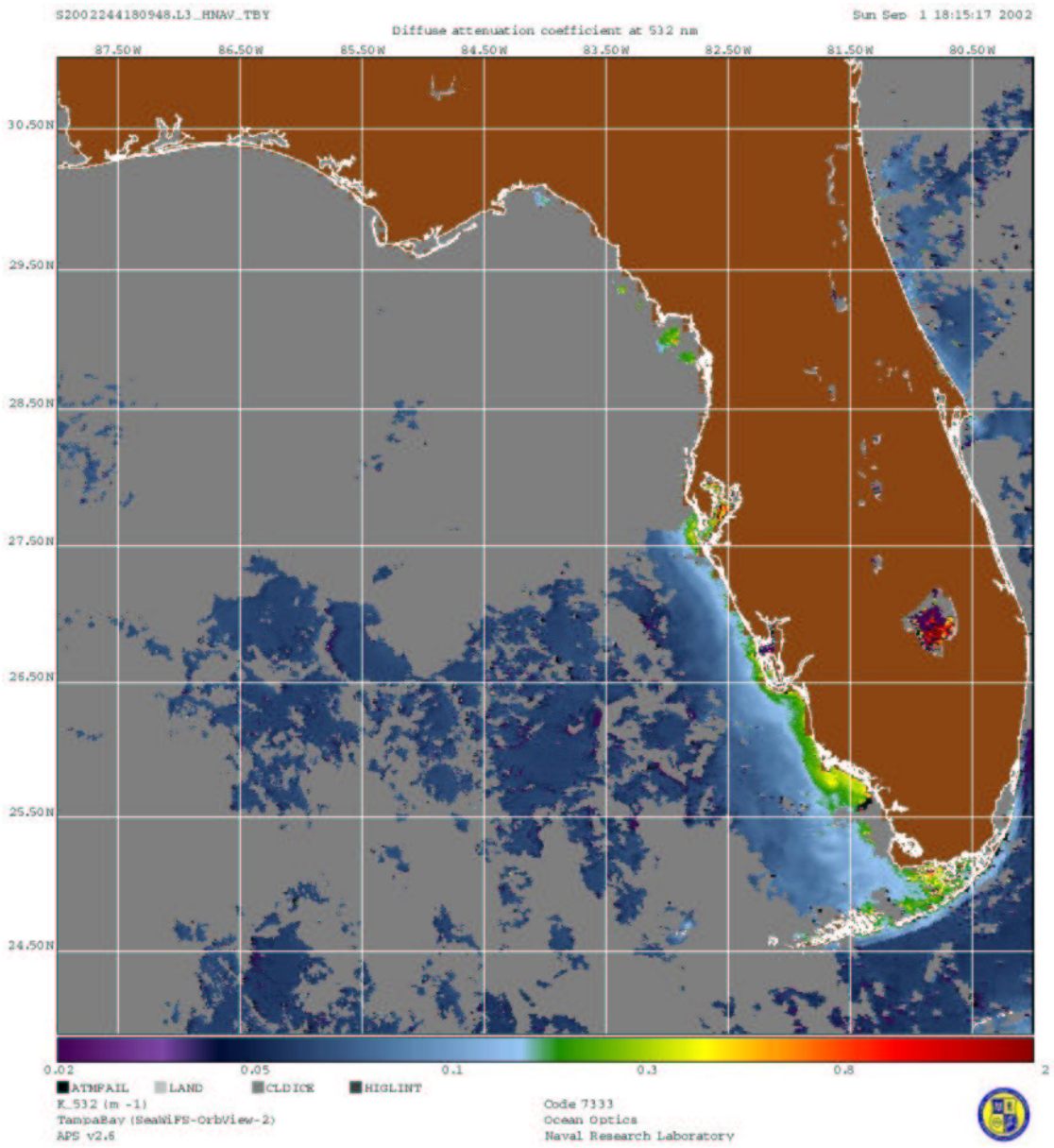
This SubPolarFront image map uses the Mercator projection. The longitude of central meridian is set to 132000000 ° E. The latitude of true scale is 39007030 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The SubPolarFront image map is 900 pixels wide and 548 pixels high. The point 127.50 ° E and 41.25 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (900,1) | 751598 meters | 836 meters |
| (1,274) | (900,274) | 775224 meters | 862 meters |
| (1,548) | (900,548) | 798581 meters | 888 meters |
| Vertical Lines | | | |
| (1,1) | (1,548) | 473785 meters | 866 meters |
| (450,1) | (450,548) | 473785 meters | 866 meters |
| (900,1) | (900,548) | 473785 meters | 866 meters |

