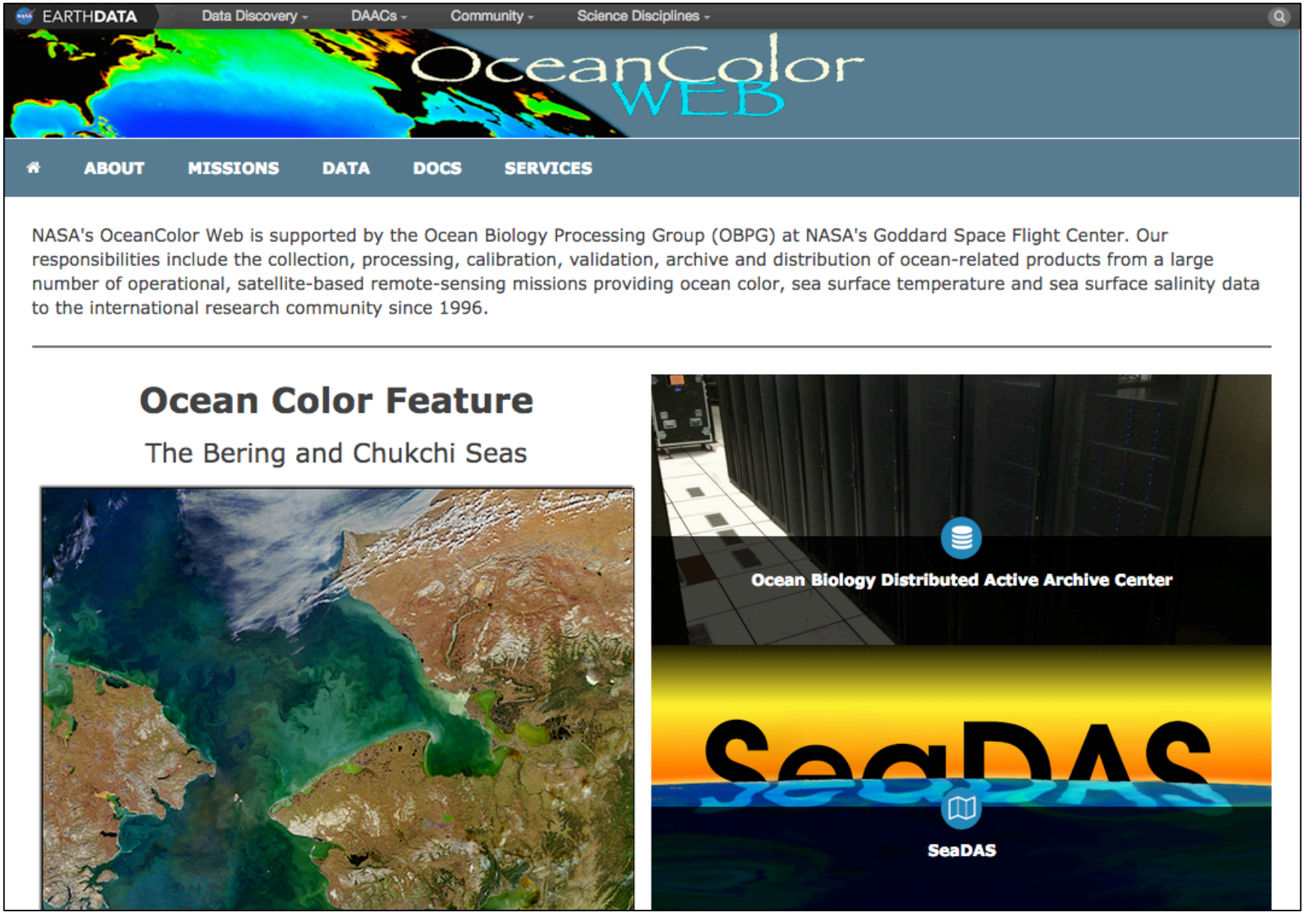
An Exploratory Walk Through

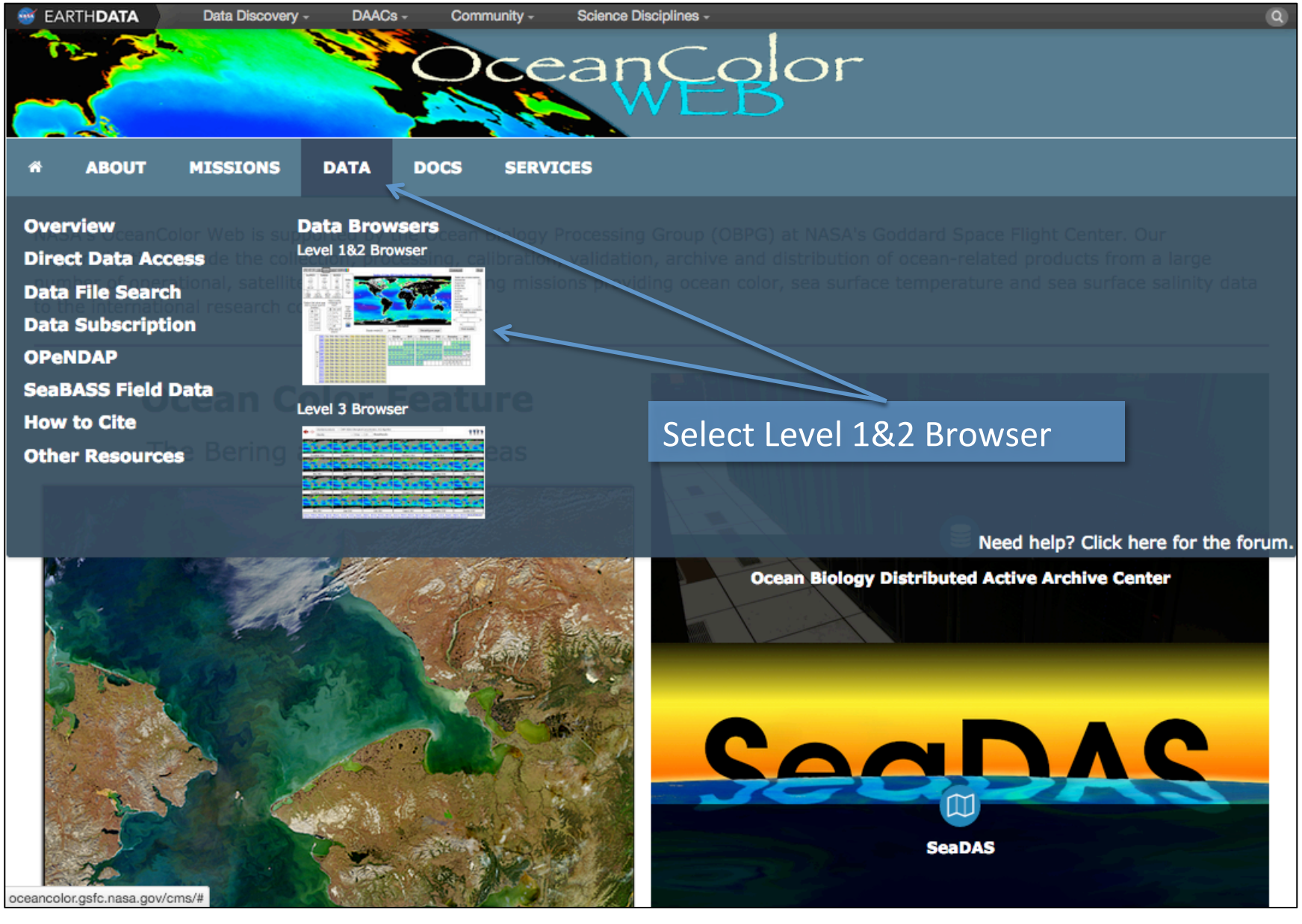
SeaDAS Training Course

Ocean Biology Distributed Active Archive Center (OB.DAAC)
NASA - Goddard Space Flight Center
www.seadas.gsfc.nasa.gov

Web: Find and Download a Level-2 File



Web: Find and Download a Level-2 File



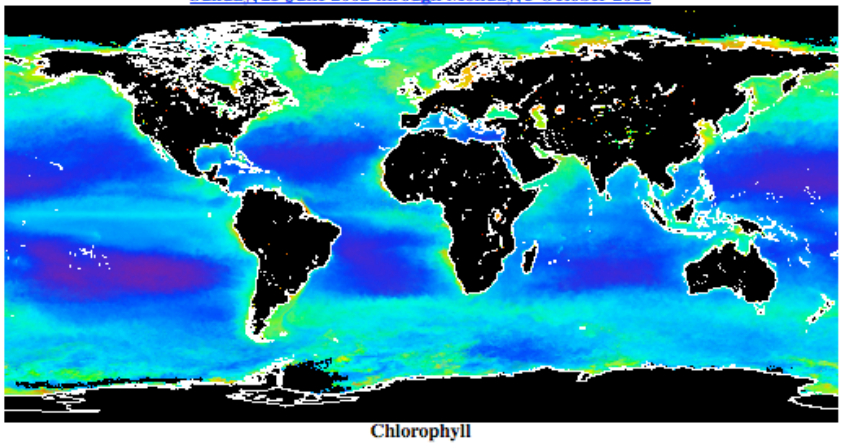
Web: Find and Download a Level-2 File

TC | Chl | SST | SST4 | Comment | Help

SeaWiFS	MODIS	MERIS	Select
☐ GAC	☑ Aqua	☐ RR	☑ Day
☐ MLAC	☐ Terra	☐ FRS	☐ Night

☐ VIIRS (Suomi-NPP) ☐ OCTS (ADEOS) ☐ HICO (ISS) ☐ GOCI (COMS) ☐ CZCS (Nimbus-7)

Sunday, 23 June 2002 through Monday, 3 October 2016



Chlorophyll

Select one or more regions:

AdriaticSea
AegeanSea
Antarctica
ArabianSea
AralSea
Arctic
Australia
AustraliaCoast
Azores
Bahamas
BalticSea

or specify boundary coordinates or a single location:

N: W: :E S:

Find swaths

Radius (*km*) about map click or about typed-in location:

◉ 72 ○ 400 ○ 800 ○ 1200 ○ 1500

Select swaths containing *(at least)*:

◉ any part ○ 25 % ○ 50 % ○ 75 % ○ all

of the area of interest.

Select only scenes having in situ matchups. ☐

Display results 10 at a time. Reconfigure page

Mission	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2002	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2003	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2007	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

August 2016

S	M	T	W	T	F	S
	1 xxx	2 xxx	3 xxx	4 ^^^	5 ^^^	6 ^^^
7 ^^^	8 ^^^	9 ^^^	10 ^^^	11 ^^^	12 000	13 000
14 000	15 000	16 000	17 000	18 000	19 000	20 ***
21 ***	22 ***	23 ***	24 ***	25 ***	26 ***	27 ***
28 xxx	29 xxx	30 xxx	31 xxx			

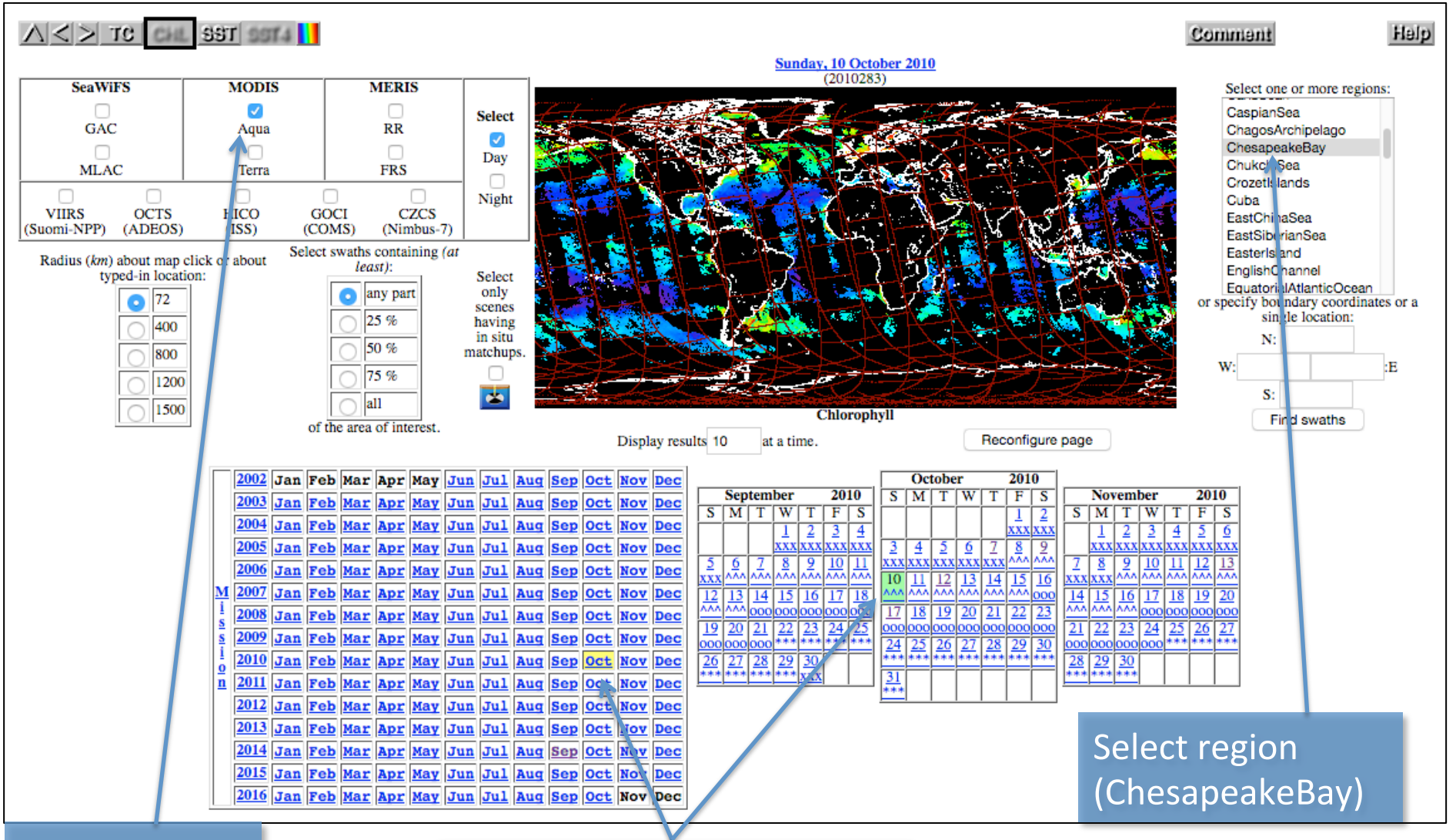
September 2016

S	M	T	W	T	F	S
				1 xxx	2 xxx	3 xxx
4 xxx	5 ^^^	6 ^^^	7 ^^^	8 ^^^	9 ^^^	10 ^^^
11 ^^^	12 ^^^	13 000	14 000	15 000	16 000	17 000
18 000	19 000	20 000	21 ***	22 ***	23 ***	24 ***
25 ***	26 ***	27 ***	28 ***	29 xxx	30 xxx	

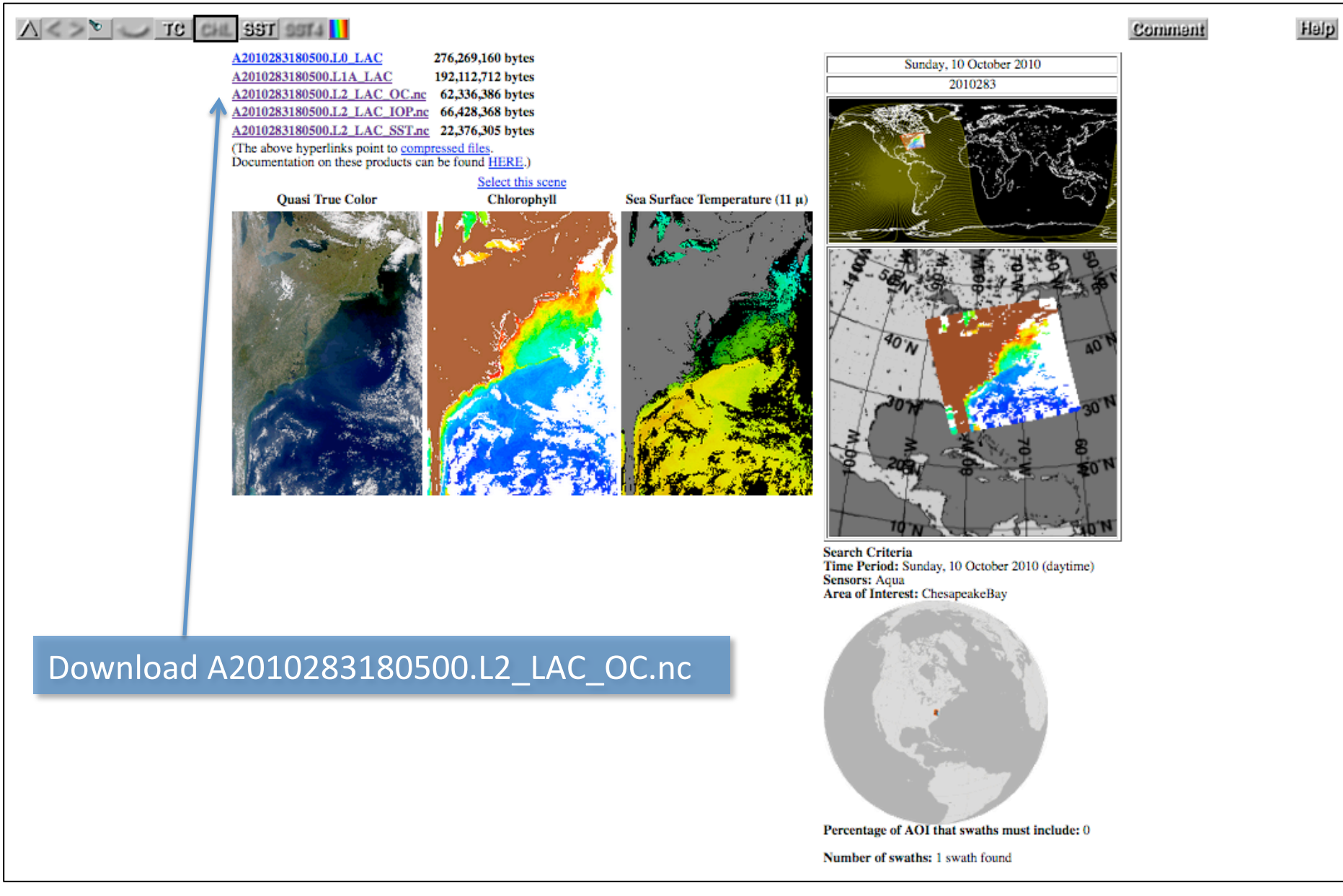
October 2016

S	M	T	W	T	F	S
						1 xxx
2 xxx	3 xxx	4 xxx	5 xxx	6 xxx	7 ^^^	8 ^^^
9 ^^^	10 ^^^	11 ^^^	12 ^^^	13 ^^^	14 ^^^	15 000
16 000	17 000	18 000	19 000	20 000	21 000	22 000
23 ***	24 ***	25 ***	26 ***	27 ***	28 ***	29 ***
30 ***	31 xxx					

Web: Find and Download a Level-2 File



Web: Find and Download a Level-2 File



Download A2010283180500.L2_LAC_OC.nc

Web: Find and Download a Level-2 File

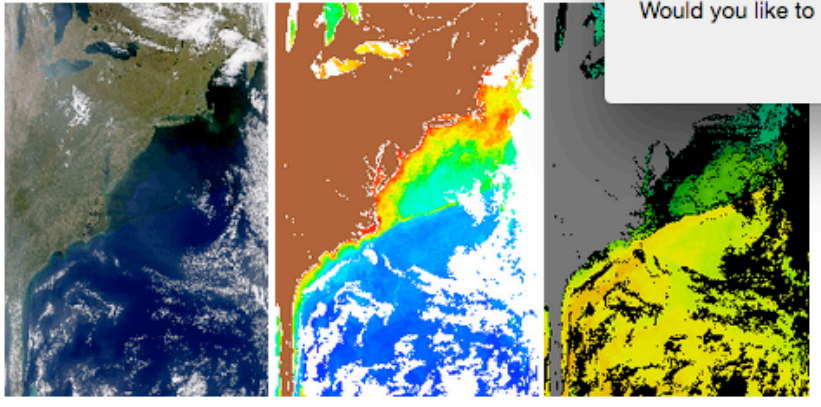
TC CHL SST SST4 Comment Help

A2010283180500.L0_LAC	276,269,160 bytes
A2010283180500.L1A_LAC	192,112,712 bytes
A2010283180500.L2_LAC_OC.nc	62,336,386 bytes
A2010283180500.L2_LAC_IOP.nc	66,428,368 bytes
A2010283180500.L2_LAC_SST.nc	22,376,305 bytes

(The above hyperlinks point to compressed files.
Documentation on these products can be found HERE.)

Select this scene

Quasi True Color | Chlorophyll | Sea Su



Opening A2010283180500.L2_LAC_OC.nc

You have chosen to open:

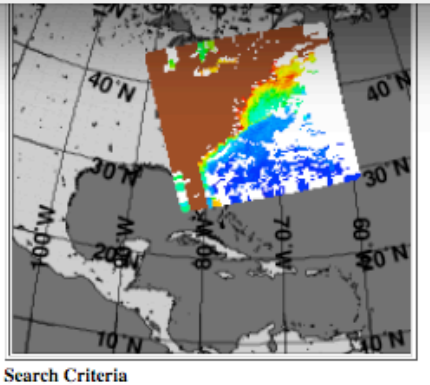
A2010283180500.L2_LAC_OC.nc

which is: Binary File (59.4 MB)

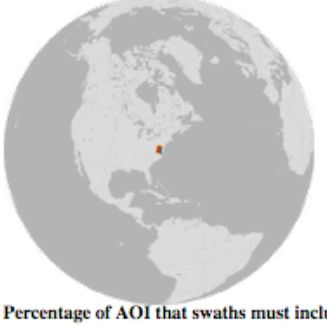
from: http://oceandata.sci.gsfc.nasa.gov

Would you like to save this file?

Cancel | Save File



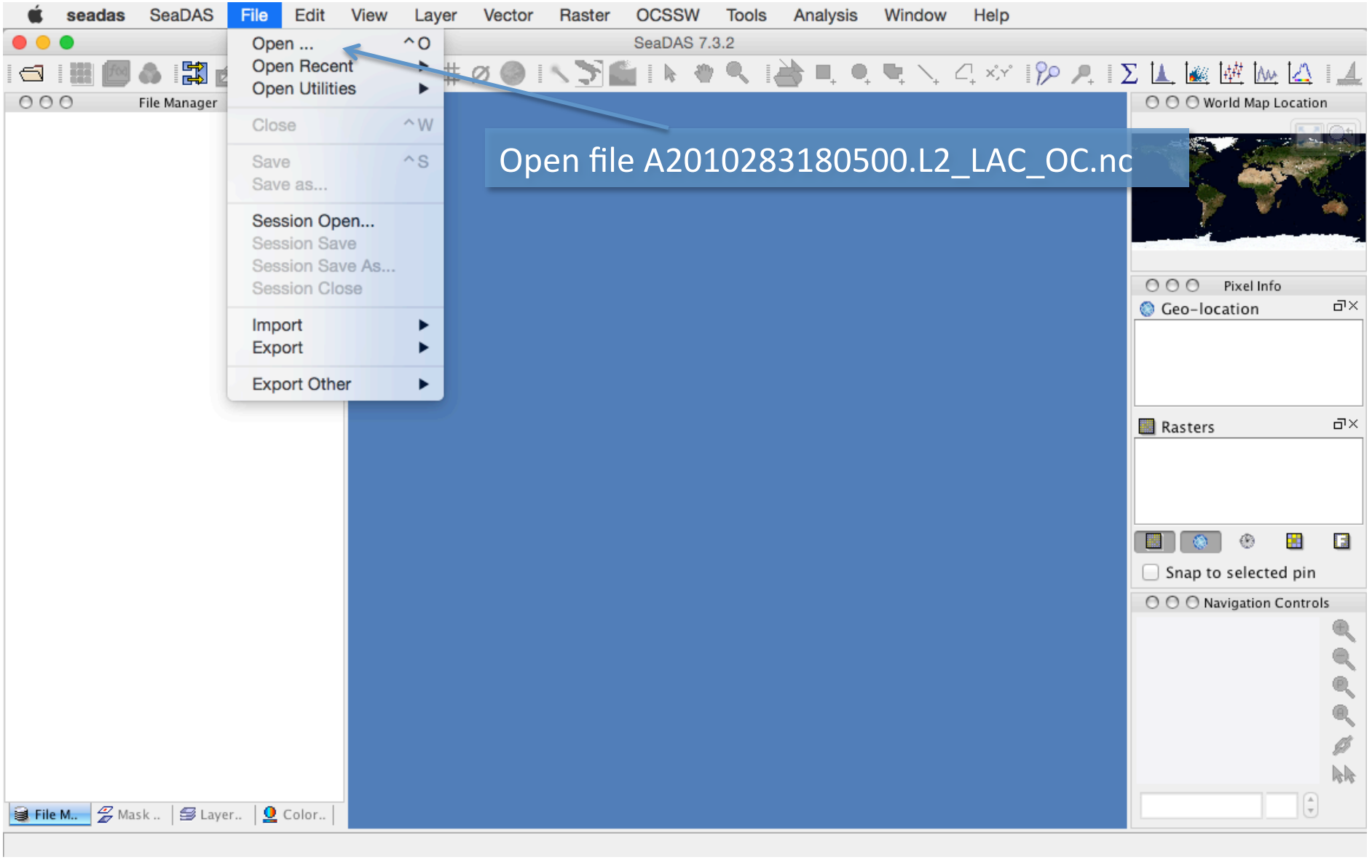
Search Criteria
Time Period: Sunday, 10 October 2010 (daytime)
Sensors: Aqua
Area of Interest: ChesapeakeBay



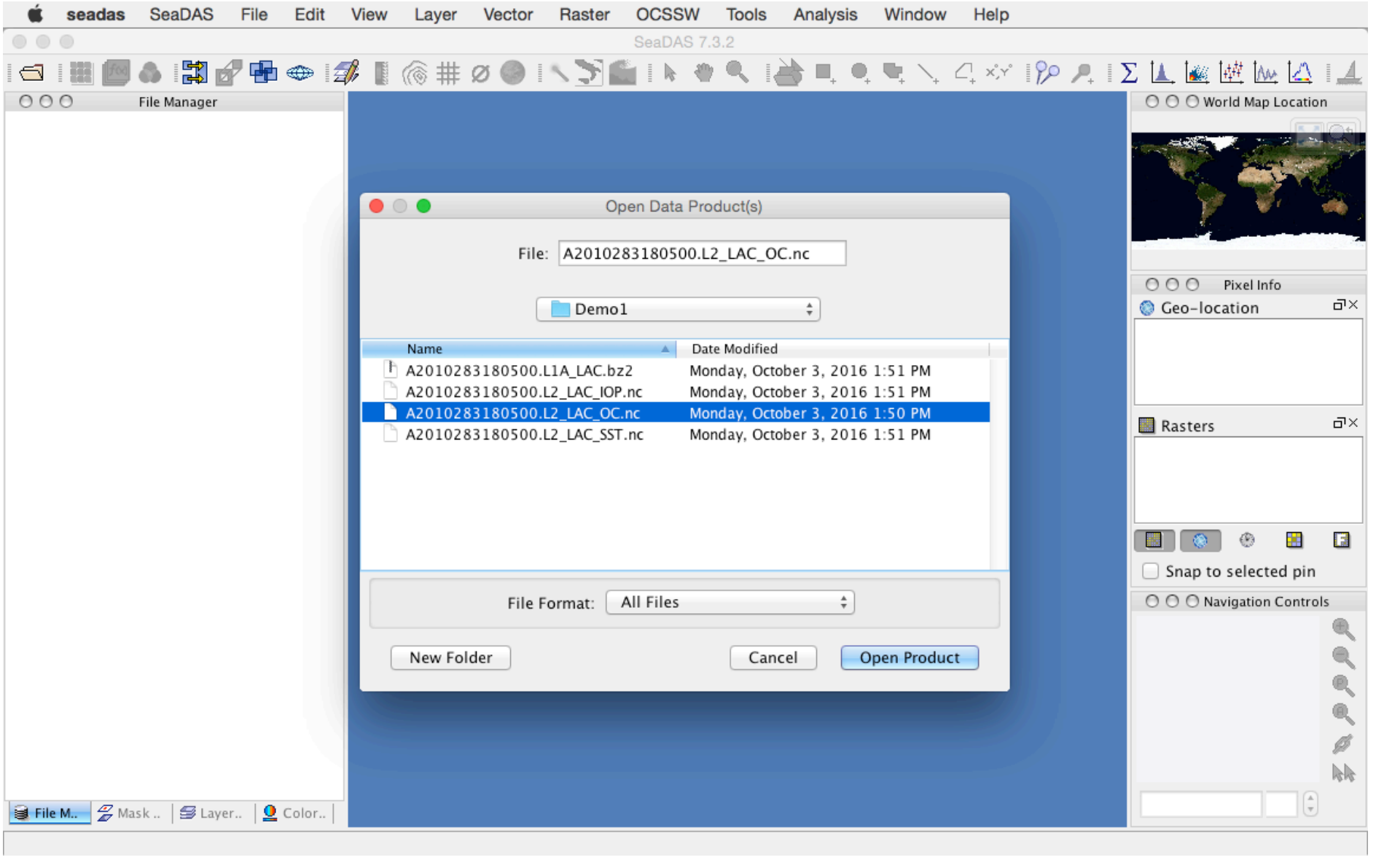
Percentage of AOI that swaths must include: 0

Number of swaths: 1 swath found

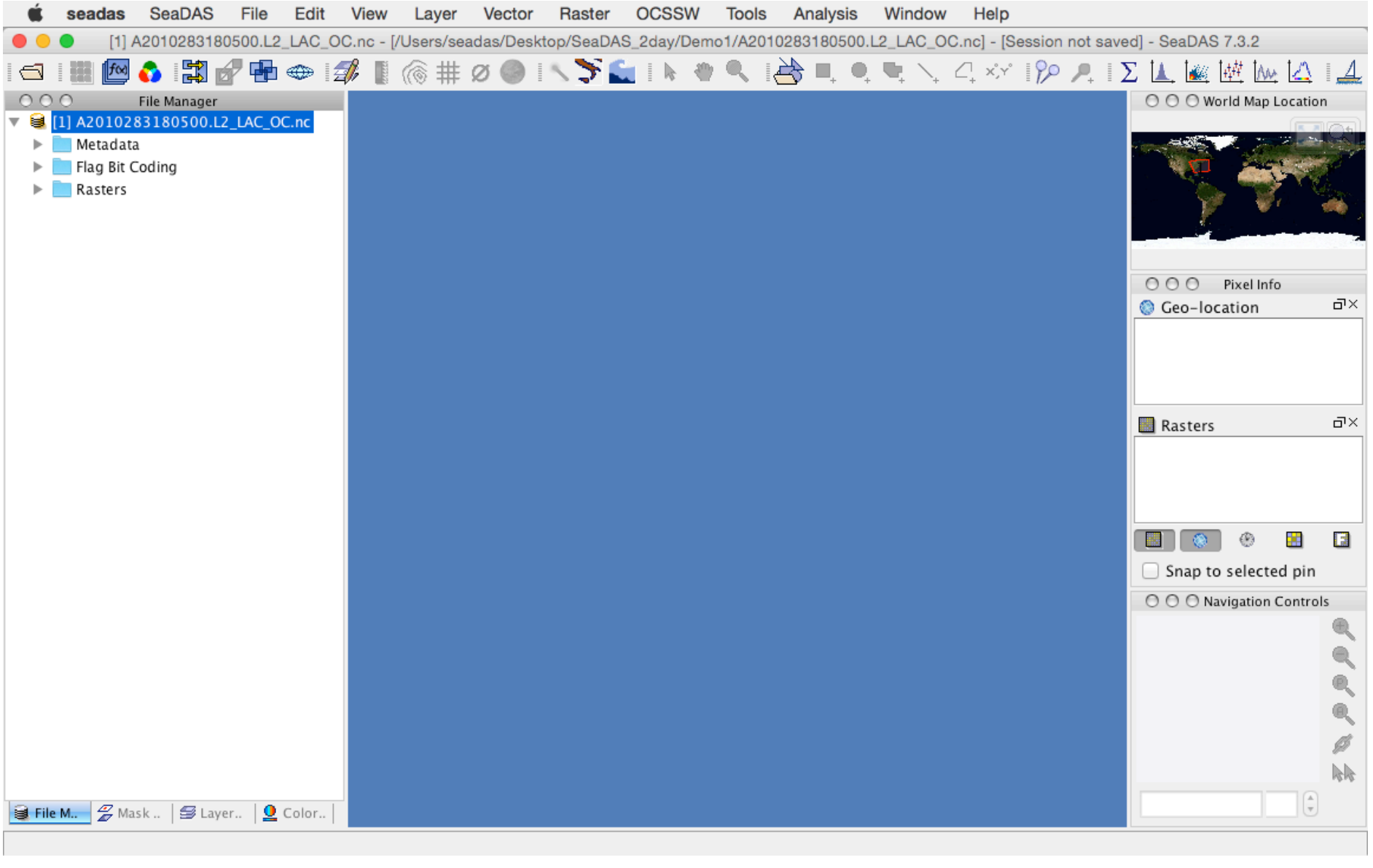
Open the File in SeaDAS



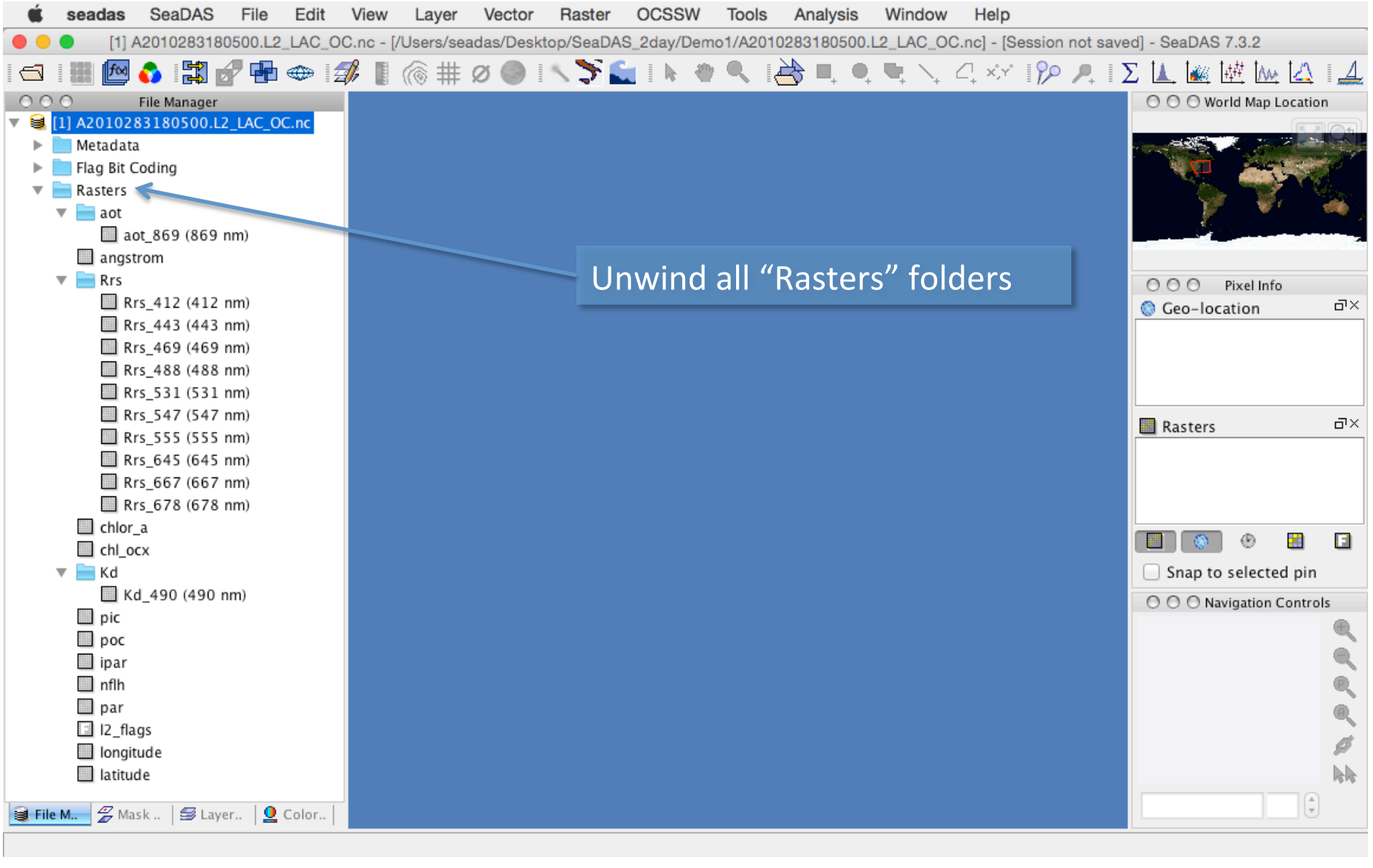
Open the File in SeaDAS



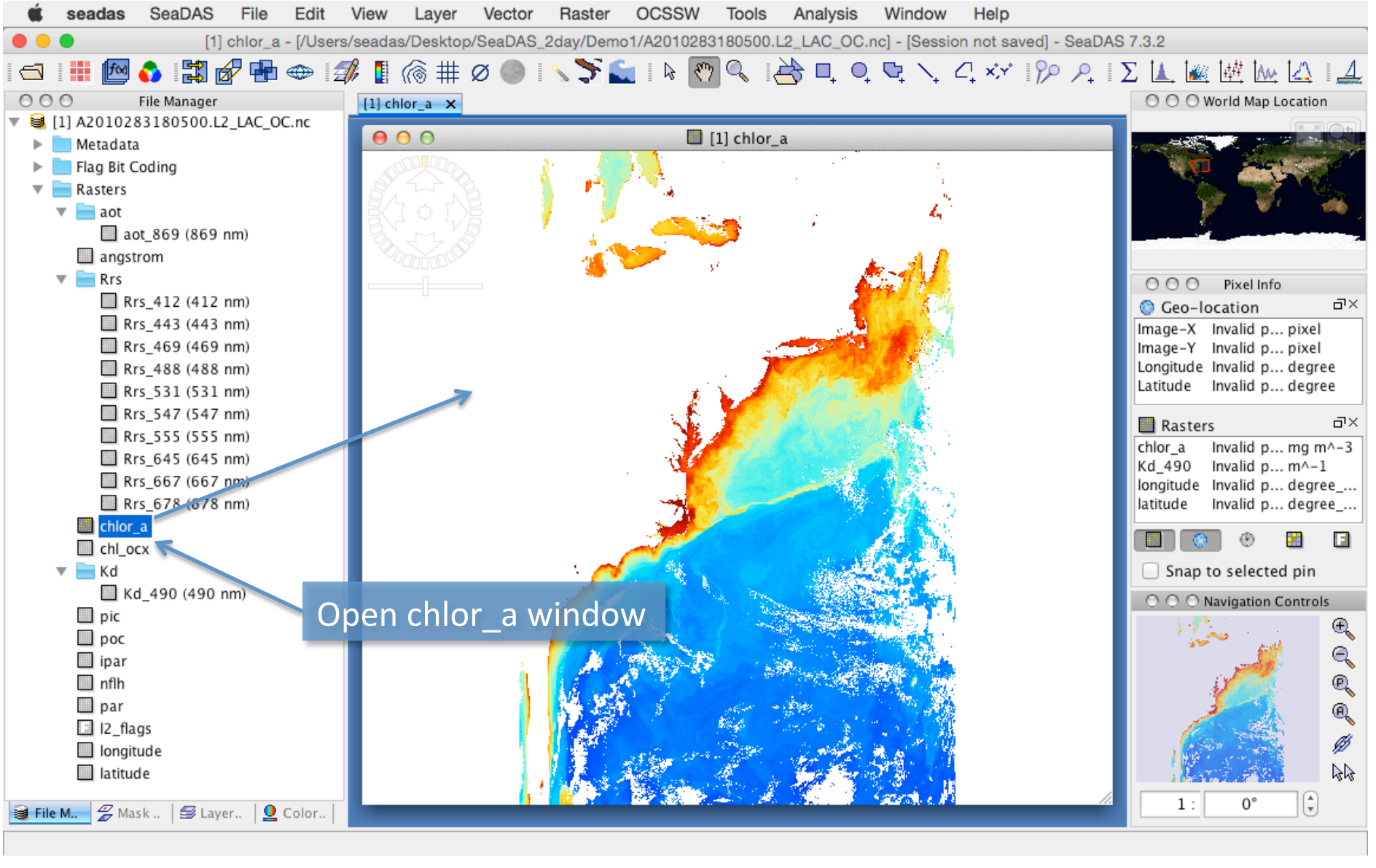
Open the File in SeaDAS



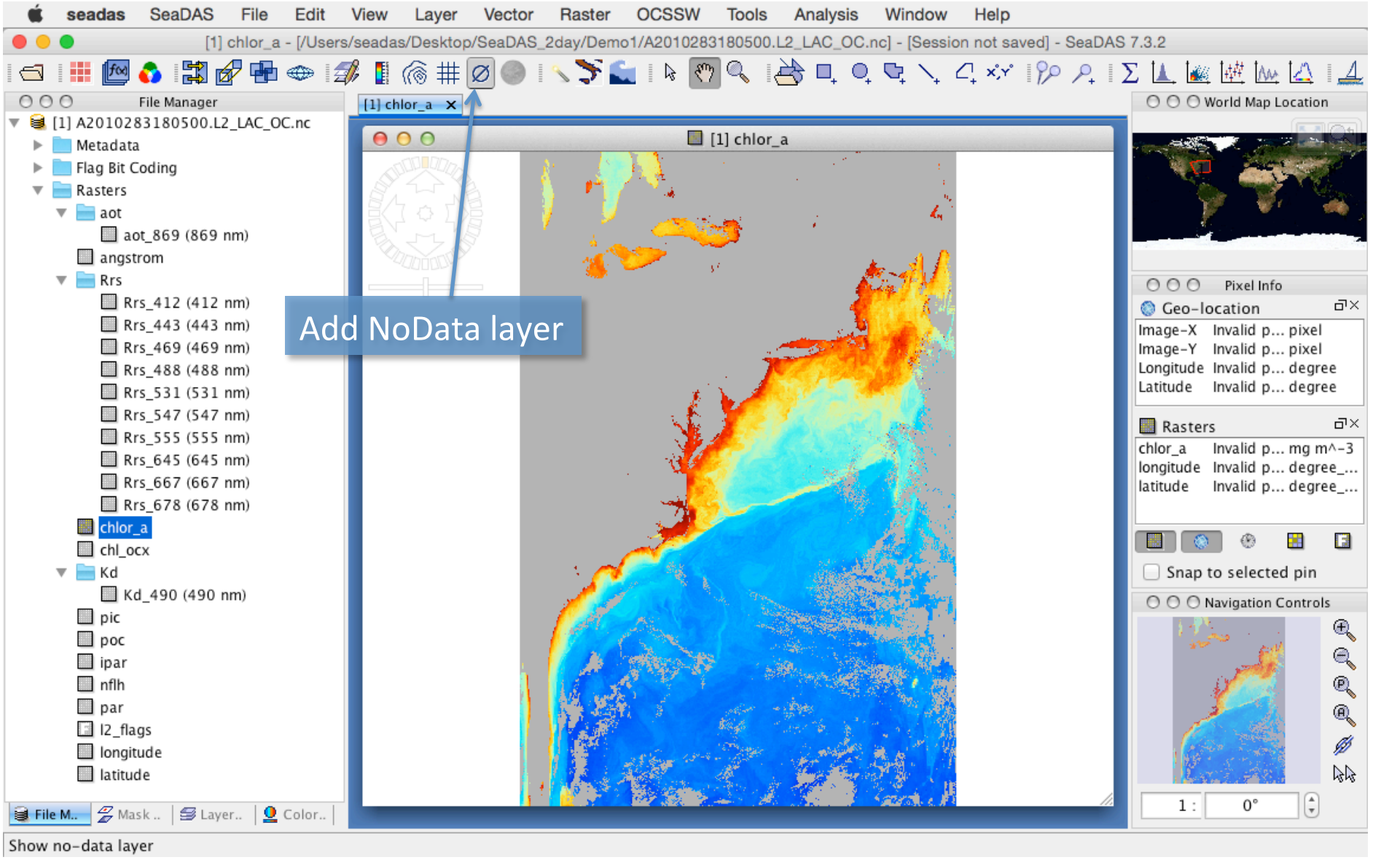
View the Bands in the Loaded File



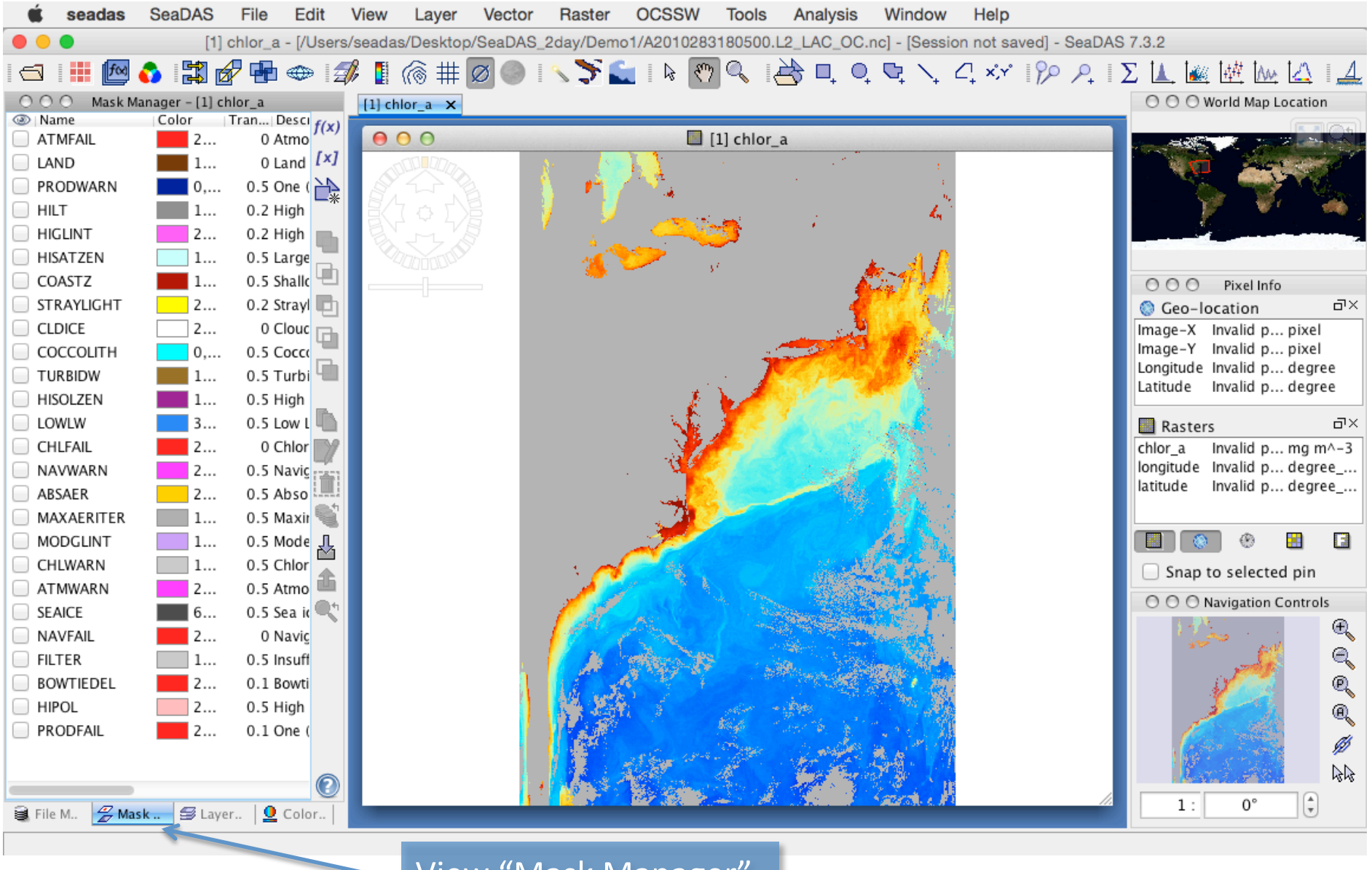
View a Band Image



Add No Data Layer

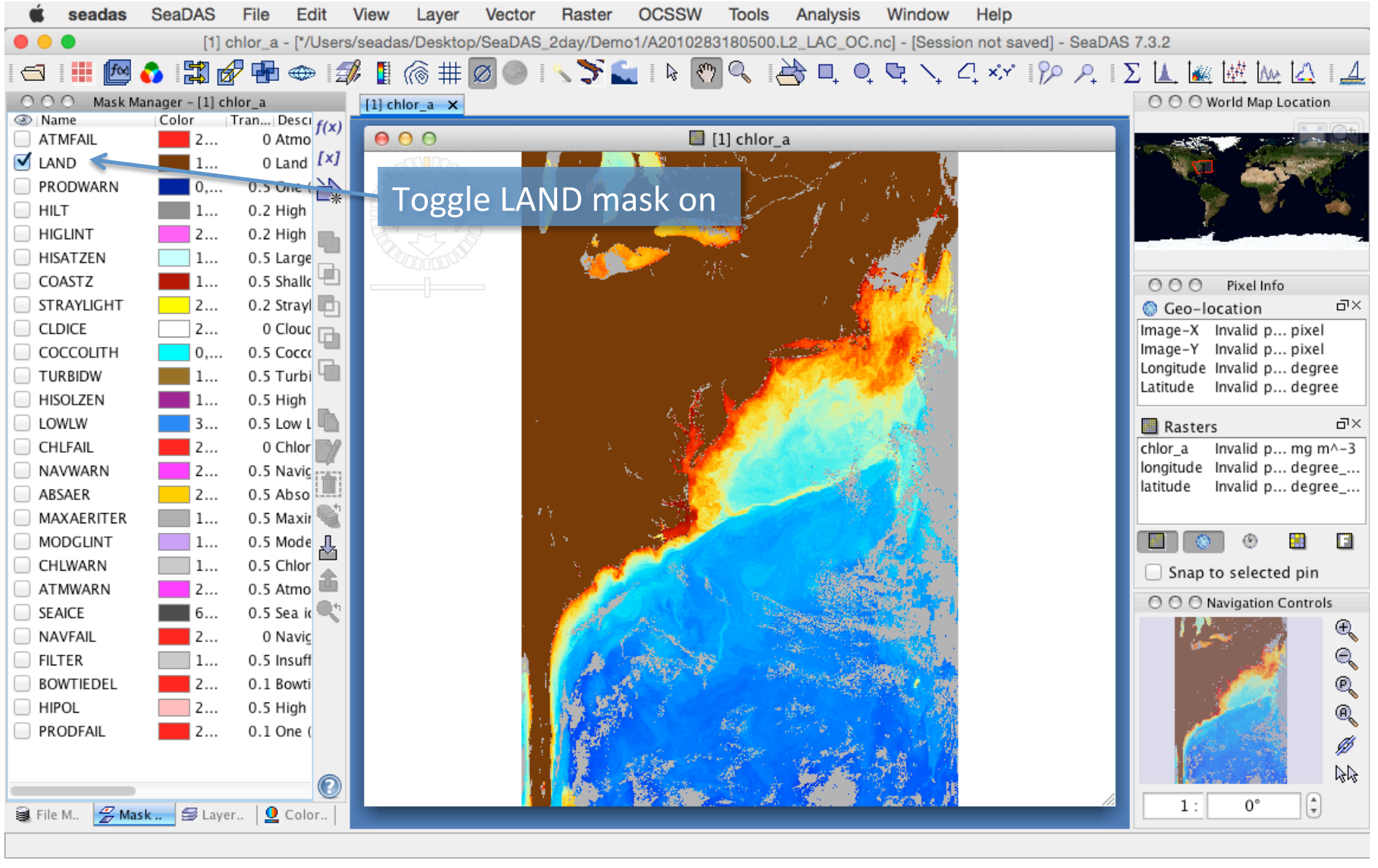


Add Land Mask (Default Level-2)