### 1.50. TampaBay




This image map covers TampaBay

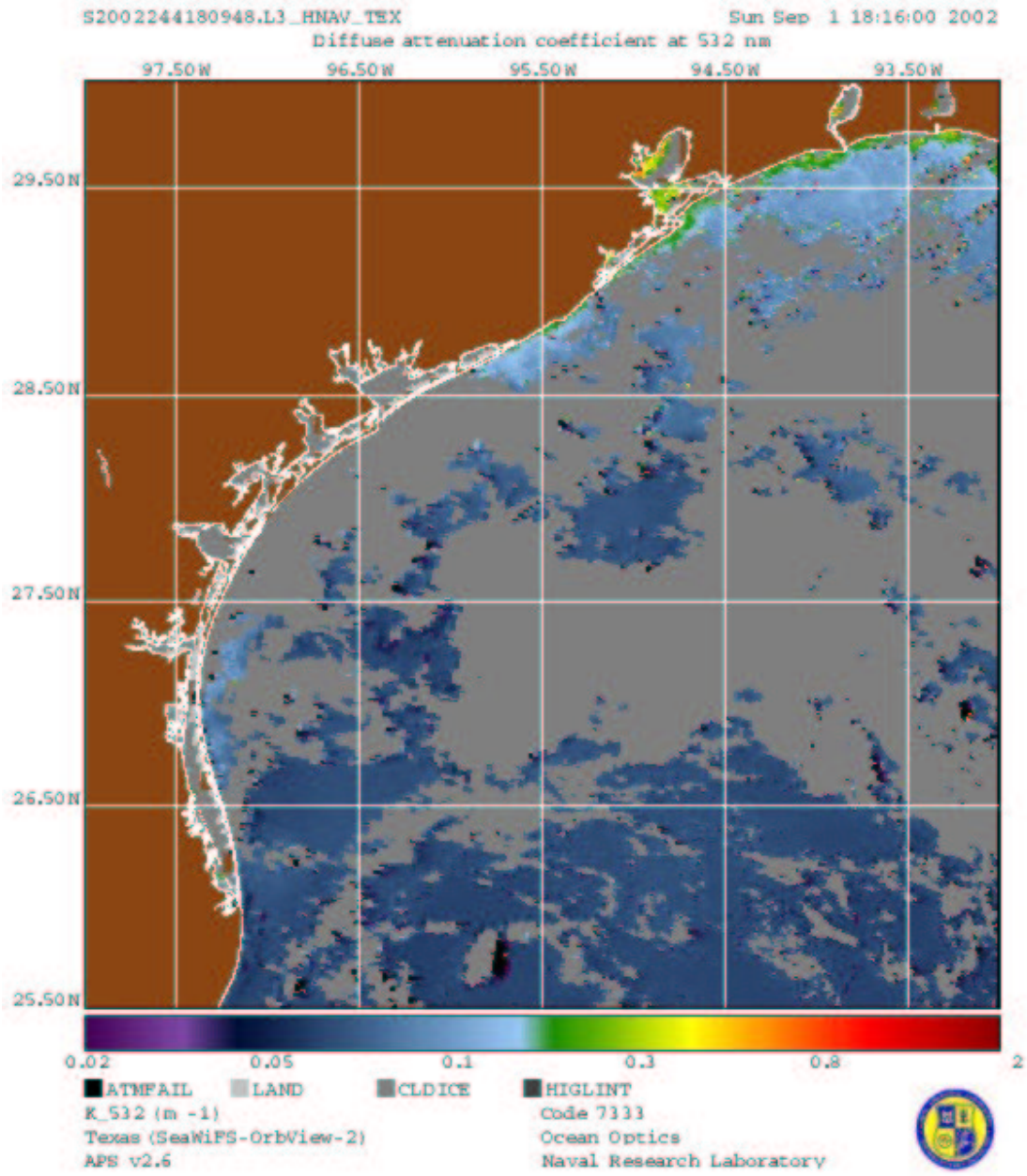
This TampaBay image map uses the Mercator projection. The longitude of central meridian is set to 84000000 ° W. The latitude of true scale is 27030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The TampaBay image map is 800 pixels wide and 800 pixels high. The point 88 ° W and 31 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (800,1) | 761858 meters | 954 meters |
| (1,400) | (800,400) | 788436 meters | 987 meters |
| (1,800) | (800,800) | 812858 meters | 1017 meters |
| Vertical Lines | | | |
| (1,1) | (1,800) | 792415 meters | 992 meters |
| (400,1) | (400,800) | 792415 meters | 992 meters |
| (800,1) | (800,800) | 792415 meters | 992 meters |

### 1.51. Texas




This image map covers Texas

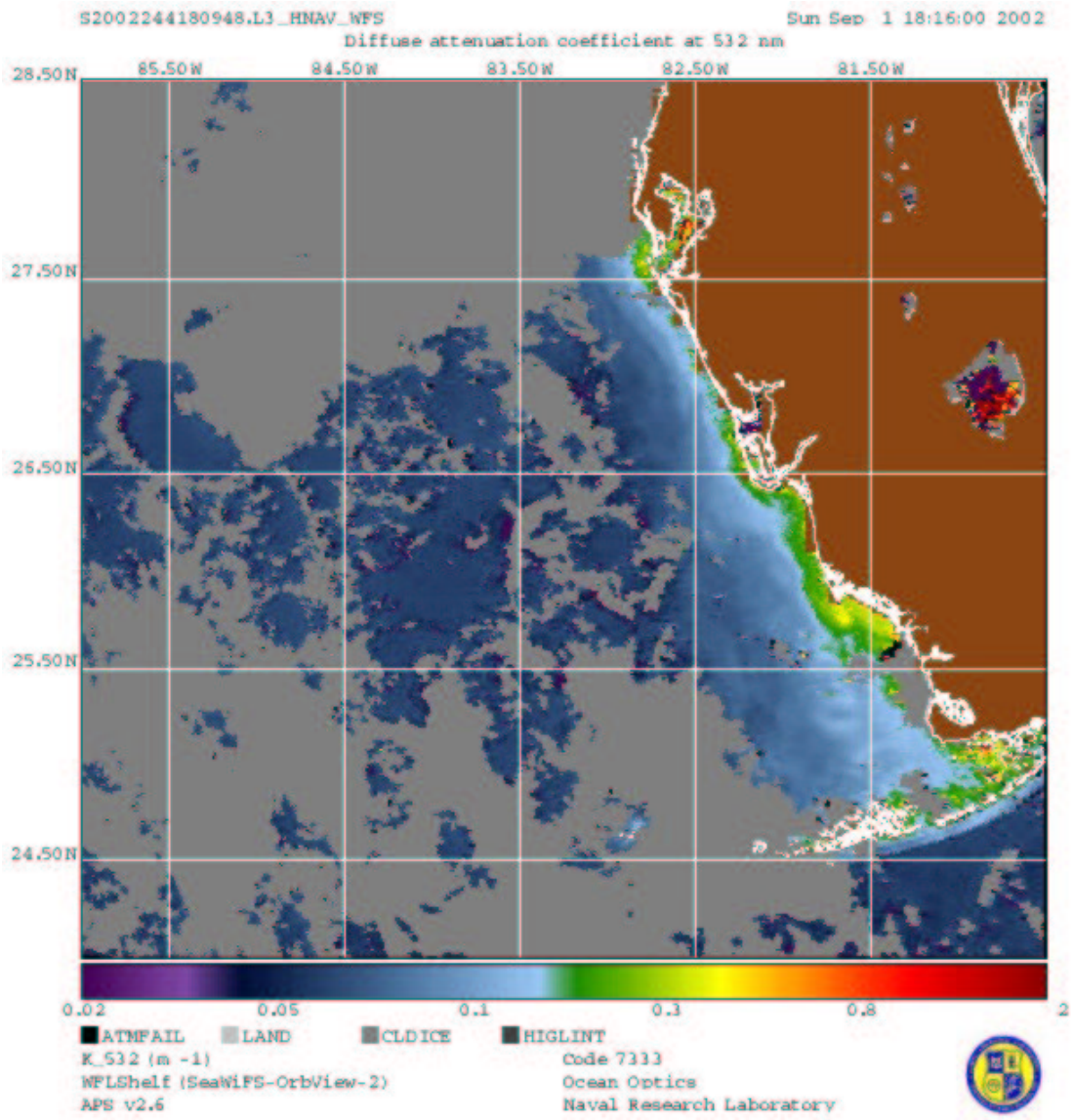
This Texas image map uses the Mercator projection. The longitude of central meridian is set to 95030000 ° W. The latitude of true scale is 27045000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The Texas image map is 500 pixels wide and 507 pixels high. The point 98 ° W and 30 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (500,1) | 481148 meters | 964 meters |
| (1,253) | (500,253) | 491561 meters | 985 meters |
| (1,507) | (500,507) | 501508 meters | 1005 meters |
| Vertical Lines | | | |
| (1,1) | (1,507) | 501070 meters | 990 meters |
| (250,1) | (250,507) | 501070 meters | 990 meters |
| (500,1) | (500,507) | 501070 meters | 990 meters |