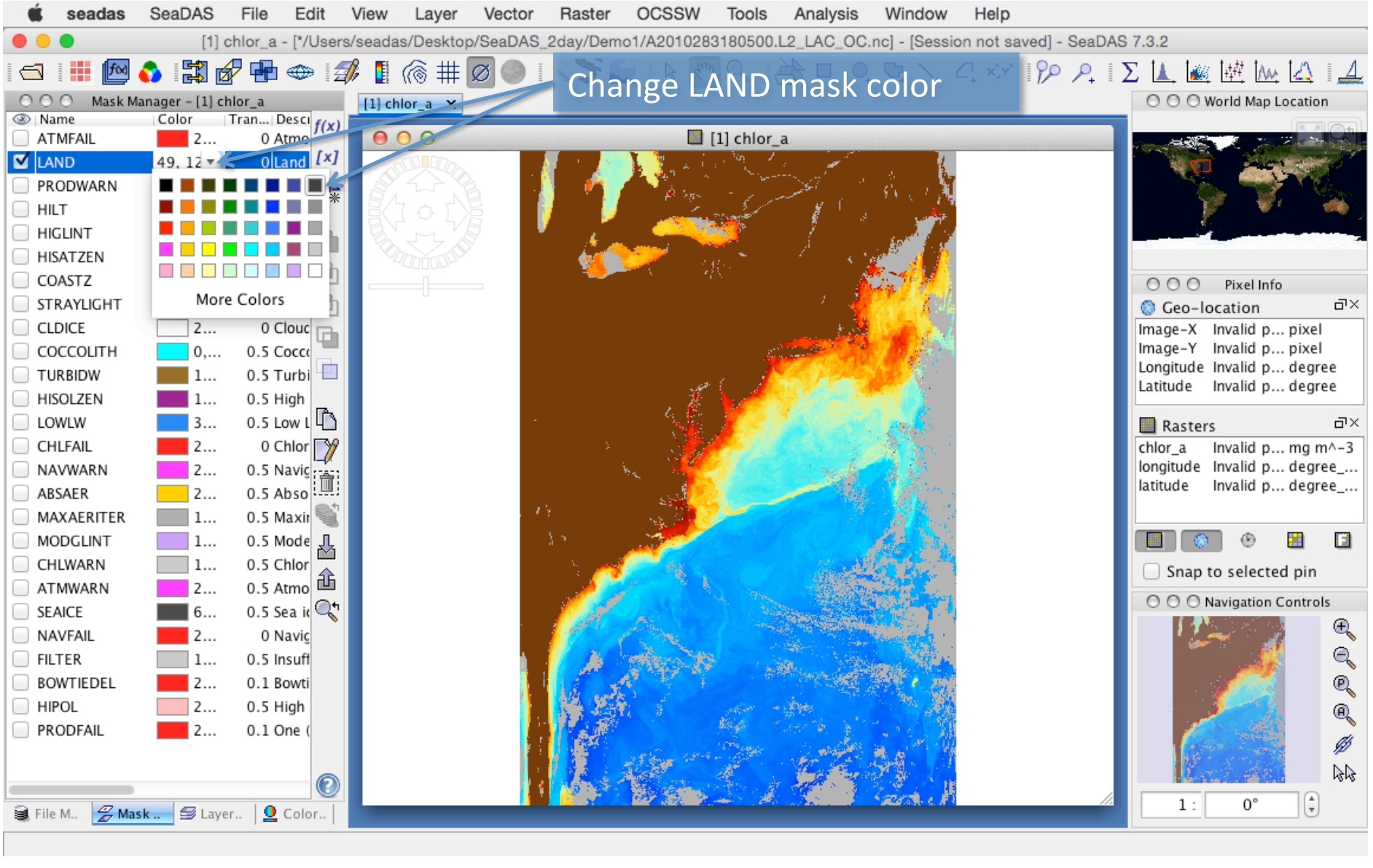


View “Mask Manager”

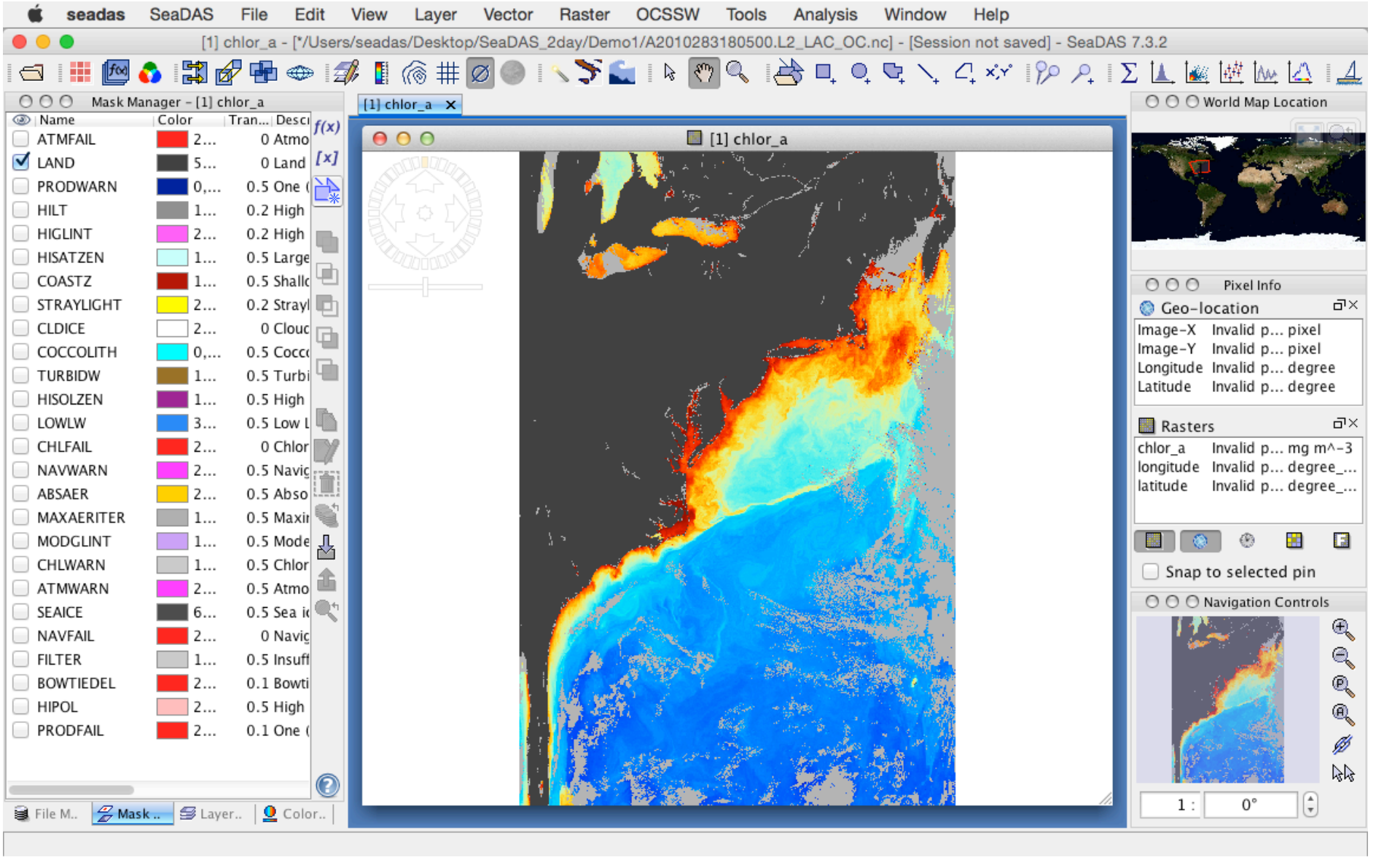
Add Land Mask (Default Level-2)



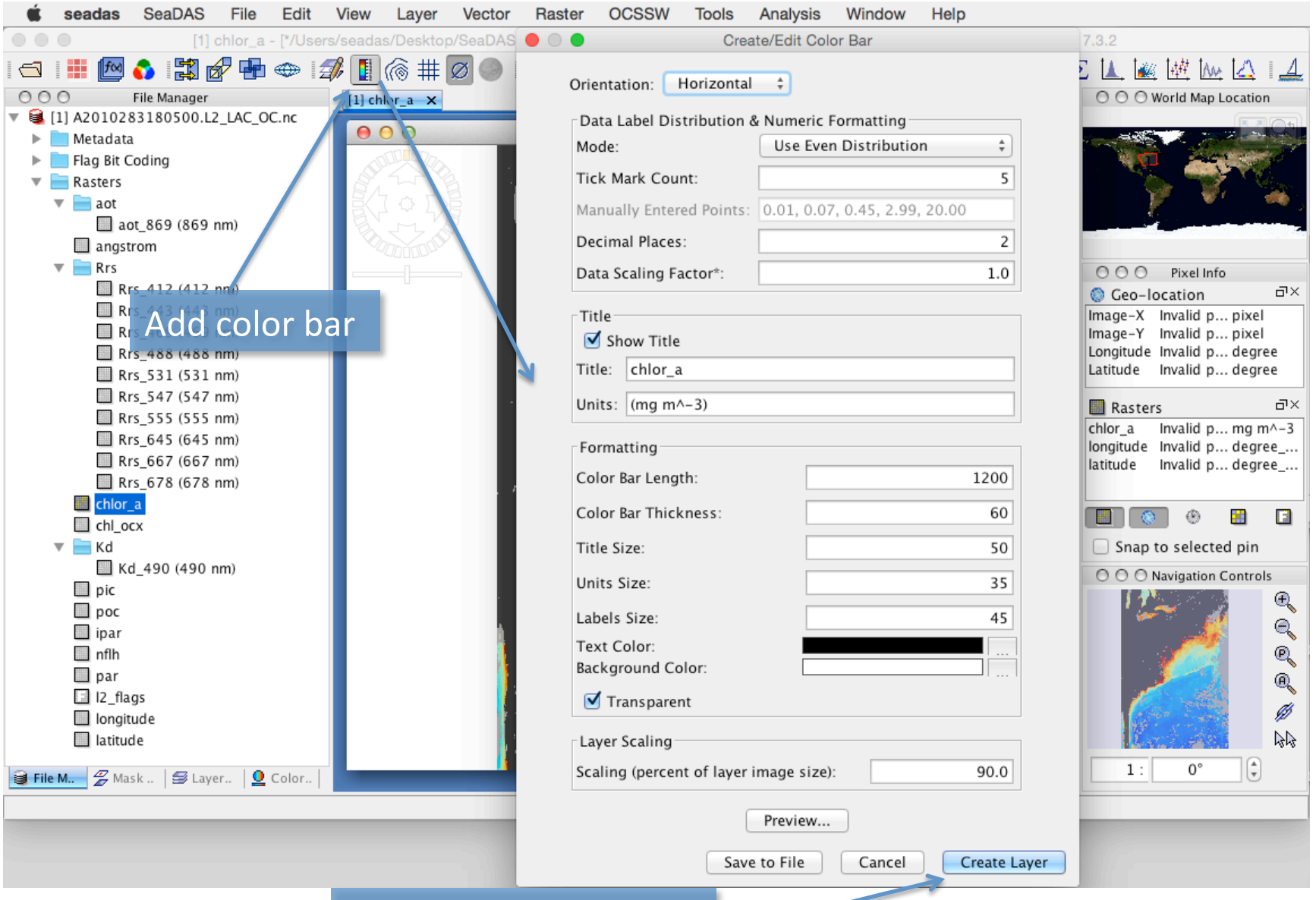
Change Land Mask Color



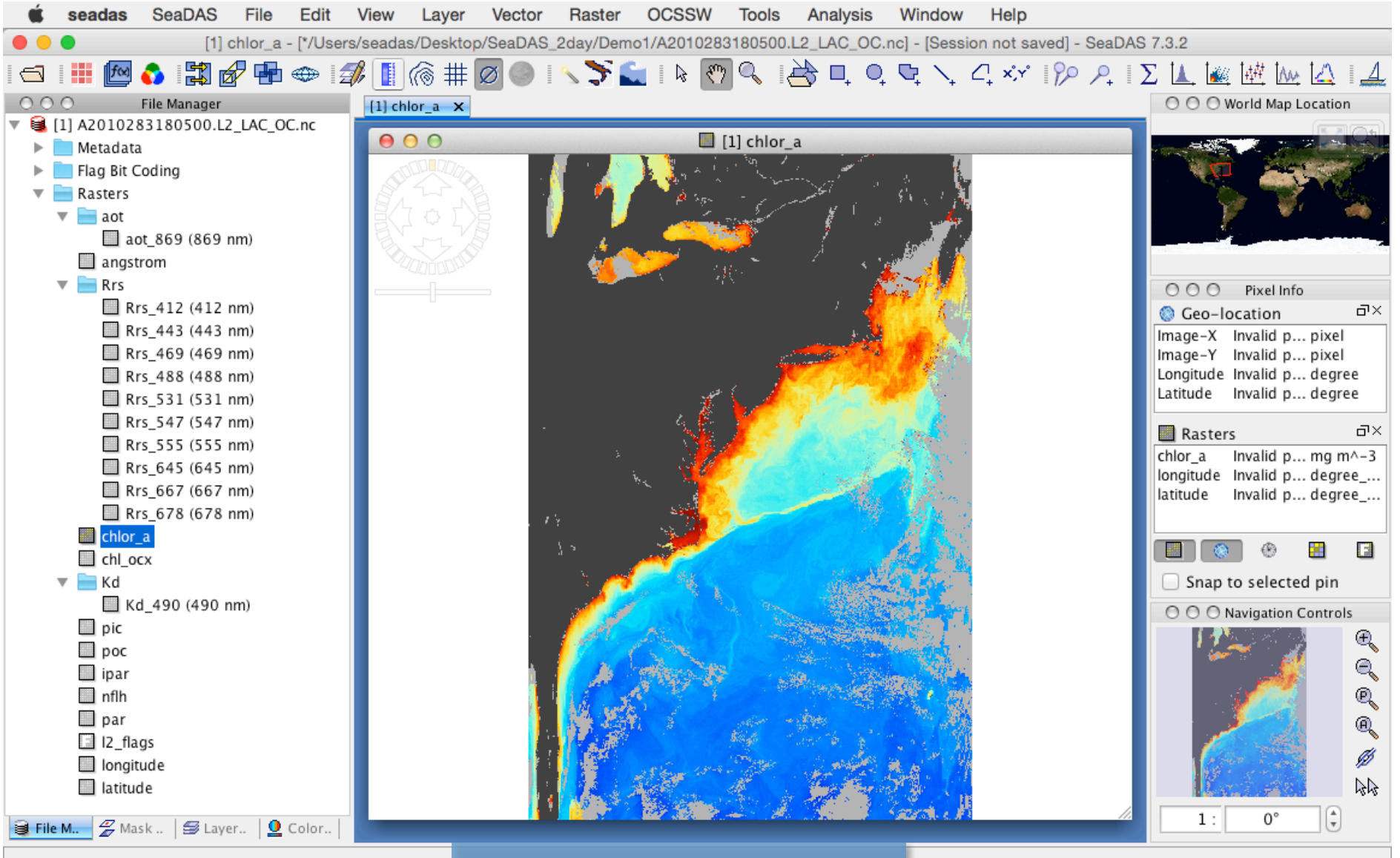
Change Land Mask Color



Add Color Bar

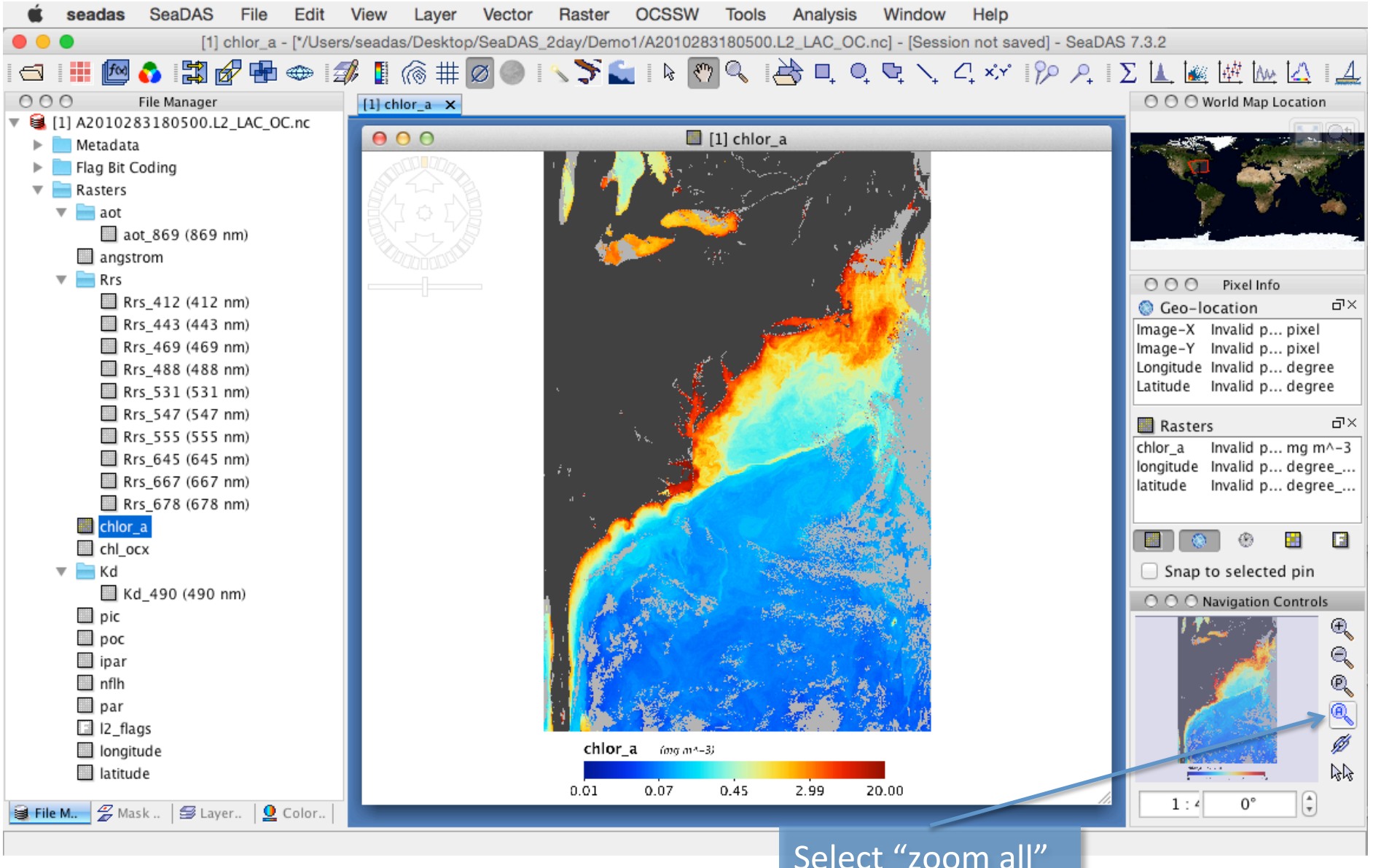


Add Color Bar

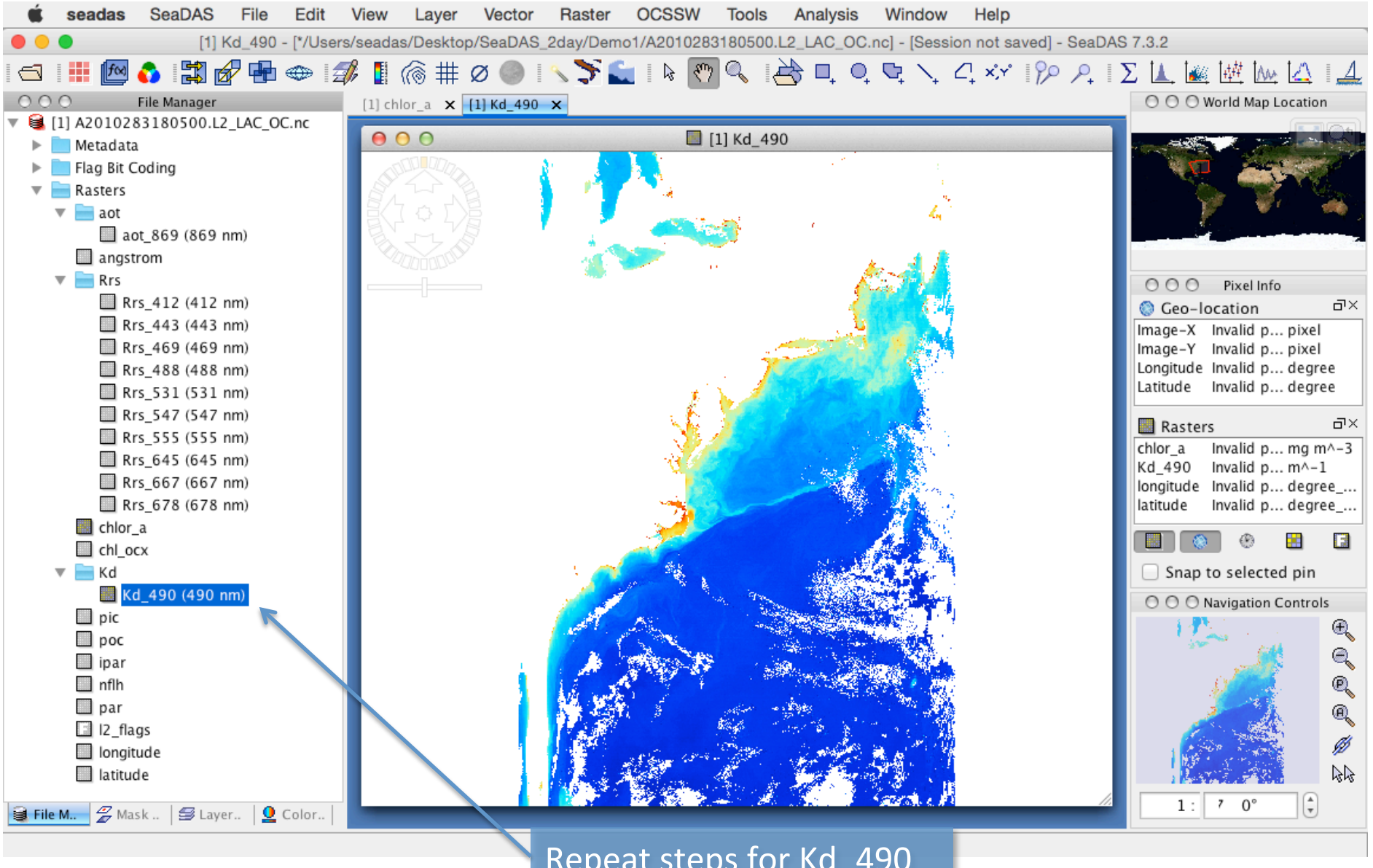


NOTE: color bar not visible

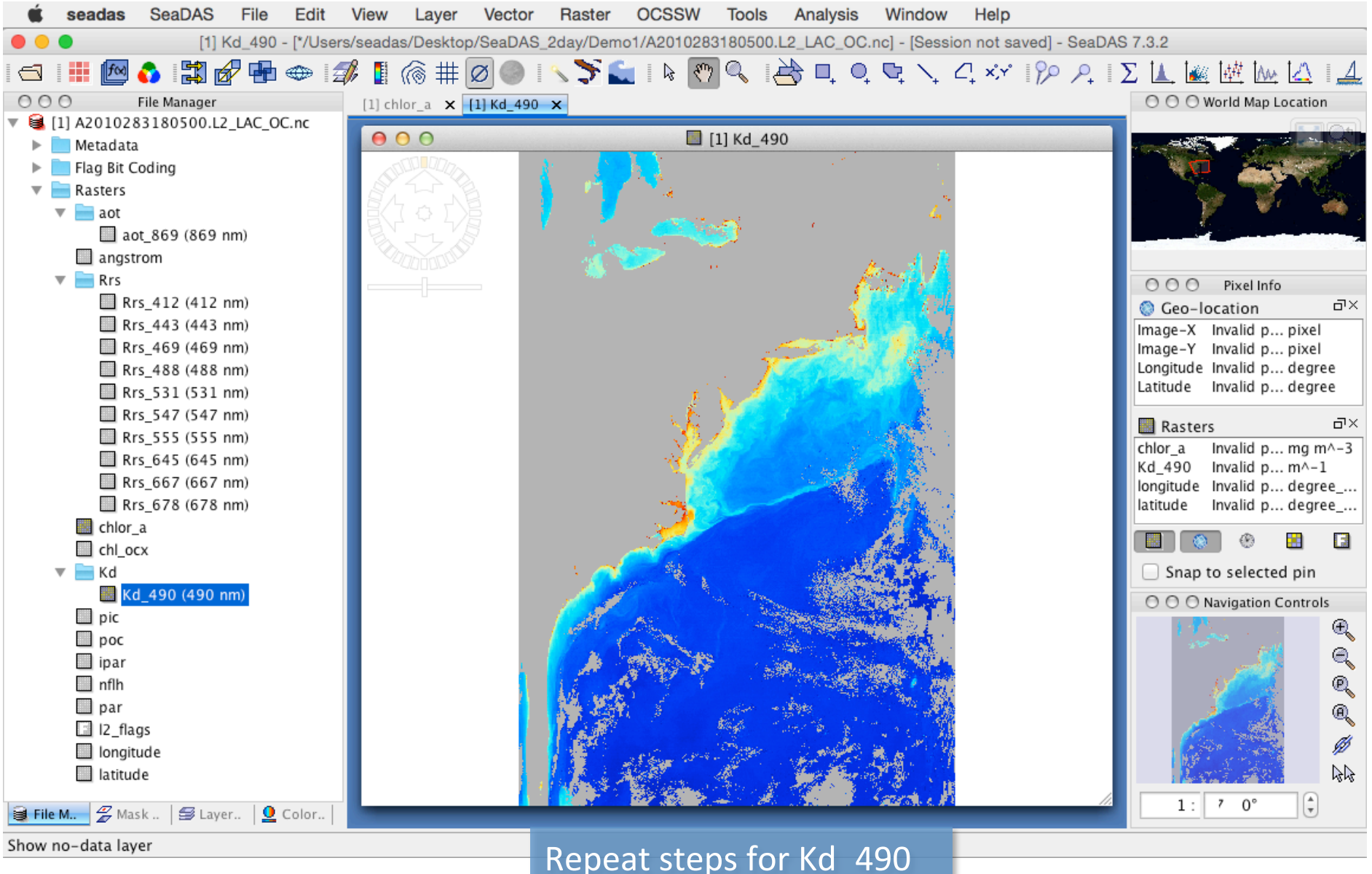
Add Color Bar



Repeat Steps for Kd_490



Repeat Steps for Kd_490



Repeat steps for Kd_490

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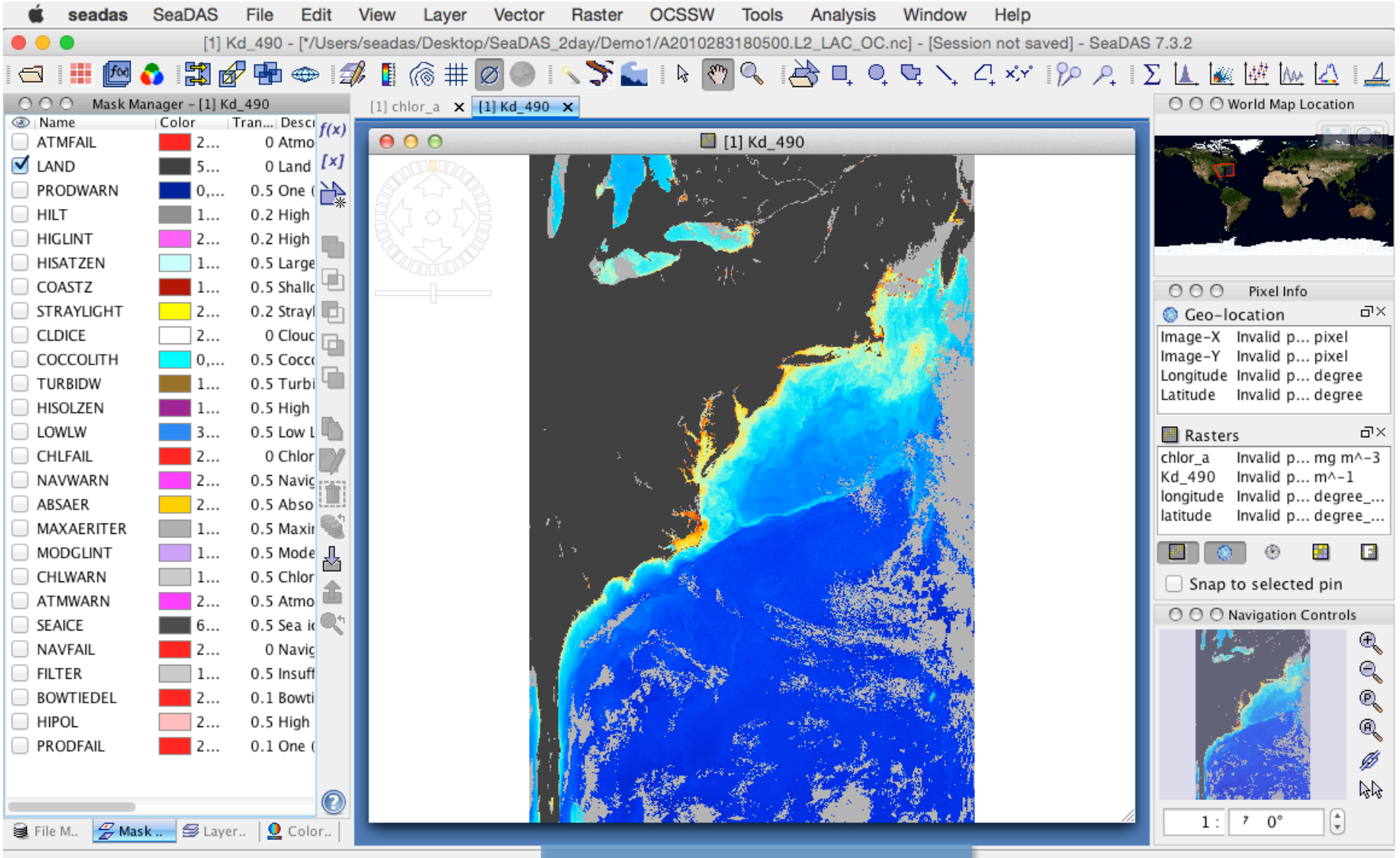
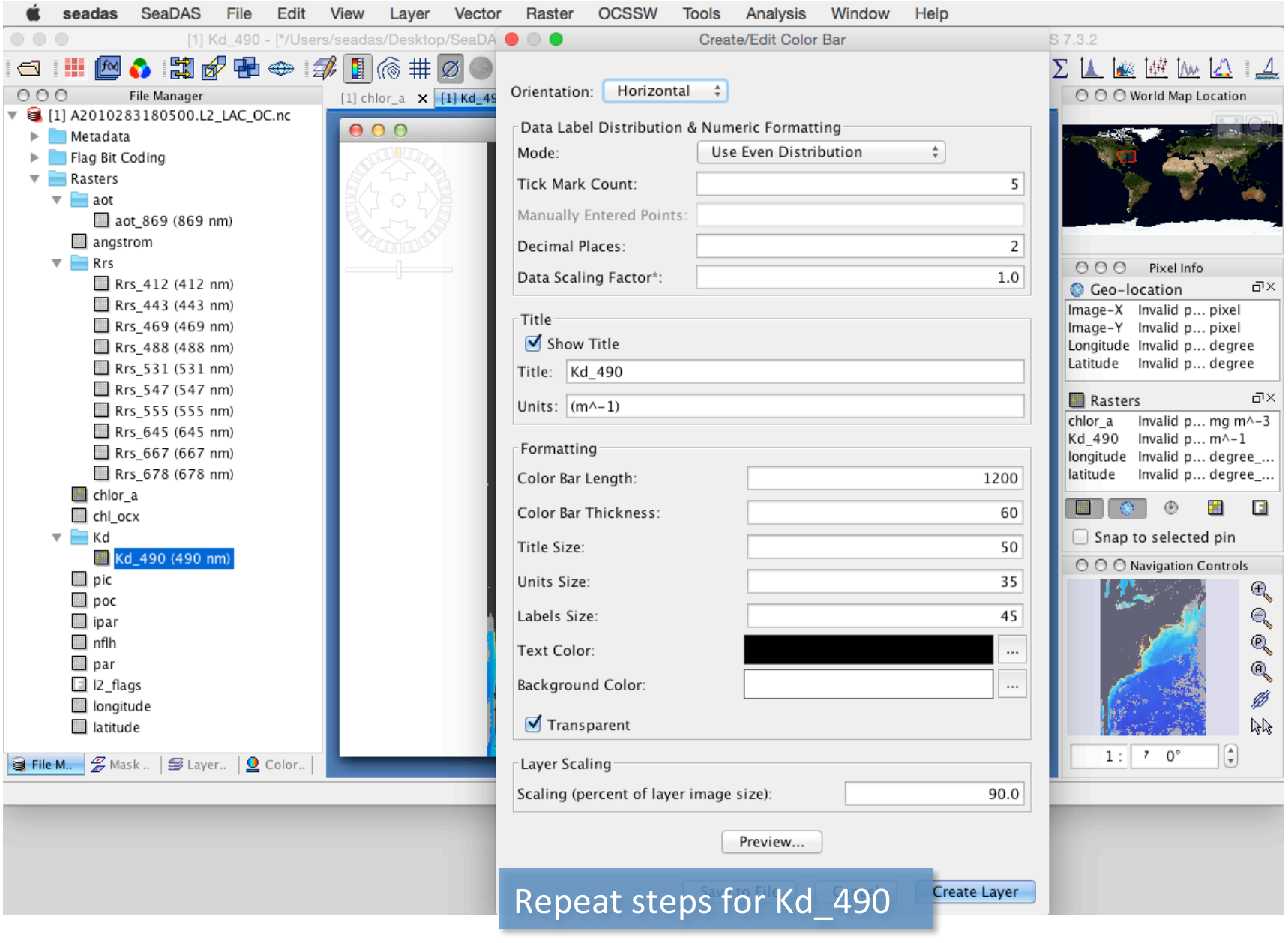
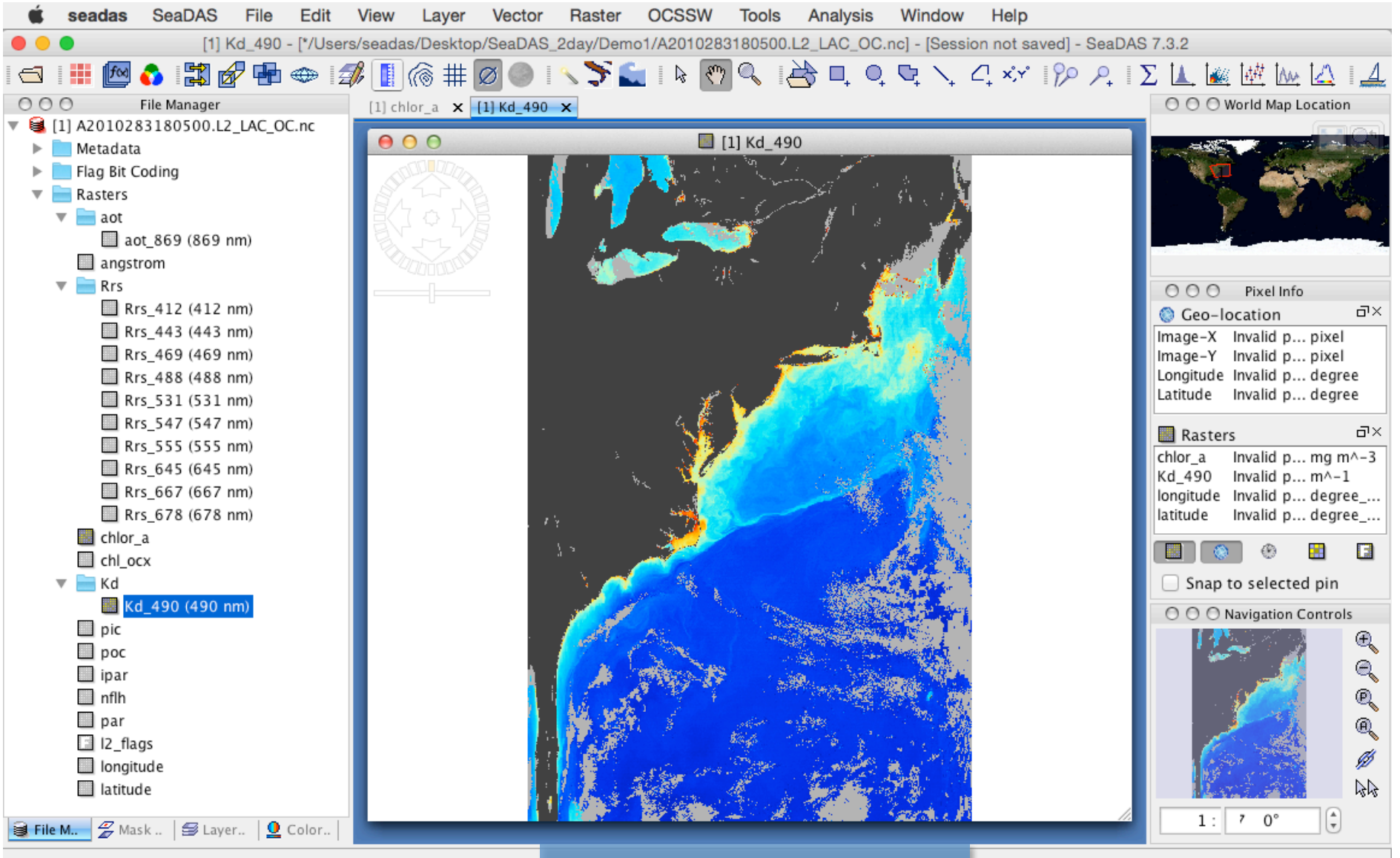


Repeat steps for Kd_490

Repeat Steps for Kd_490

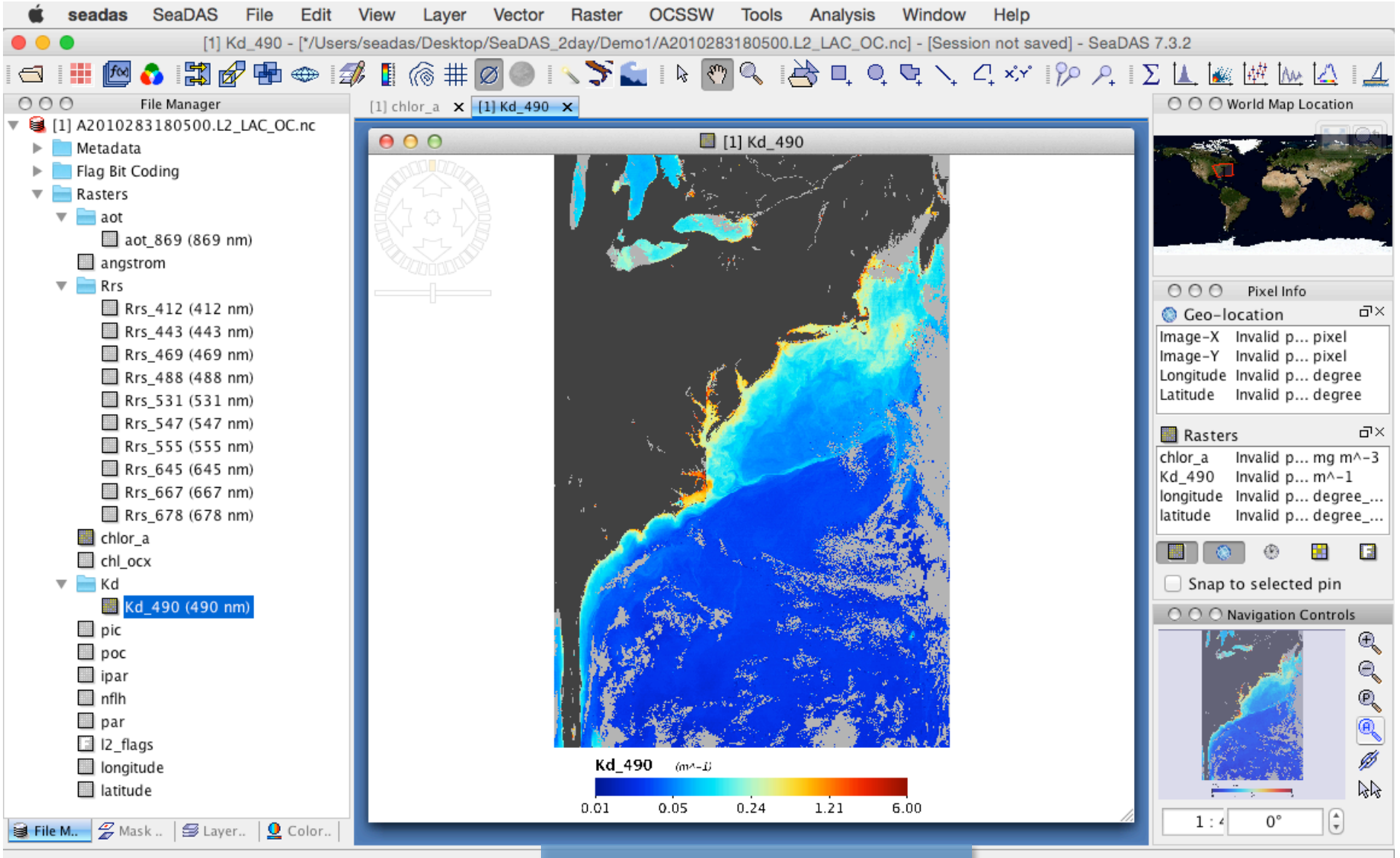


Repeat Steps for Kd_490



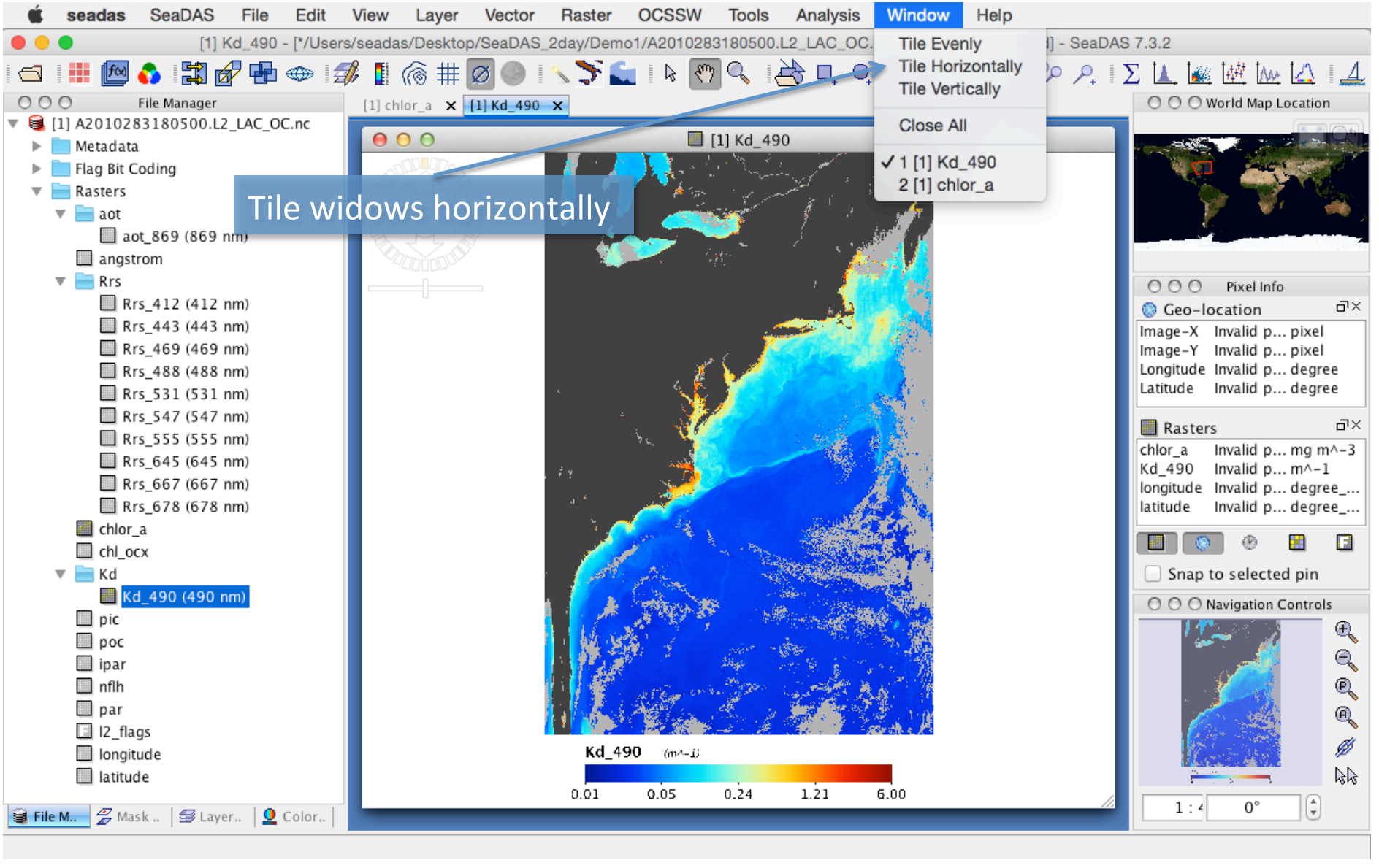
Repeat steps for Kd_490

Repeat Steps for Kd_490

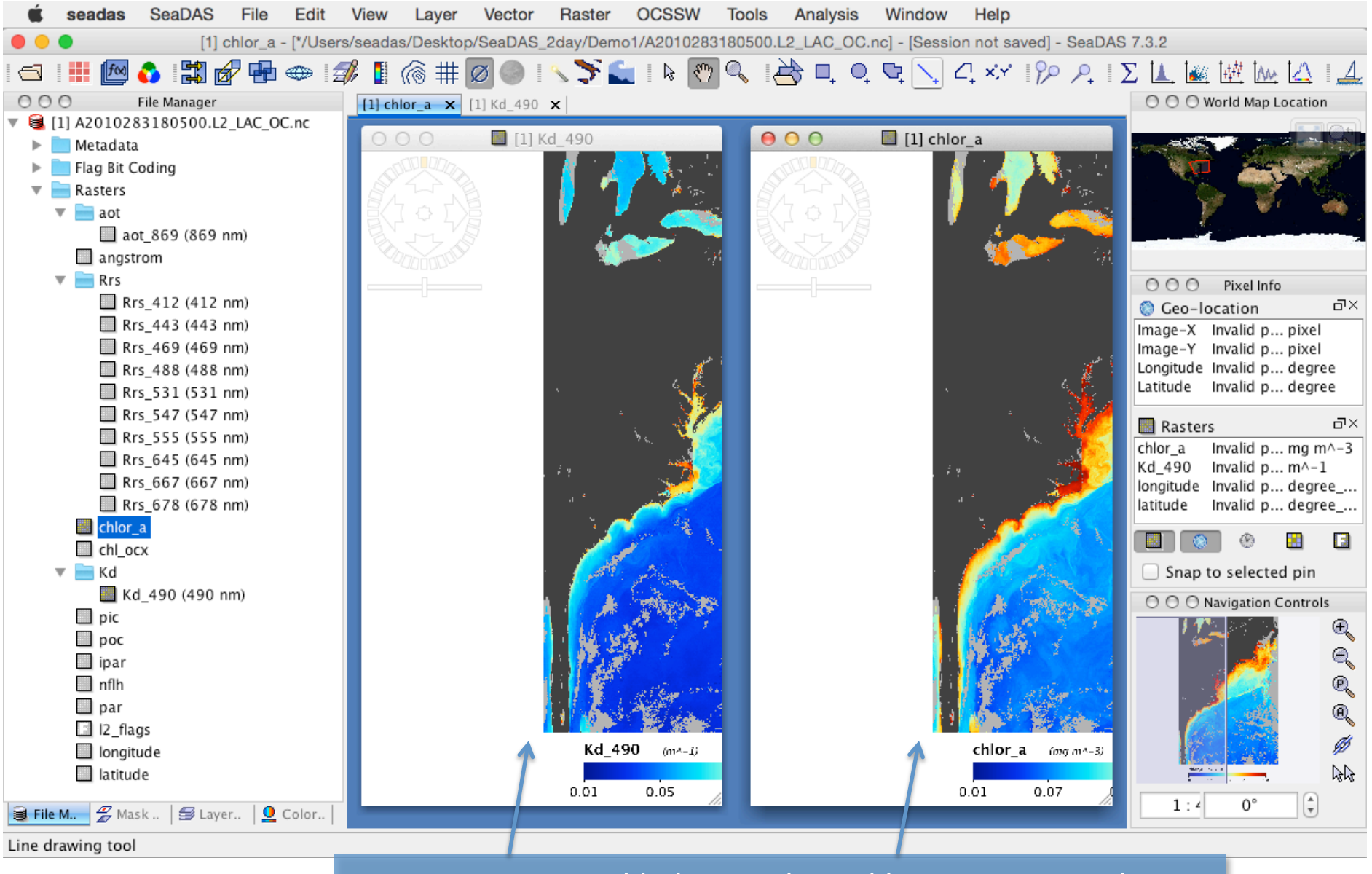


Repeat steps for Kd_490

View Synchronized Windows

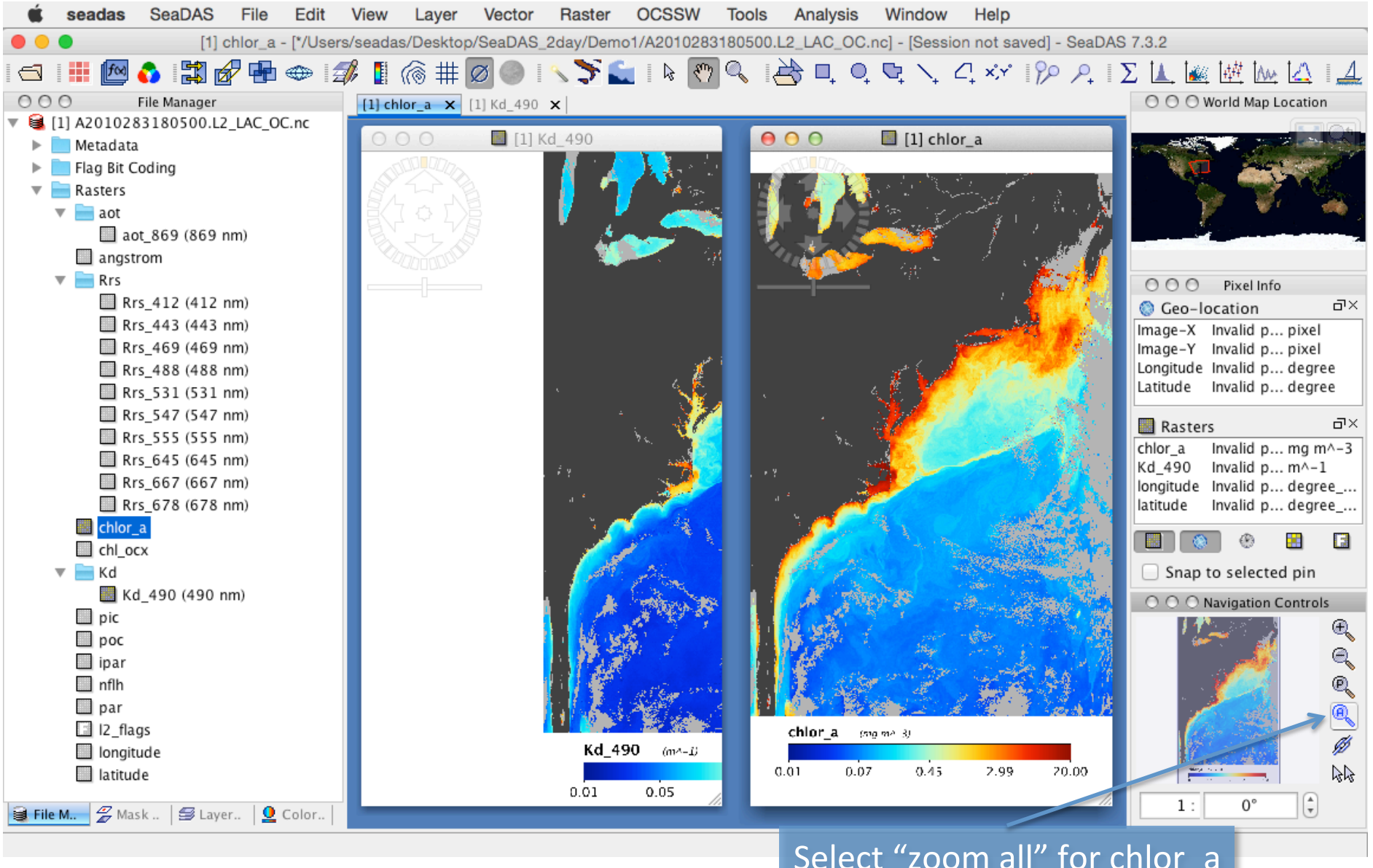


View Synchronized Windows

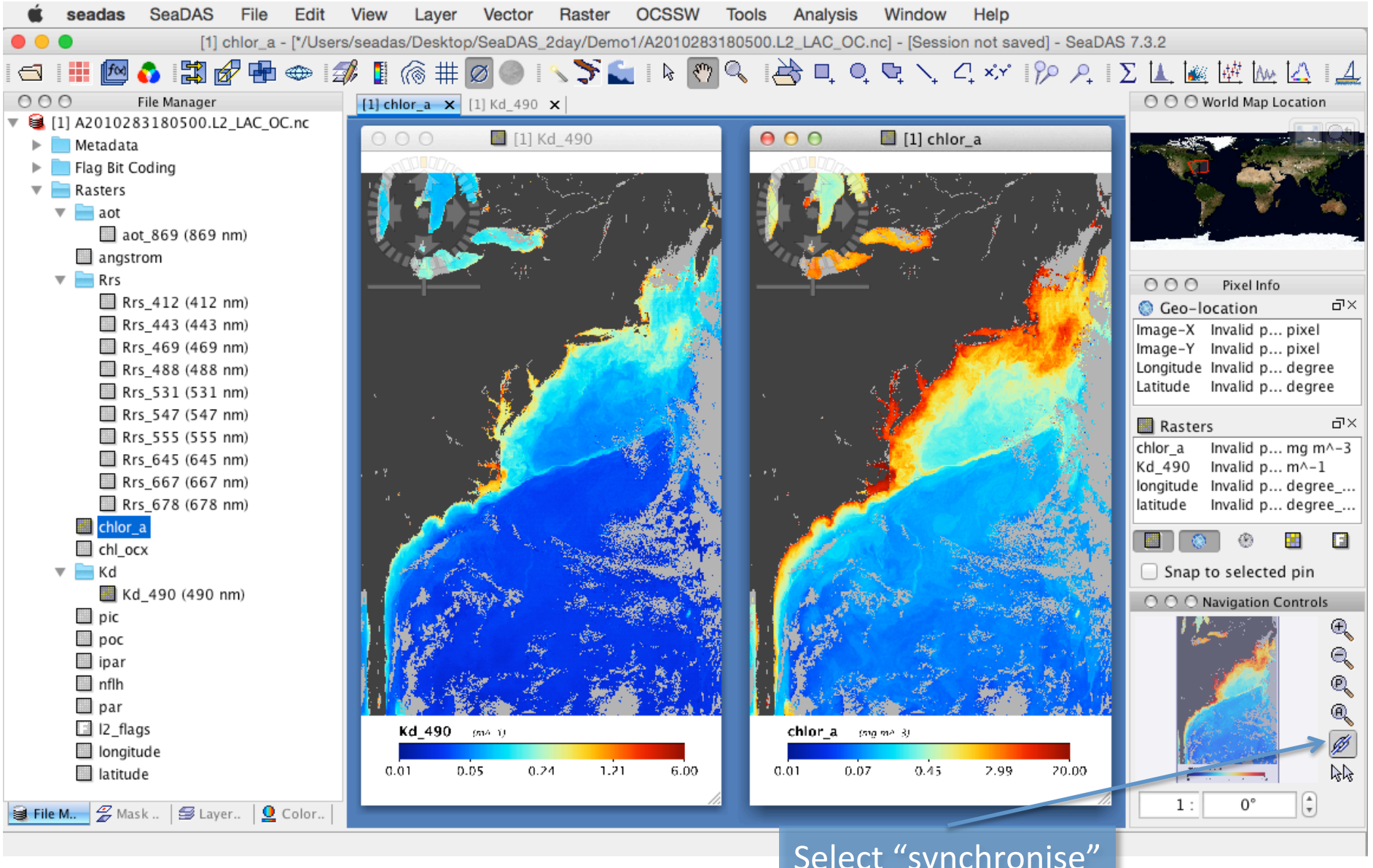


NOTE: images are likely not aligned how you want them

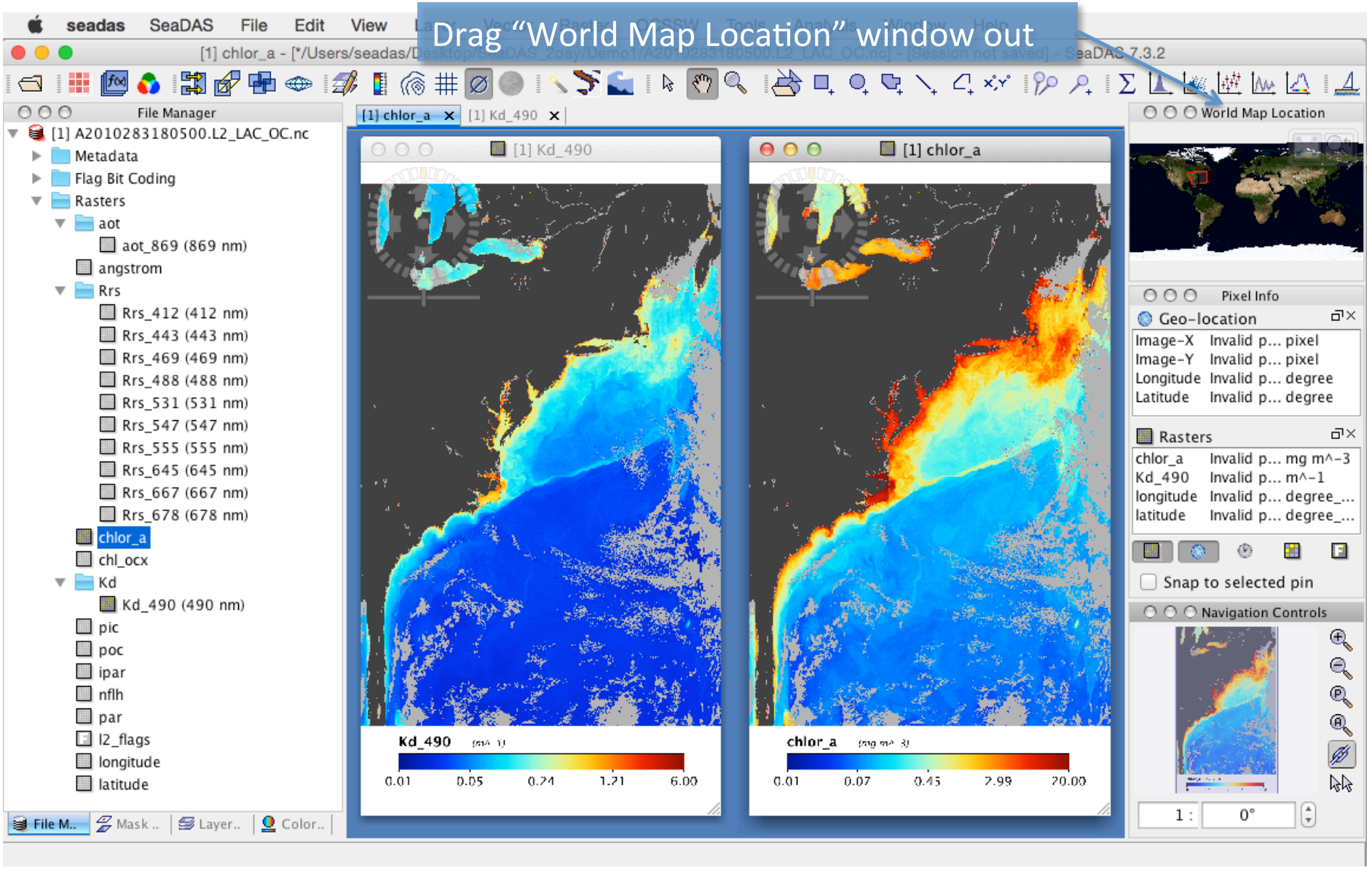
View Synchronized Windows



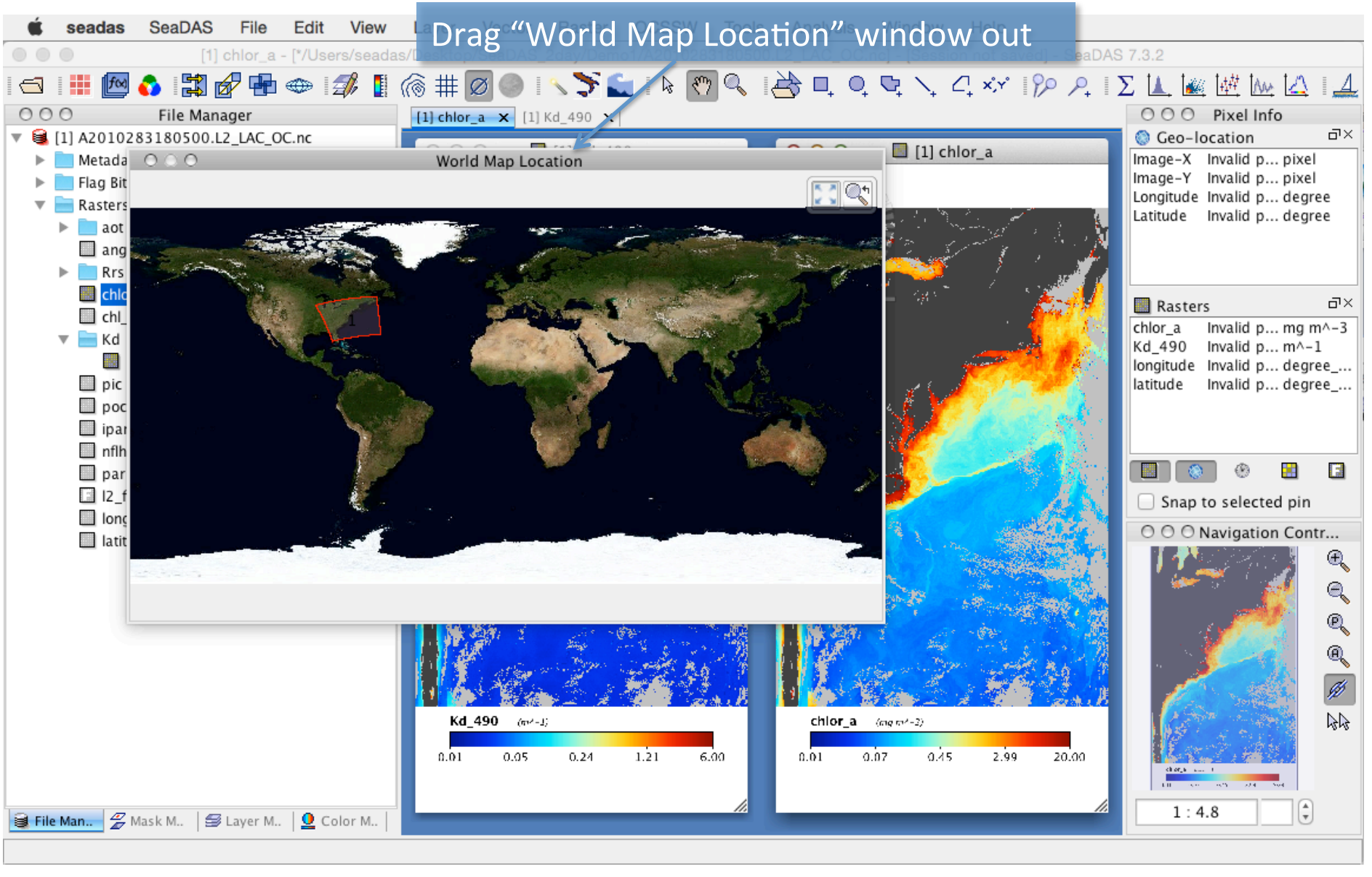
View Synchronized Windows



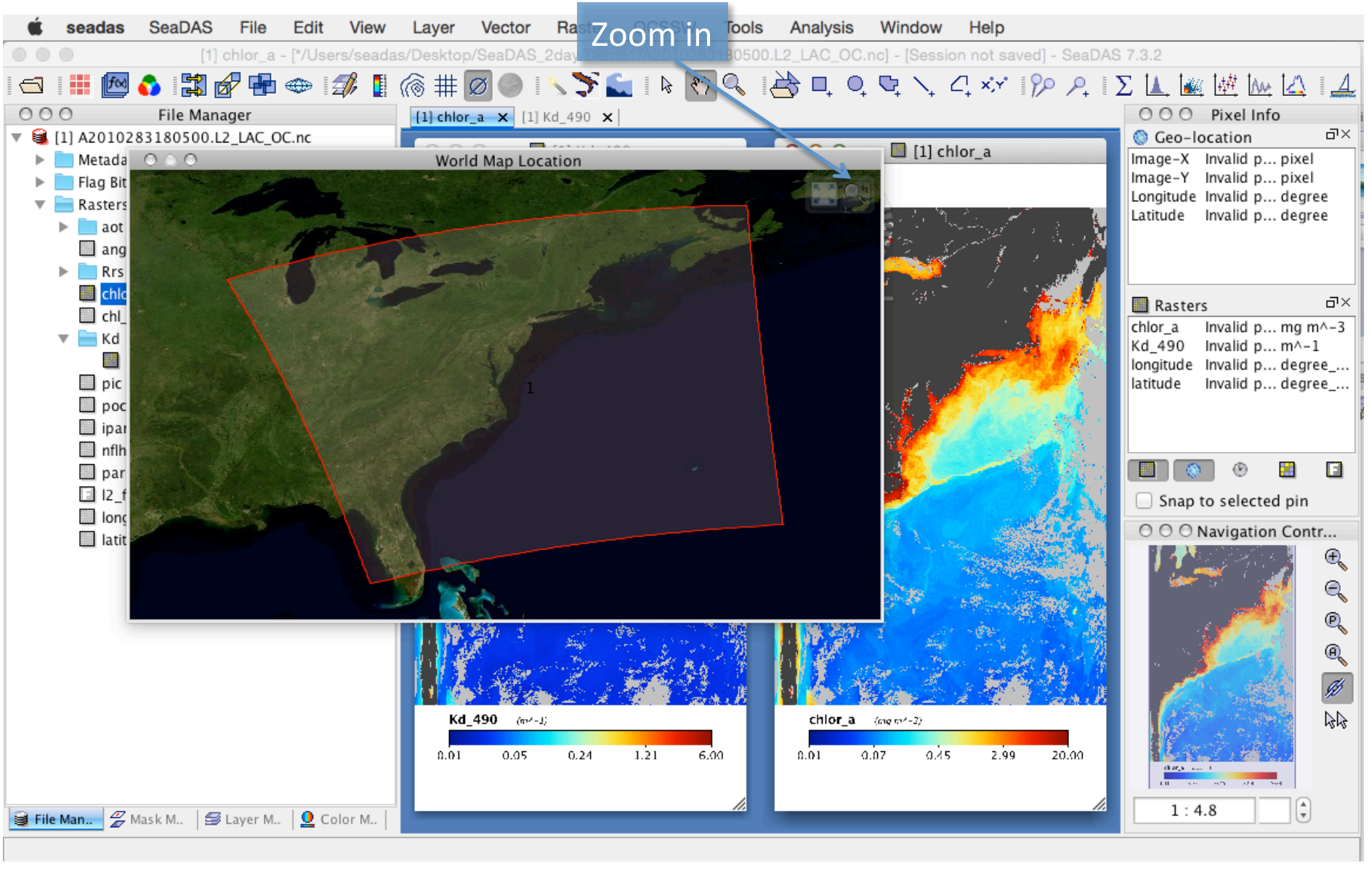
Map Location Tool Window



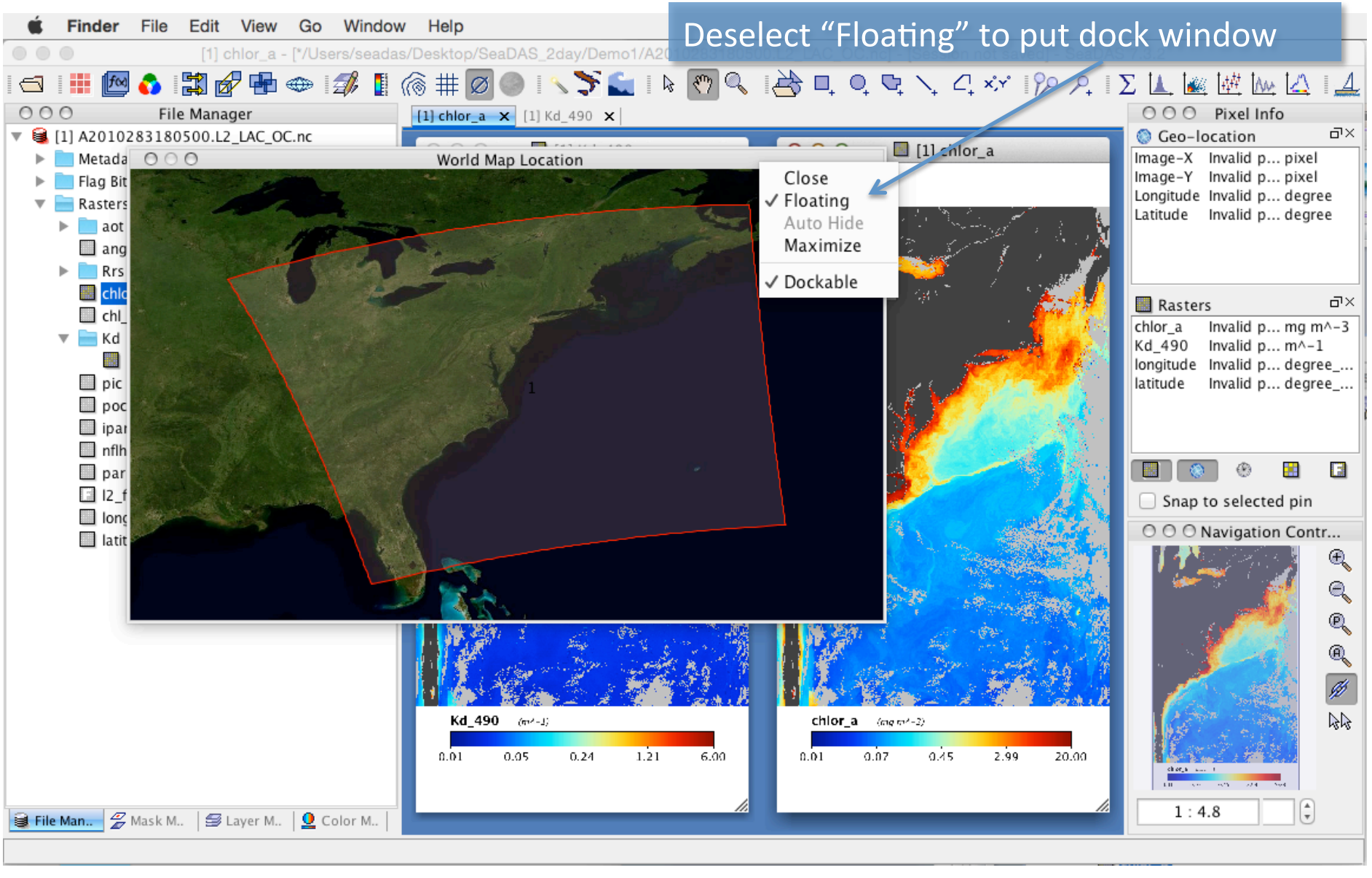
Map Location Tool Window



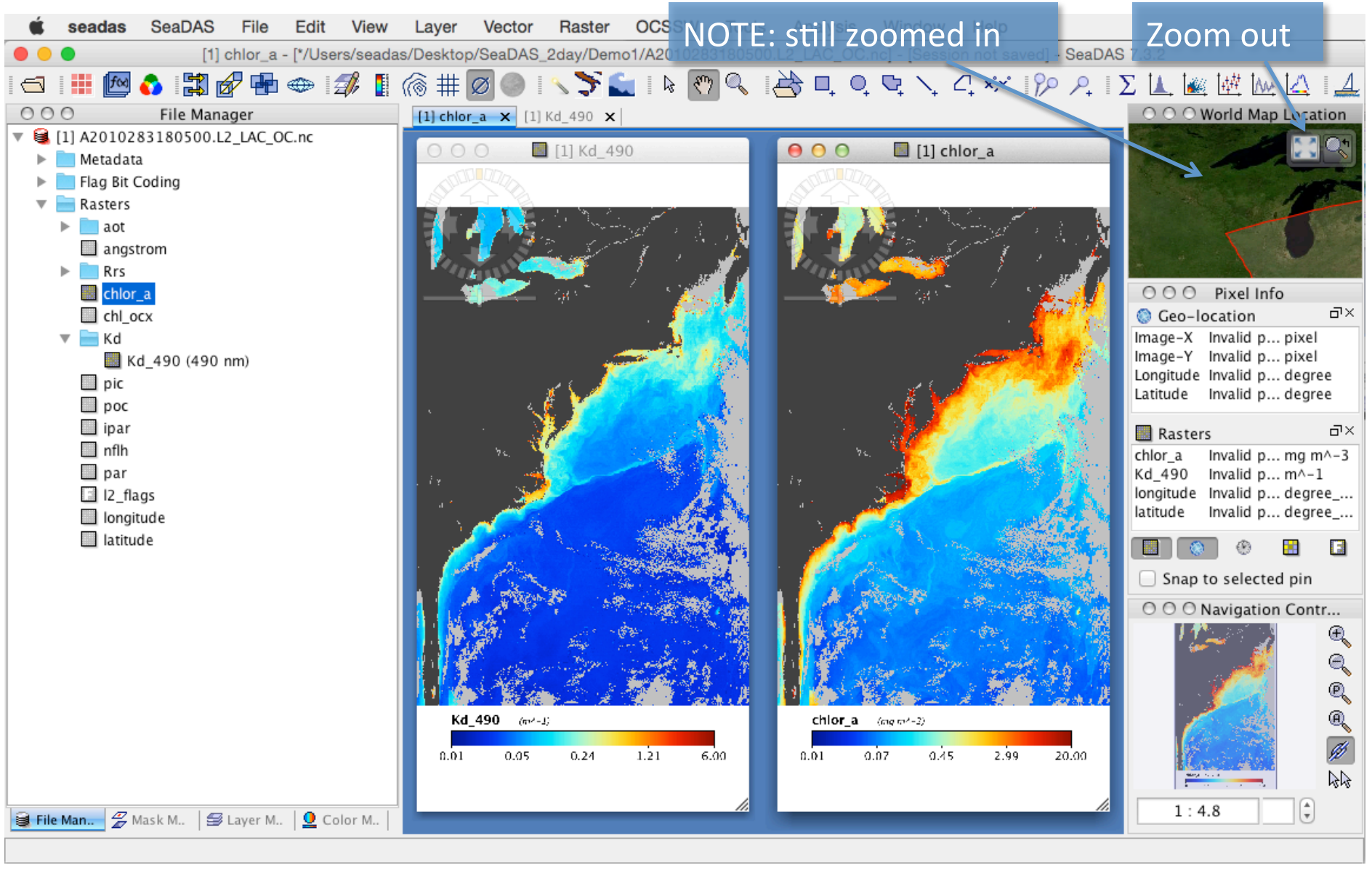
Map Location Tool Window



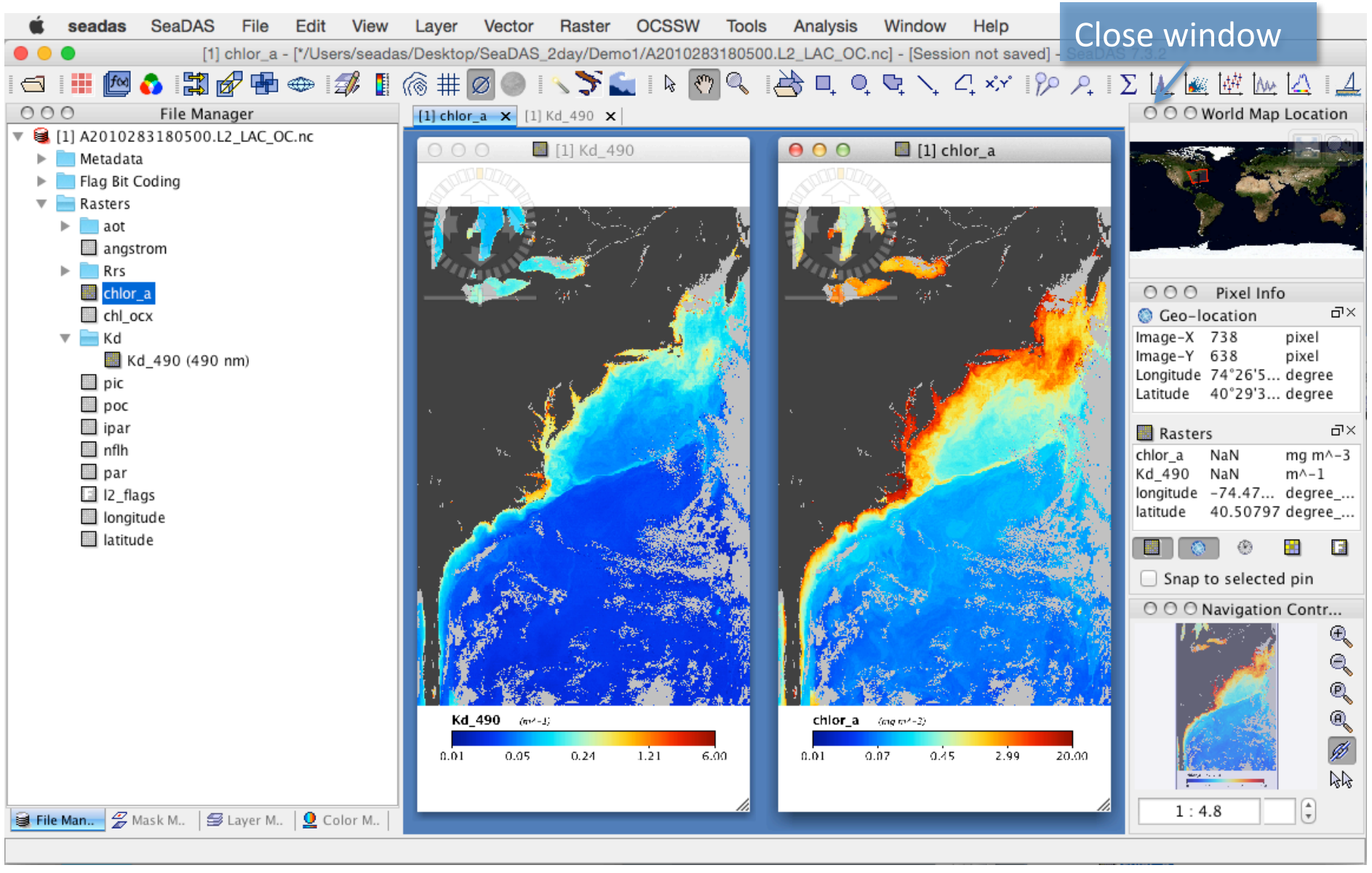
Map Location Tool Window



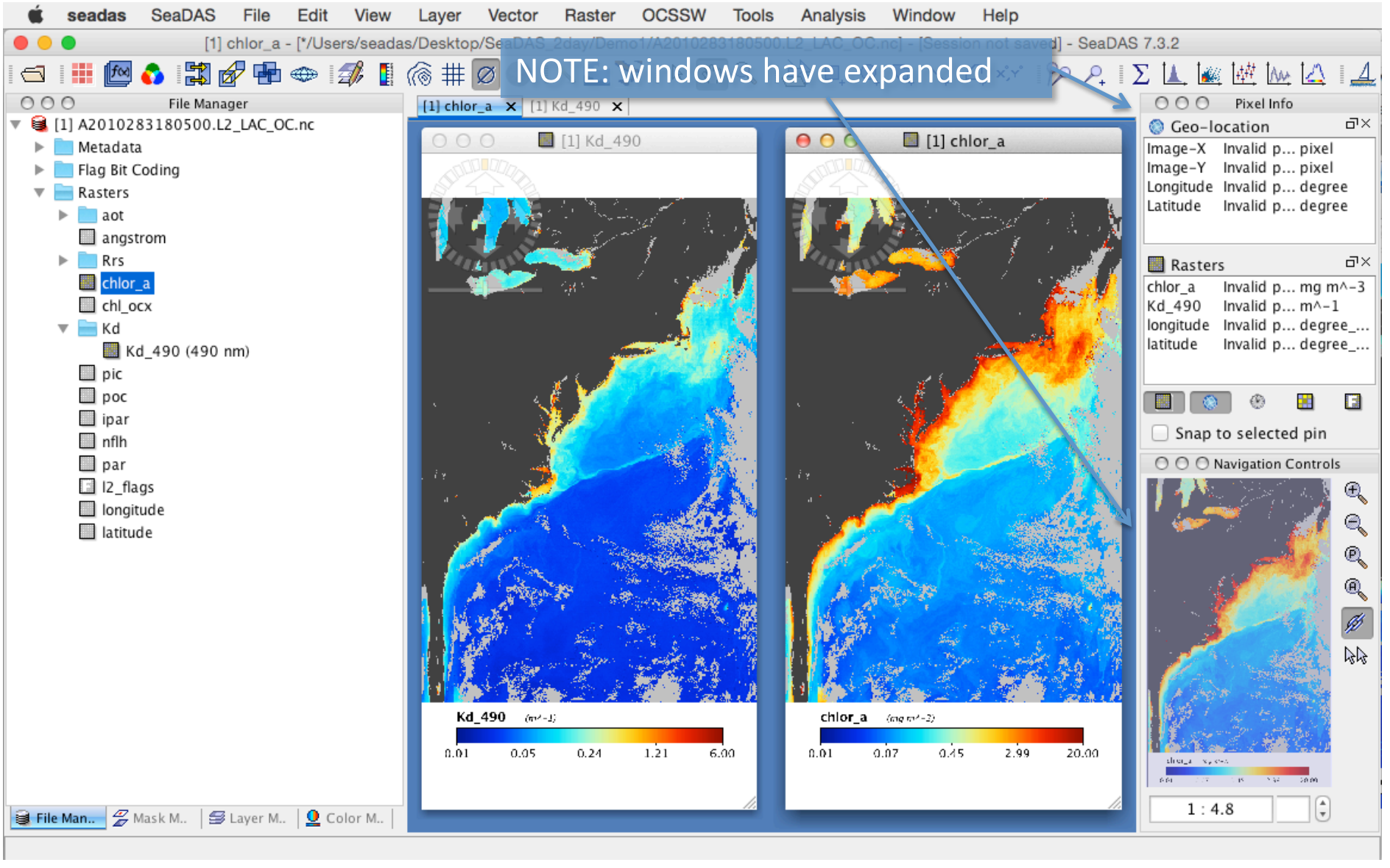
Map Location Tool Window



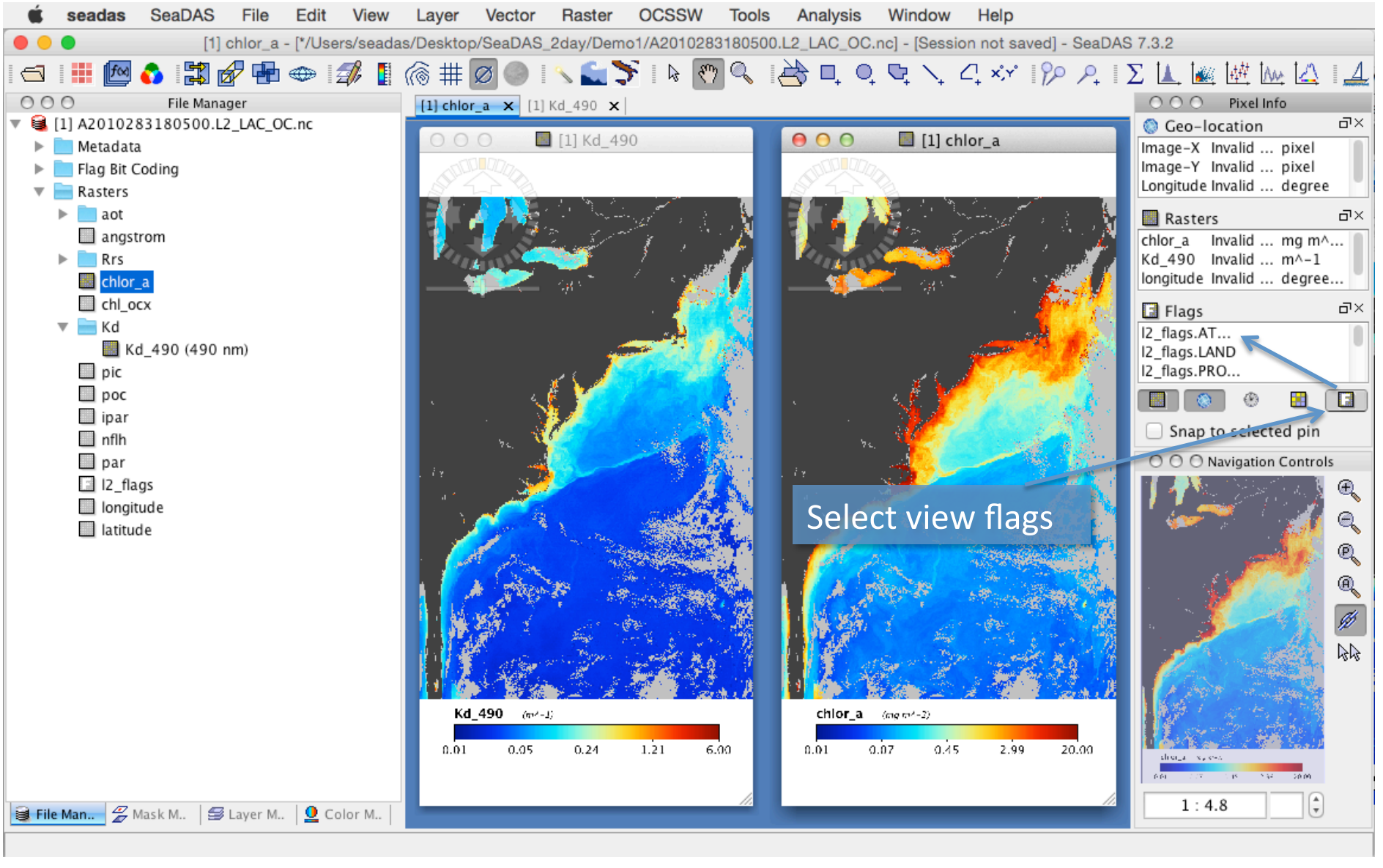
Flags


Close window
seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] chlor_a - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved]
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
File Man..
Mask M..
Layer M..
Color M..
[1] chlor_a
[1] Kd_490
[1] Kd_490
Kd_490
0.01 0.05 0.24 1.21 6.00
[1] chlor_a
chlor_a
0.01 0.07 0.45 2.99 20.00
World Map Location
Pixel Info
Geo-location
Image-X 738 pixel
Image-Y 638 pixel
Longitude 74°26'5... degree
Latitude 40°29'3... degree
Rasters
chlor_a NaN mg m^-3
Kd_490 NaN m^-1
longitude -74.47... degree_...
latitude 40.50797 degree_...
Snap to selected pin
Navigation Contr...
1 : 4.8

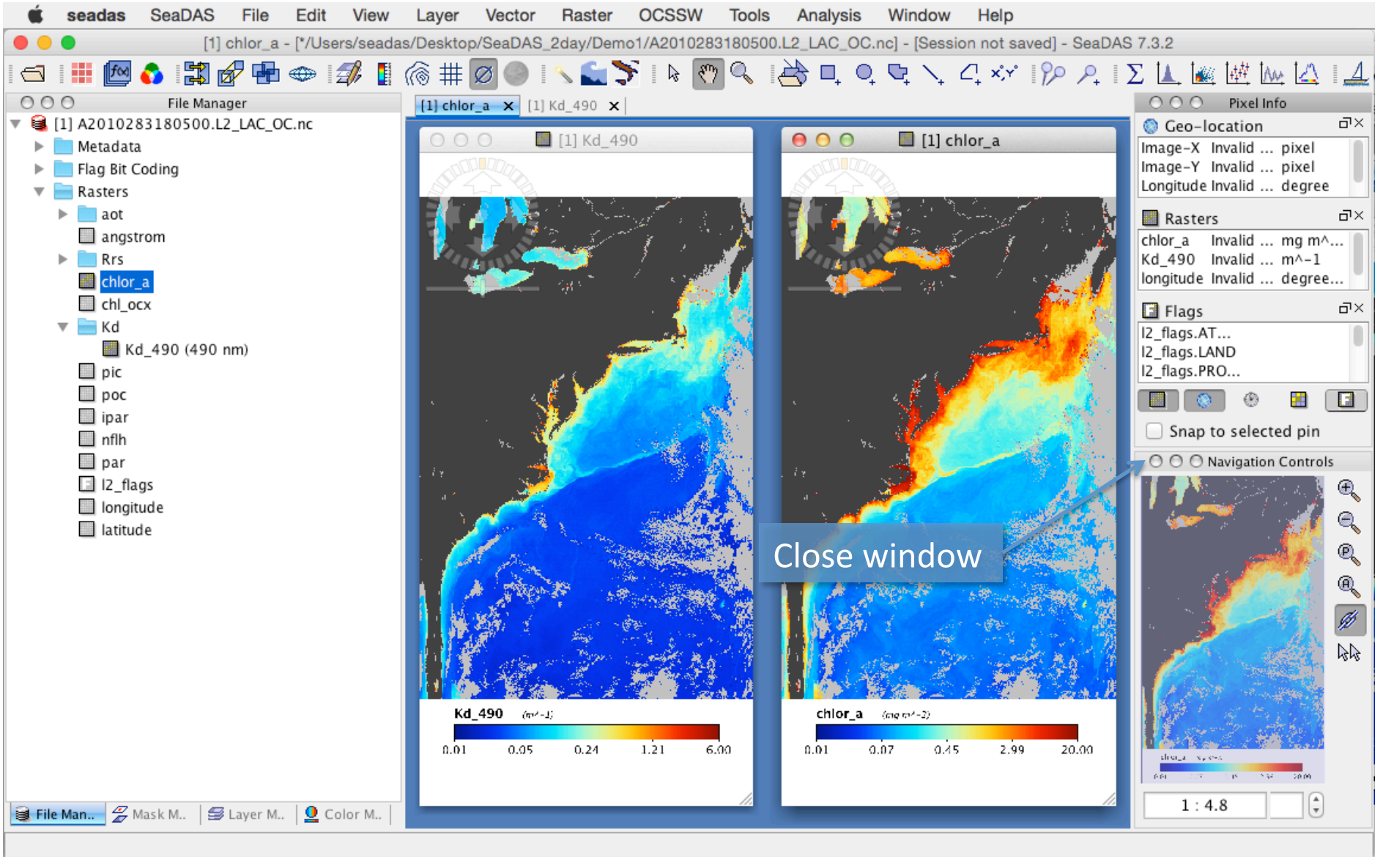
Flags


NOTE: windows have expanded
seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
[1] chlor_a
[1] Kd_490
Kd_490
0.01 0.05 0.24 1.21 6.00
chlor_a
0.01 0.07 0.45 2.99 20.00
Pixel Info
Geo-location
Image-X Invalid p... pixel
Image-Y Invalid p... pixel
Longitude Invalid p... degree
Latitude Invalid p... degree
Rasters
chlor_a Invalid p... mg m^-3
Kd_490 Invalid p... m^-1
longitude Invalid p... degree_...
latitude Invalid p... degree_...
Snap to selected pin
Navigation Controls
1 : 4.8
File Man..
Mask M..
Layer M..
Color M..