### 1.52. WFLShelf




This image map covers WFLShelf

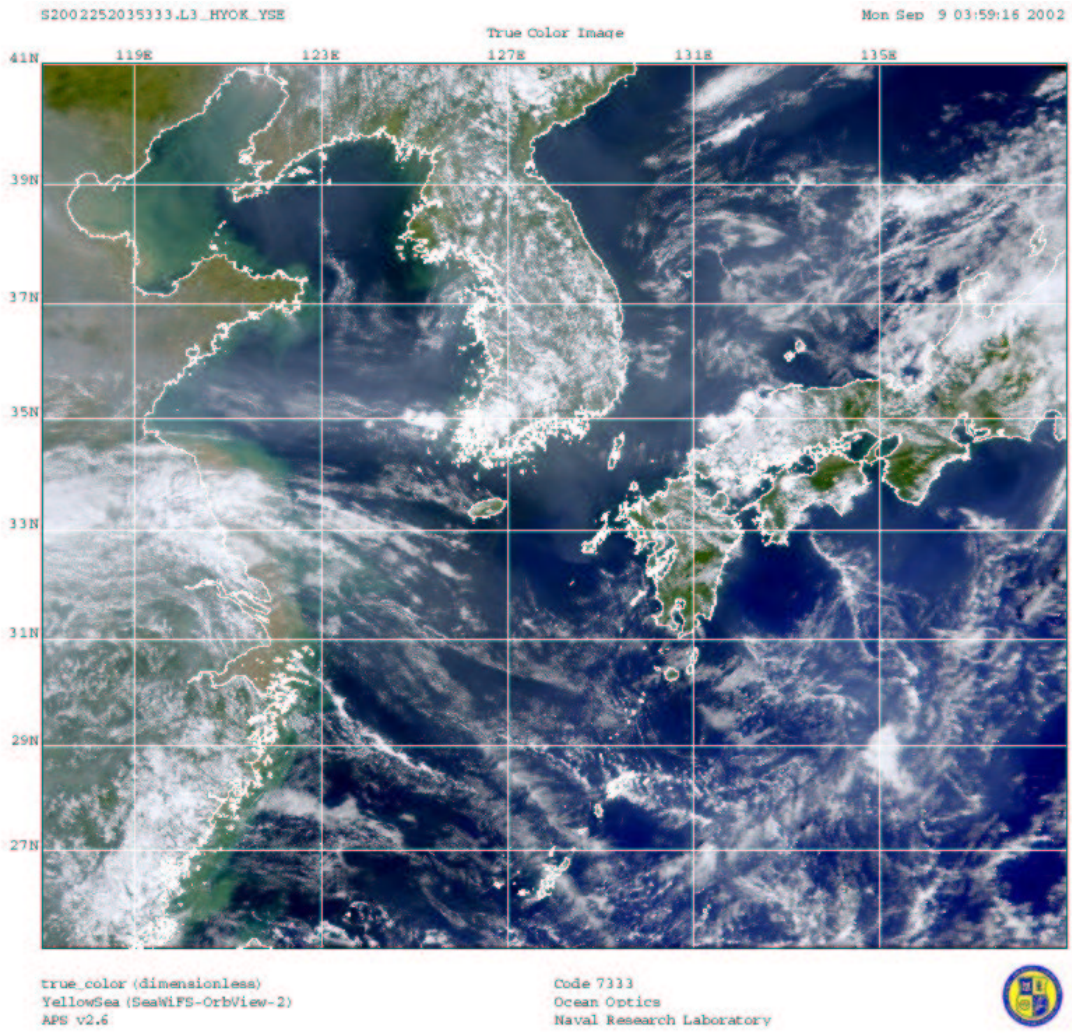
This WFLShelf image map uses the Mercator projection. The longitude of central meridian is set to 83015000 ° W. The latitude of true scale is 26015000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The WFLShelf image map is 550 pixels wide and 501 pixels high. The point 86 ° W and 28.50 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (550,1) | 537076 meters | 978 meters |
| (1,250) | (550,250) | 548006 meters | 998 meters |
| (1,501) | (550,501) | 558380 meters | 1017 meters |
| Vertical Lines | | | |
| (1,1) | (1,501) | 501778 meters | 1004 meters |
| (275,1) | (275,501) | 501778 meters | 1004 meters |
| (550,1) | (550,501) | 501778 meters | 1004 meters |

### 1.53. YellowSea




This image map covers YellowSea

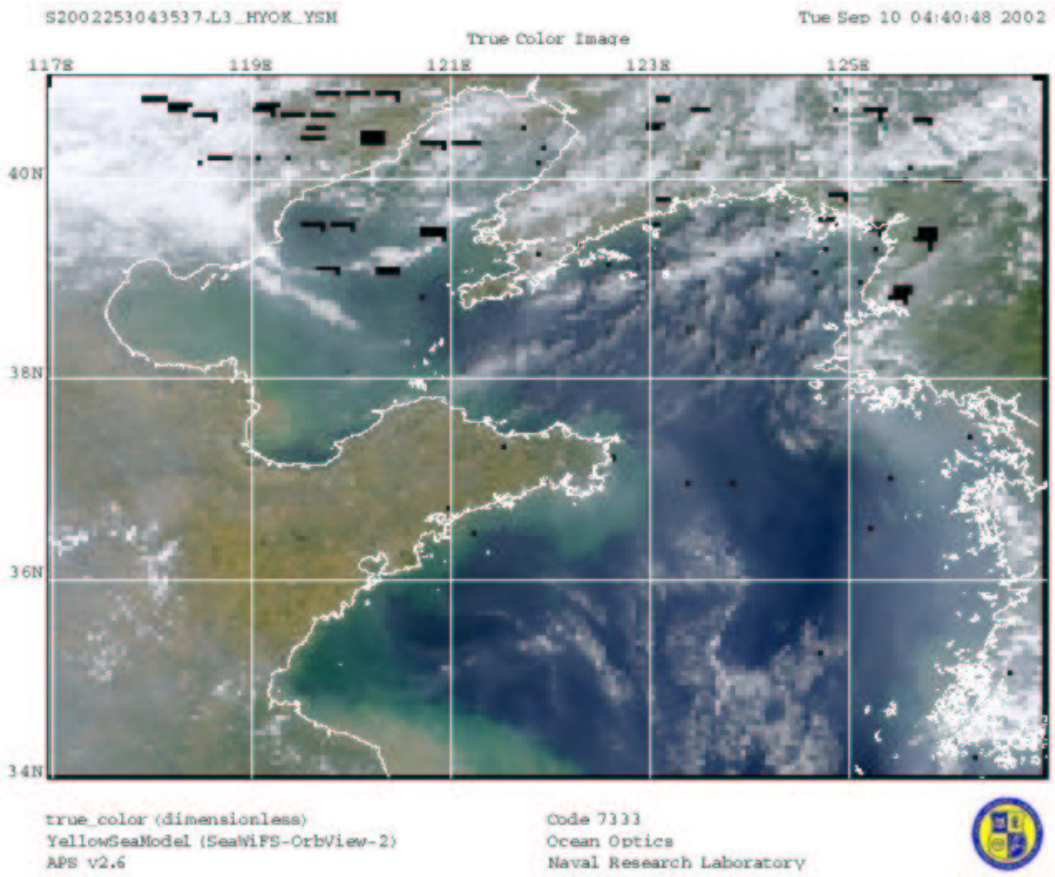
This YellowSea image map uses the Mercator projection. The longitude of central meridian is set to 128000000 ° E. The latitude of true scale is 31030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The YellowSea image map is 2200 pixels wide and 1900 pixels high. The point 117 ° E and 41 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (2200,1) | 1840162 meters | 837 meters |
| (1,950) | (2200,950) | 2036732 meters | 926 meters |
| (1,1900) | (2200,1900) | 2211494 meters | 1006 meters |
| Vertical Lines | | | |
| (1,1) | (1,1900) | 1767370 meters | 931 meters |
| (1100,1) | (1100,1900) | 1767370 meters | 931 meters |
| (2200,1) | (2200,1900) | 1767370 meters | 931 meters |