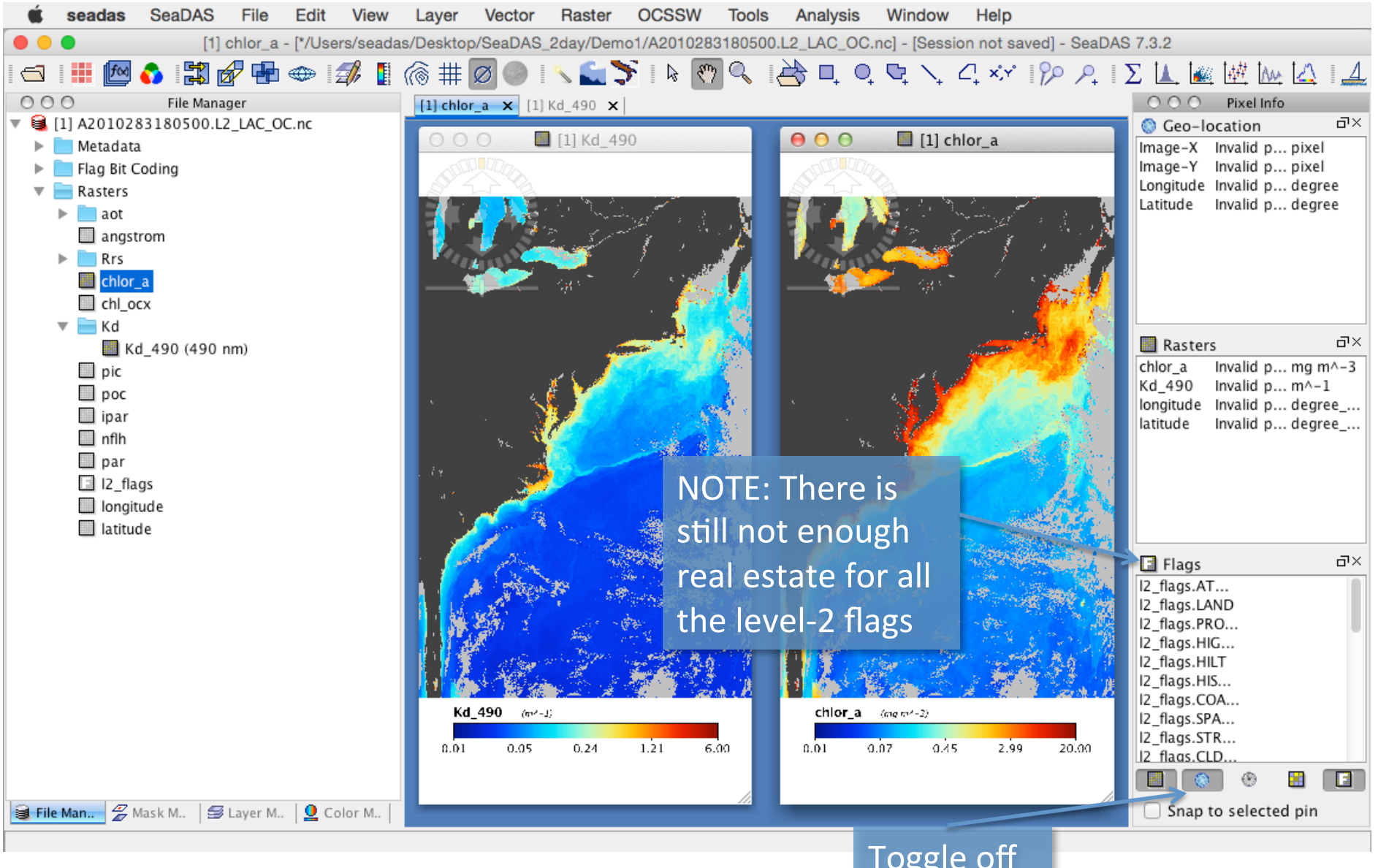
Flags


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] chlor_a - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
File Man..
Mask M..
Layer M..
Color M..
[1] chlor_a
[1] Kd_490
[1] Kd_490
Kd_490
0.01 0.05 0.24 1.21 6.00
[1] chlor_a
chlor_a
0.01 0.07 0.45 2.99 20.00
Pixel Info
Geo-location
Image-X Invalid ... pixel
Image-Y Invalid ... pixel
Longitude Invalid ... degree
Rasters
chlor_a Invalid ... mg m^...
Kd_490 Invalid ... m^-1
longitude Invalid ... degree...
Flags
l2_flags.AT...
l2_flags.LAND
l2_flags.PRO...
Snap to selected pin
Navigation Controls
1 : 4.8
Select view flags

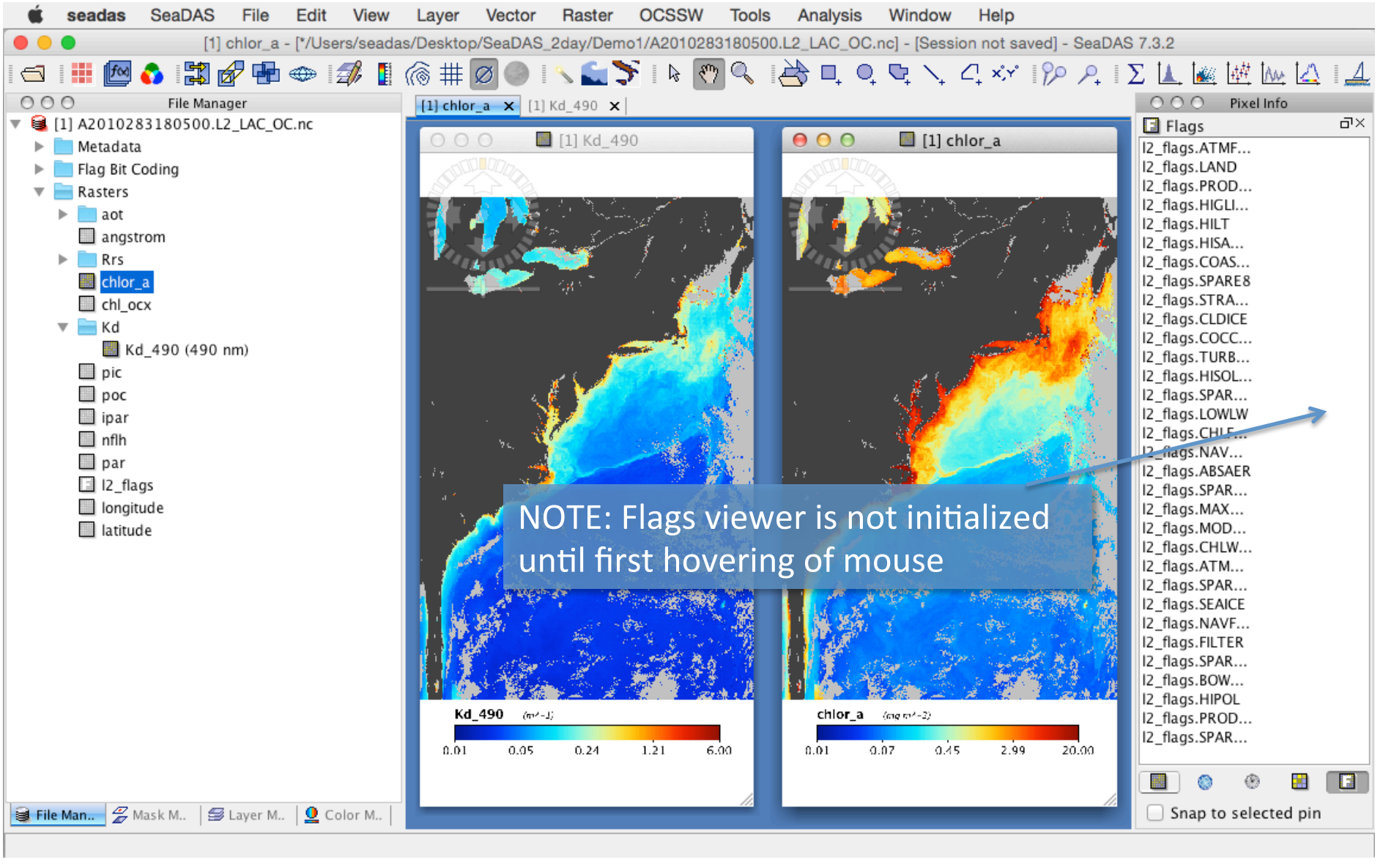
Flags


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] chlor_a - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
[1] chlor_a
[1] Kd_490
[1] Kd_490
[1] chlor_a
Kd_490
0.01 0.05 0.24 1.21 6.00
chlor_a
0.01 0.07 0.45 2.99 20.00
Close window
Pixel Info
Geo-location
Image-X Invalid ... pixel
Image-Y Invalid ... pixel
Longitude Invalid ... degree
Rasters
chlor_a Invalid ... mg m^...
Kd_490 Invalid ... m^-1
longitude Invalid ... degree...
Flags
l2_flags.AT...
l2_flags.LAND
l2_flags.PRO...
Snap to selected pin
Navigation Controls
1 : 4.8
File Man..
Mask M..
Layer M..
Color M..

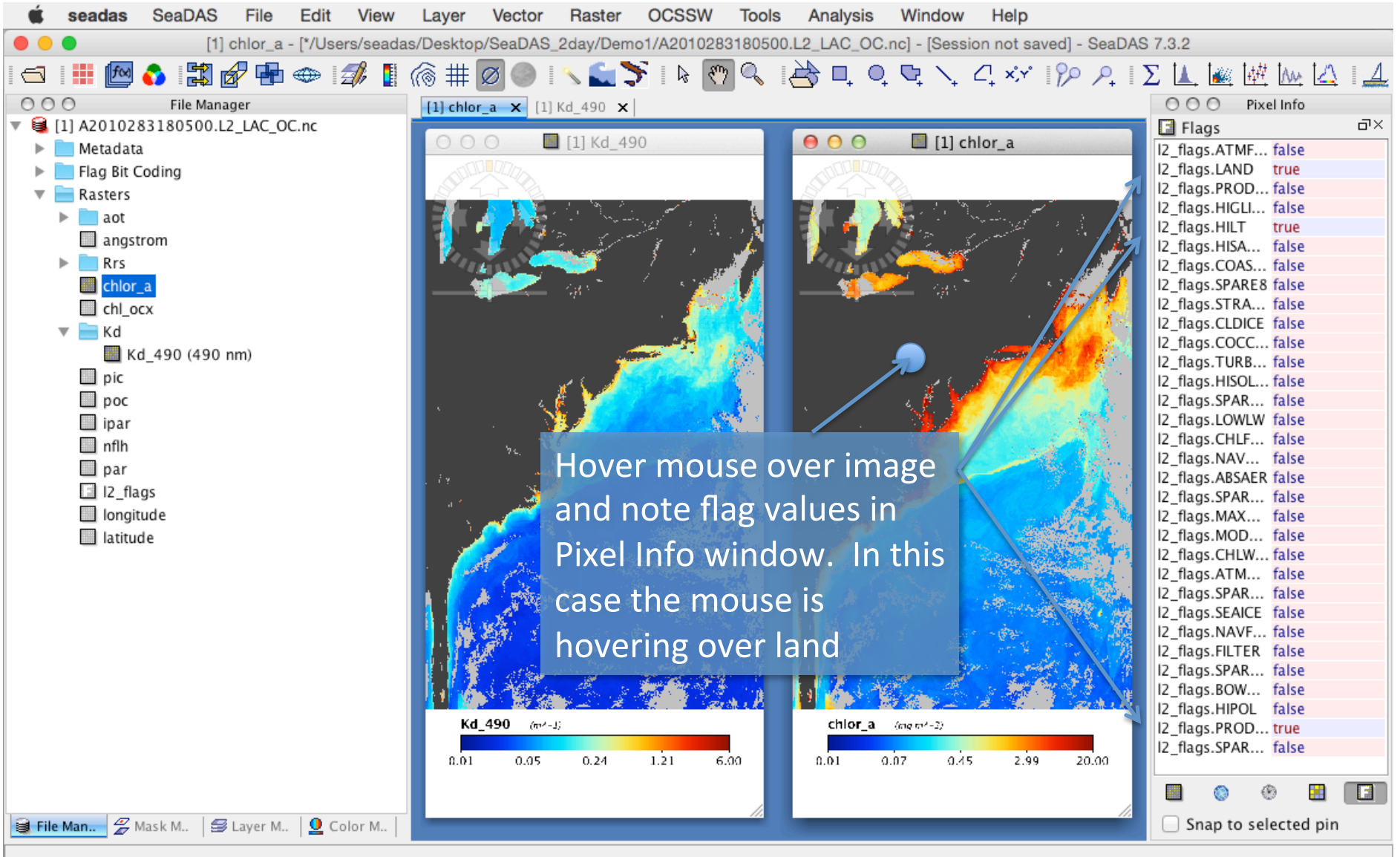
Flags


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] chlor_a - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
File Man..
Mask M..
Layer M..
Color M..
[1] chlor_a
[1] Kd_490
[1] Kd_490
[1] chlor_a
Kd_490
0.01 0.05 0.24 1.21 6.00
chlor_a
0.01 0.07 0.45 2.99 20.00
Pixel Info
Geo-location
Image-X Invalid p... pixel
Image-Y Invalid p... pixel
Longitude Invalid p... degree
Latitude Invalid p... degree
Rasters
chlor_a Invalid p... mg m^-3
Kd_490 Invalid p... m^-1
longitude Invalid p... degree_...
latitude Invalid p... degree_...
Flags
l2_flags.AT...
l2_flags.LAND
l2_flags.PRO...
l2_flags.HIG...
l2_flags.HILT
l2_flags.HIS...
l2_flags.COA...
l2_flags.SPA...
l2_flags.STR...
l2_flags.CLD...
Snap to selected pin
NOTE: There is still not enough real estate for all the level-2 flags
Toggle off

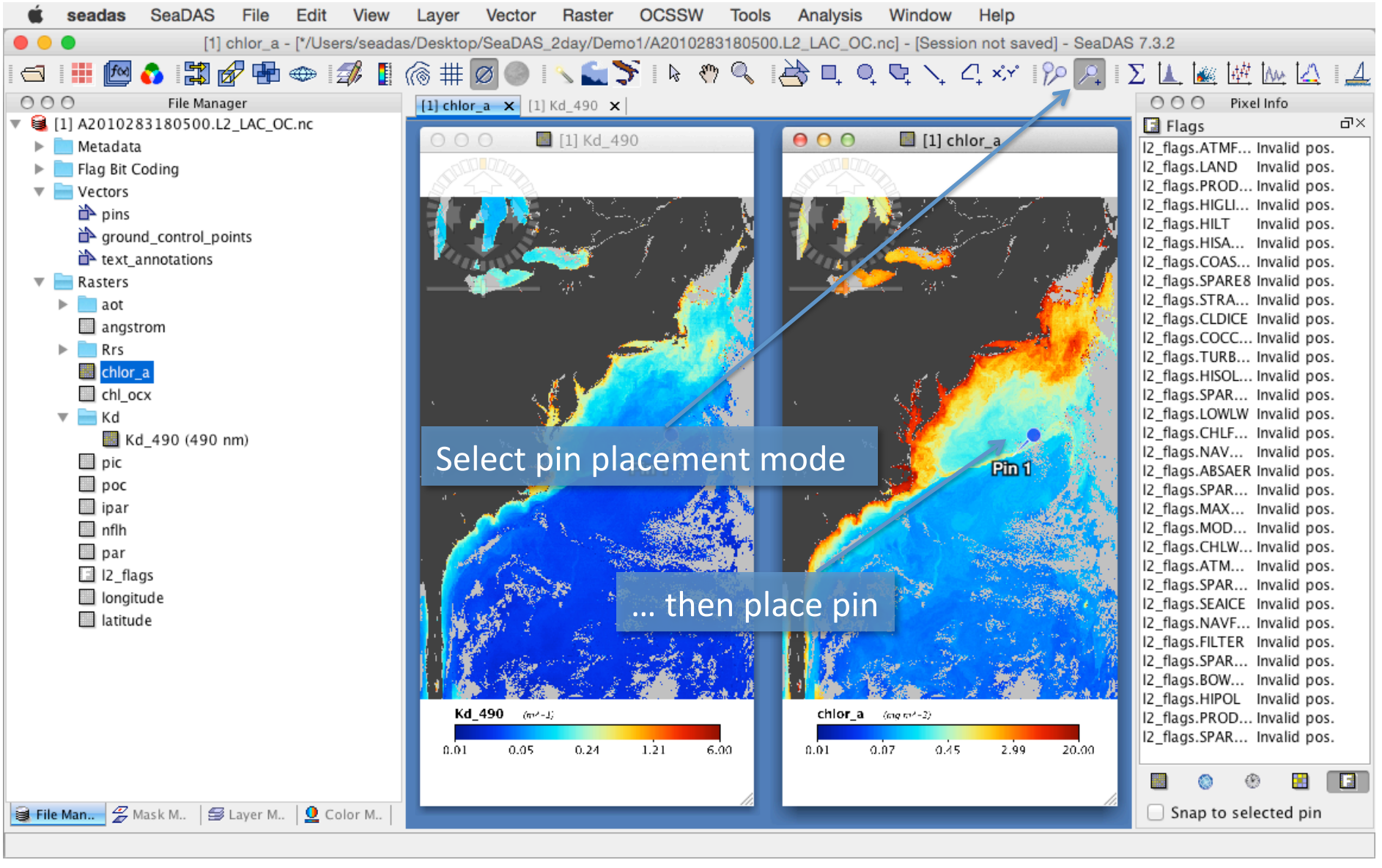
Flags


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] chlor_a - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
File Man..
Mask M..
Layer M..
Color M..
[1] chlor_a
[1] Kd_490
[1] Kd_490
[1] chlor_a
Kd_490
0.01 0.05 0.24 1.21 6.00
chlor_a
0.01 0.07 0.45 2.99 20.00
Pixel Info
Flags
l2_flags.ATMF...
l2_flags.LAND
l2_flags.PROD...
l2_flags.HIGLI...
l2_flags.HILT
l2_flags.HISA...
l2_flags.COAS...
l2_flags.SPARE8
l2_flags.STRA...
l2_flags.CLDICE
l2_flags.COCC...
l2_flags.TURB...
l2_flags.HISOL...
l2_flags.SPAR...
l2_flags.LOWLW
l2_flags.CHLF...
l2_flags.NAV...
l2_flags.ABSAER
l2_flags.SPAR...
l2_flags.MAX...
l2_flags.MOD...
l2_flags.CHLW...
l2_flags.ATM...
l2_flags.SPAR...
l2_flags.SEAICE
l2_flags.NAVF...
l2_flags.FILTER
l2_flags.SPAR...
l2_flags.BOW...
l2_flags.HIPOL
l2_flags.PROD...
l2_flags.SPAR...
Snap to selected pin
NOTE: Flags viewer is not initialized until first hovering of mouse

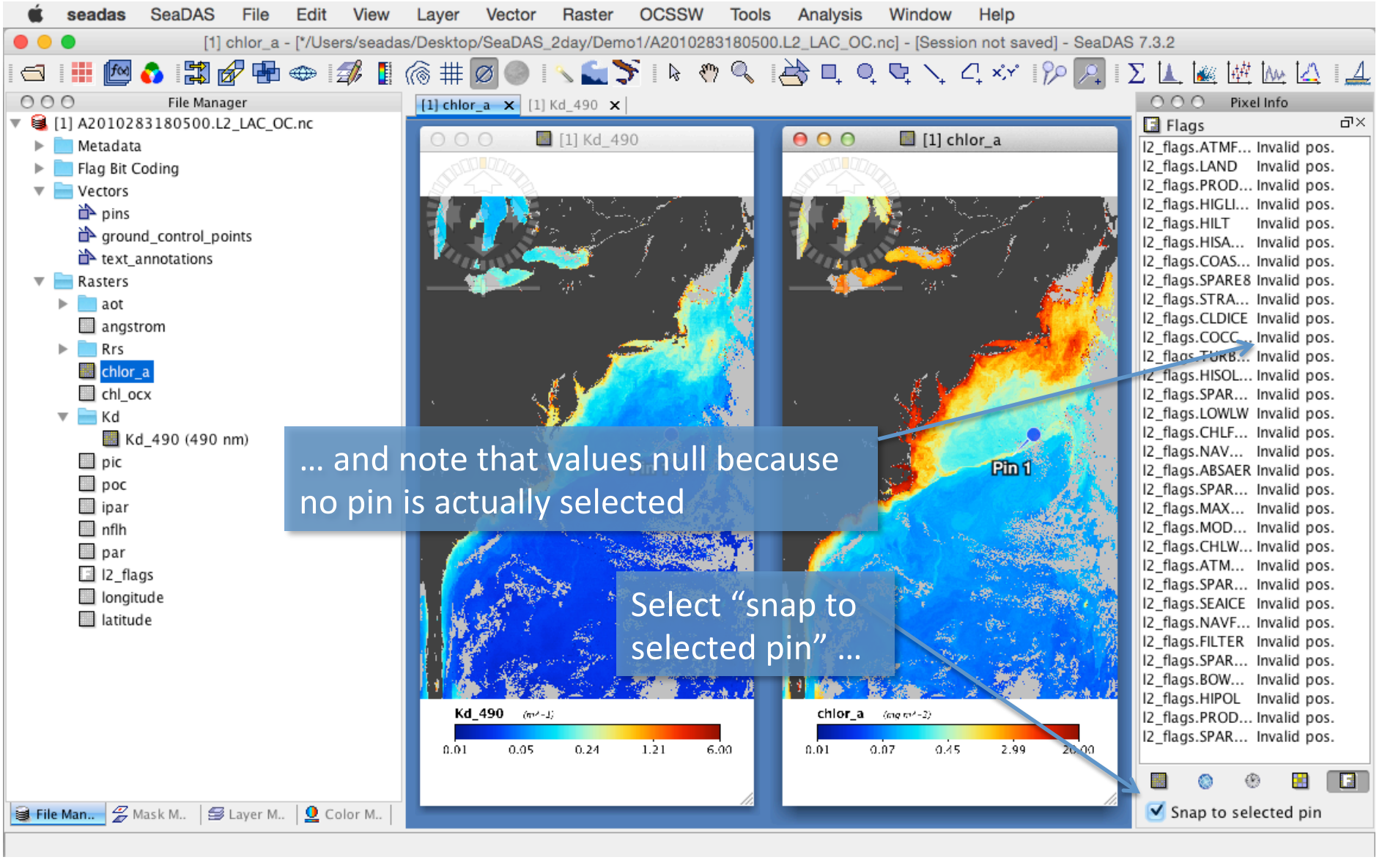
Flags


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] chlor_a - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
File Man..
Mask M..
Layer M..
Color M..
[1] chlor_a
[1] Kd_490
[1] Kd_490
[1] chlor_a
Kd_490
0.01 0.05 0.24 1.21 6.00
chlor_a
0.01 0.07 0.45 2.99 20.00
Pixel Info
Flags
l2_flags.ATMF... false
l2_flags.LAND true
l2_flags.PROD... false
l2_flags.HIGLI... false
l2_flags.HILT true
l2_flags.HISA... false
l2_flags.COAS... false
l2_flags.SPARE8 false
l2_flags.STRA... false
l2_flags.CLDICE false
l2_flags.COCC... false
l2_flags.TURB... false
l2_flags.HISOL... false
l2_flags.SPAR... false
l2_flags.LOWLW false
l2_flags.CHLF... false
l2_flags.NAV... false
l2_flags.ABSAER false
l2_flags.SPAR... false
l2_flags.MAX... false
l2_flags.MOD... false
l2_flags.CHLW... false
l2_flags.ATM... false
l2_flags.SPAR... false
l2_flags.SEAICE false
l2_flags.NAVF... false
l2_flags.FILTER false
l2_flags.SPAR... false
l2_flags.BOW... false
l2_flags.HIPOL false
l2_flags.PROD... true
l2_flags.SPAR... false
Snap to selected pin
Hover mouse over image and note flag values in Pixel Info window. In this case the mouse is hovering over land