### 1.54. YellowSeaModel




This image map covers YellowSeaModel

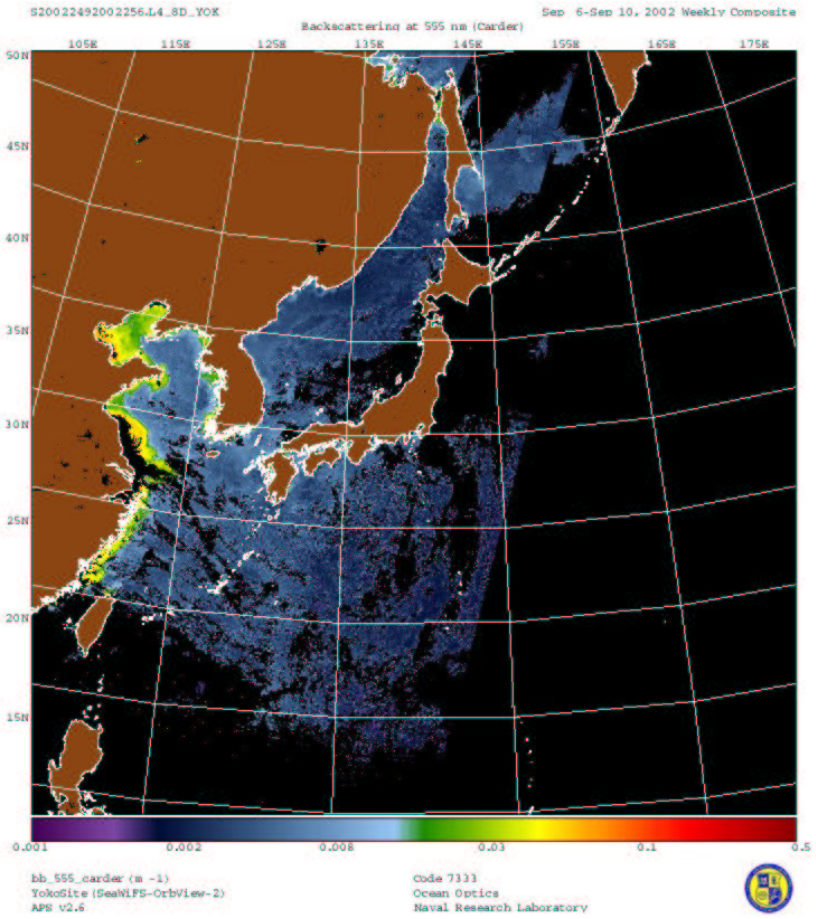
This YellowSeaModel image map uses the Equirectangular projection.

The YellowSeaModel image map is 201 pixels wide and 141 pixels high. The point 117 ° E and 41 ° N is tied to the upper left corner (1,1) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (201,1) | 838213 meters | 4191 meters |
| (1,70) | (201,70) | 880608 meters | 4403 meters |
| (1,141) | (201,141) | 920903 meters | 4605 meters |
| Vertical Lines | | | |
| (1,1) | (1,141) | 777876 meters | 5556 meters |
| (100,1) | (100,141) | 777876 meters | 5556 meters |
| (201,1) | (201,141) | 777876 meters | 5556 meters |

### 1.55. YokoSite




This image map covers YokoSite

This YokoSite image map uses the Stereographic projection.

The YokoSite image map is 4096 pixels wide and 4096 pixels high. The point 139.39 ° E and 35.18 ° N is tied to the center (2048,2048) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (4096,1) | 4345806 meters | 1061 meters |
| (1,2048) | (4096,2048) | 4484817 meters | 1095 meters |
| (1,4096) | (4096,4096) | 4345674 meters | 1061 meters |
| Vertical Lines | | | |
| (1,1) | (1,4096) | 4345806 meters | 1061 meters |
| (2048,1) | (2048,4096) | 4484817 meters | 1095 meters |
| (4096,1) | (4096,4096) | 4345674 meters | 1061 meters |

### 1.56. OmanGulf

This image map covers OmanGulf

This OmanGulf image map uses the Alber Equal Area projection. The standard parallel are at 22 ° N and 25 ° N. The longitude of central meridian is 59 ° E and the latitude of projection origin is 23.50 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 59000000 ° E. The latitude of true scale is 23030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The OmanGulf image map is 204 pixels wide and 400 pixels high. The point 59 ° E and 23.80 ° N is tied to the center (102,200) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (204,1) | 202659 meters | 998 meters |
| (1,200) | (204,200) | 202809 meters | 999 meters |
| (1,400) | (204,400) | 202757 meters | 999 meters |
| Vertical Lines | | | |
| (1,1) | (1,400) | 400676 meters | 1004 meters |
| (102,1) | (102,400) | 400676 meters | 1004 meters |
| (204,1) | (204,400) | 400676 meters | 1004 meters |

### 1.57. OmanGulf4

This image map covers OmanGulf

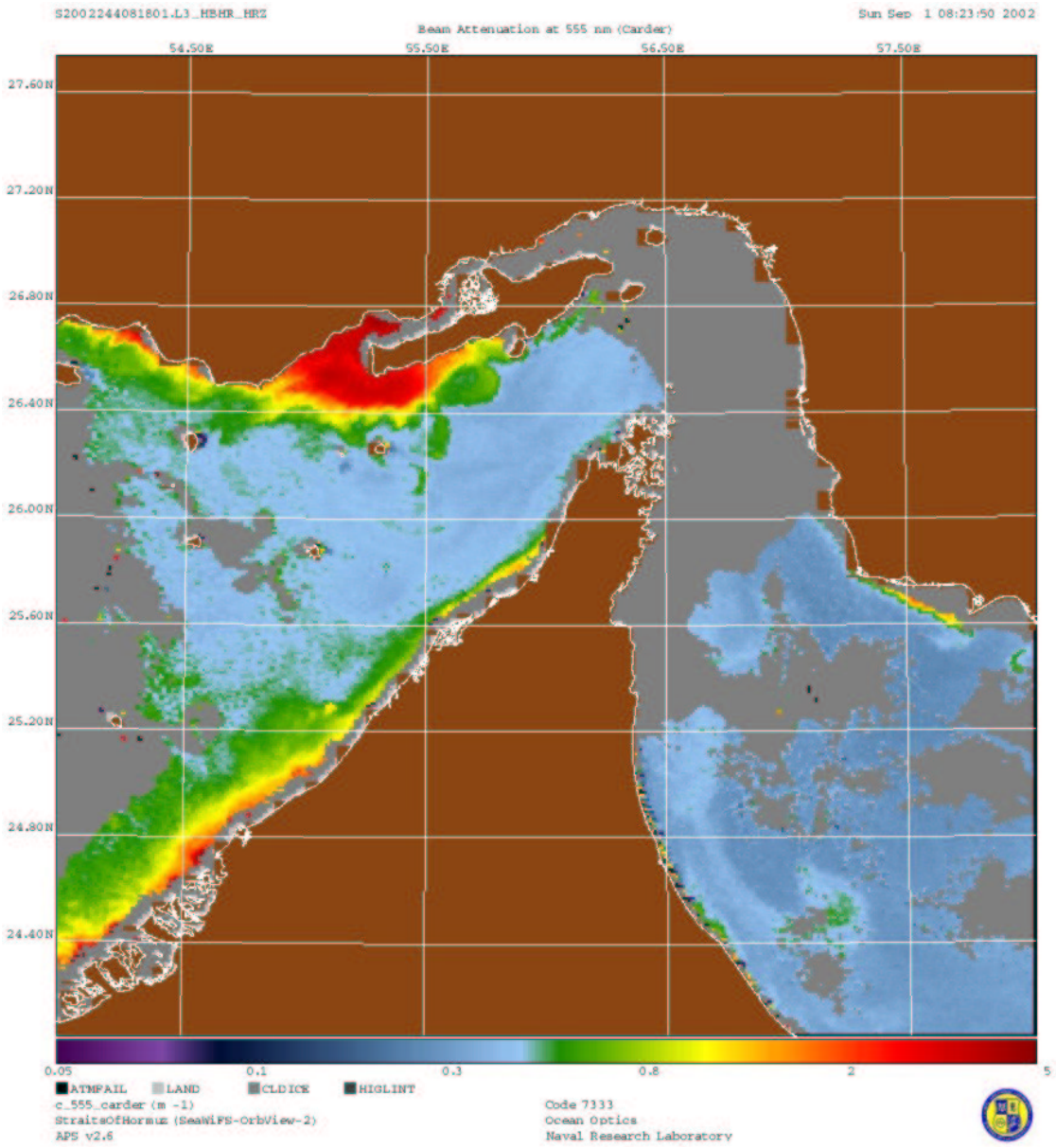
This OmanGulf4 image map uses the Alber Equal Area projection. The standard parallel are at 22 ° N and 25 ° N. The longitude of central meridian is 59 ° E and the latitude of projection origin is 23.50 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 59000000 ° E. The latitude of true scale is 23030000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The OmanGulf4 image map is 816 pixels wide and 1600 pixels high. The point 59 ° E and 23.80 ° N is tied to the center (408,800) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (816,1) | 203407 meters | 250 meters |
| (1,800) | (816,800) | 203558 meters | 250 meters |
| (1,1600) | (816,1600) | 203506 meters | 250 meters |
| Vertical Lines | | | |
| (1,1) | (1,1600) | 401429 meters | 251 meters |
| (408,1) | (408,1600) | 401429 meters | 251 meters |
| (816,1) | (816,1600) | 401429 meters | 251 meters |