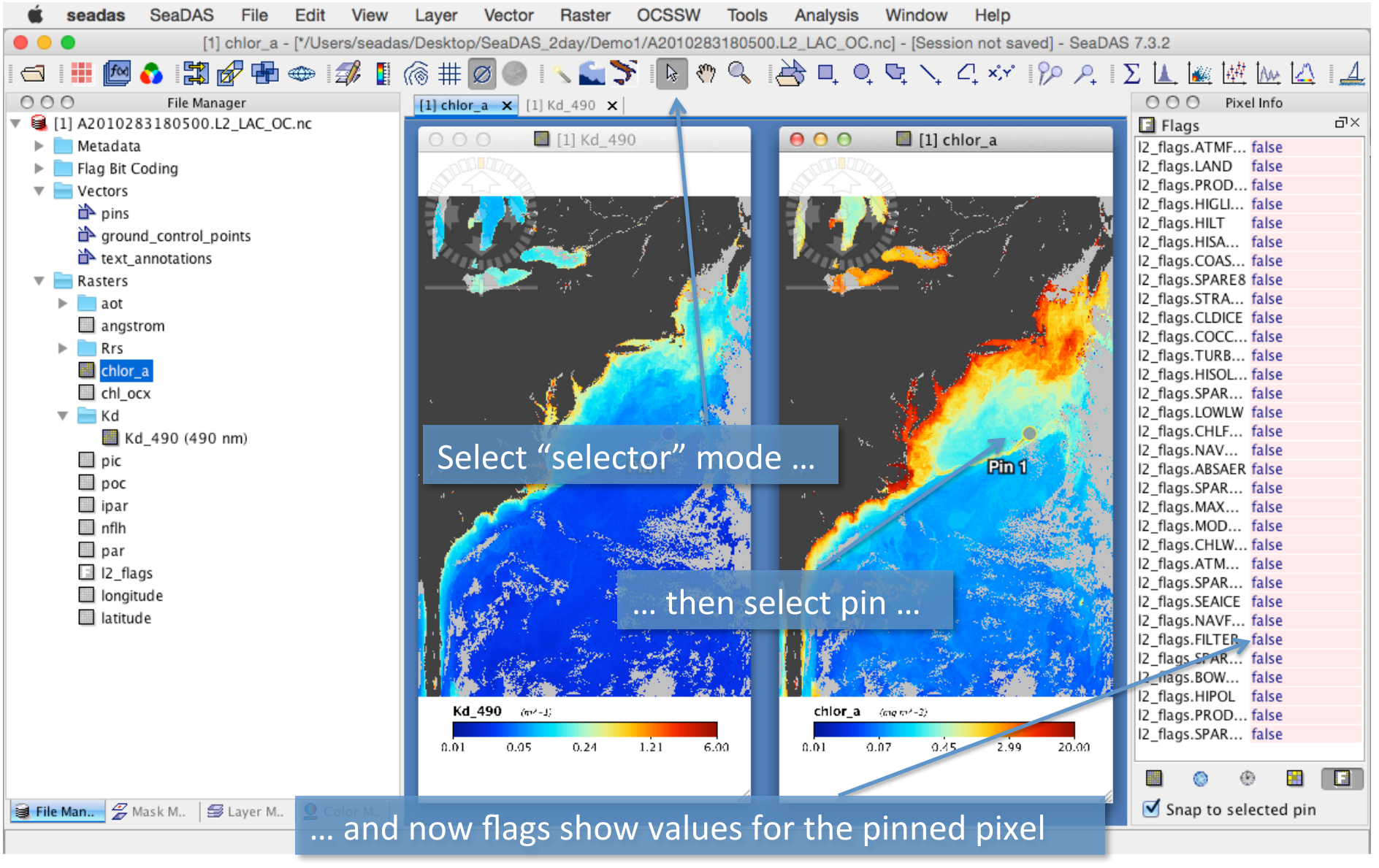
Pins and Flags



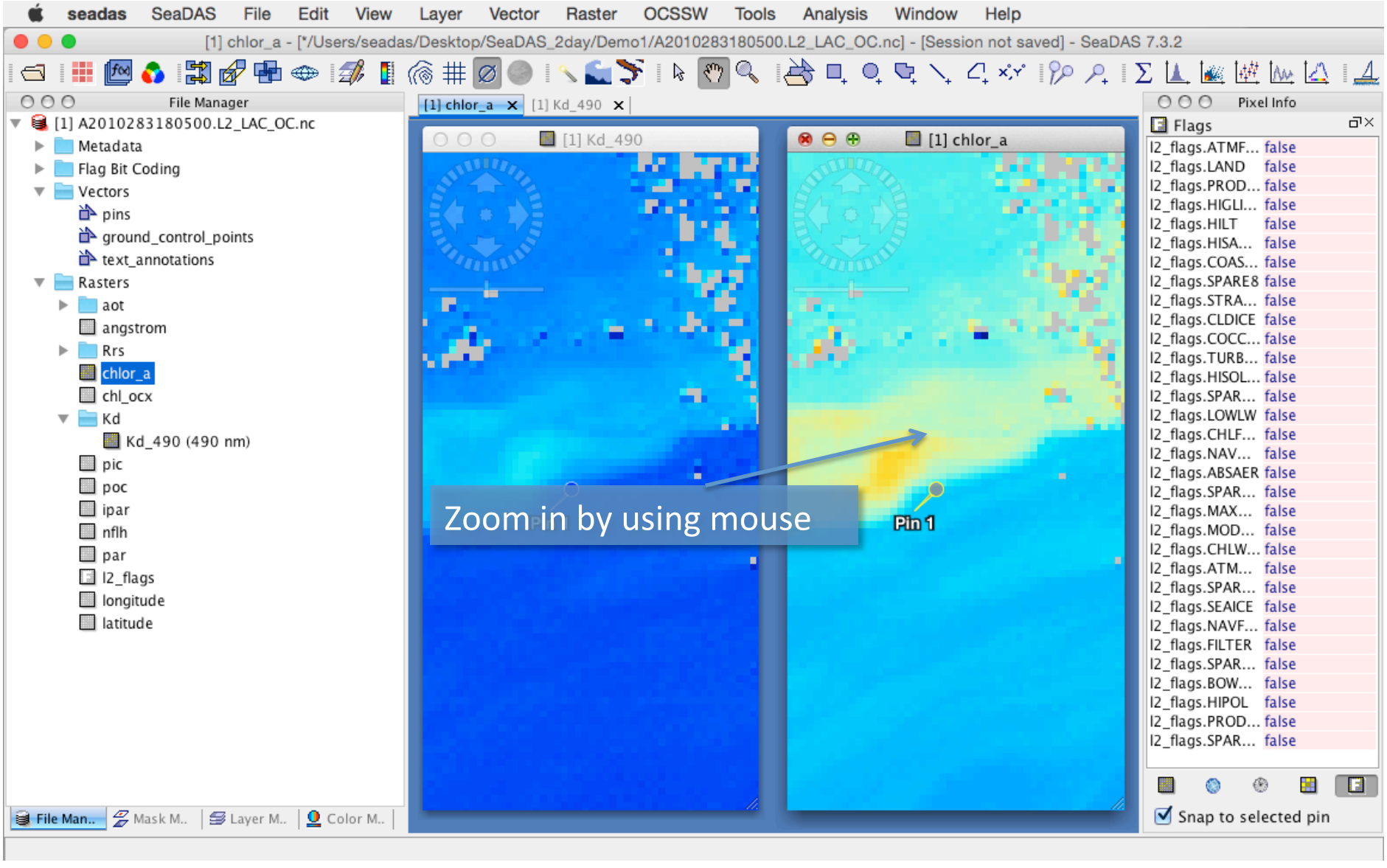
Pins and Flags



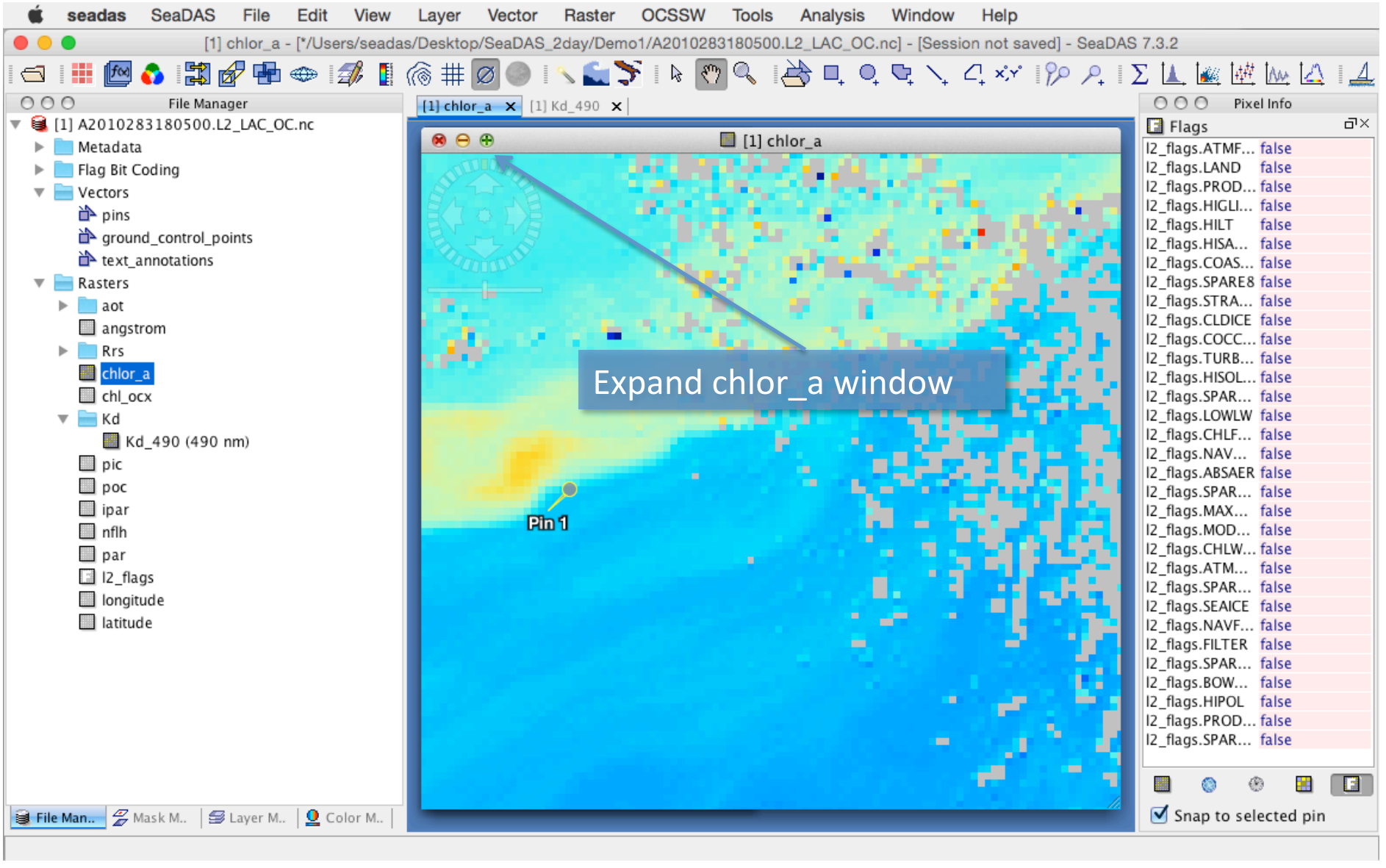
Pins and Flags



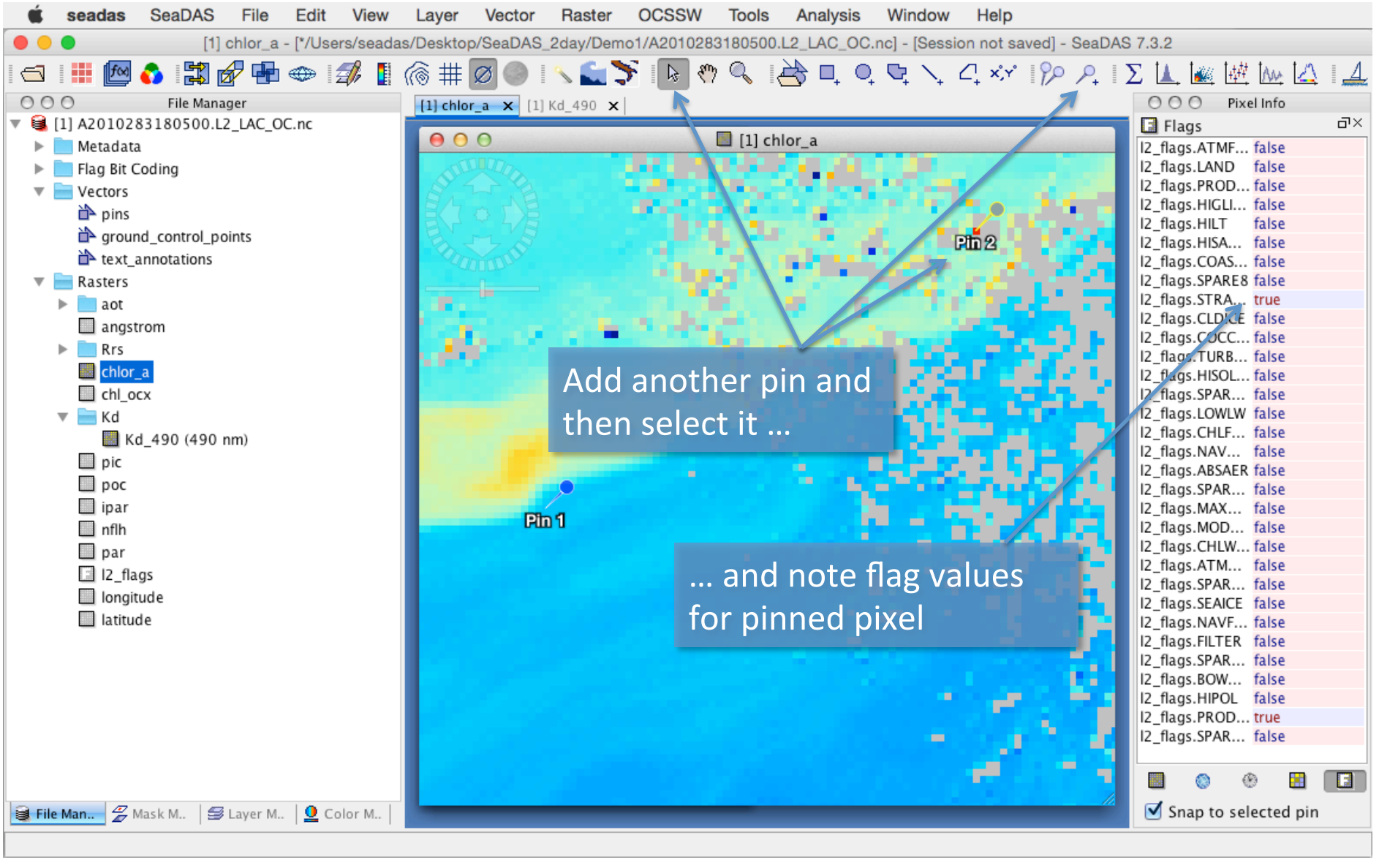
Pins and Flags



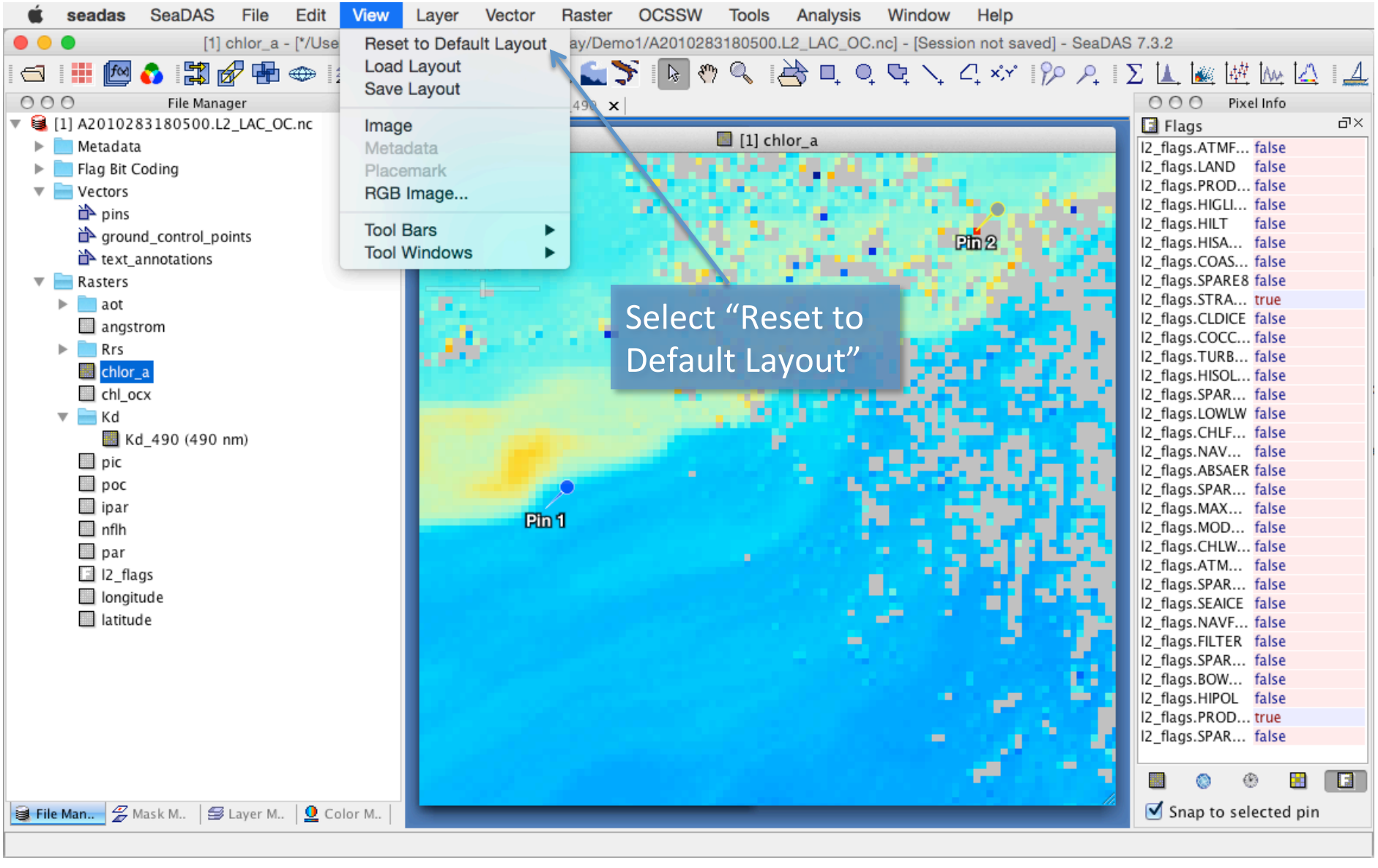
Pins and Flags



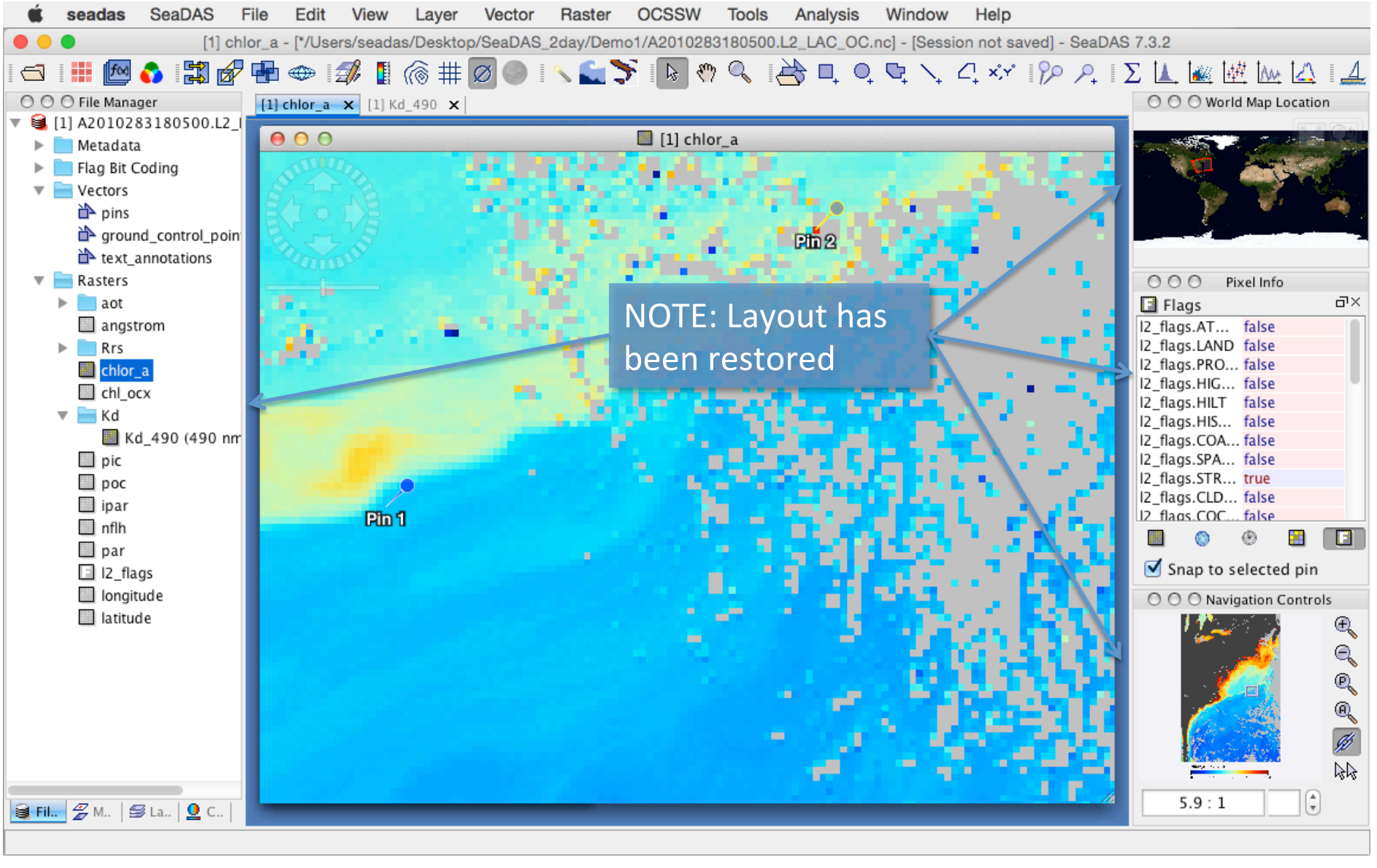
Pins and Flags



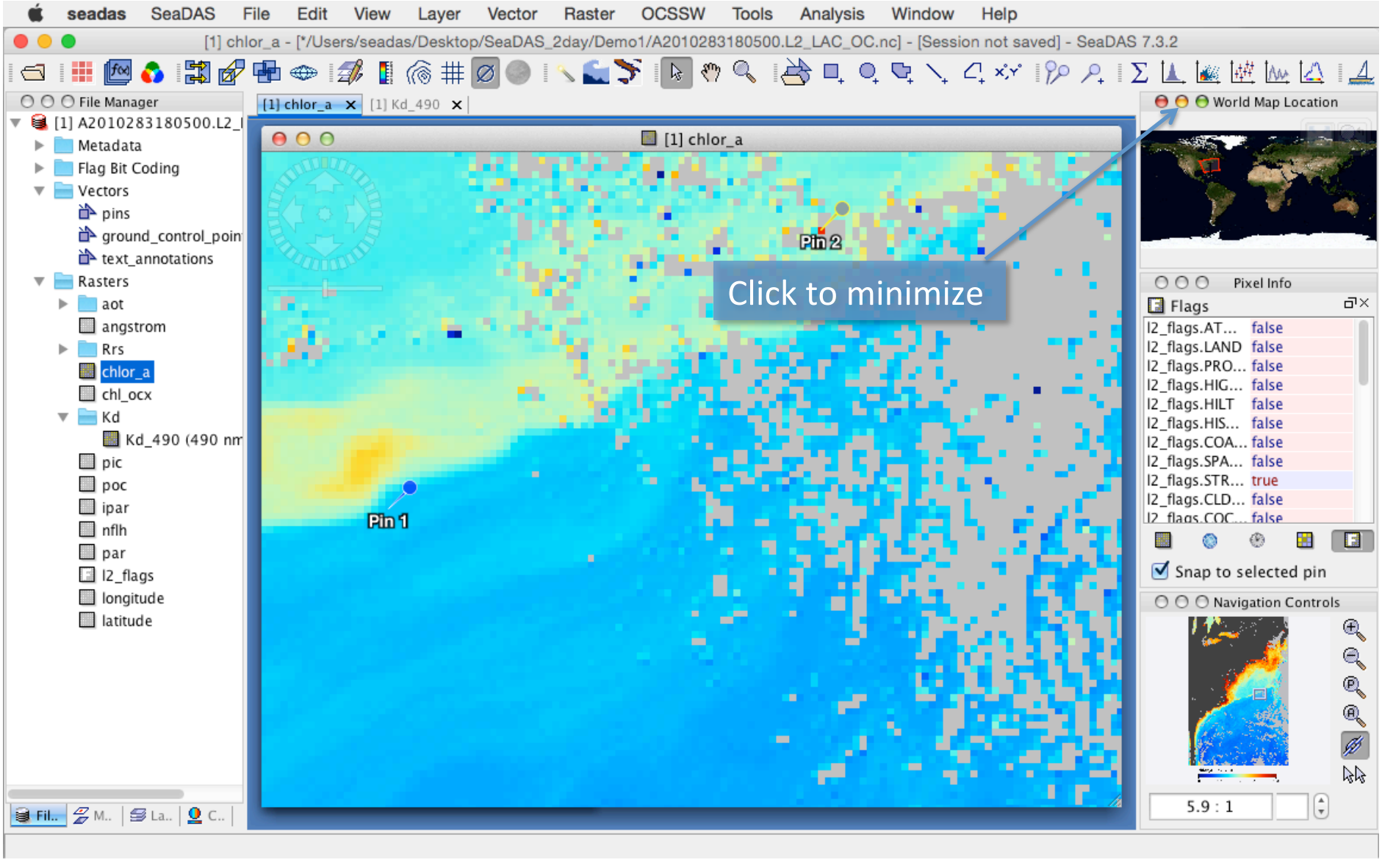
Window Layout



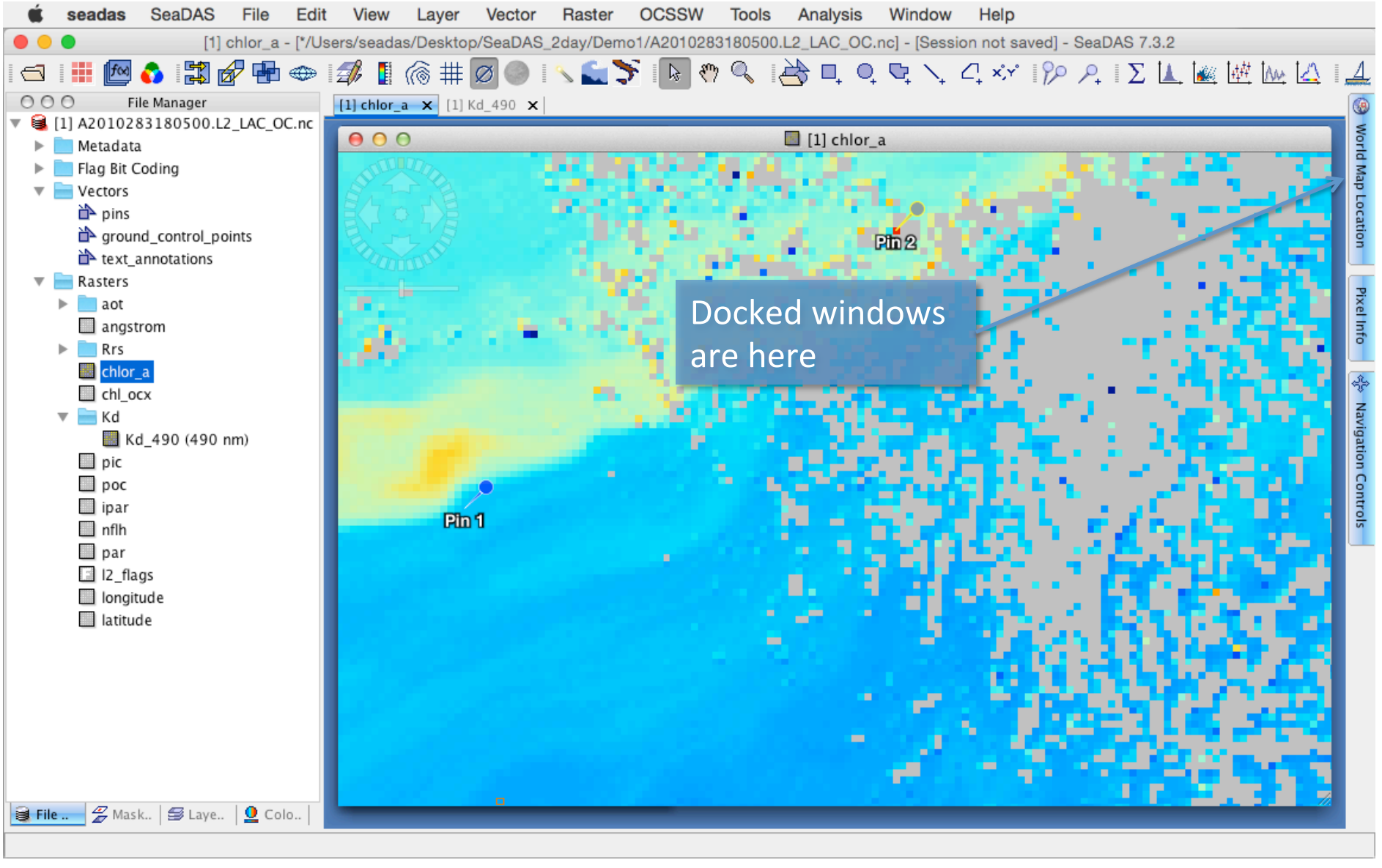
Window Layout



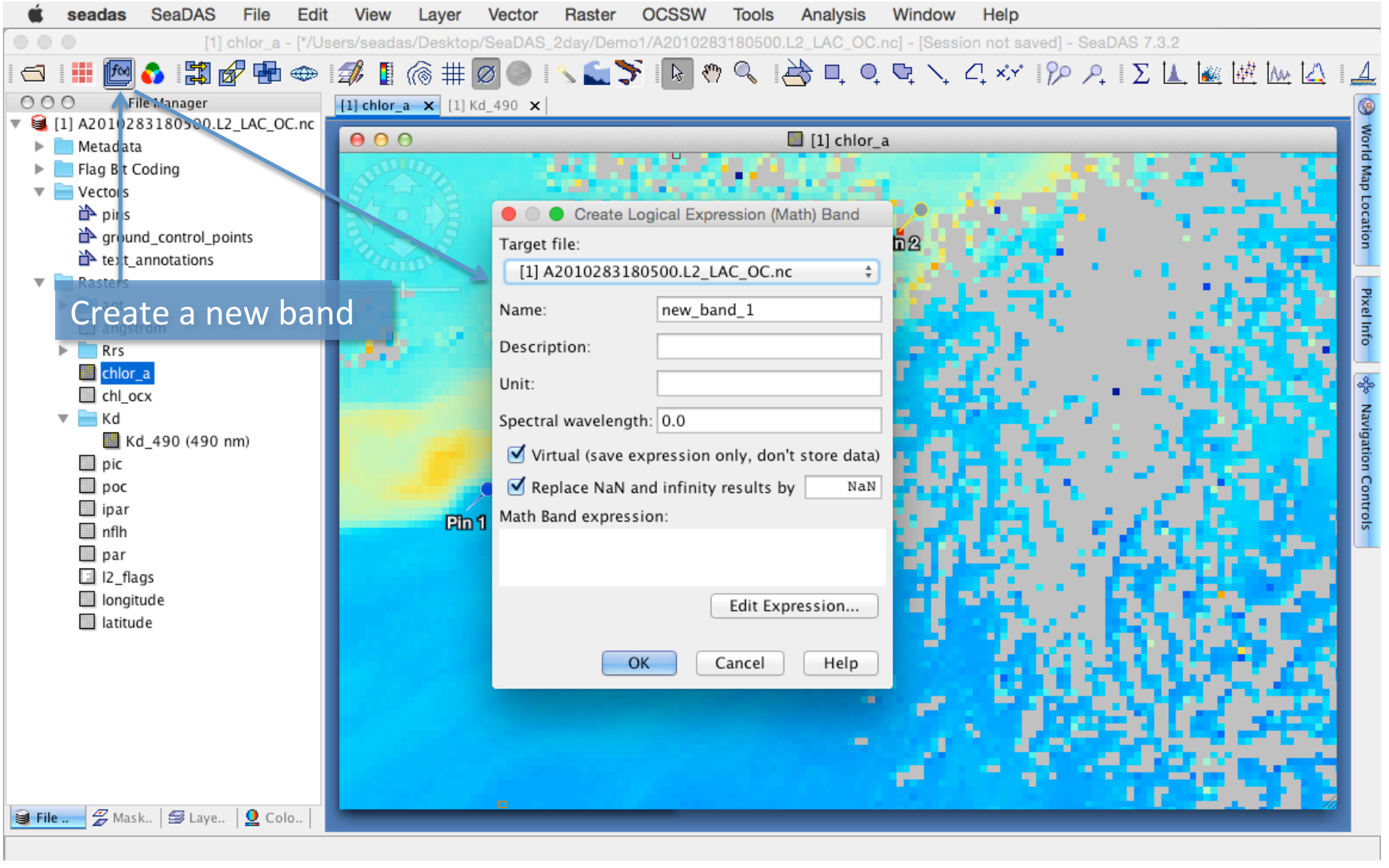
Window Layout



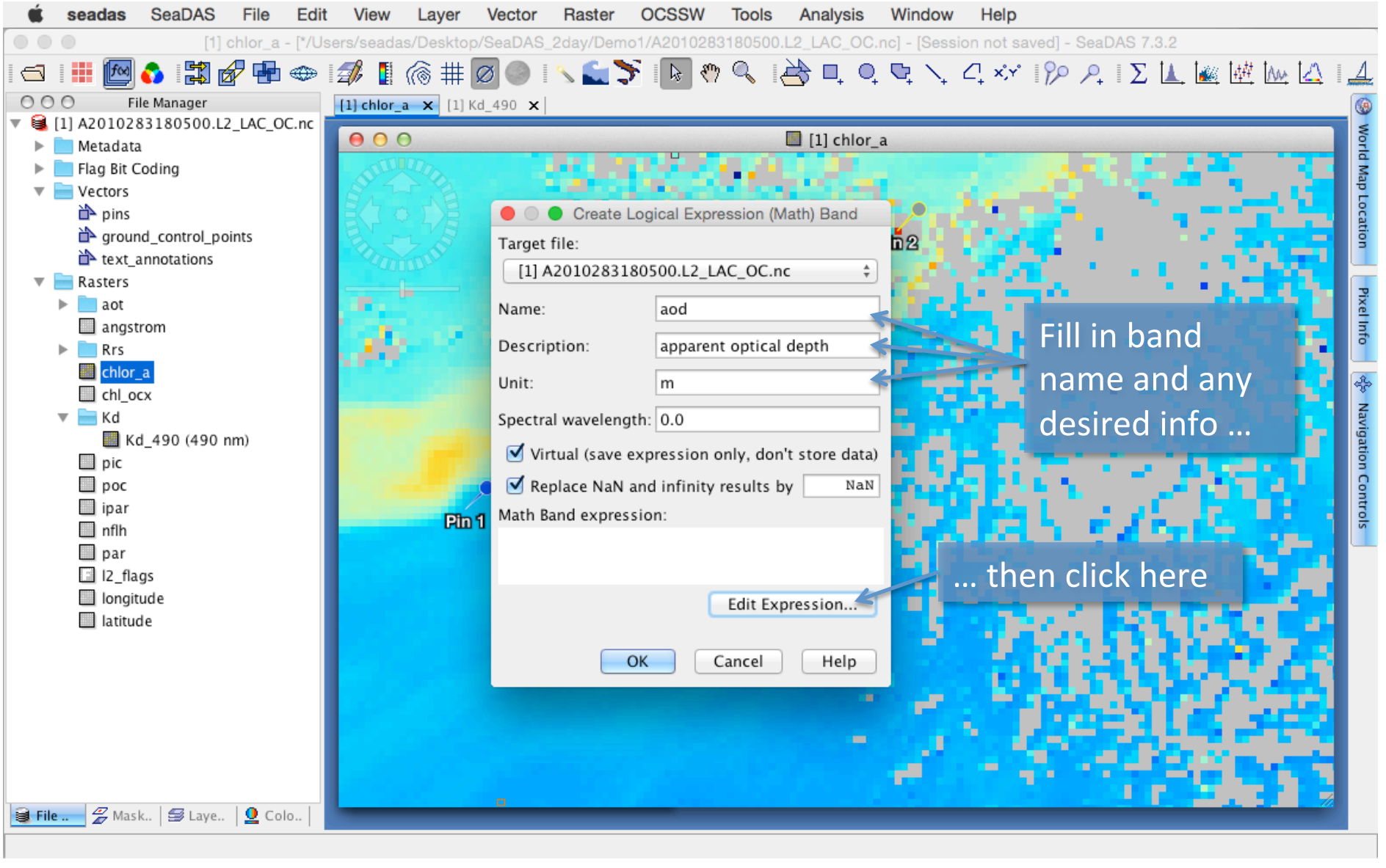
Window Layout



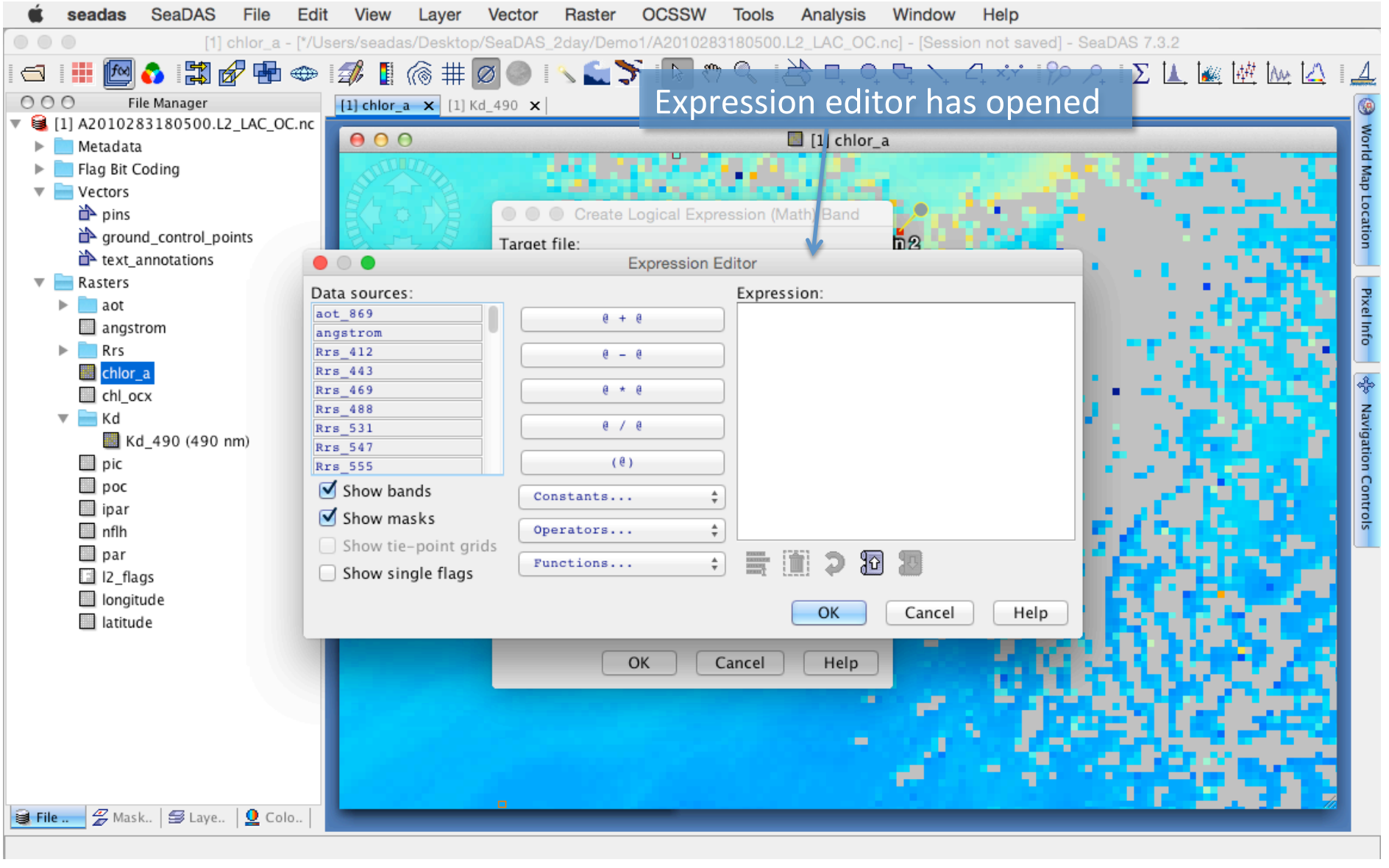
Creating a Math Band



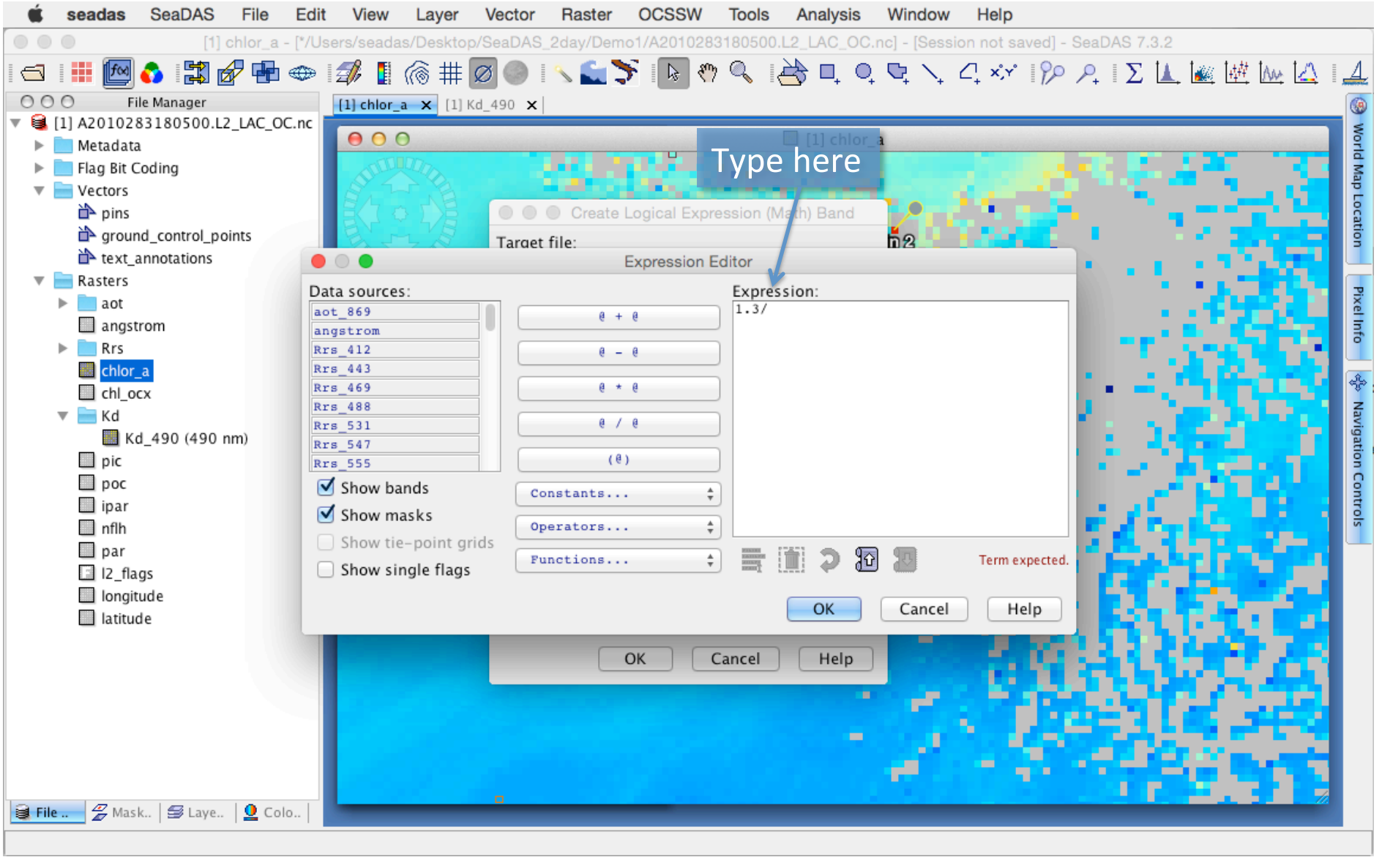
Creating a Math Band



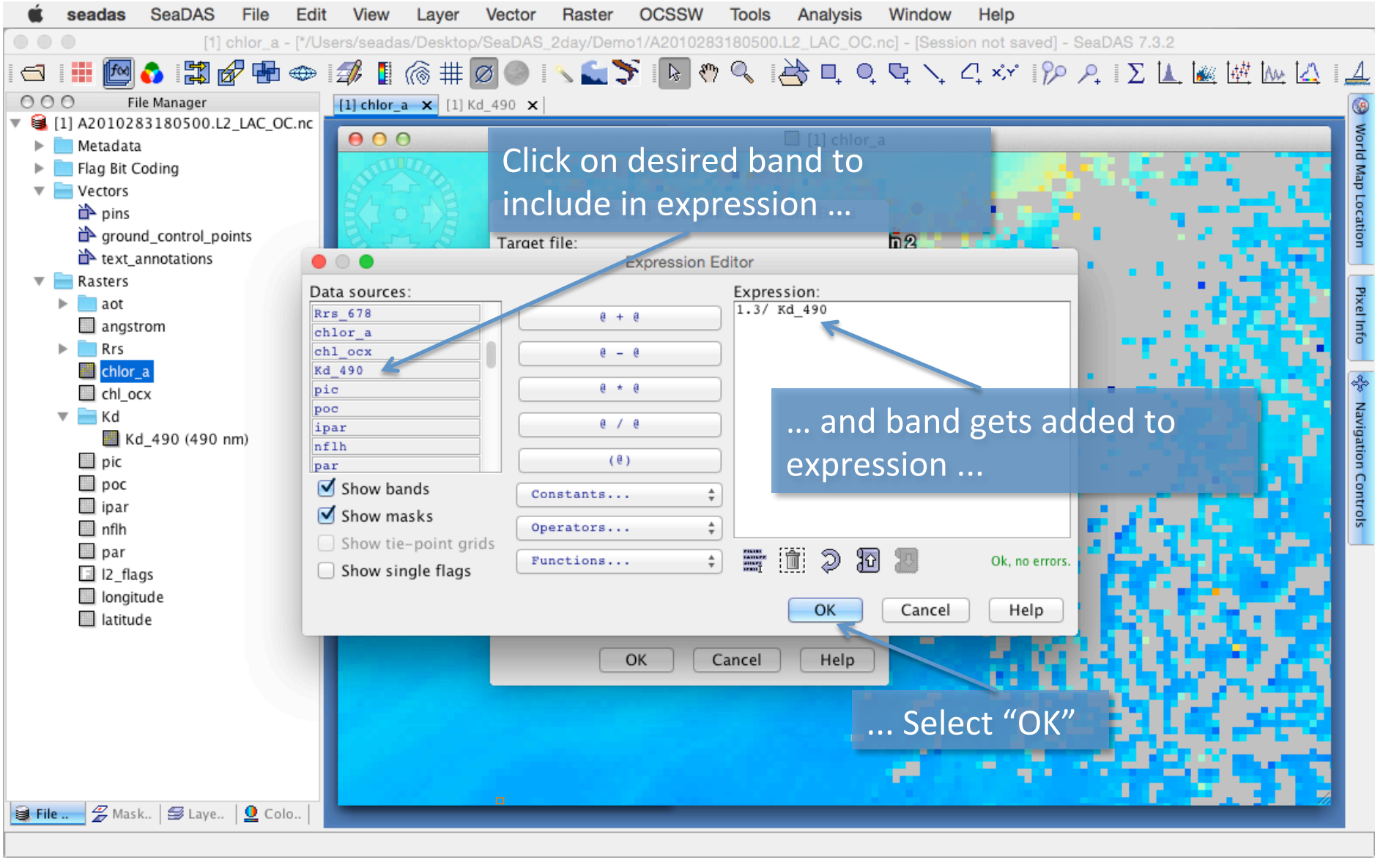
Creating a Math Band



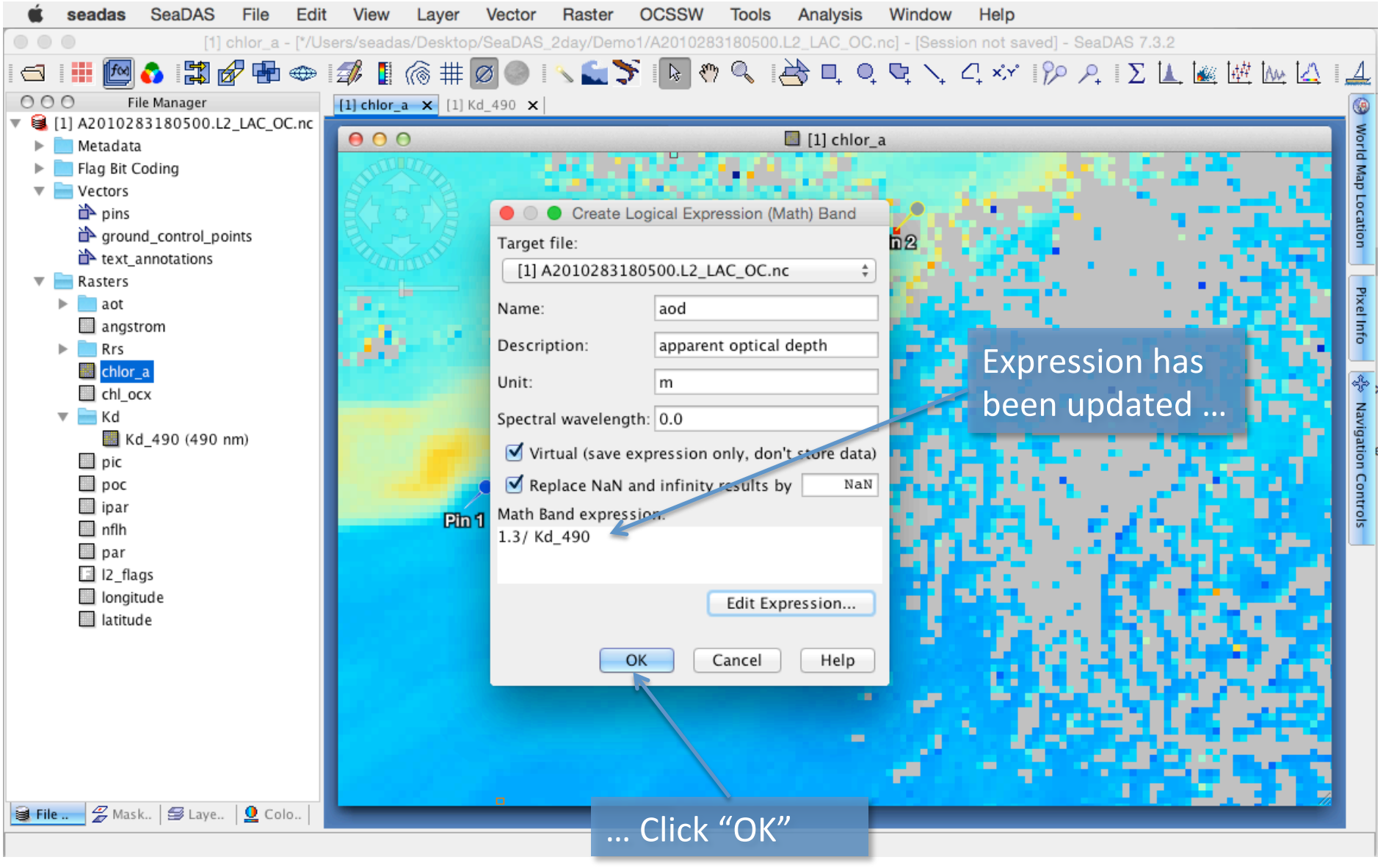
Creating a Math Band



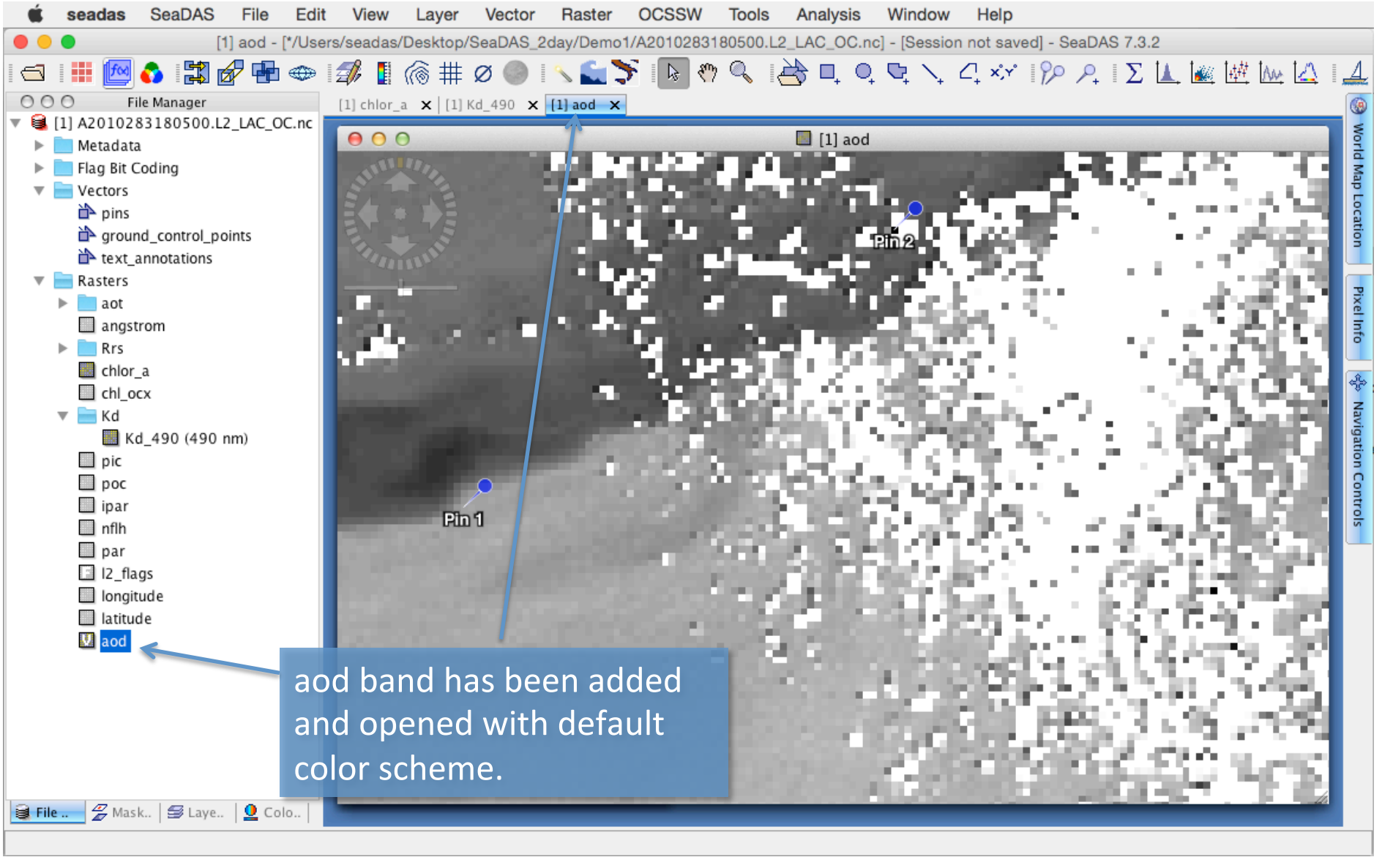
Creating a Math Band



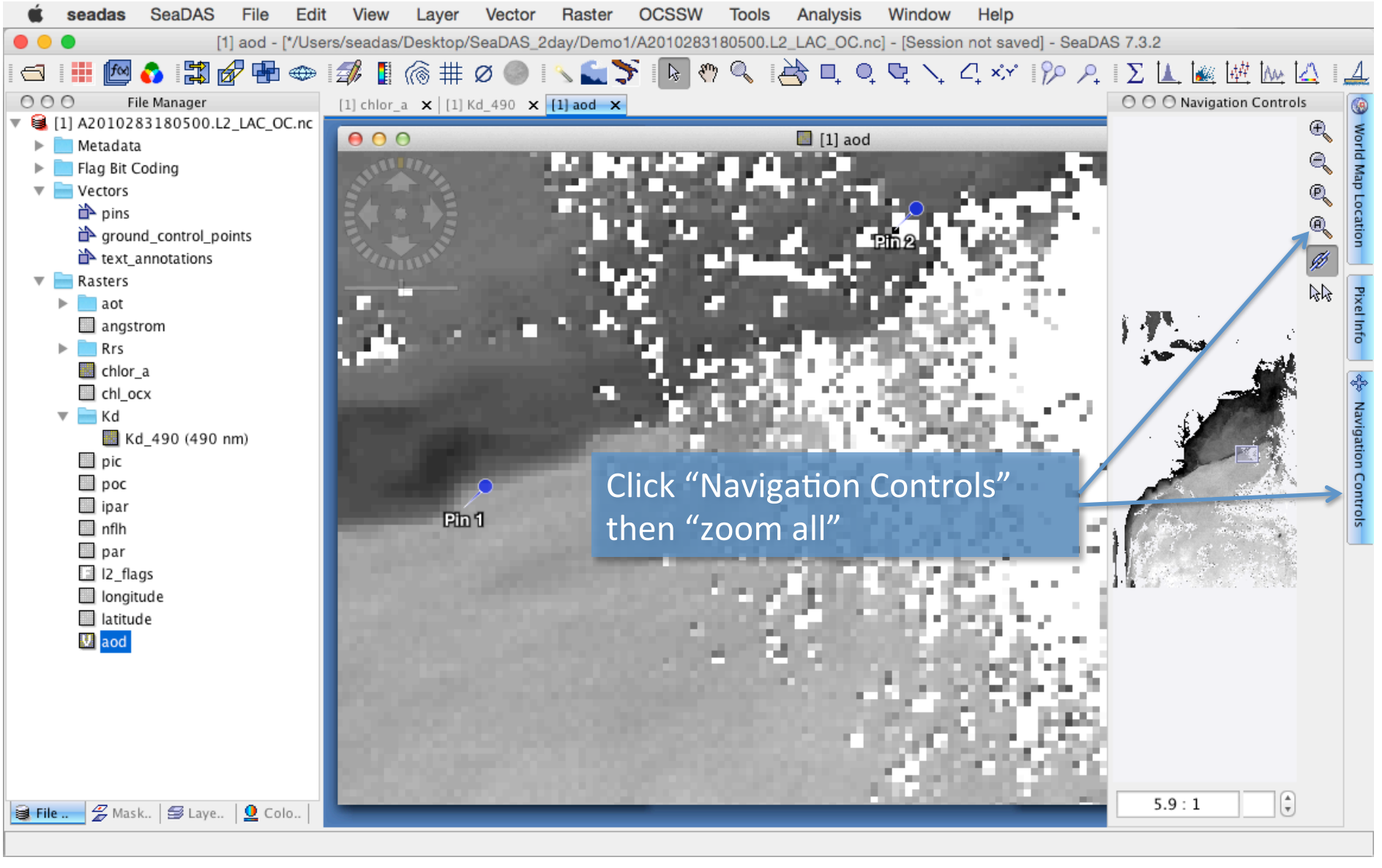
Creating a Math Band



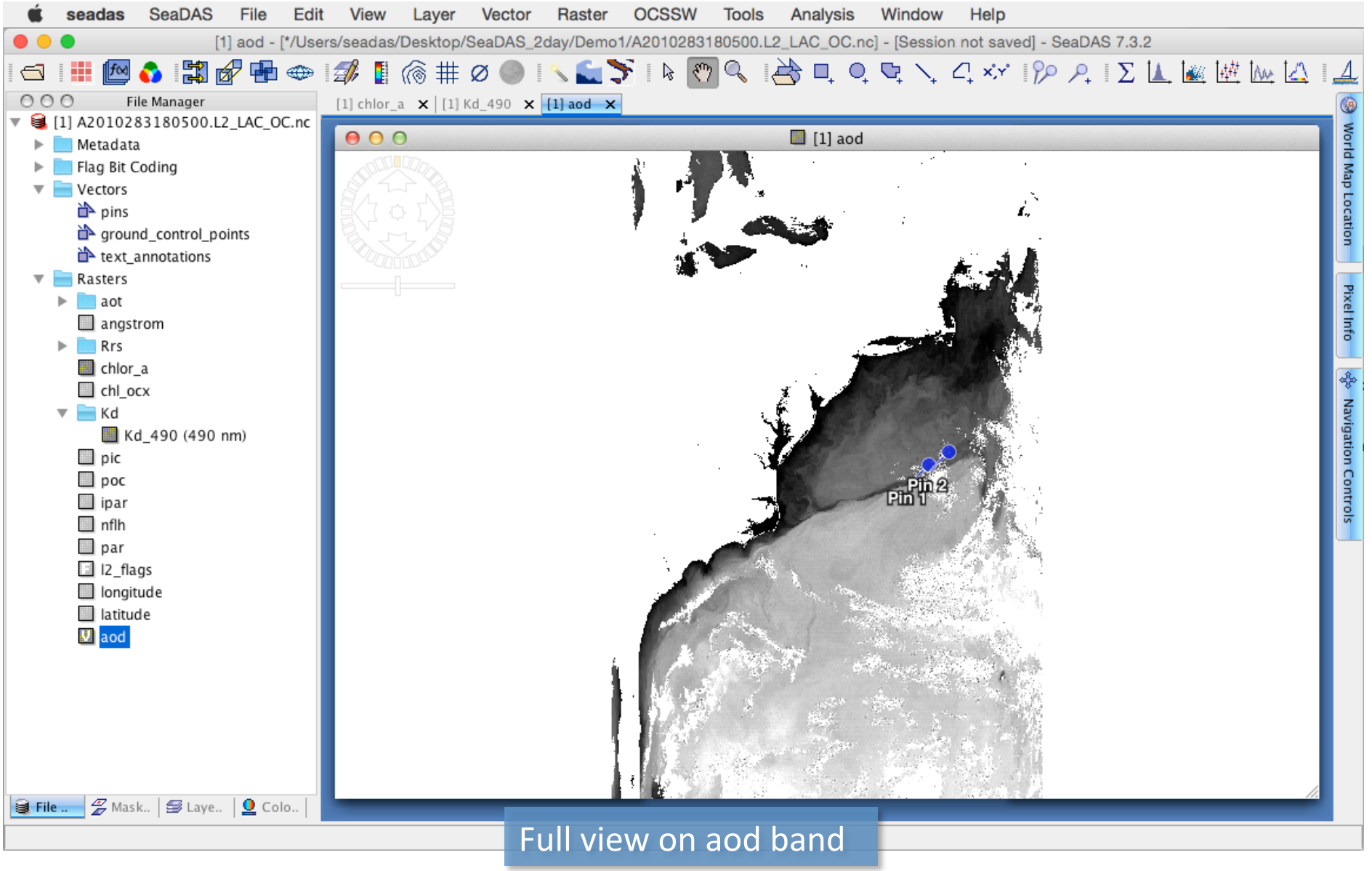
Creating a Math Band



Creating a Math Band

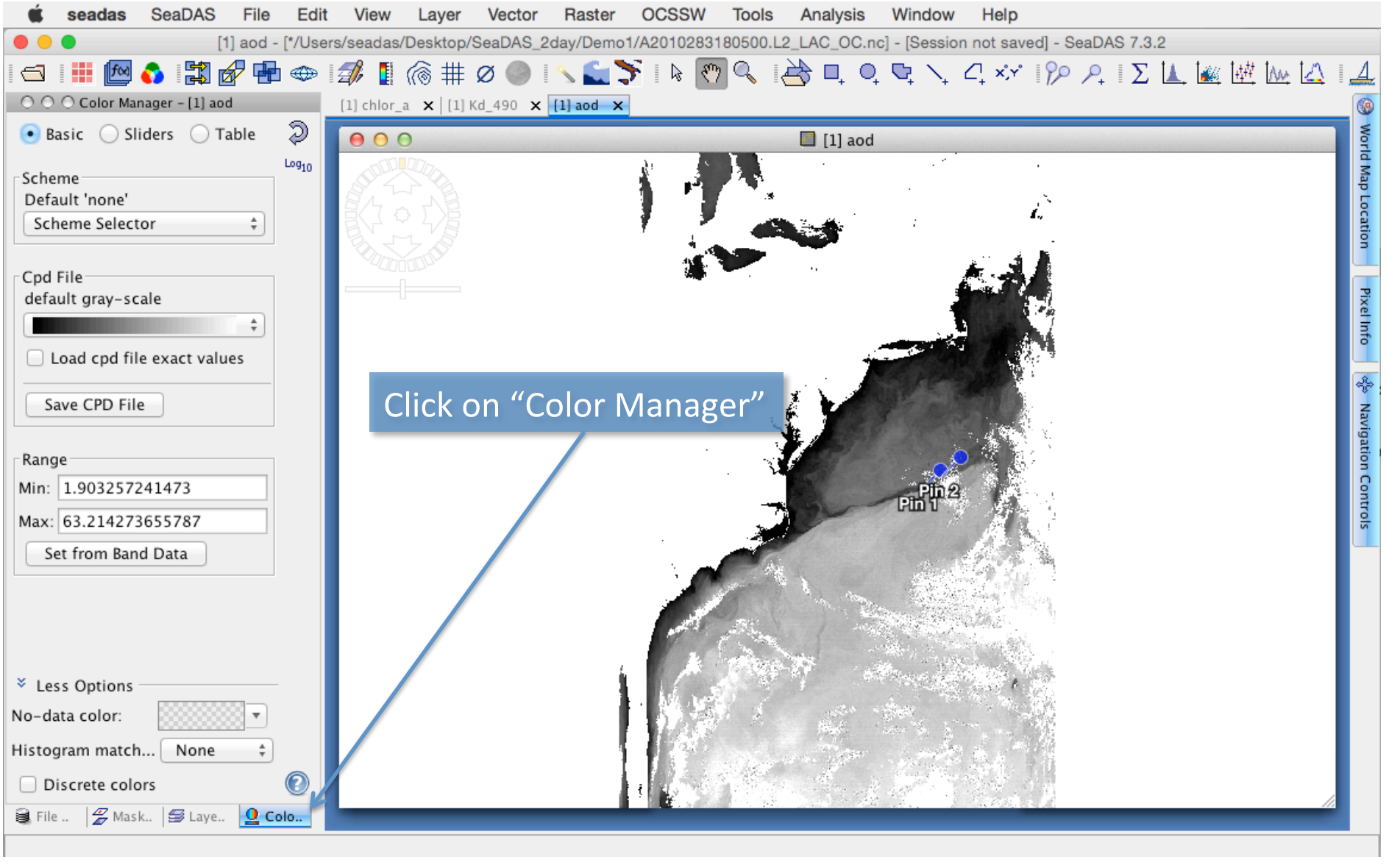