### 1.58. StraitsOfHormuz




This image map covers StraitsOfHormuz

This StraitsOfHormuz image map uses the Alber Equal Area projection. The standard parallel are at 28 ° N and 24 ° N. The longitude of central meridian is 56 ° E and the latitude of projection origin is 26 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 56000000 ° E. The latitude of true scale is 26000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The StraitsOfHormuz image map is 408 pixels wide and 408 pixels high. The point 56 ° E and 25.90 ° N is tied to the center (204,204) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (408,1) | 407260 meters | 1001 meters |
| (1,204) | (408,204) | 407478 meters | 1001 meters |
| (1,408) | (408,408) | 407278 meters | 1001 meters |
| Vertical Lines | | | |
| (1,1) | (1,408) | 409276 meters | 1006 meters |
| (204,1) | (204,408) | 409275 meters | 1006 meters |
| (408,1) | (408,408) | 409276 meters | 1006 meters |

### 1.59. StraitsOfHormuz4

This image map covers StraitsOfHormuz

This StraitsOfHormuz4 image map uses the Alber Equal Area projection. The standard parallel are at 28 ° N and 24 ° N. The longitude of central meridian is 56 ° E and the latitude of projection origin is 26 ° N. Neither the False Easting or Northing are set. The longitude of central meridian is set to 56000000 ° E. The latitude of true scale is 26000000 ° N. Neither the False Easting or Northing are set. The WGS 84 datum was used.

The StraitsOfHormuz4 image map is 1632 pixels wide and 1632 pixels high. The point 56 ° E and 25.90 ° N is tied to the center (816,816) of the image.

The following distances are given:

| start pixel | stop pixel | total distance | average/pixel |
|---|---|---|---|
| Horizontal Lines | | | |
| (1,1) | (1632,1) | 408009 meters | 250 meters |
| (1,816) | (1632,816) | 408229 meters | 250 meters |
| (1,1632) | (1632,1632) | 408028 meters | 250 meters |
| Vertical Lines | | | |
| (1,1) | (1,1632) | 410030 meters | 251 meters |
| (816,1) | (816,1632) | 410029 meters | 251 meters |
| (1632,1) | (1632,1632) | 410030 meters | 251 meters |