Creating a Math Band

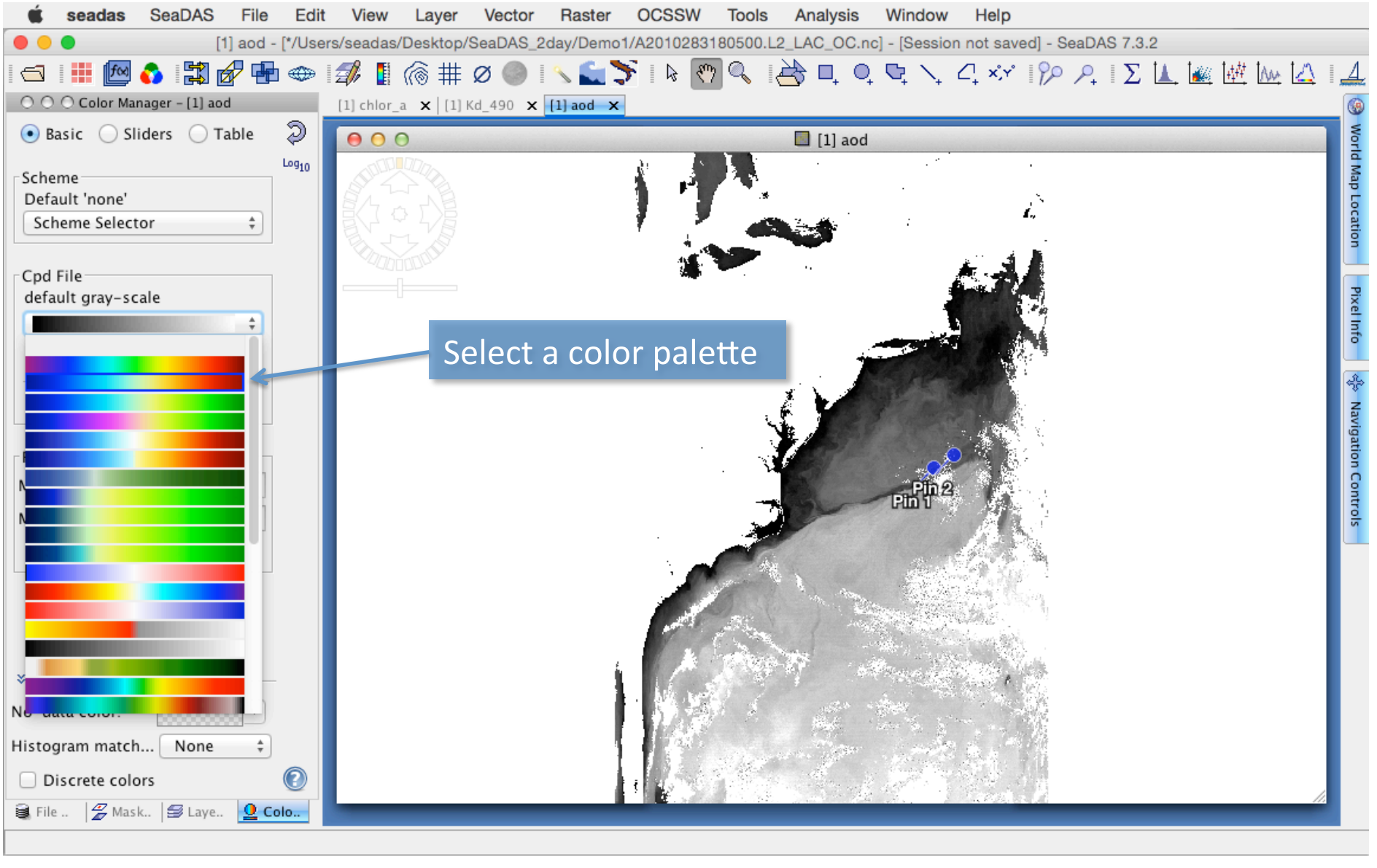


Full view on aod band

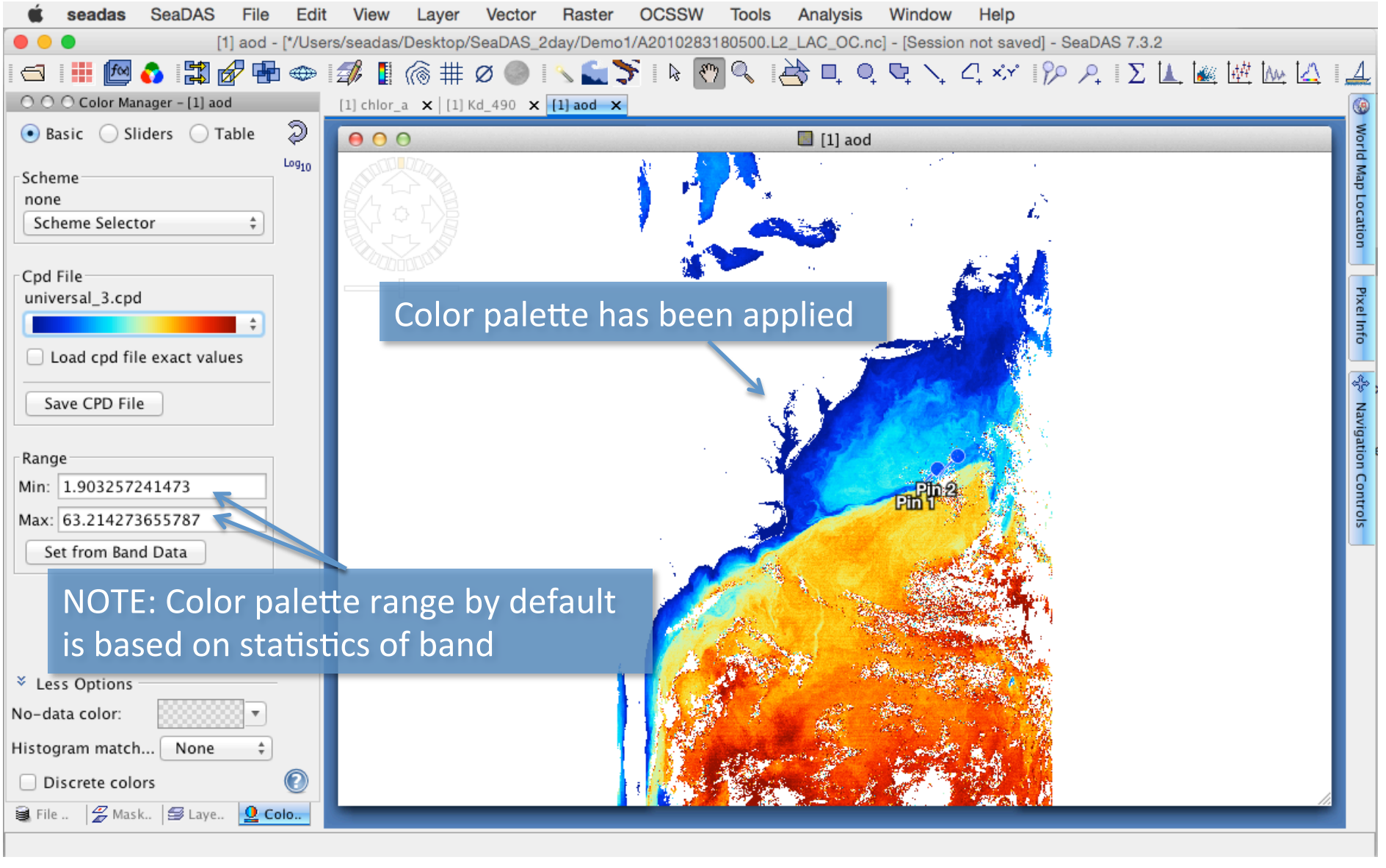
Adding a Color Palette



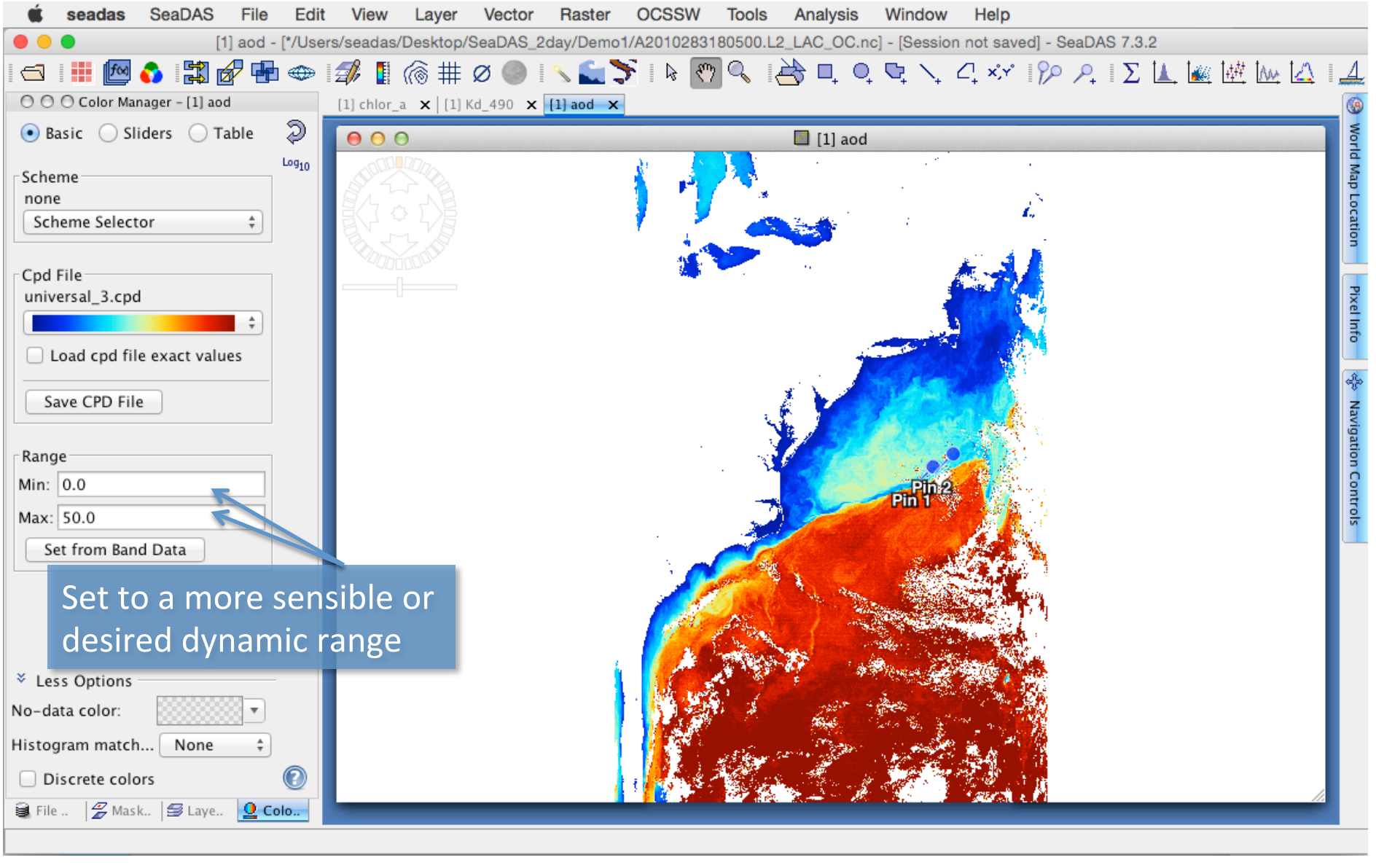
Adding a Color Palette



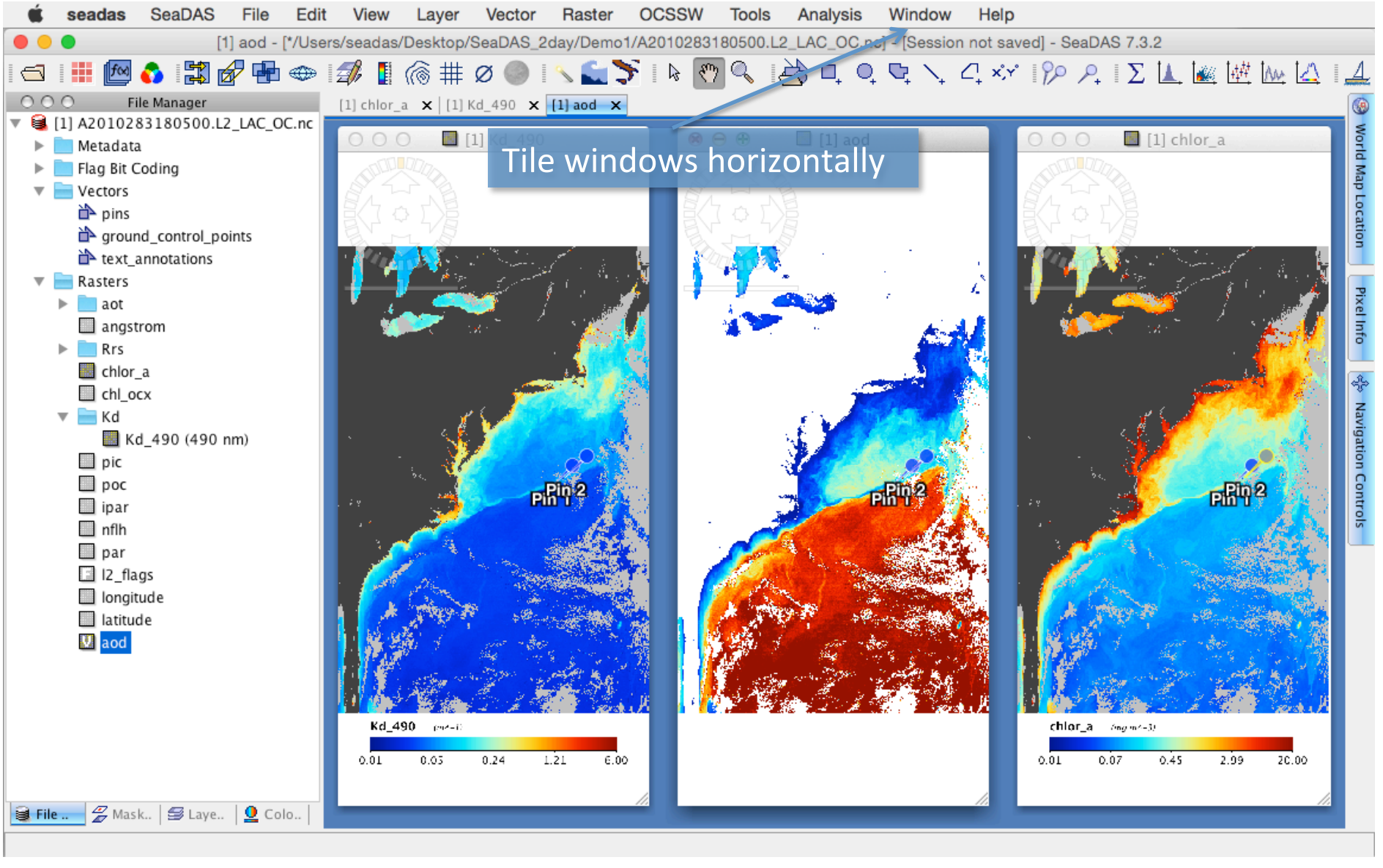
Adding a Color Palette



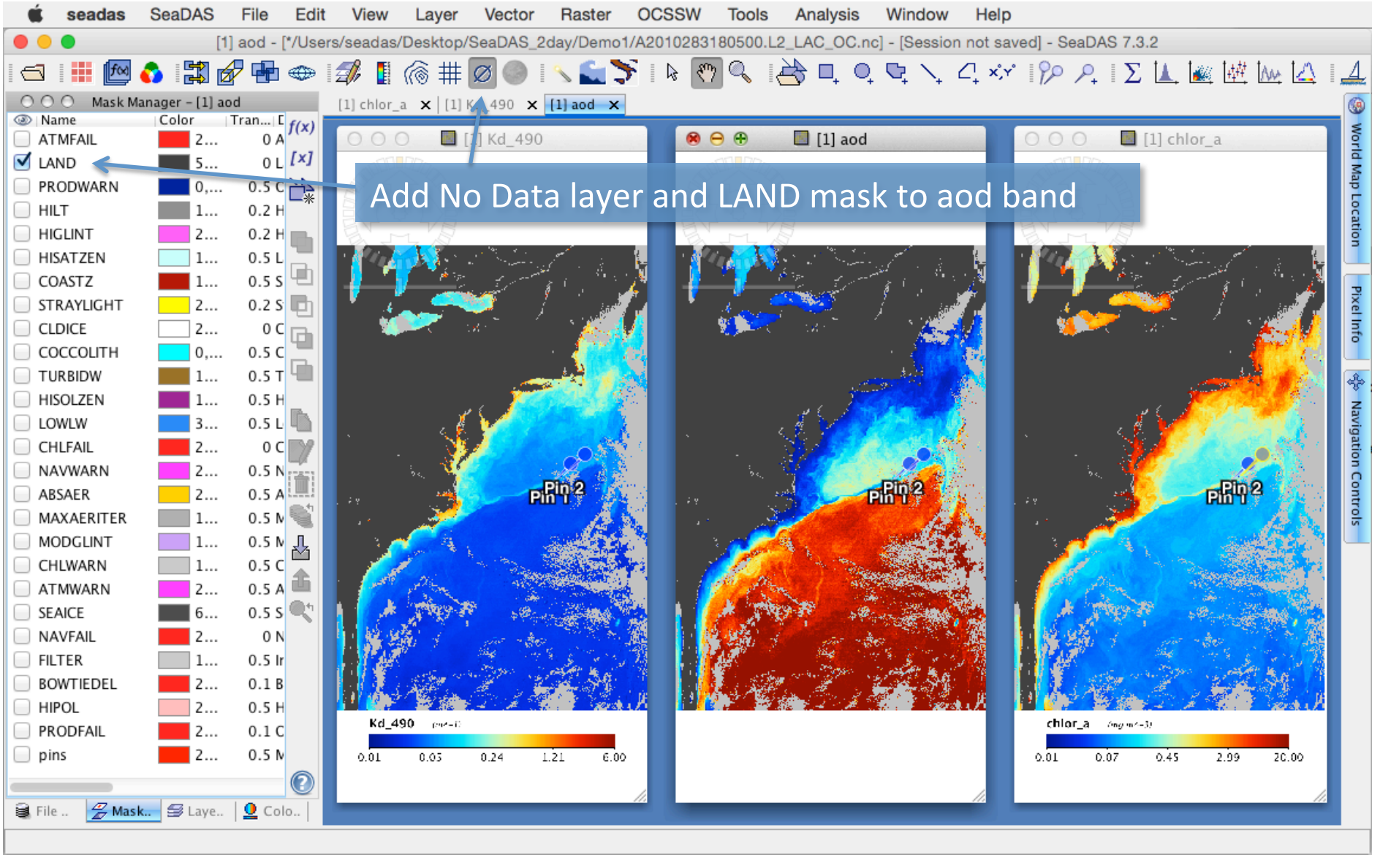
Adding a Color Palette



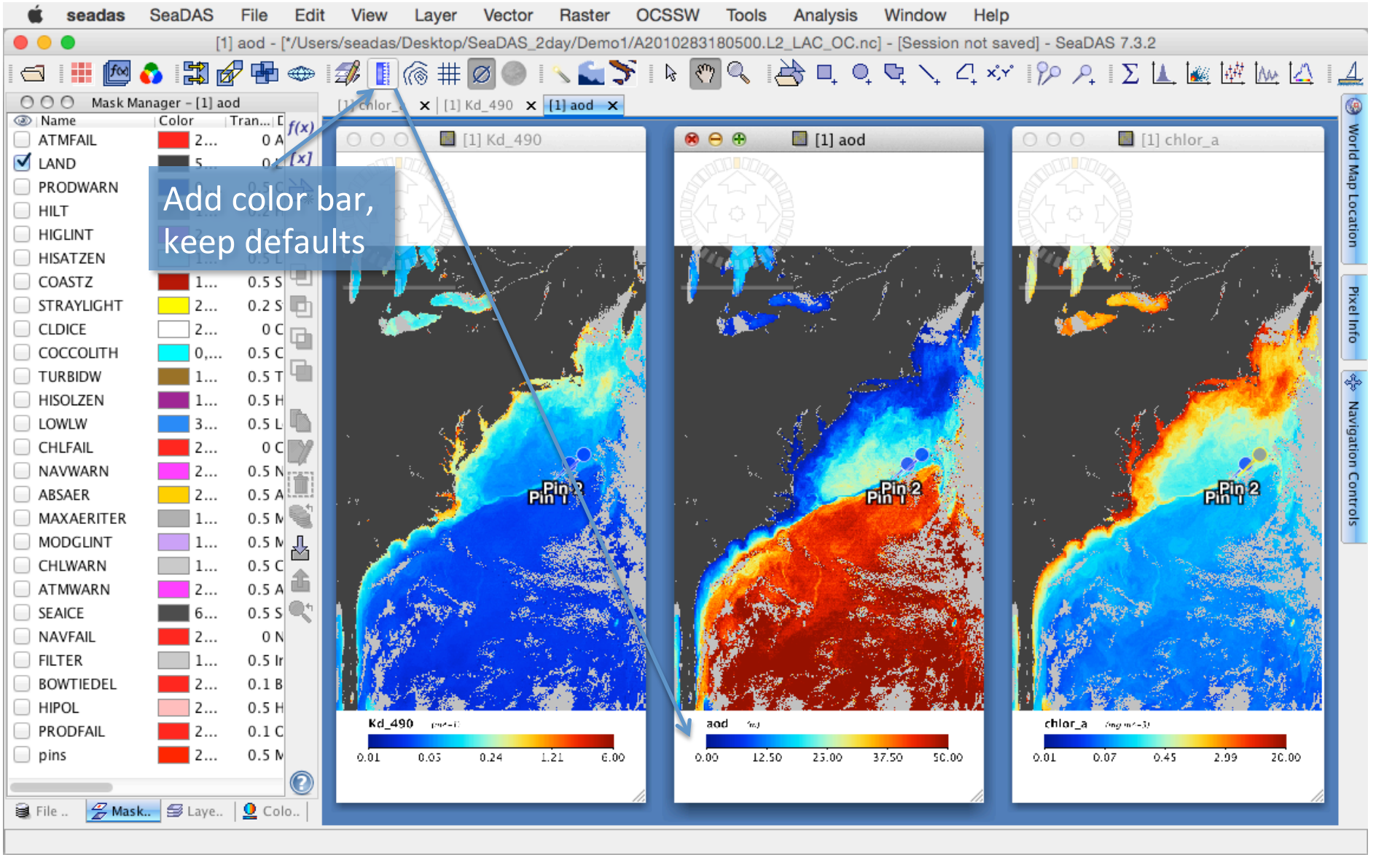
Repeat Steps for aod Band



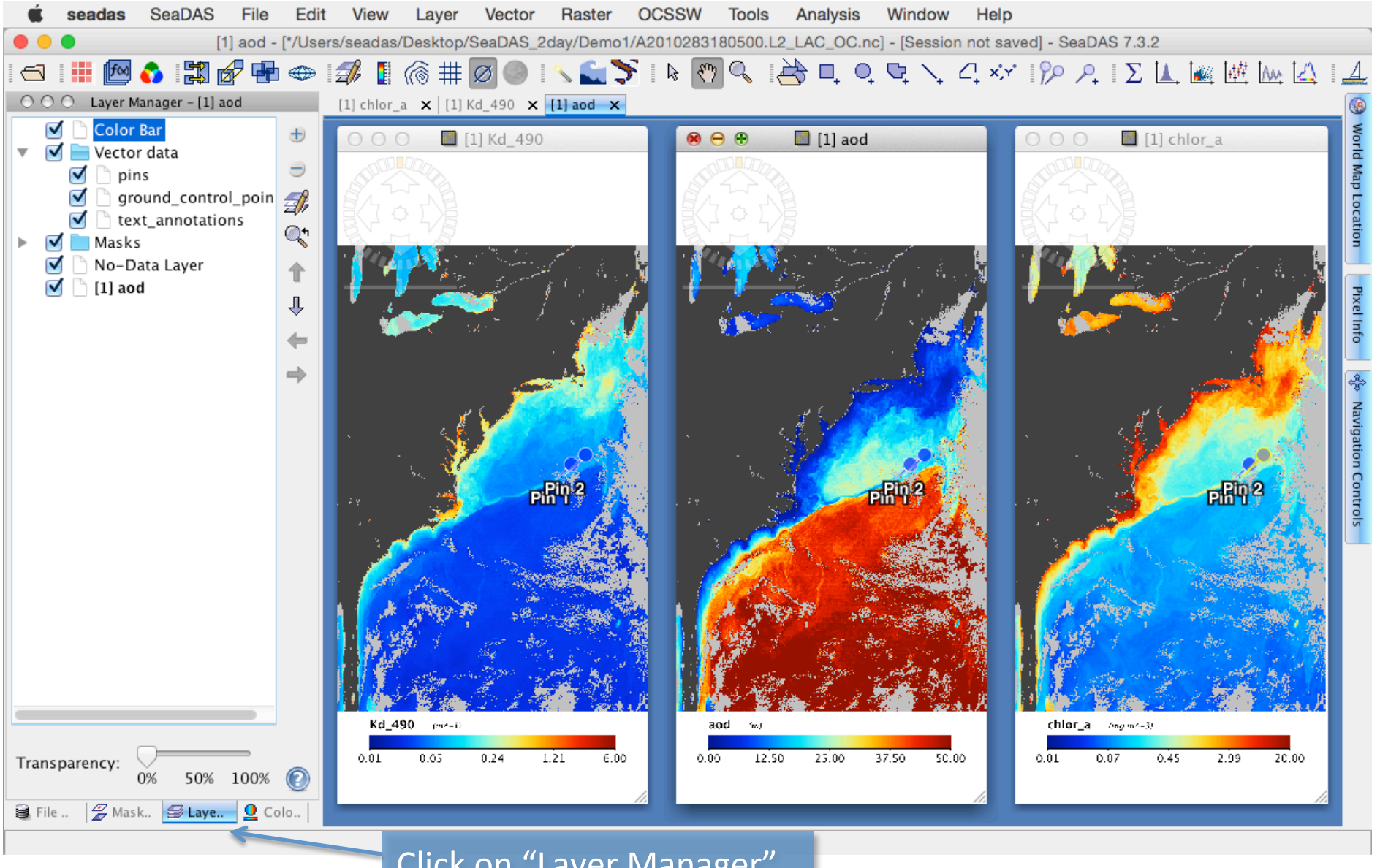
Repeat Steps for aod Band



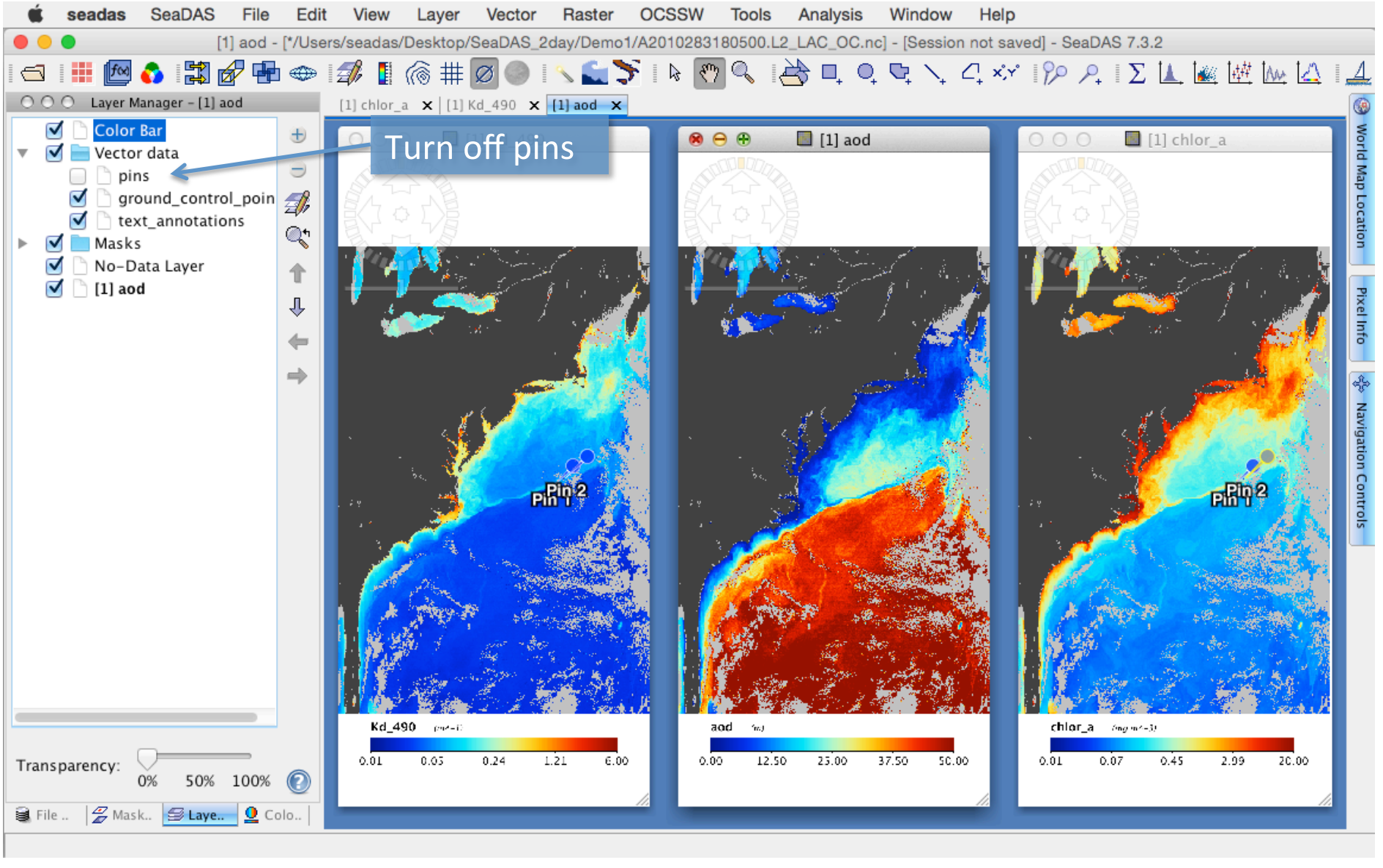
Repeat Steps for aod Band



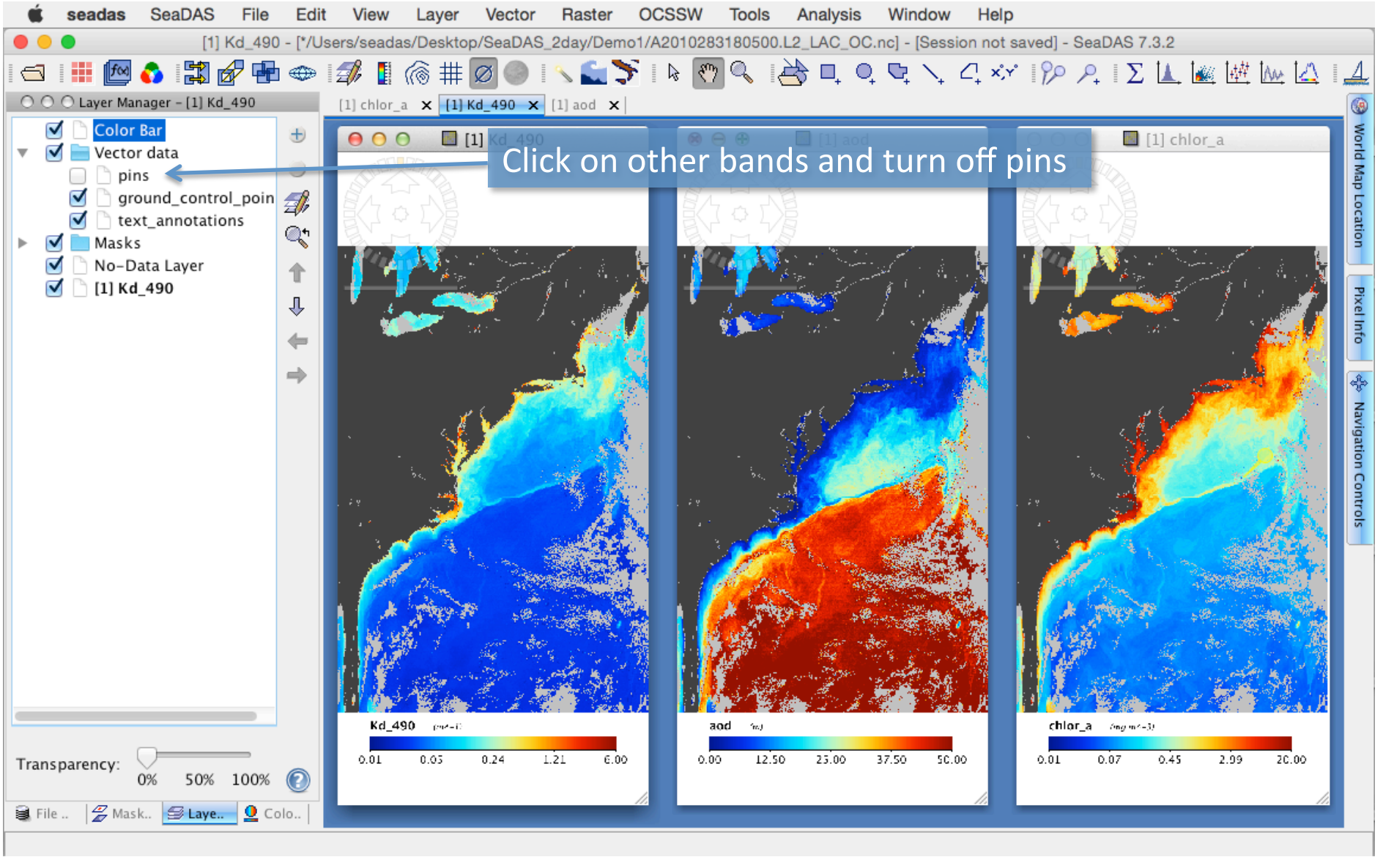
Repeat Steps for aod Band



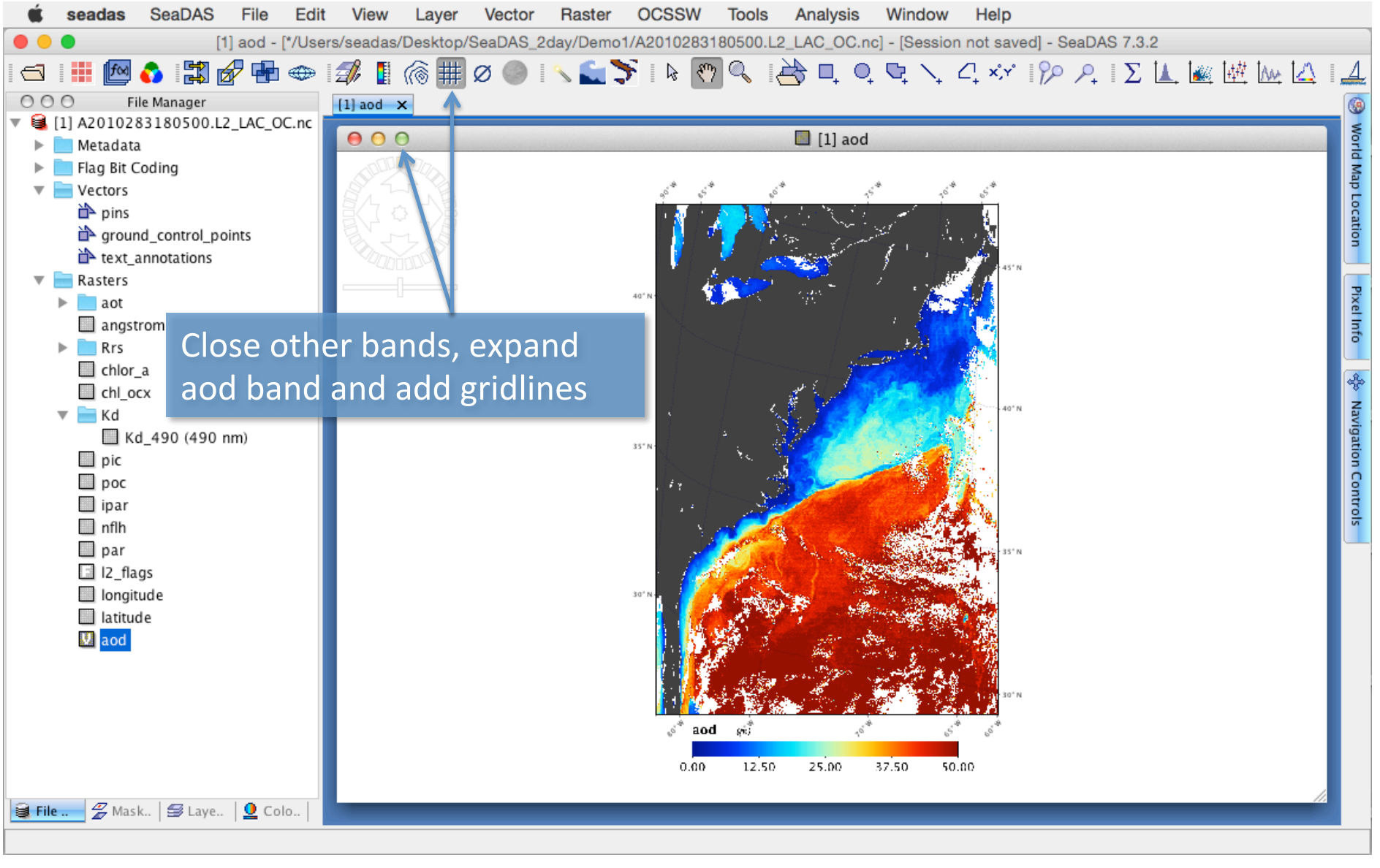
Repeat Steps for aod Band



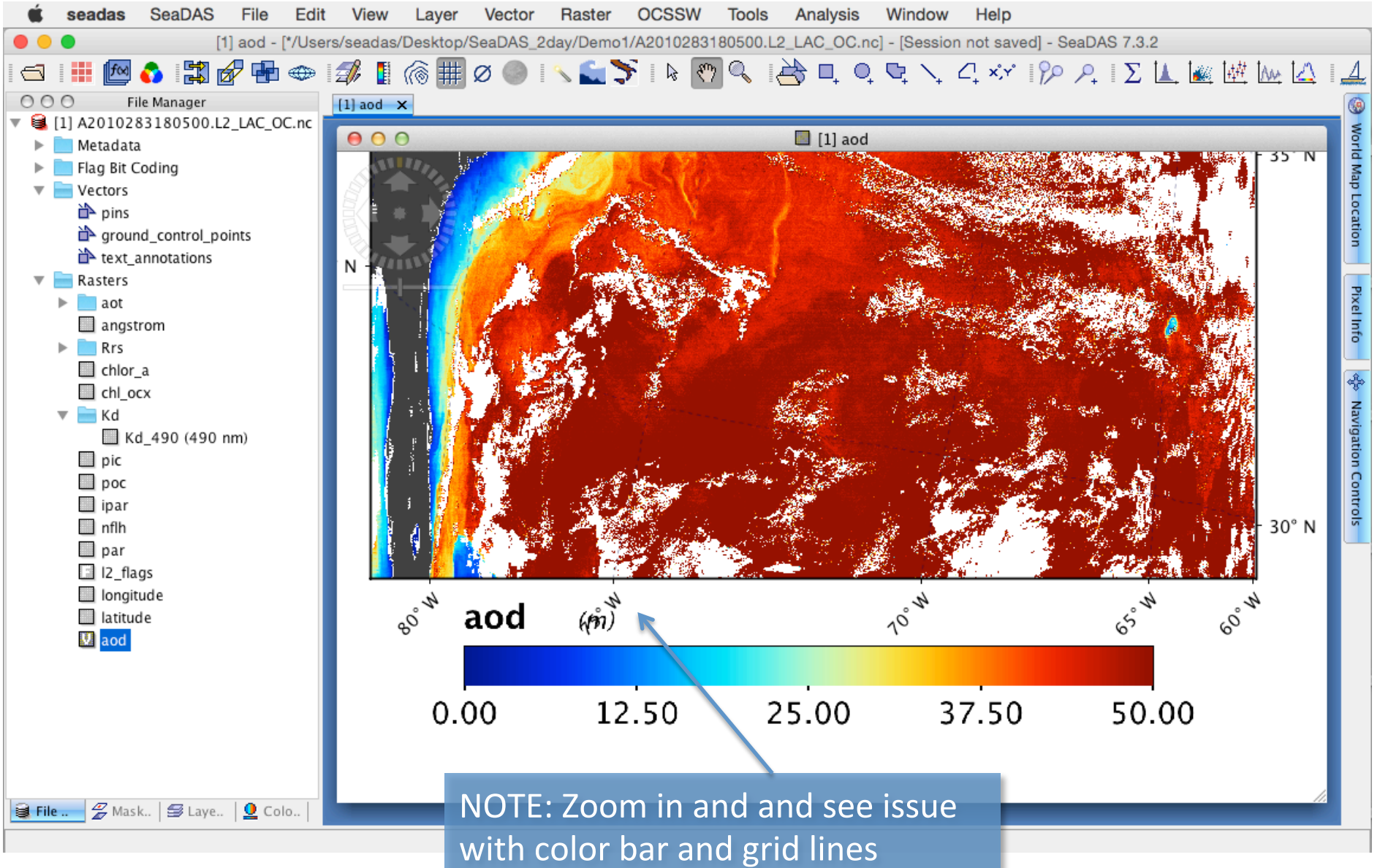
Repeat Steps for aod Band



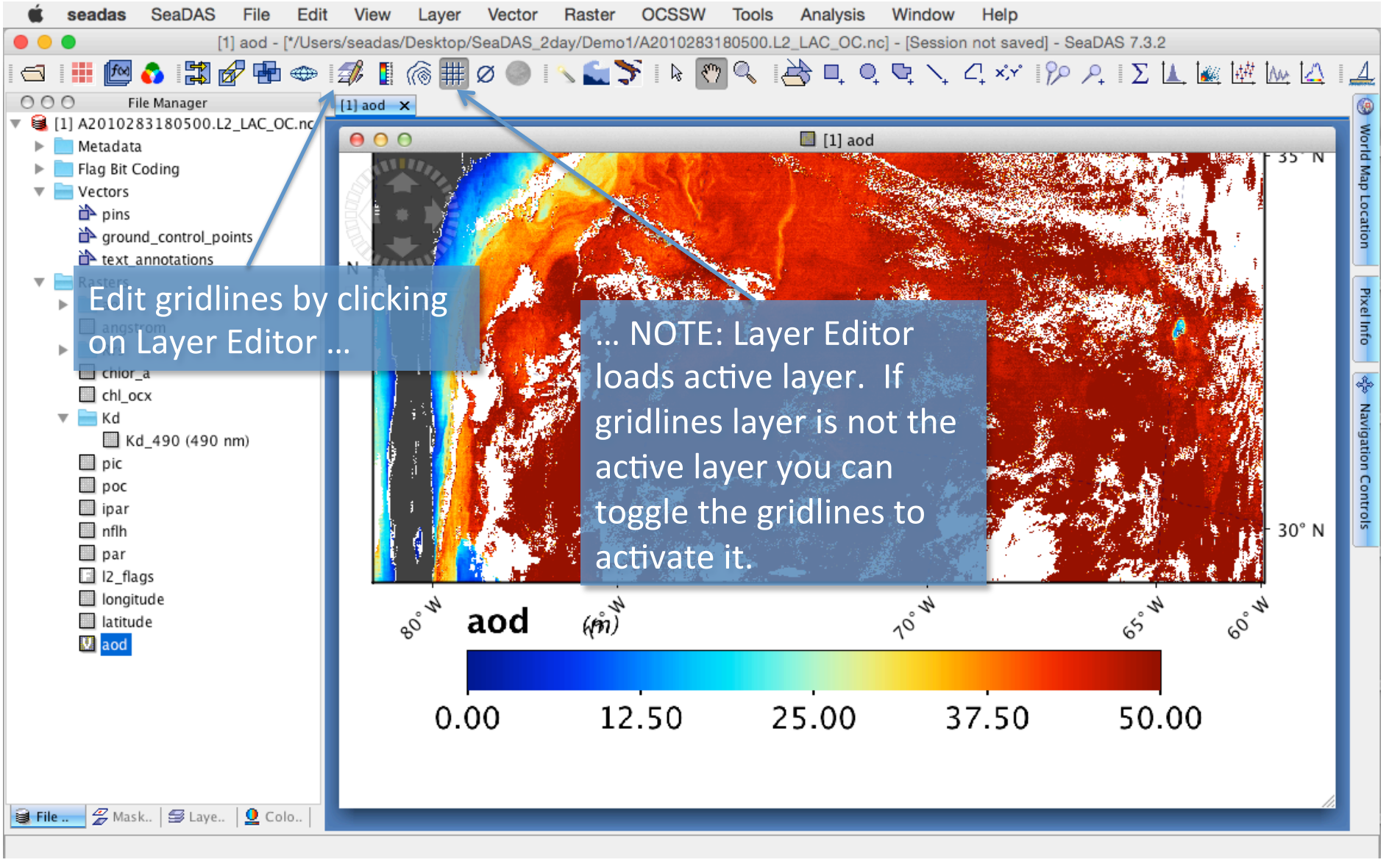
Gridline Layer (Graticule)



Gridline Layer (Graticule)

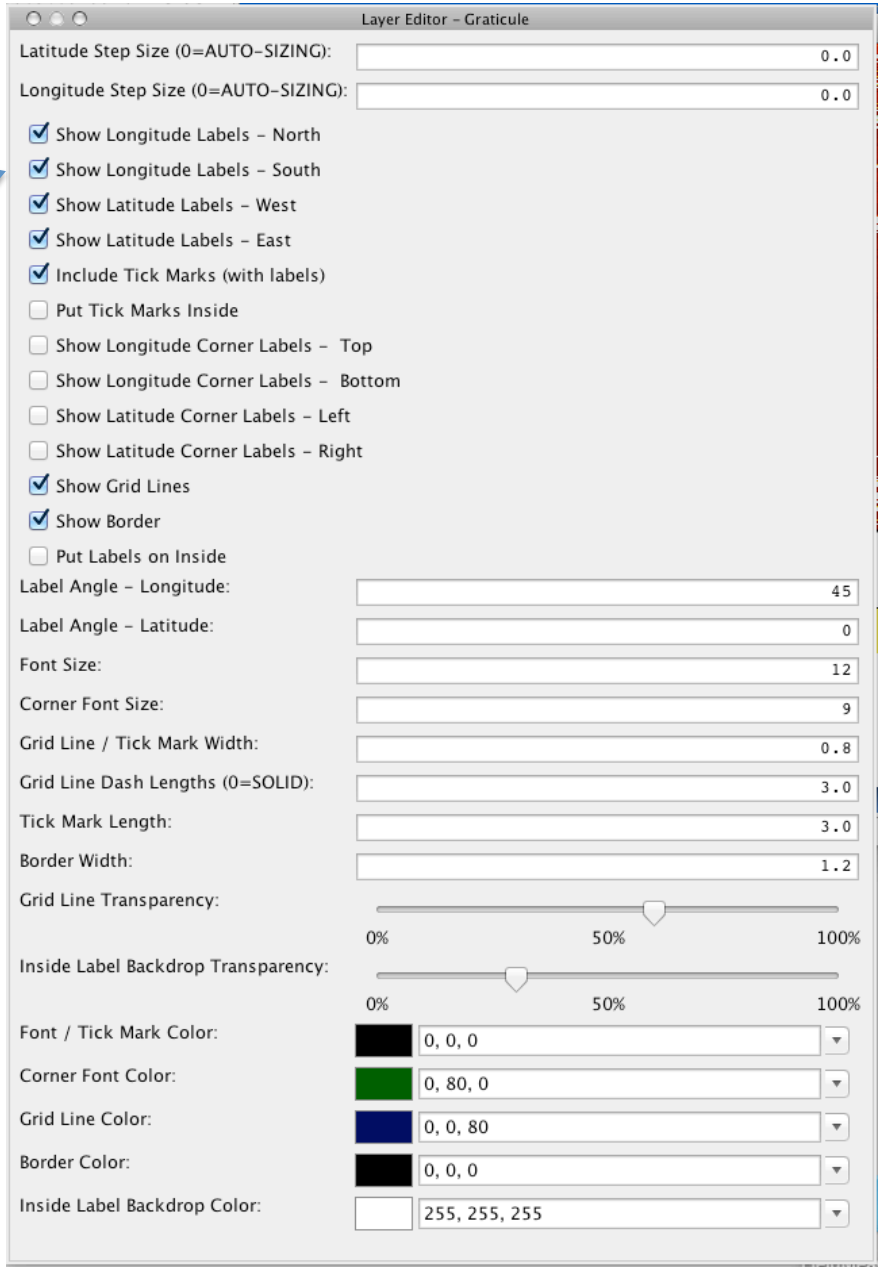


Gridline Layer (Graticule)



Gridline Layer (Graticule)

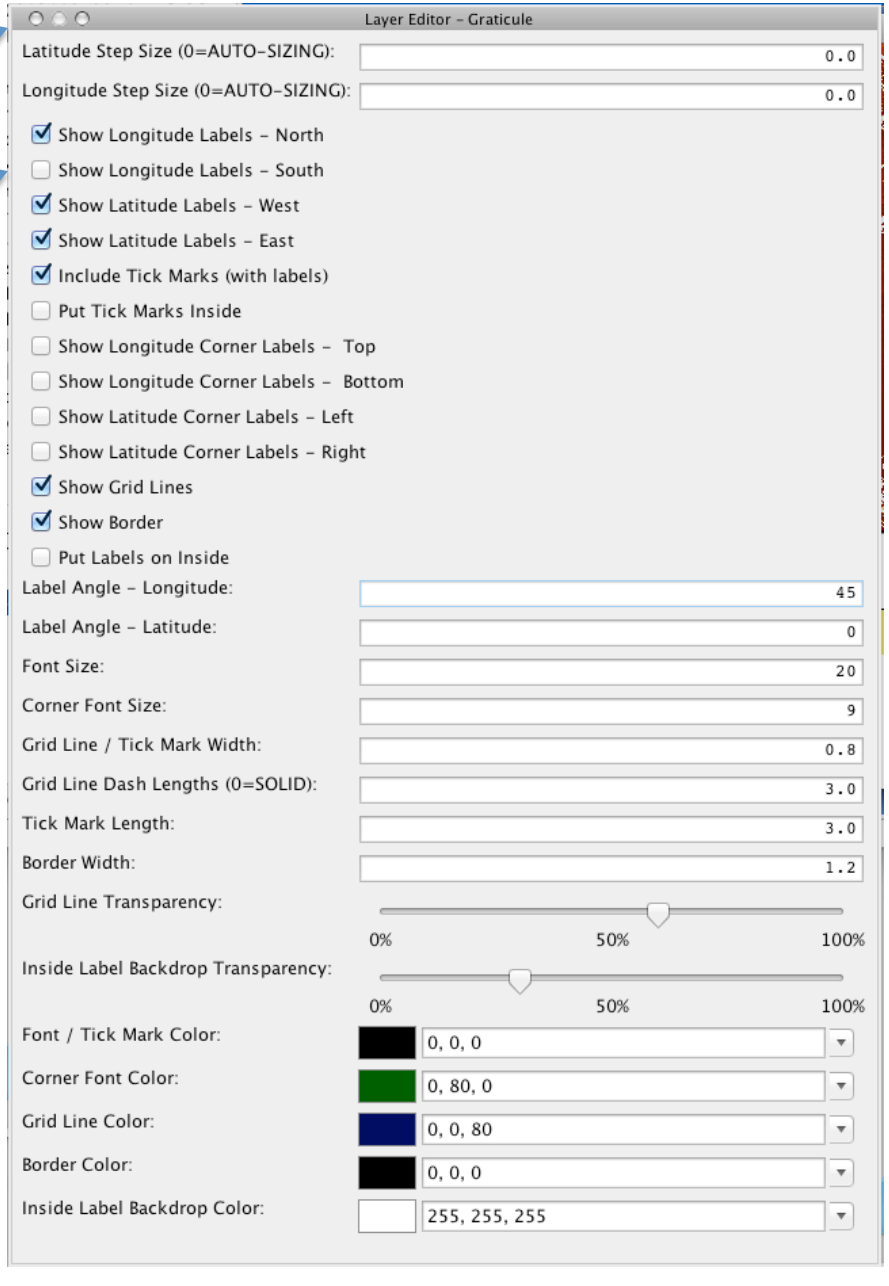
Toggle off South labels



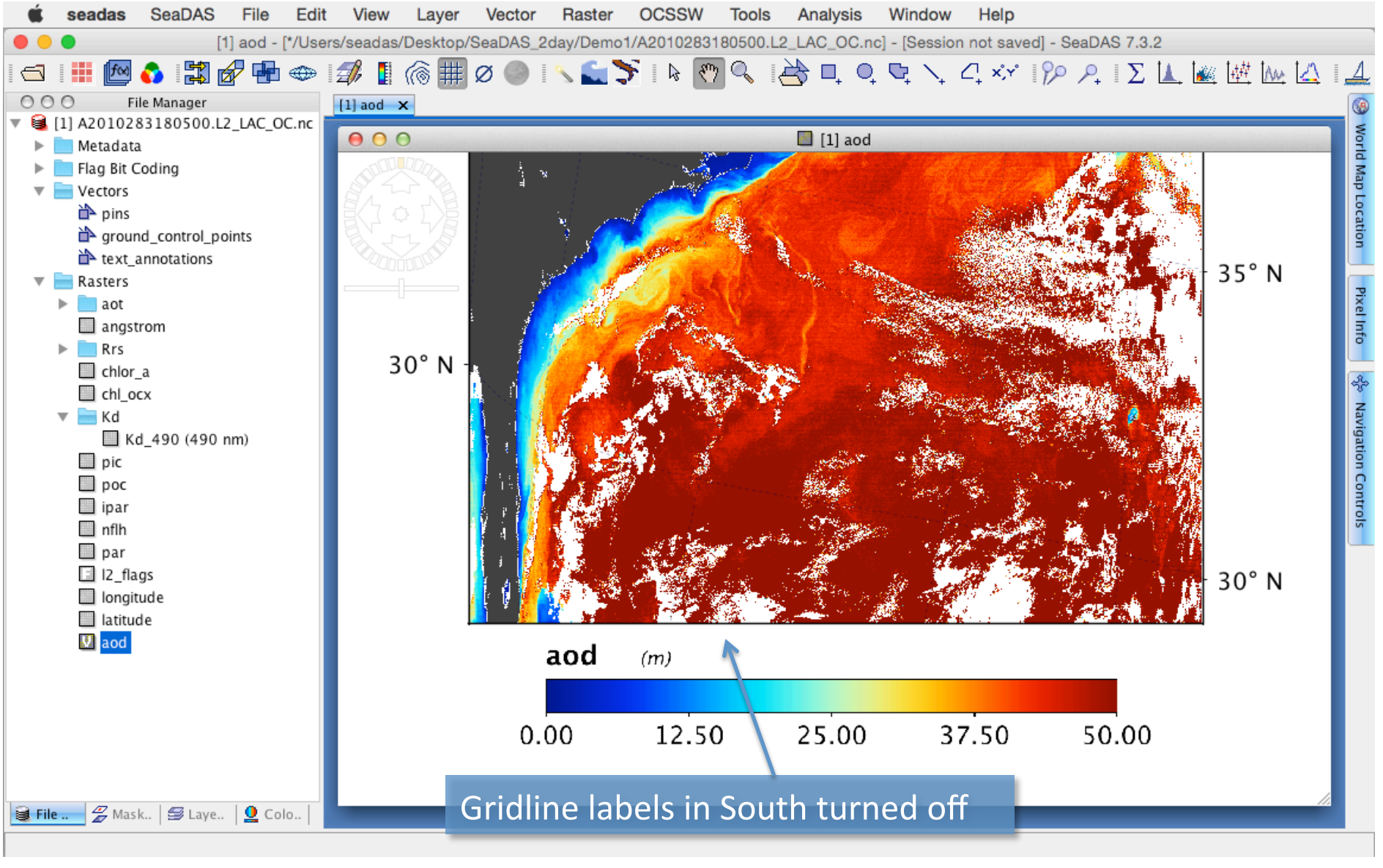
Gridline Layer (Graticule)

… close

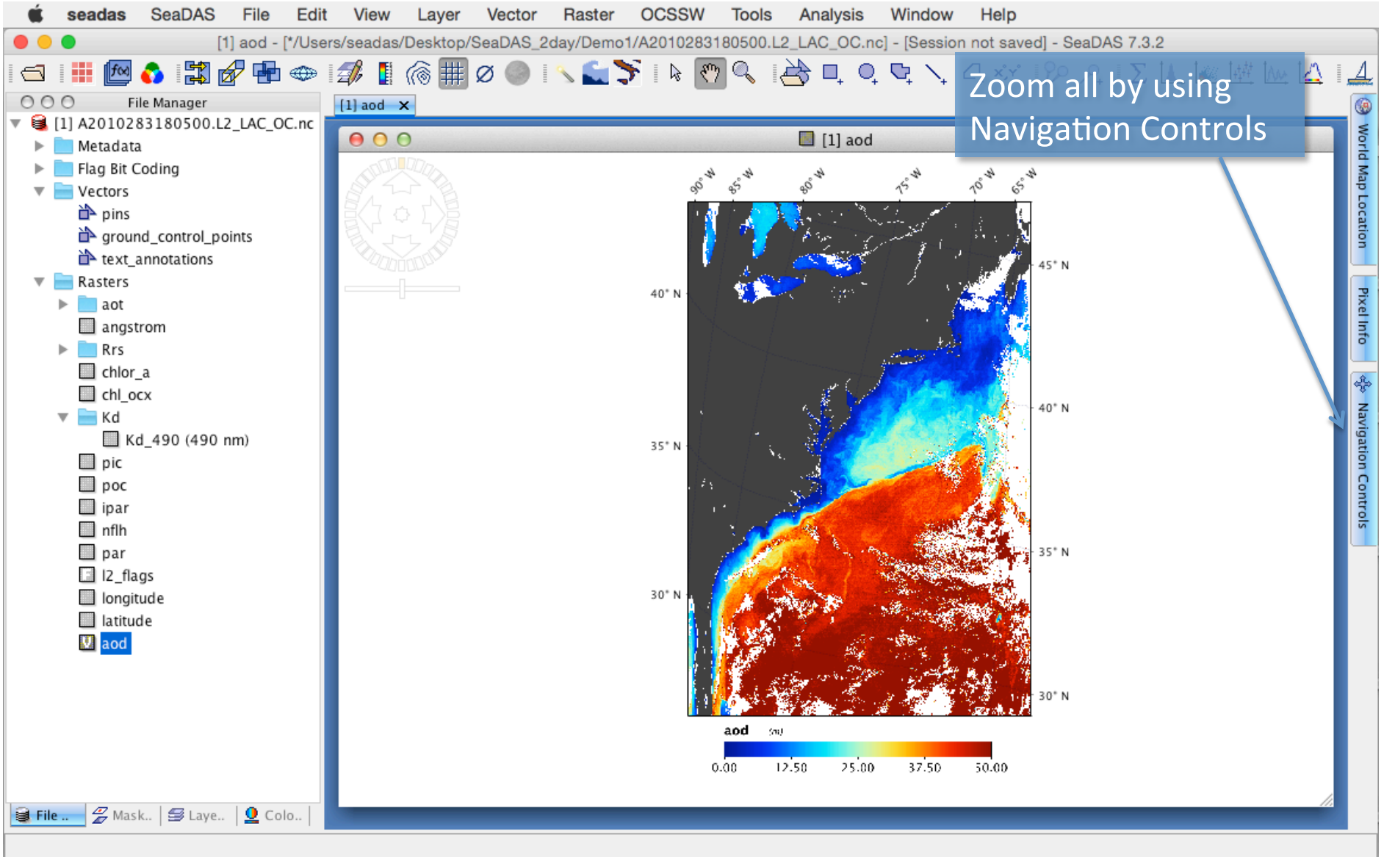
Toggle off South labels …



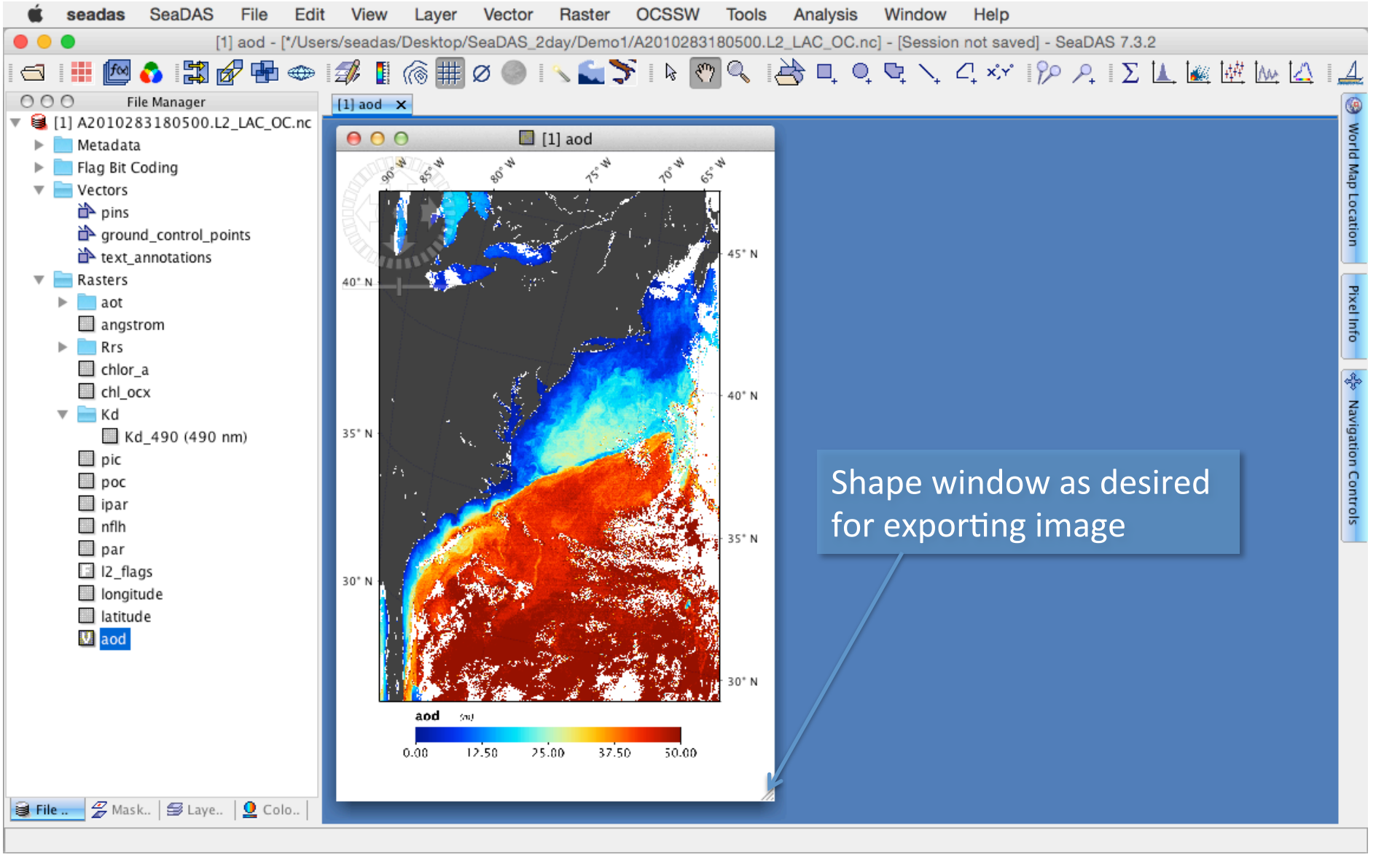
Gridline Layer (Graticule)



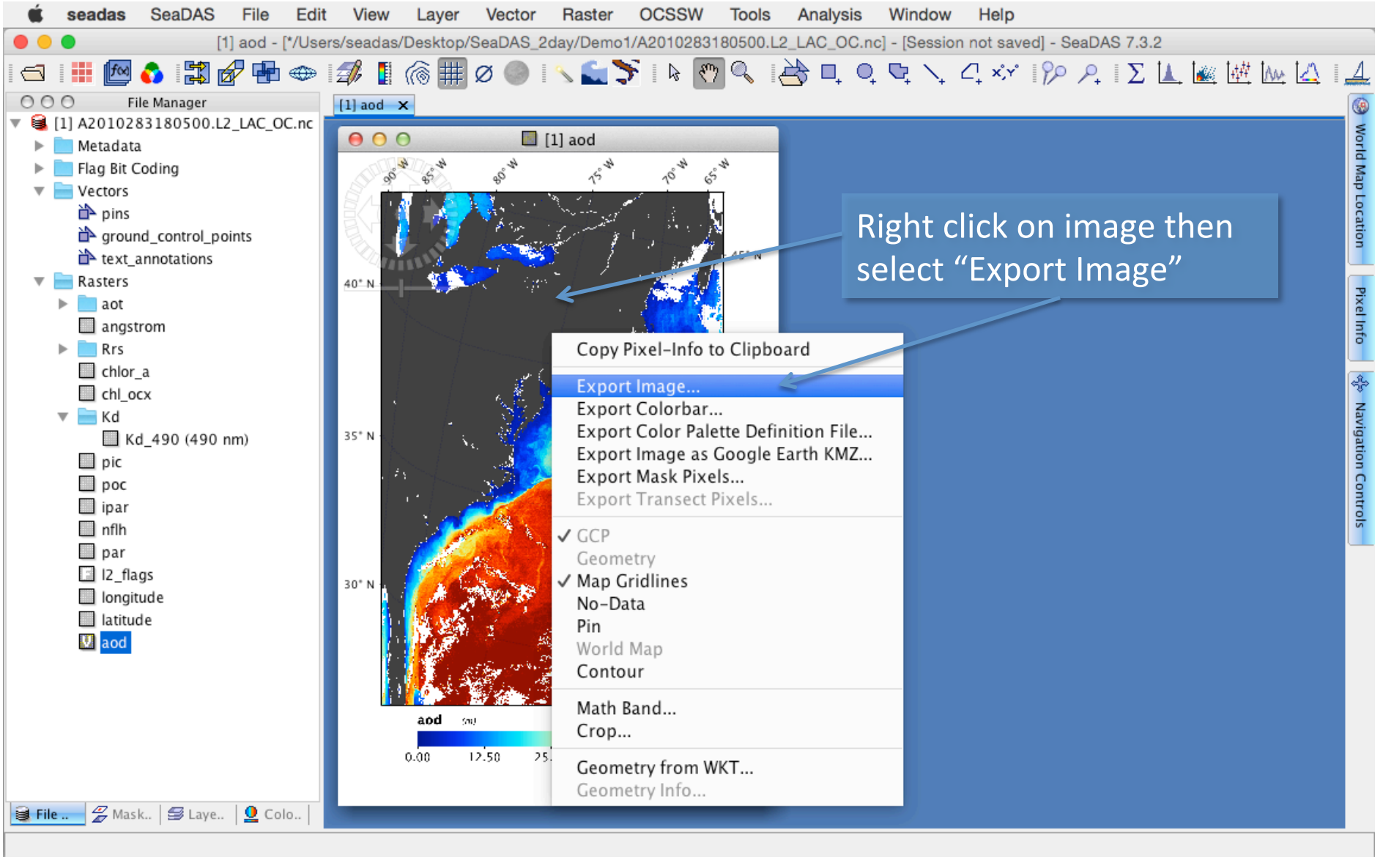
Export an Image



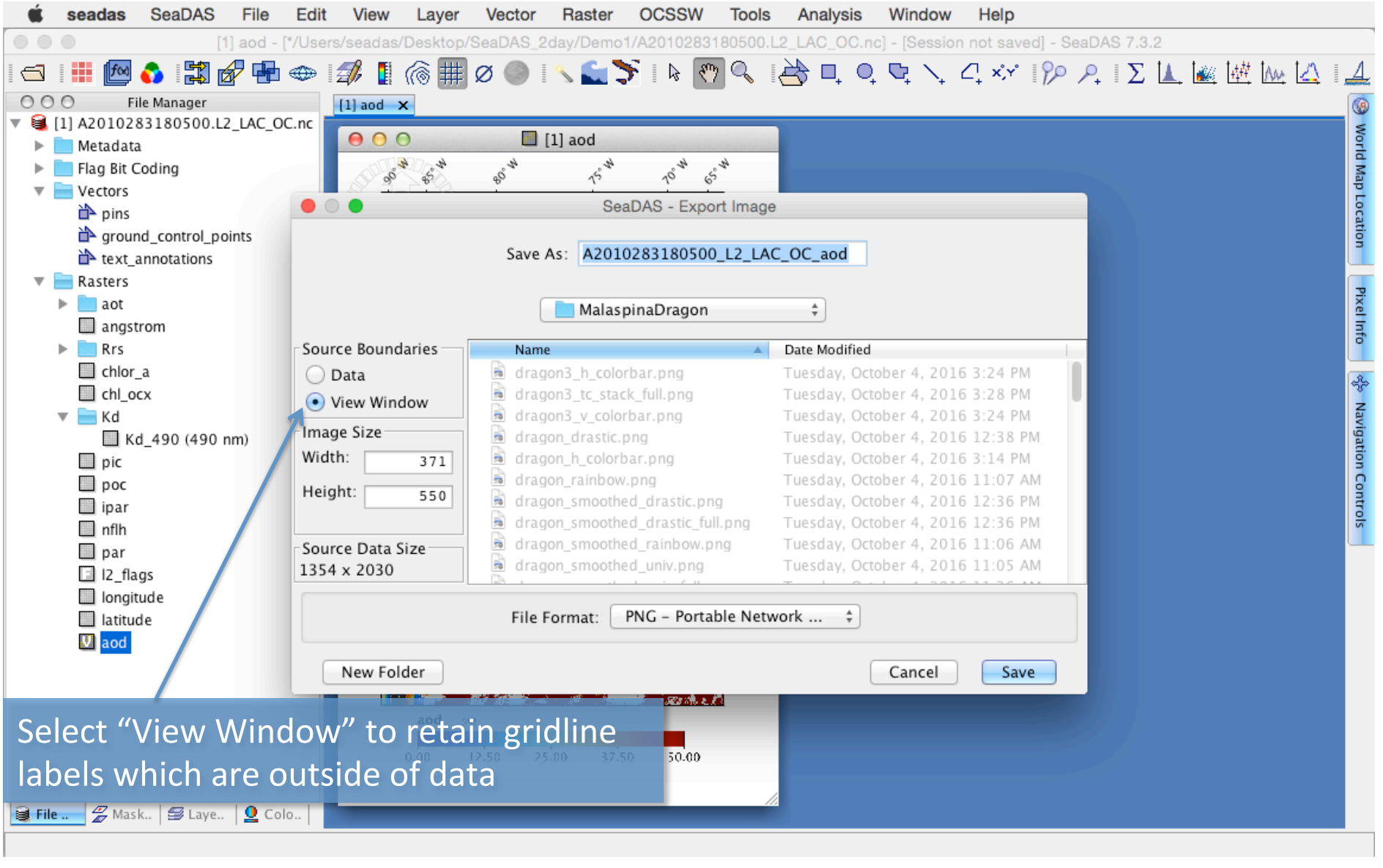
Export an Image



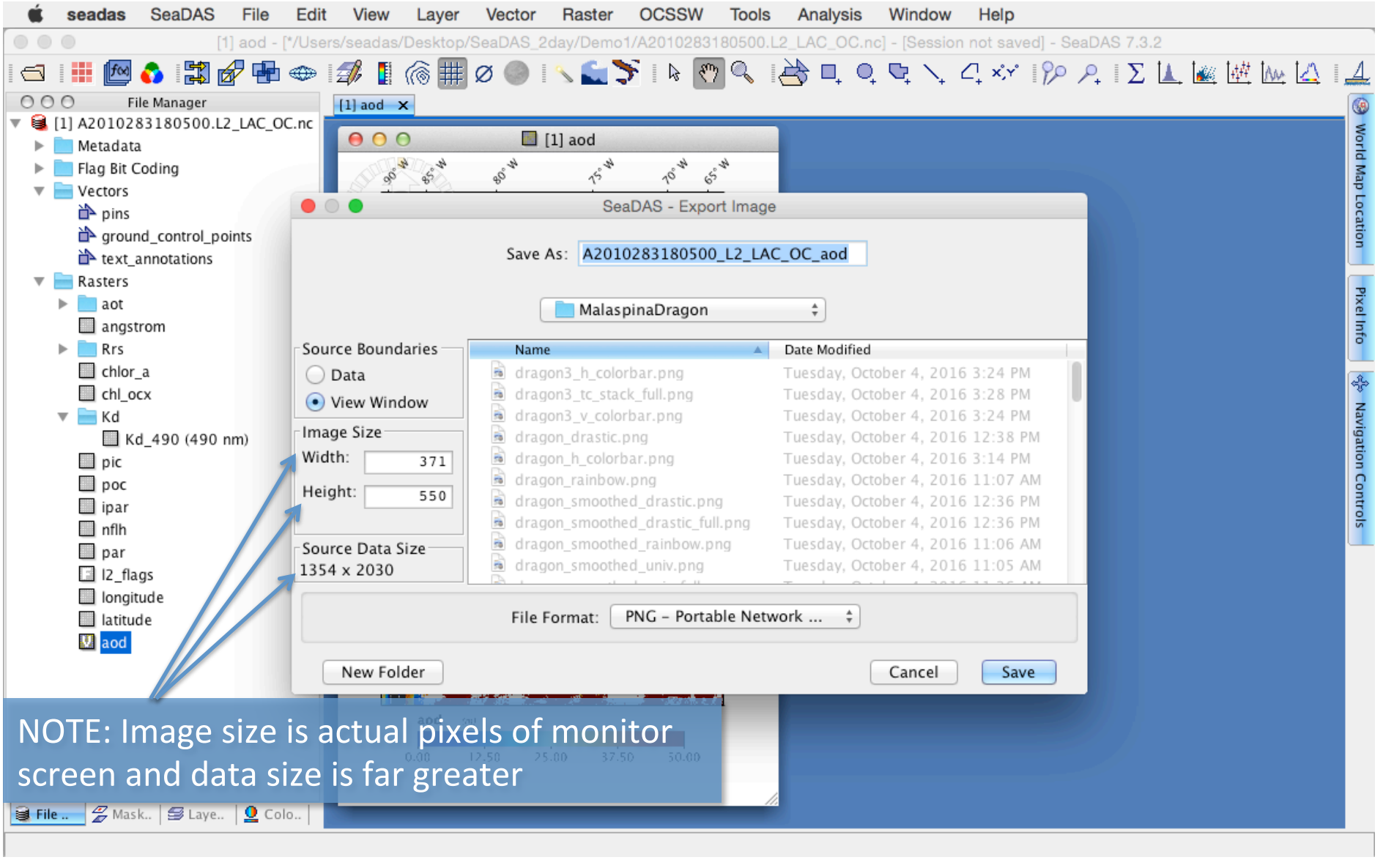
Export an Image



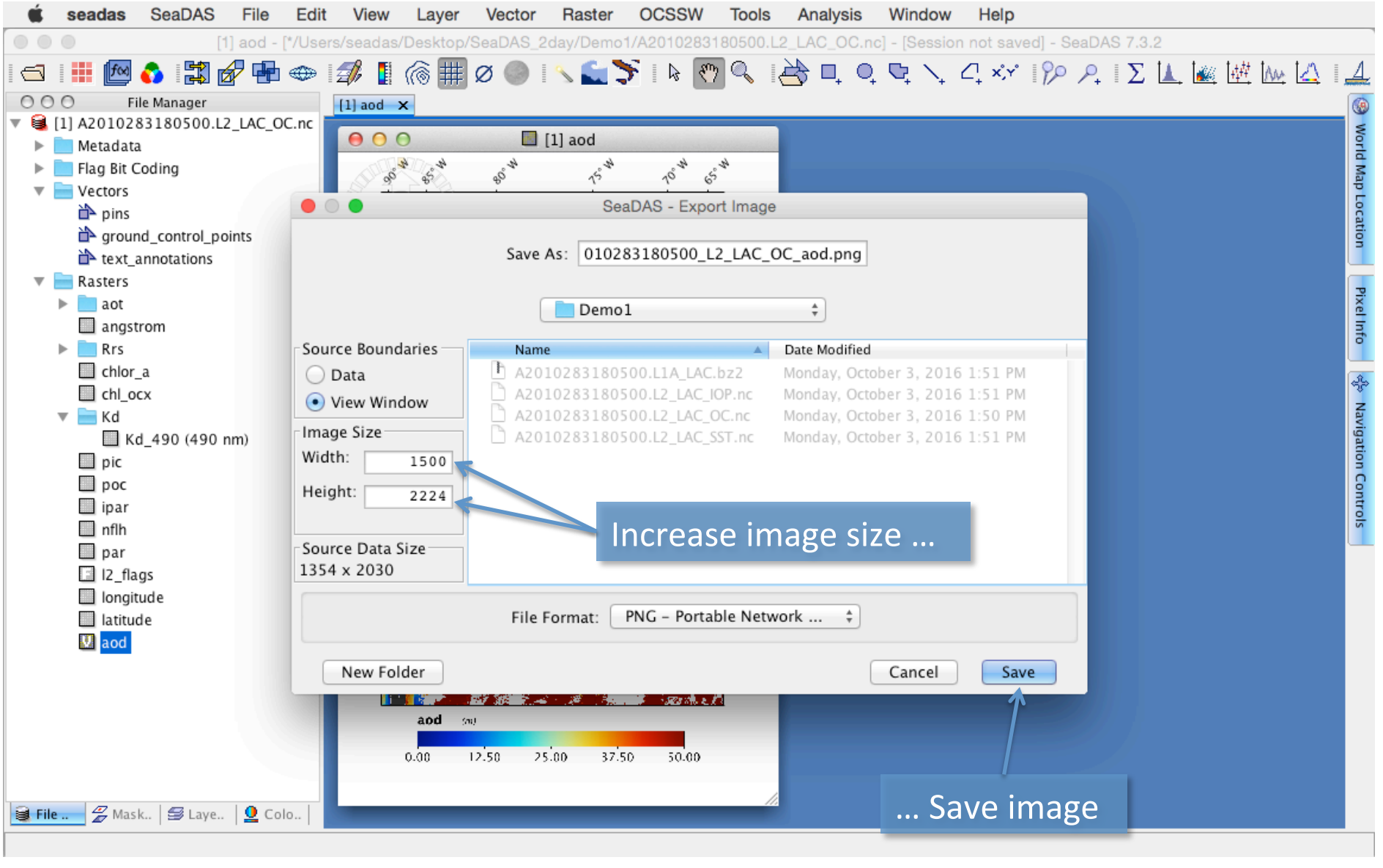
Export an Image



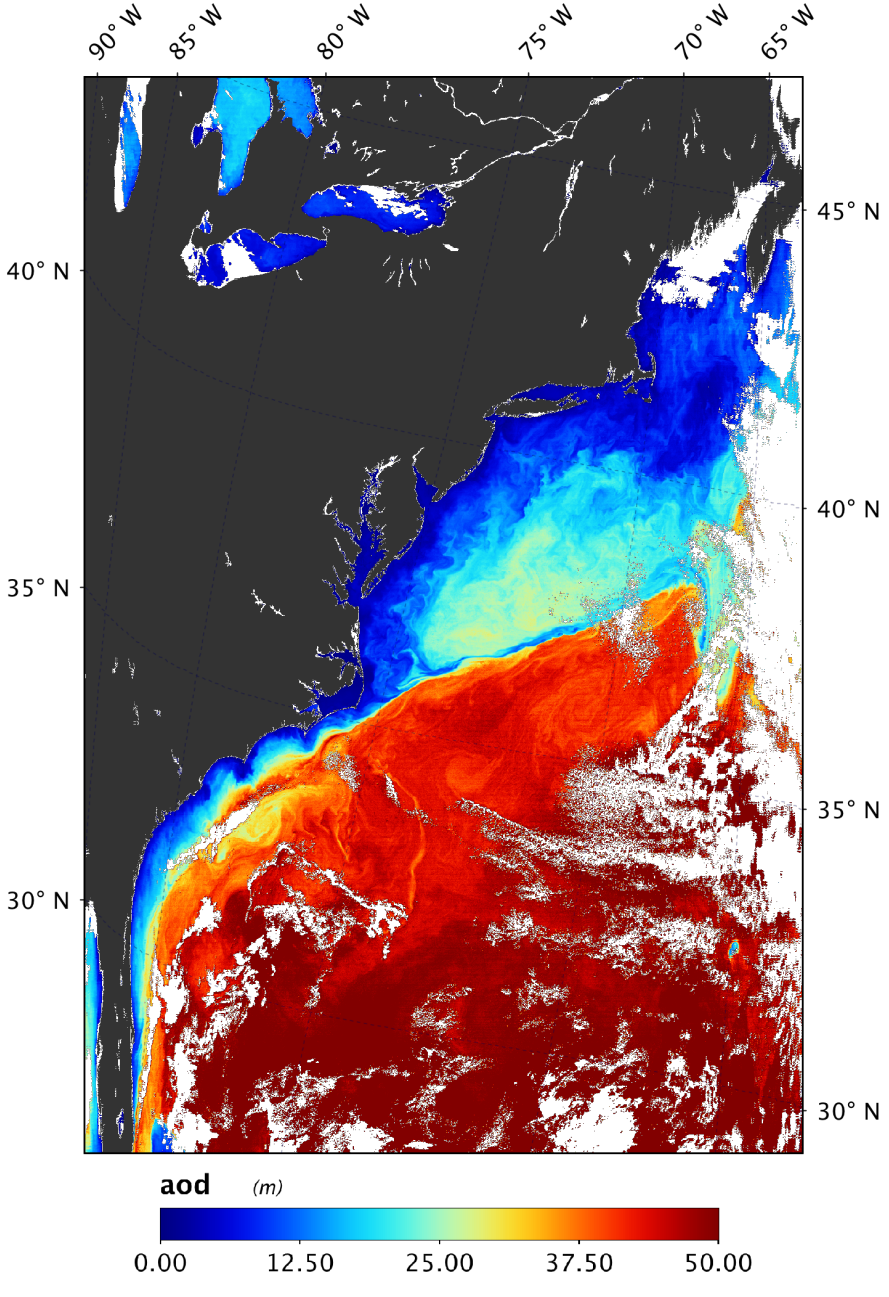
Export an Image



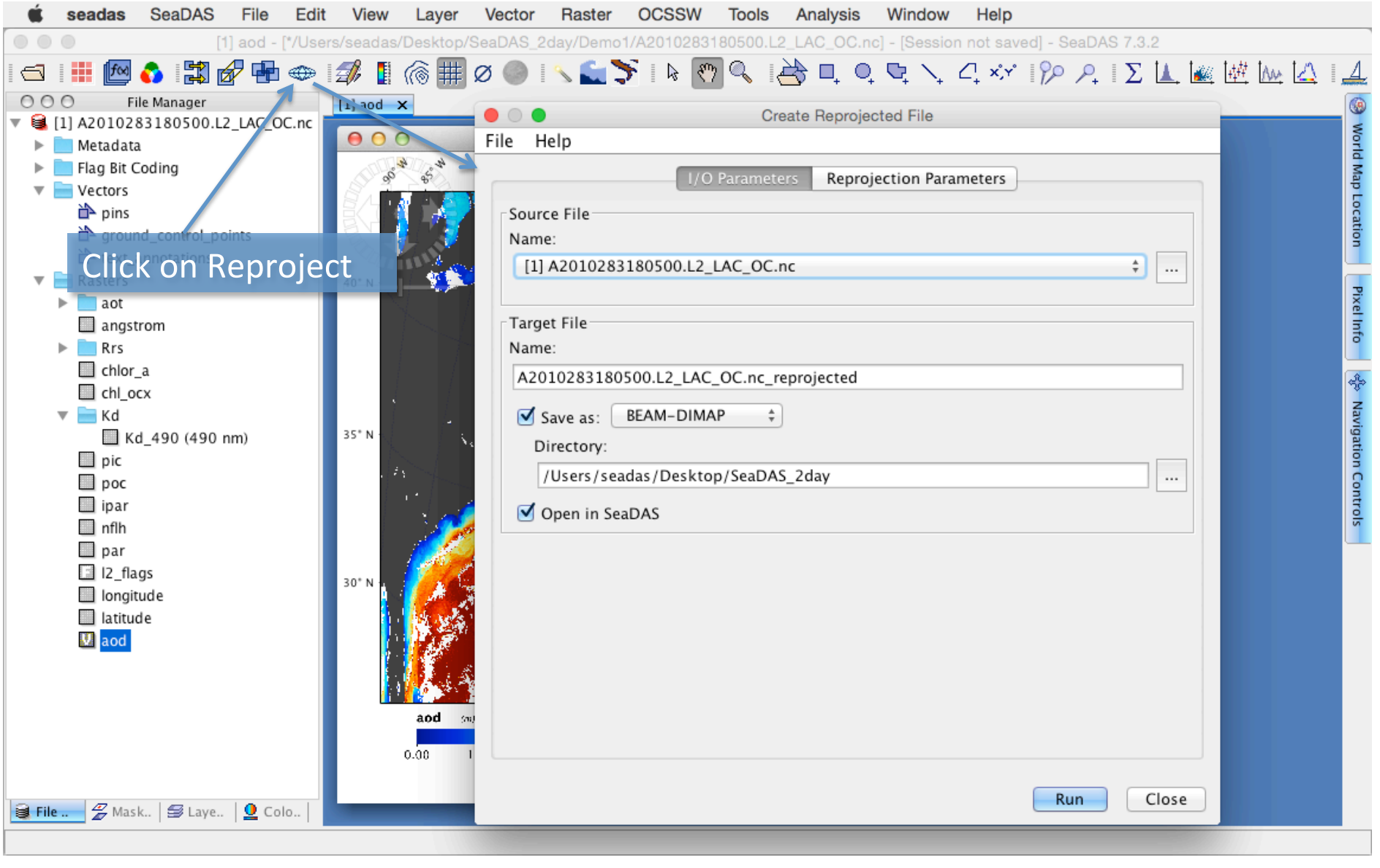
Export an Image



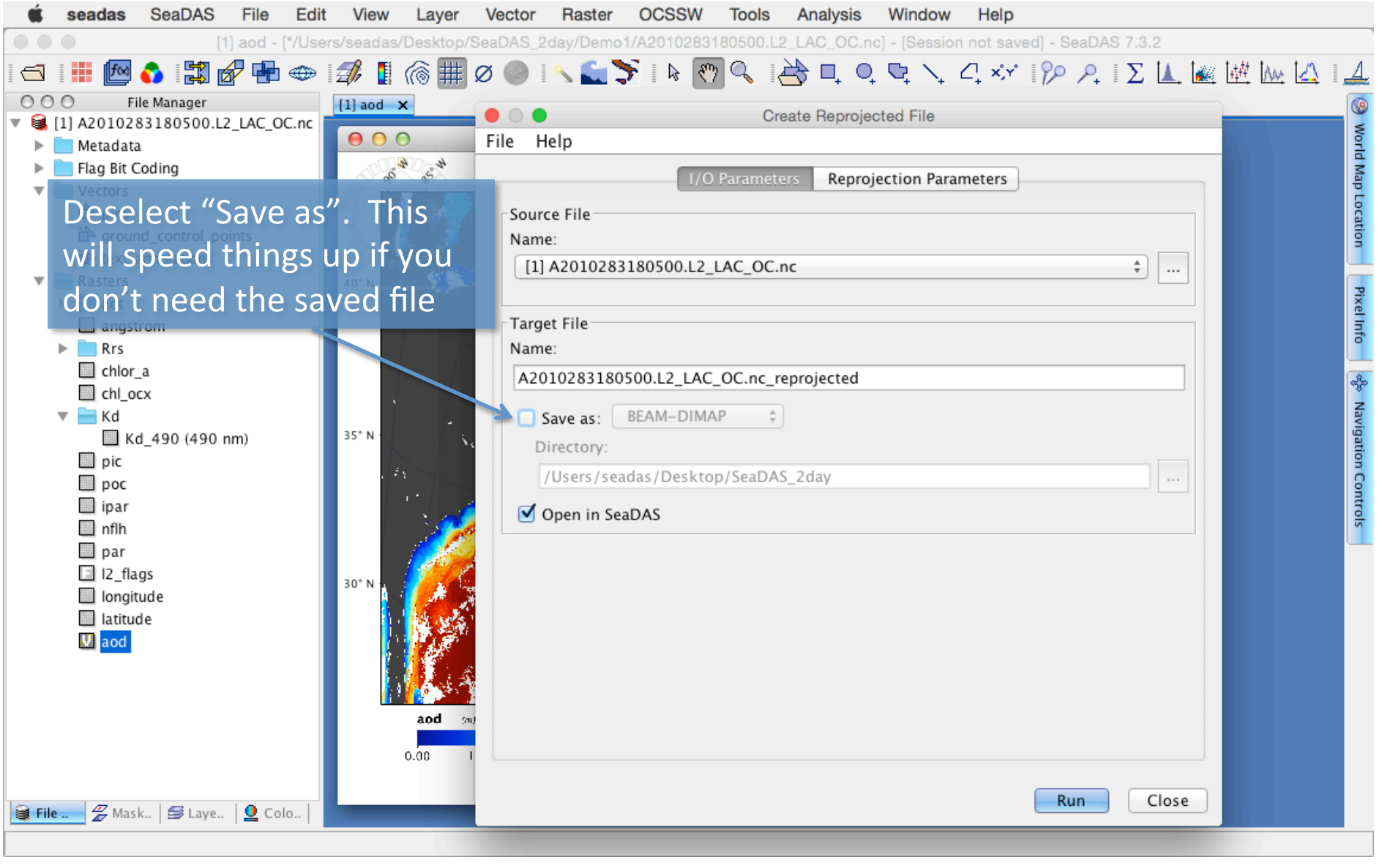
Export an Image



Reproject

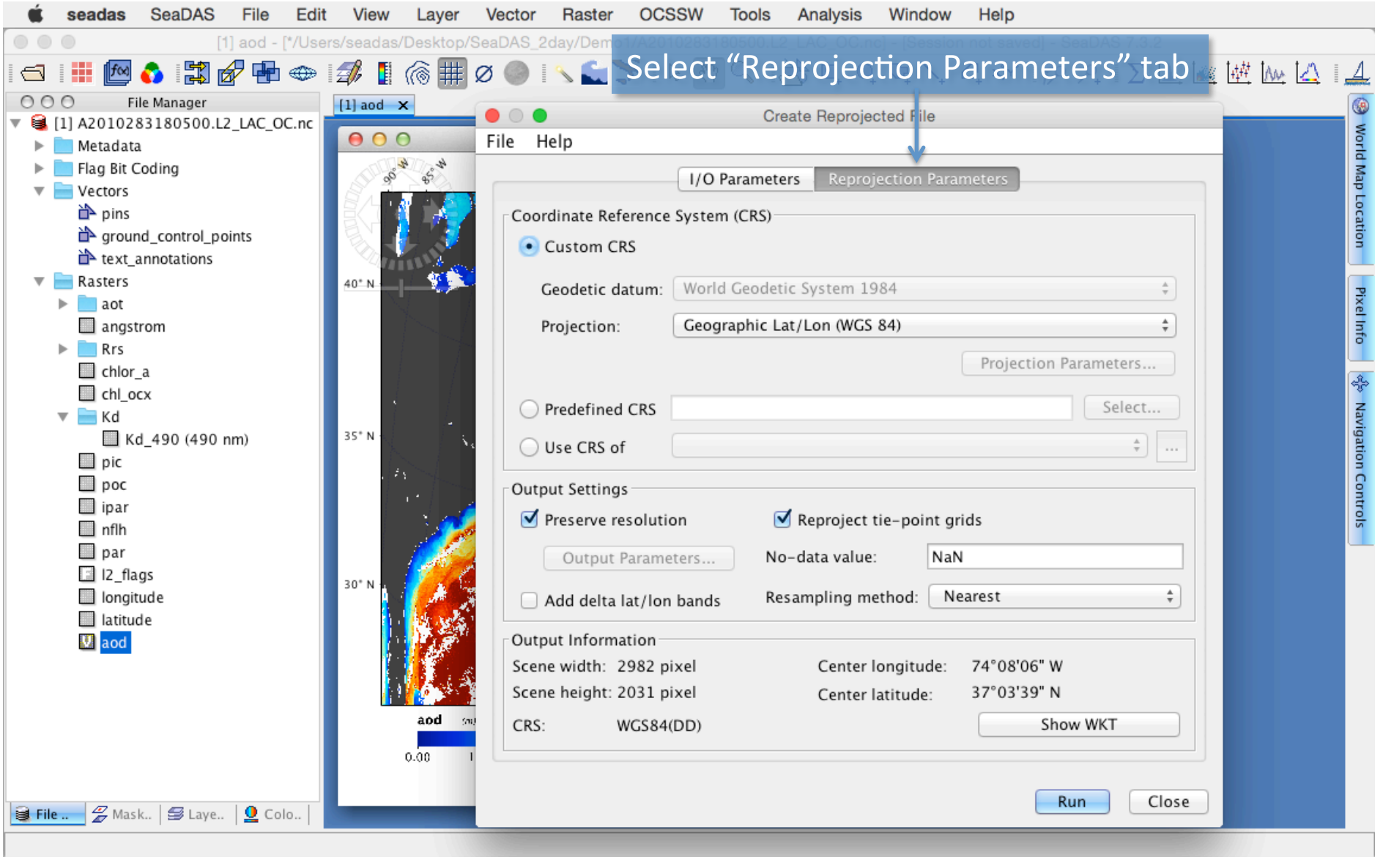

seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] aod - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Vectors
pins
ground_control_points
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
Click on Reproject
Create Reprojected File
File Help
I/O Parameters
Reprojection Parameters
Source File
Name:
[1] A2010283180500.L2_LAC_OC.nc
Target File
Name:
A2010283180500.L2_LAC_OC.nc_reprojected
Save as:
BEAM-DIMAP
Directory:
/Users/seadas/Desktop/SeaDAS_2day
Open in SeaDAS
Run
Close
World Map Location
Pixel Info
Navigation Controls
35° N
30° N
aod
0.00

Reproject

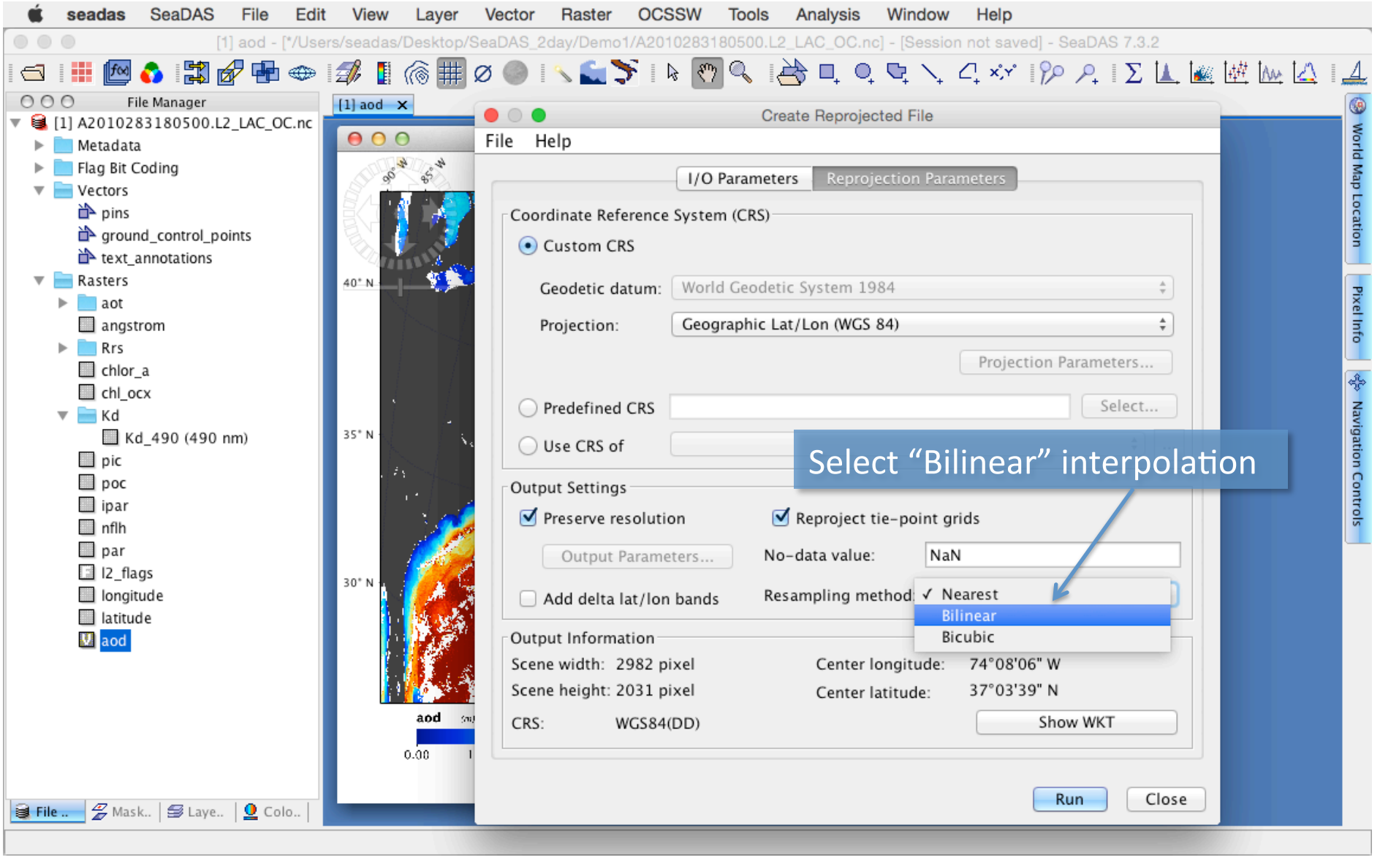


Deselect “Save as”. This will speed things up if you don’t need the saved file

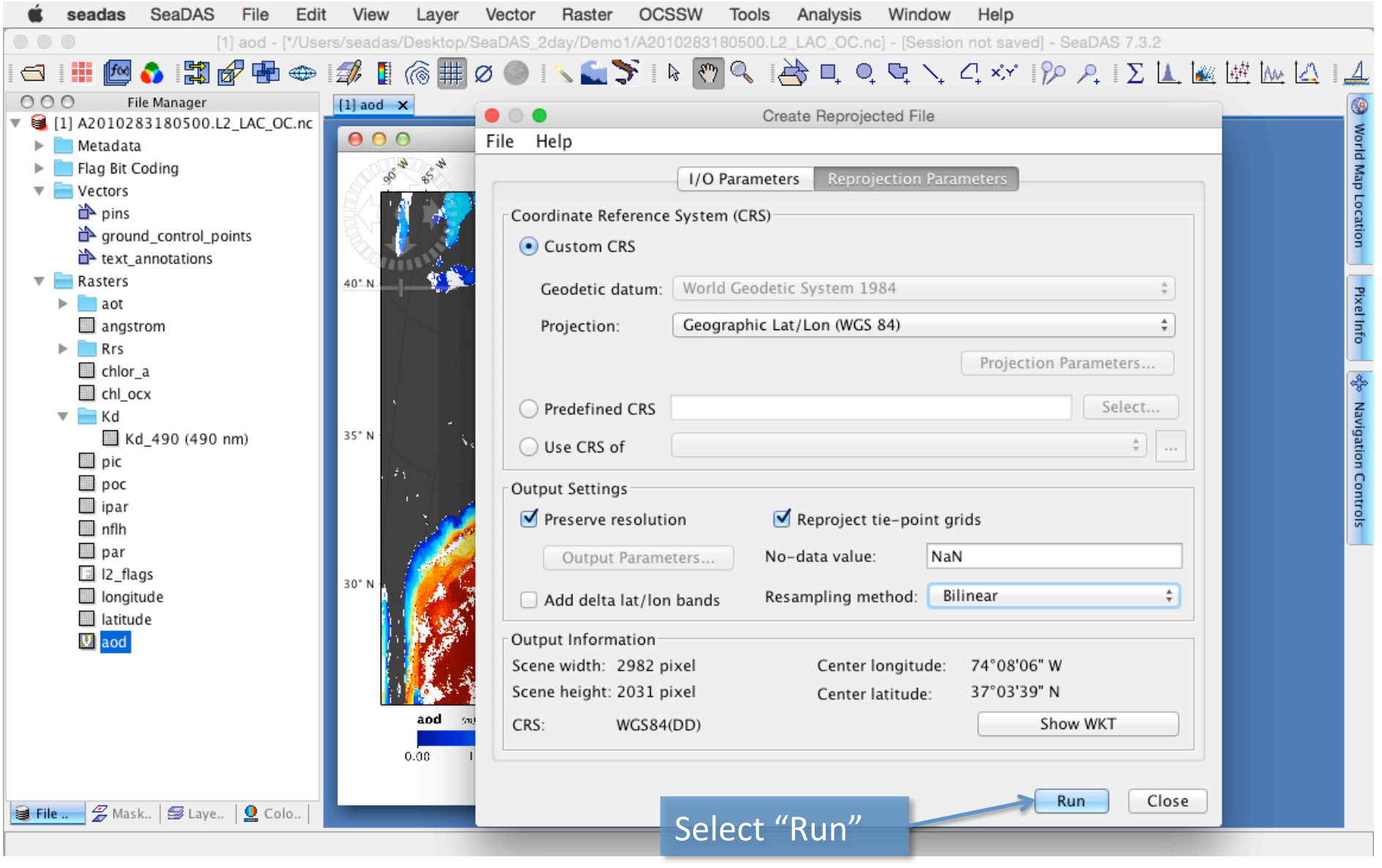
Reproject


Select “Reprojection Parameters” tab
seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Vectors
pins
ground_control_points
text_annotations
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[1] aod
Create Reprojected File
File Help
I/O Parameters
Reprojection Parameters
Coordinate Reference System (CRS)
Custom CRS
Geodetic datum: World Geodetic System 1984
Projection: Geographic Lat/Lon (WGS 84)
Projection Parameters...
Predefined CRS
Select...
Use CRS of
Output Settings
Preserve resolution
Reproject tie-point grids
Output Parameters...
No-data value: NaN
Add delta lat/lon bands
Resampling method: Nearest
Output Information
Scene width: 2982 pixel
Scene height: 2031 pixel
Center longitude: 74°08'06" W
Center latitude: 37°03'39" N
CRS: WGS84(DD)
Show WKT
Run
Close
World Map Location
Pixel Info
Navigation Controls

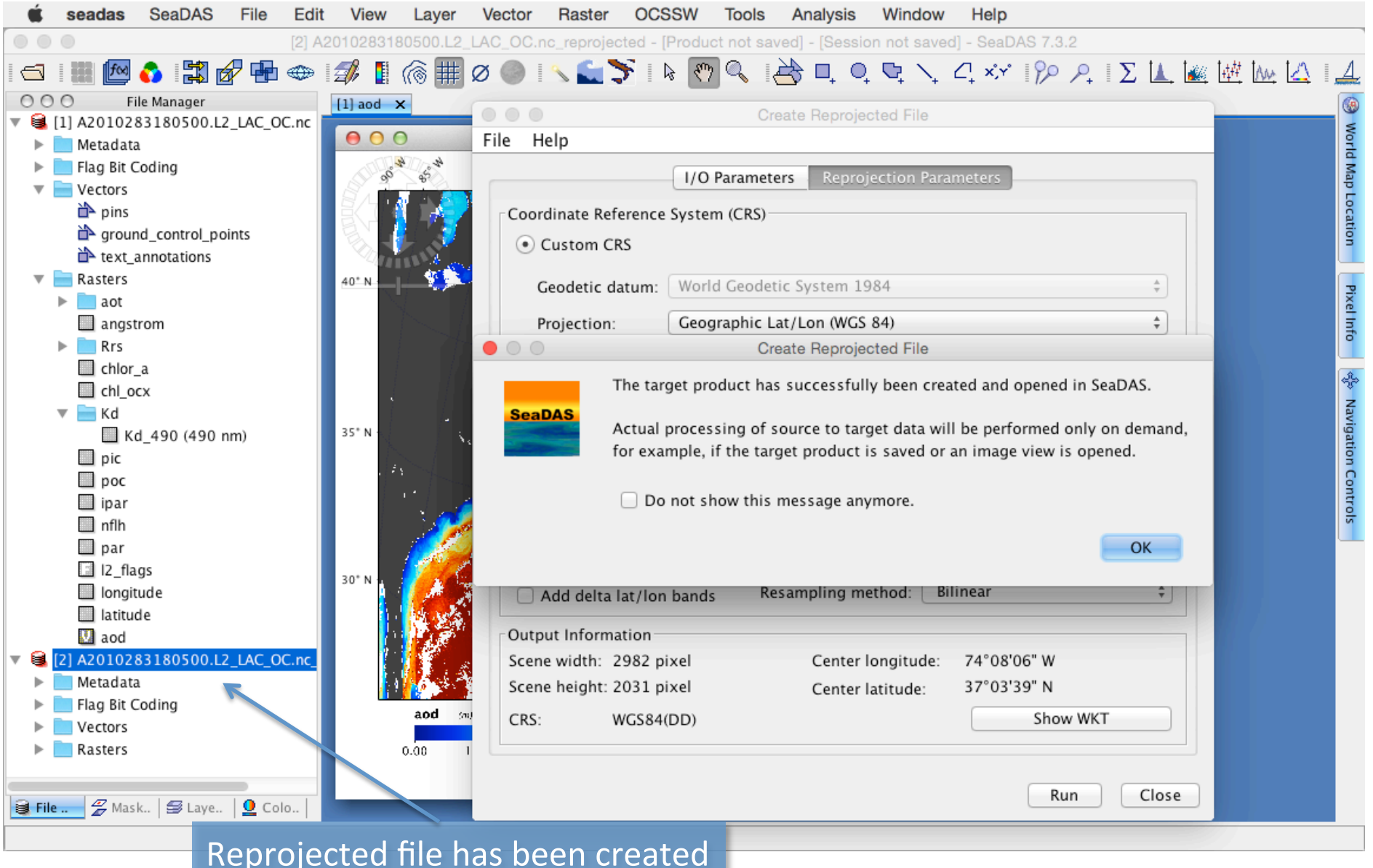
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] aod - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Vectors
pins
ground_control_points
text_annotations
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[1] aod
Create Reprojected File
File Help
I/O Parameters
Reprojection Parameters
Coordinate Reference System (CRS)
Custom CRS
Geodetic datum: World Geodetic System 1984
Projection: Geographic Lat/Lon (WGS 84)
Projection Parameters...
Predefined CRS
Select...
Use CRS of
Output Settings
Preserve resolution
Reproject tie-point grids
Output Parameters...
No-data value: NaN
Add delta lat/lon bands
Resampling method:
Nearest
Bilinear
Bicubic
Output Information
Scene width: 2982 pixel
Scene height: 2031 pixel
Center longitude: 74°08'06" W
Center latitude: 37°03'39" N
CRS: WGS84(DD)
Show WKT
Run
Close
Select “Bilinear” interpolation
World Map Location
Pixel Info
Navigation Controls
40° N
35° N
30° N
aod
0.00

Reproject

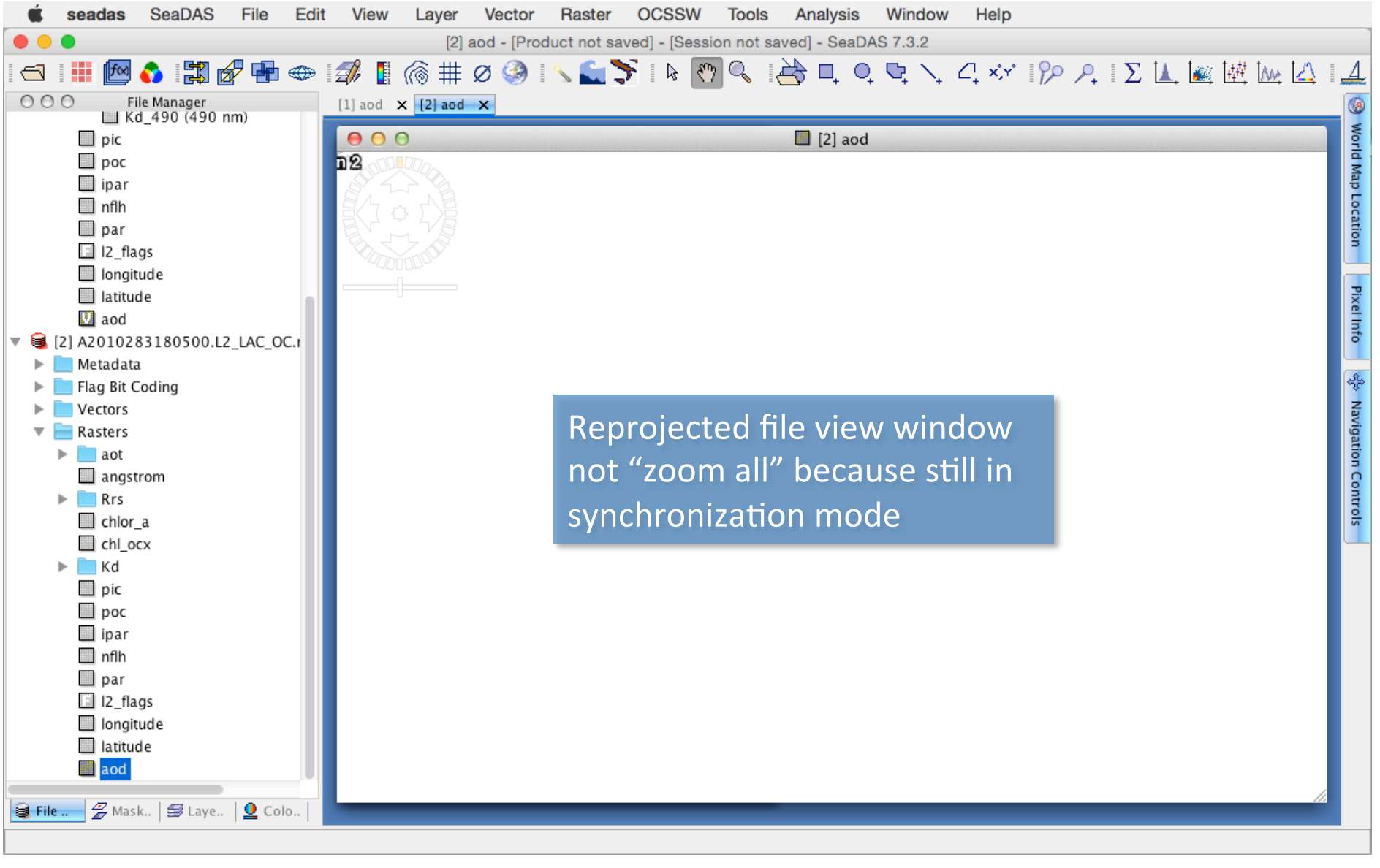

seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[1] aod - [*/Users/seadas/Desktop/SeaDAS_2day/Demo1/A2010283180500.L2_LAC_OC.nc] - [Session not saved] - SeaDAS 7.3.2
File Manager
[1] A2010283180500.L2_LAC_OC.nc
Metadata
Flag Bit Coding
Vectors
pins
ground_control_points
text_annotations
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[1] aod
Create Reprojected File
File Help
I/O Parameters
Reprojection Parameters
Coordinate Reference System (CRS)
Custom CRS
Geodetic datum: World Geodetic System 1984
Projection: Geographic Lat/Lon (WGS 84)
Projection Parameters...
Predefined CRS
Select...
Use CRS of
Output Settings
Preserve resolution
Reproject tie-point grids
Output Parameters...
No-data value: NaN
Add delta lat/lon bands
Resampling method: Bilinear
Output Information
Scene width: 2982 pixel
Scene height: 2031 pixel
CRS: WGS84(DD)
Center longitude: 74°08'06" W
Center latitude: 37°03'39" N
Show WKT
Run
Close
Select "Run"
World Map Location
Pixel Info
Navigation Controls

Reproject

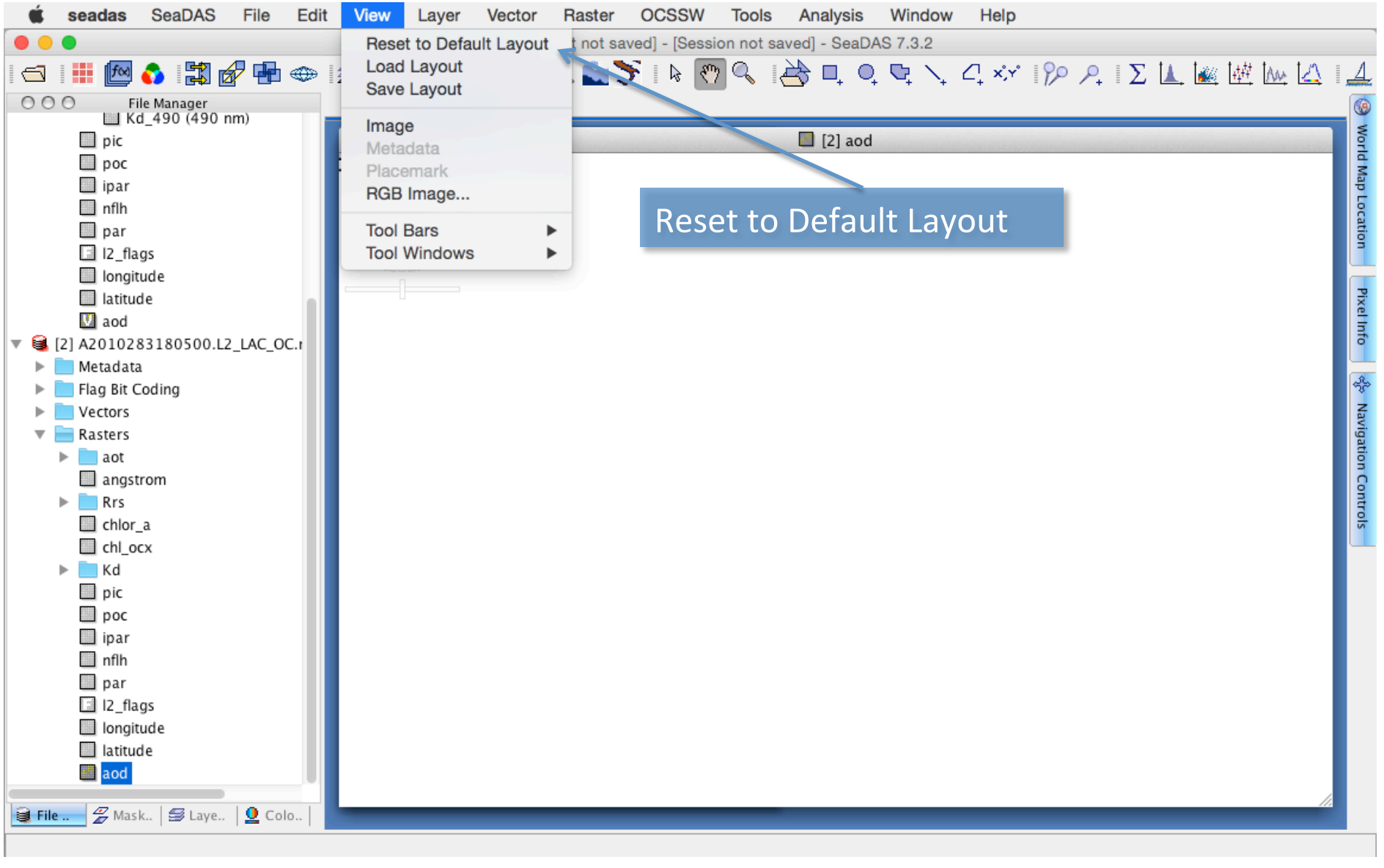


Reprojected file has been created

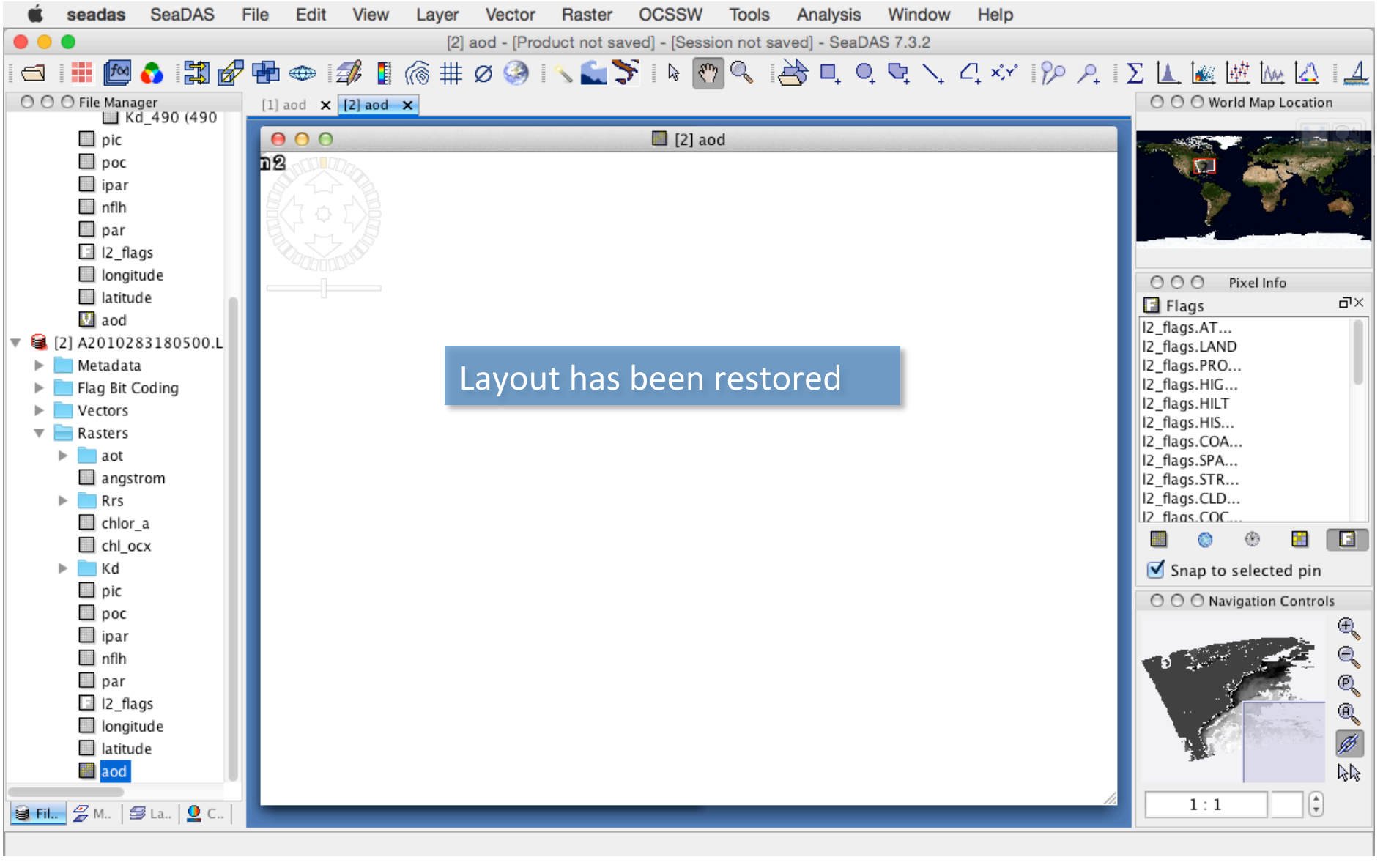
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
File Manager
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[2] A2010283180500.L2_LAC_OC.
Metadata
Flag Bit Coding
Vectors
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
File ..
Mask..
Laye..
Colo..
[1] aod
[2] aod
[2] aod
World Map Location
Pixel Info
Navigation Controls
Reprojected file view window not “zoom all” because still in synchronization mode

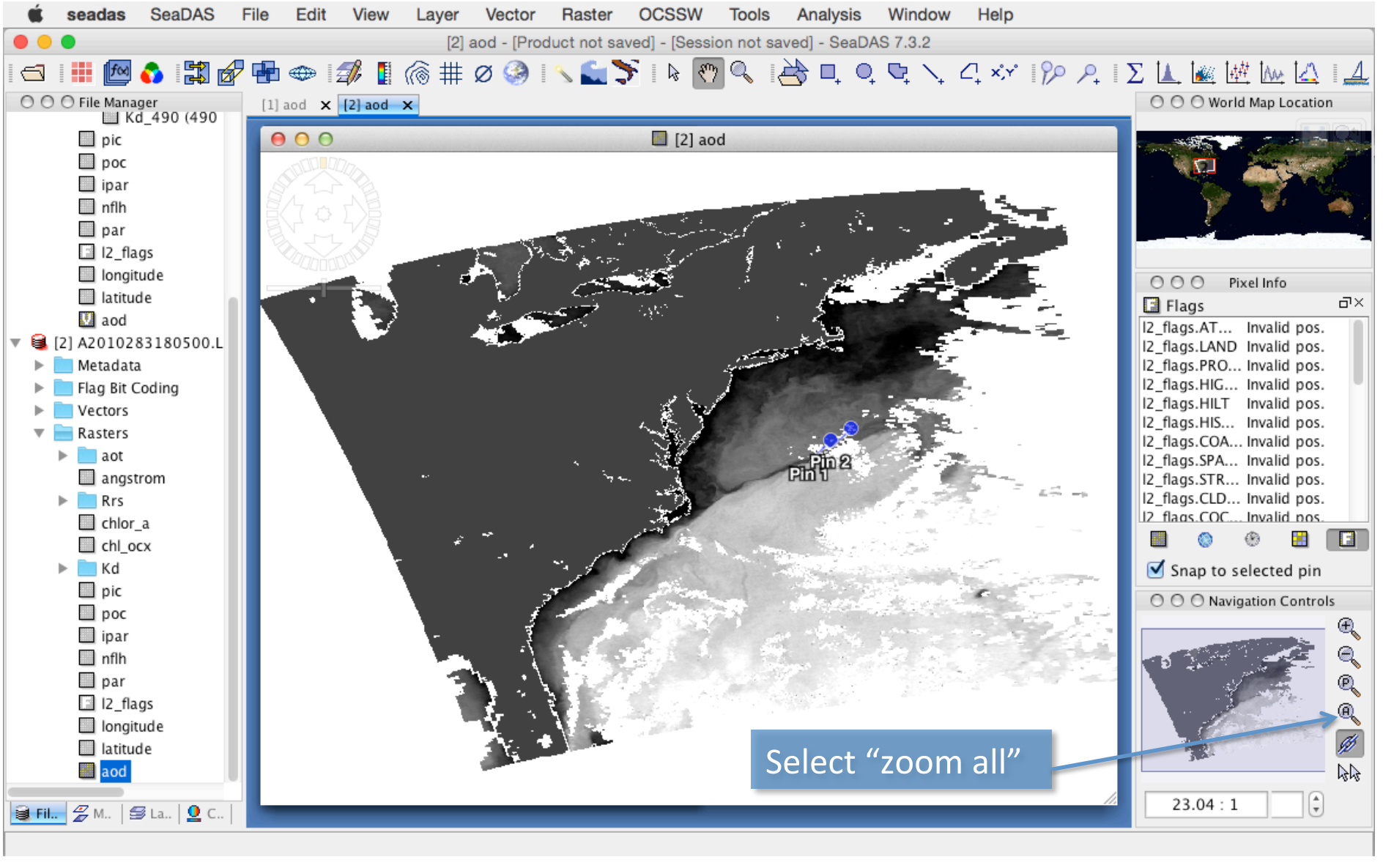
Reproject


seadas
SeaDAS
File
Edit
View
Layer
Vector
Raster
OCSSW
Tools
Analysis
Window
Help
Reset to Default Layout
Load Layout
Save Layout
Image
Metadata
Placemark
RGB Image...
Tool Bars
Tool Windows
not saved] - [Session not saved] - SeaDAS 7.3.2
File Manager
Kd_490 (490 nm)
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[2] A2010283180500.L2_LAC_OC.
Metadata
Flag Bit Coding
Vectors
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
File ..
Mask..
Laye..
Colo..
[2] aod
World Map Location
Pixel Info
Navigation Controls
Reset to Default Layout

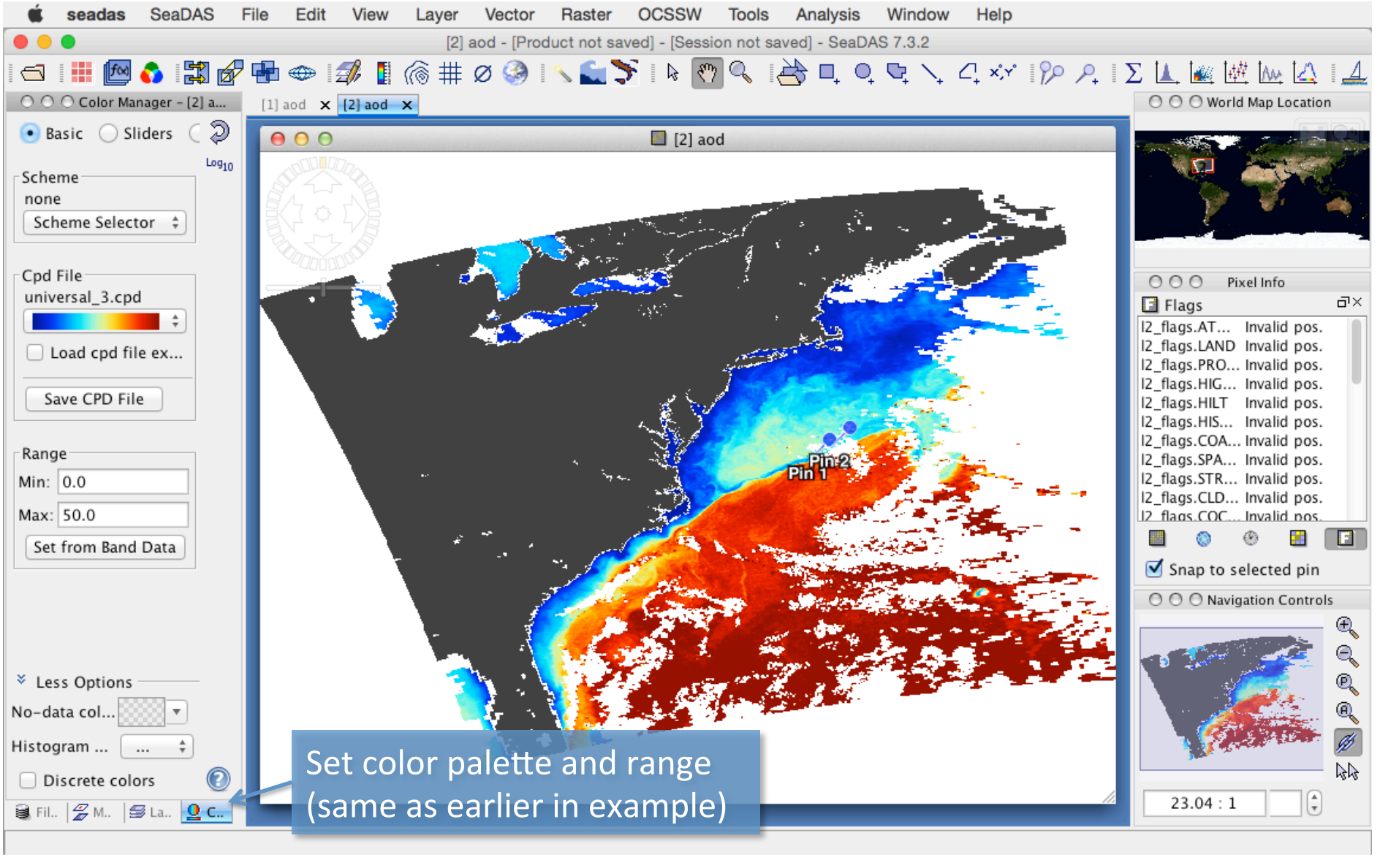
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
File Manager
Kd_490 (490
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[2] A2010283180500.L
Metadata
Flag Bit Coding
Vectors
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[1] aod
[2] aod
[2] aod
Layout has been restored
World Map Location
Pixel Info
Flags
l2_flags.AT...
l2_flags.LAND
l2_flags.PRO...
l2_flags.HIG...
l2_flags.HILT
l2_flags.HIS...
l2_flags.COA...
l2_flags.SPA...
l2_flags.STR...
l2_flags.CLD...
Snap to selected pin
Navigation Controls
1 : 1

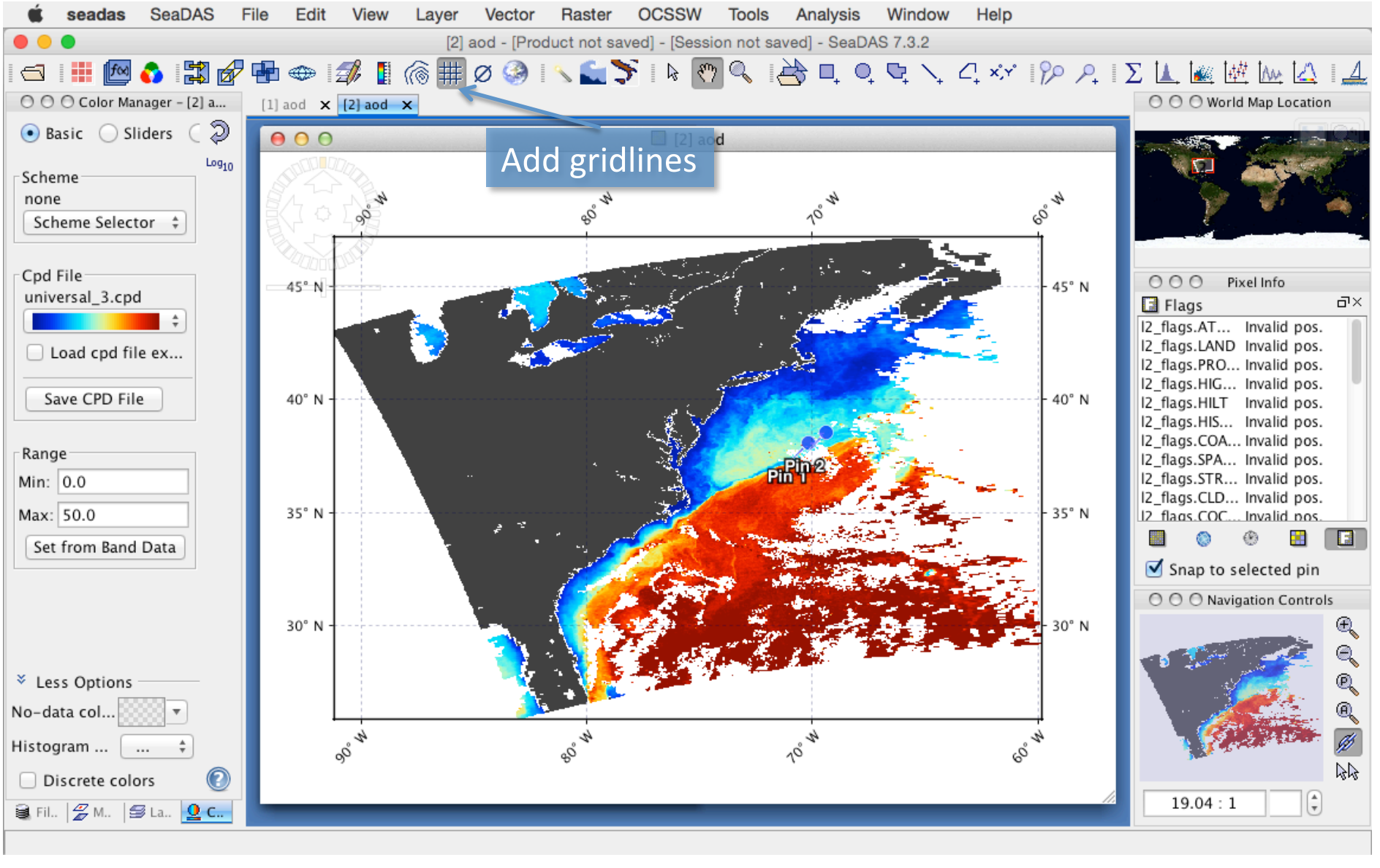
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
File Manager
Kd_490 (490
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[2] A2010283180500.L
Metadata
Flag Bit Coding
Vectors
Rasters
aot
angstrom
Rrs
chlor_a
chl_ocx
Kd
pic
poc
ipar
nflh
par
l2_flags
longitude
latitude
aod
[1] aod
[2] aod
[2] aod
Pin 2
Pin 1
World Map Location
Pixel Info
Flags
l2_flags.AT... Invalid pos.
l2_flags.LAND Invalid pos.
l2_flags.PRO... Invalid pos.
l2_flags.HIG... Invalid pos.
l2_flags.HILT Invalid pos.
l2_flags.HIS... Invalid pos.
l2_flags.COA... Invalid pos.
l2_flags.SPA... Invalid pos.
l2_flags.STR... Invalid pos.
l2_flags.CLD... Invalid pos.
Snap to selected pin
Navigation Controls
23.04 : 1
Select “zoom all”

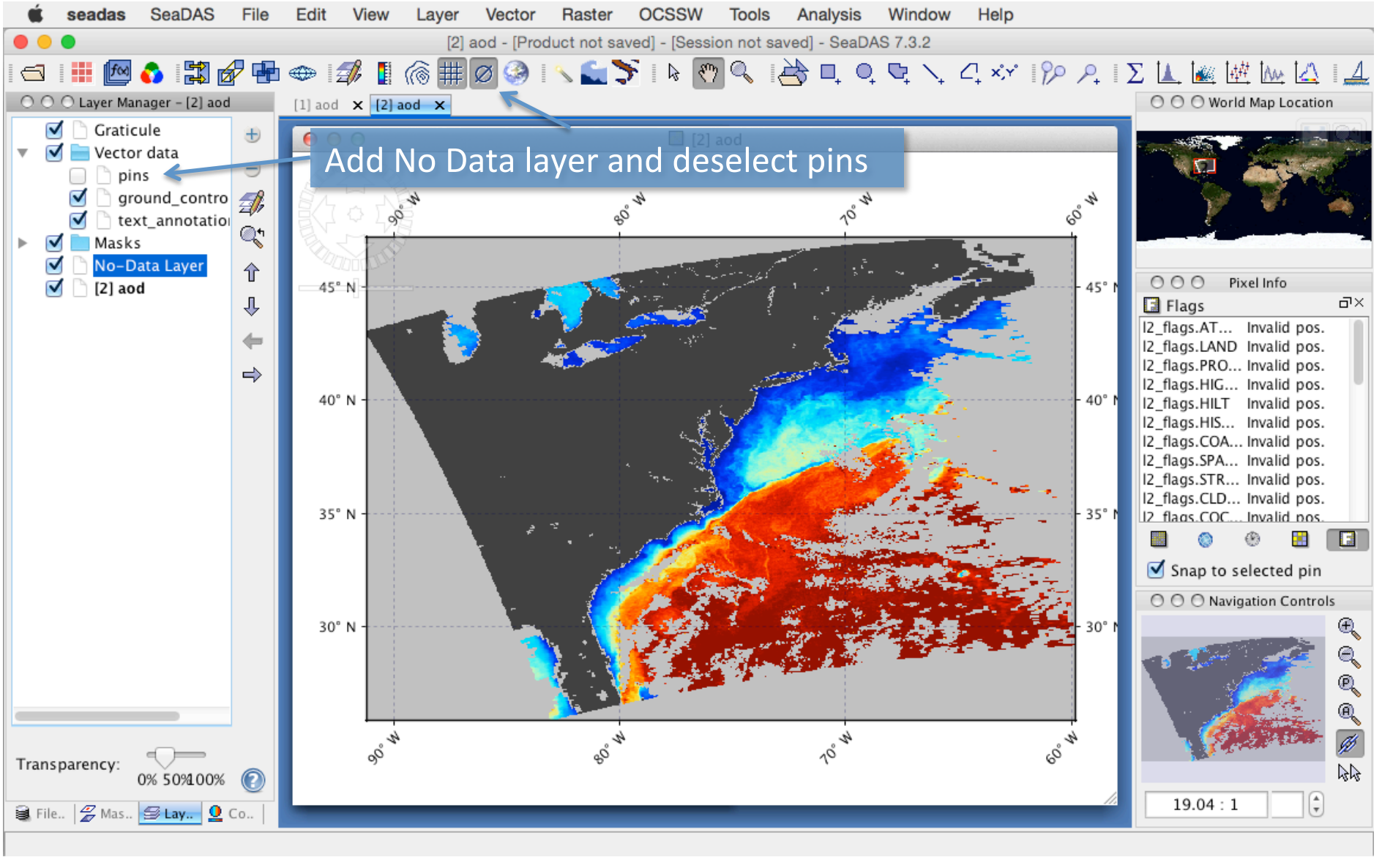
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
Color Manager - [2] a...
Basic
Sliders
Log10
Scheme
none
Scheme Selector
Cpd File
universal_3.cpd
Load cpd file ex...
Save CPD File
Range
Min: 0.0
Max: 50.0
Set from Band Data
Less Options
No-data col...
Histogram ...
Discrete colors
[1] aod
[2] aod
[2] aod
Pin 2
Pin 1
World Map Location
Pixel Info
Flags
l2_flags.AT... Invalid pos.
l2_flags.LAND Invalid pos.
l2_flags.PRO... Invalid pos.
l2_flags.HIG... Invalid pos.
l2_flags.HILT Invalid pos.
l2_flags.HIS... Invalid pos.
l2_flags.COA... Invalid pos.
l2_flags.SPA... Invalid pos.
l2_flags.STR... Invalid pos.
l2_flags.CLD... Invalid pos.
Snap to selected pin
Navigation Controls
23.04 : 1
Set color palette and range
(same as earlier in example)

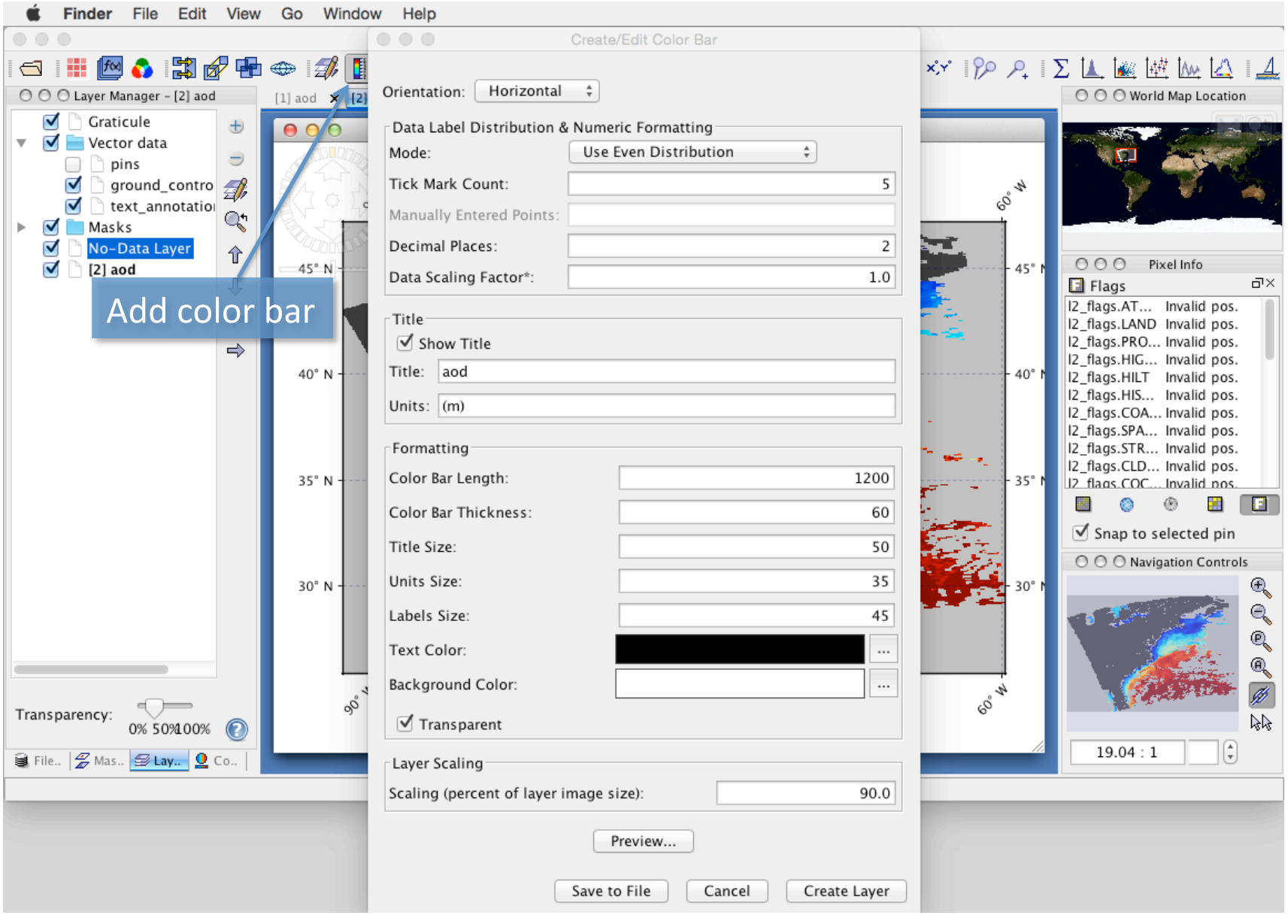
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
Add gridlines
Color Manager - [2] a...
Basic
Sliders
Log10
Scheme
none
Scheme Selector
Cpd File
universal_3.cpd
Load cpd file ex...
Save CPD File
Range
Min: 0.0
Max: 50.0
Set from Band Data
Less Options
No-data col...
Histogram ...
Discrete colors
[1] aod
[2] aod
90° W
80° W
70° W
60° W
45° N
40° N
35° N
30° N
Pin 1
Pin 2
World Map Location
Pixel Info
Flags
l2_flags.AT... Invalid pos.
l2_flags.LAND Invalid pos.
l2_flags.PRO... Invalid pos.
l2_flags.HIG... Invalid pos.
l2_flags.HILT Invalid pos.
l2_flags.HIS... Invalid pos.
l2_flags.COA... Invalid pos.
l2_flags.SPA... Invalid pos.
l2_flags.STR... Invalid pos.
l2_flags.CLD... Invalid pos.
Snap to selected pin
Navigation Controls
19.04 : 1

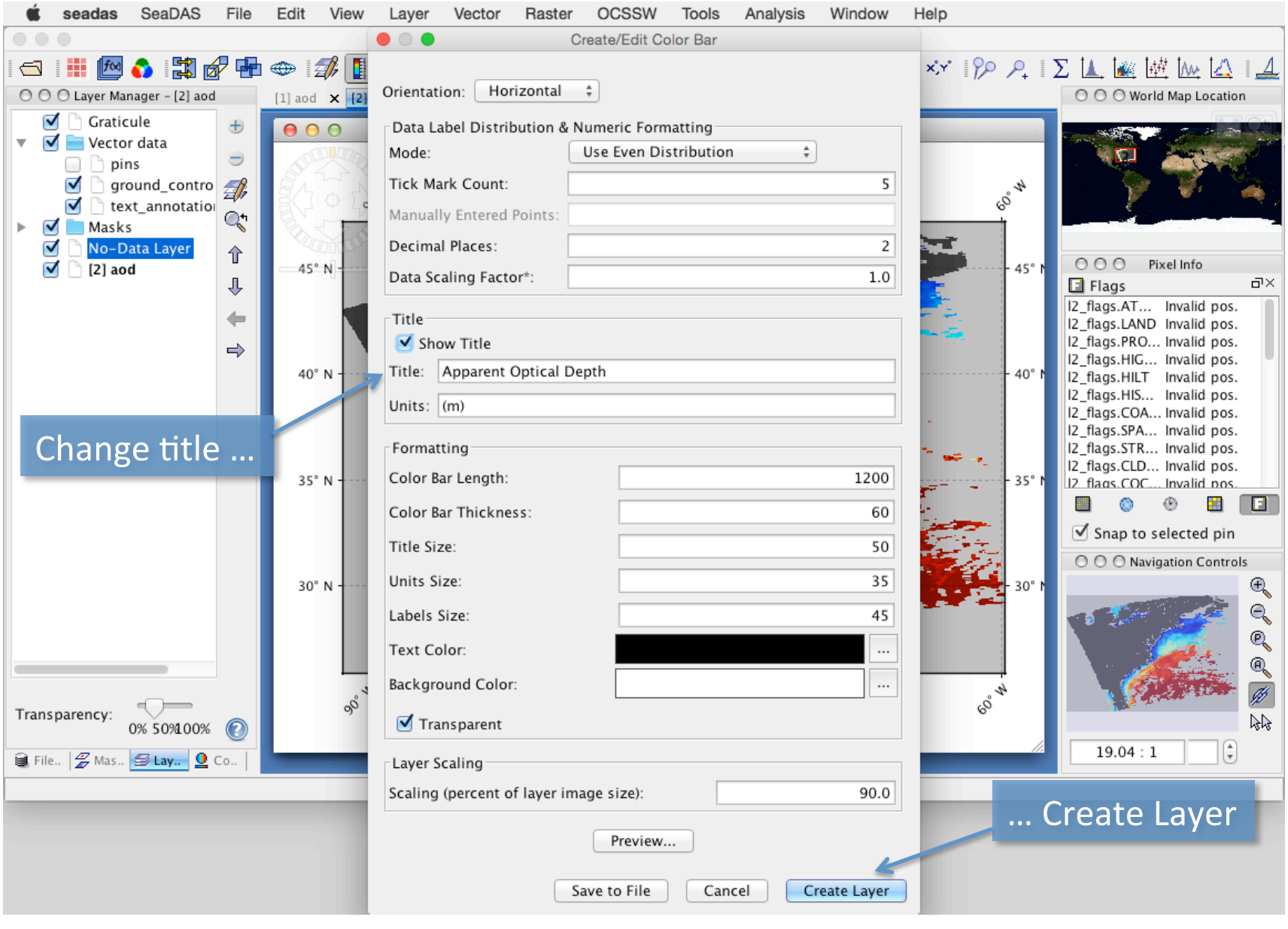
Reproject


seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
Layer Manager - [2] aod
Graticule
Vector data
pins
ground_contro
text_annotatio
Masks
No-Data Layer
[2] aod
Add No Data layer and deselect pins
[1] aod
[2] aod
90° W
80° W
70° W
60° W
45° N
40° N
35° N
30° N
World Map Location
Pixel Info
Flags
l2_flags.AT... Invalid pos.
l2_flags.LAND Invalid pos.
l2_flags.PRO... Invalid pos.
l2_flags.HIG... Invalid pos.
l2_flags.HILT Invalid pos.
l2_flags.HIS... Invalid pos.
l2_flags.COA... Invalid pos.
l2_flags.SPA... Invalid pos.
l2_flags.STR... Invalid pos.
l2_flags.CLD... Invalid pos.
Snap to selected pin
Navigation Controls
Transparency:
0% 50% 100%
19.04 : 1

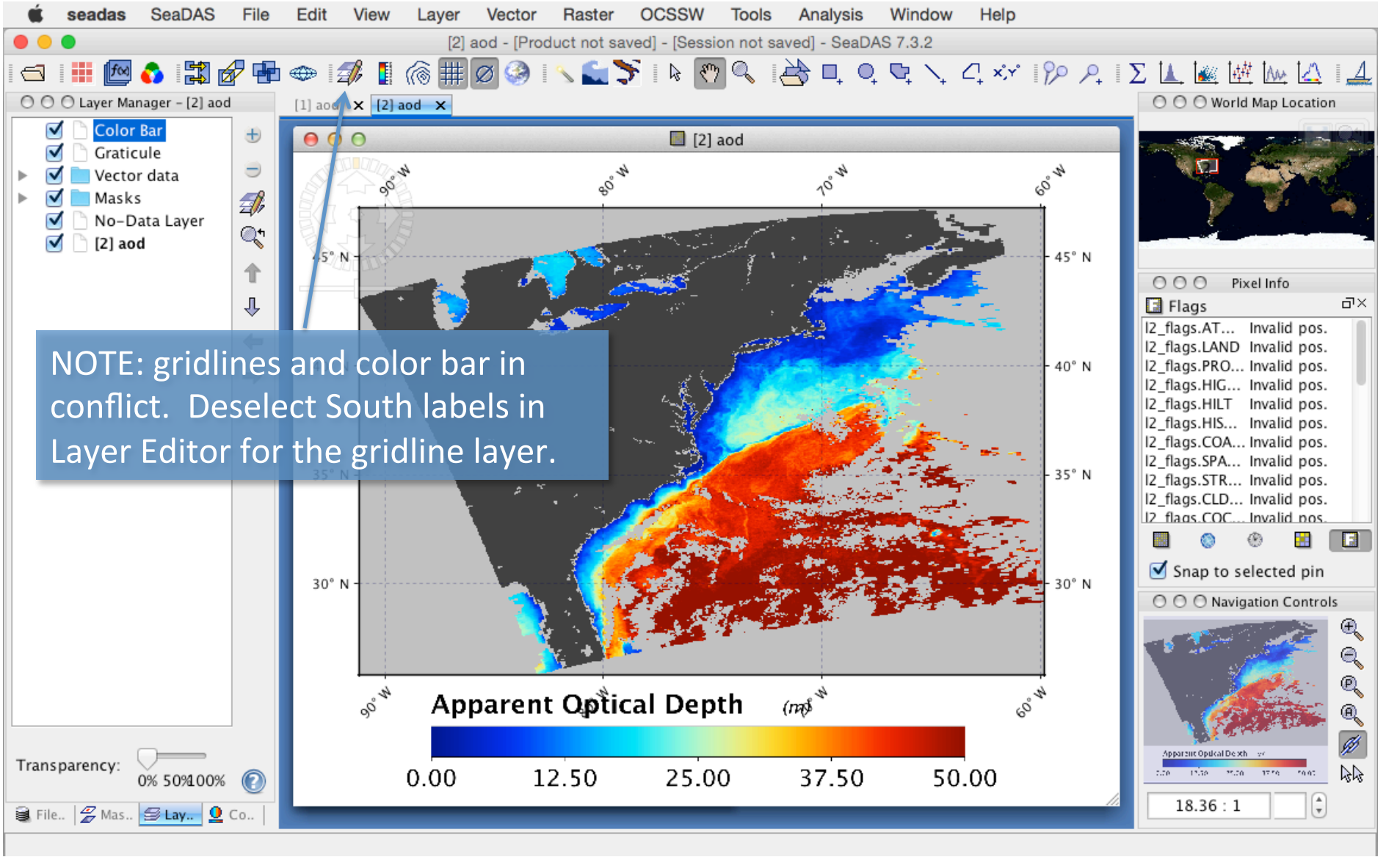
Reproject


Finder File Edit View Go Window Help
Layer Manager - [2] aod
Graticule
Vector data
pins
ground_contro
text_annotatio
Masks
No-Data Layer
[2] aod
Add color bar
Transparency:
0% 50% 100%
Create/Edit Color Bar
Orientation: Horizontal
Data Label Distribution & Numeric Formatting
Mode: Use Even Distribution
Tick Mark Count: 5
Manually Entered Points:
Decimal Places: 2
Data Scaling Factor*: 1.0
Title
Show Title
Title: aod
Units: (m)
Formatting
Color Bar Length: 1200
Color Bar Thickness: 60
Title Size: 50
Units Size: 35
Labels Size: 45
Text Color:
Background Color:
Transparent
Layer Scaling
Scaling (percent of layer image size): 90.0
Preview...
Save to File
Cancel
Create Layer
World Map Location
Pixel Info
Flags
l2_flags.AT... Invalid pos.
l2_flags.LAND Invalid pos.
l2_flags.PRO... Invalid pos.
l2_flags.HIG... Invalid pos.
l2_flags.HILT Invalid pos.
l2_flags.HIS... Invalid pos.
l2_flags.COA... Invalid pos.
l2_flags.SPA... Invalid pos.
l2_flags.STR... Invalid pos.
l2_flags.CLD... Invalid pos.
Snap to selected pin
Navigation Controls
19.04 : 1

Reproject

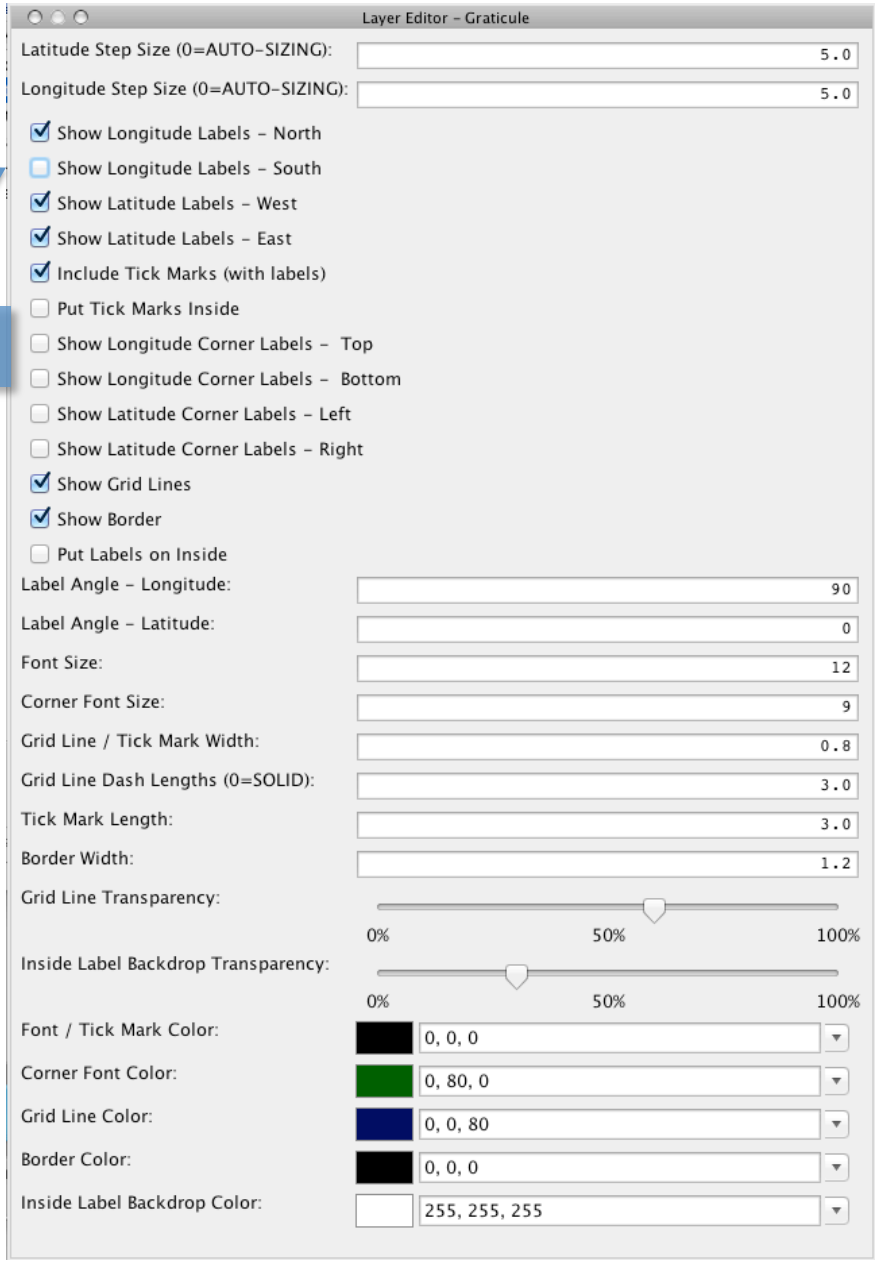

seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
Create/Edit Color Bar
Orientation: Horizontal
Data Label Distribution & Numeric Formatting
Mode: Use Even Distribution
Tick Mark Count: 5
Manually Entered Points:
Decimal Places: 2
Data Scaling Factor*: 1.0
Title
Show Title
Title: Apparent Optical Depth
Units: (m)
Formatting
Color Bar Length: 1200
Color Bar Thickness: 60
Title Size: 50
Units Size: 35
Labels Size: 45
Text Color:
Background Color:
Transparent
Layer Scaling
Scaling (percent of layer image size): 90.0
Preview...
Save to File
Cancel
Create Layer
Change title ...
... Create Layer
Layer Manager - [2] aod
Graticule
Vector data
pins
ground_contro
text_annotatio
Masks
No-Data Layer
[2] aod
Transparency:
0% 50% 100%
World Map Location
Pixel Info
Flags
Snap to selected pin
Navigation Controls
19.04 : 1

Reproject

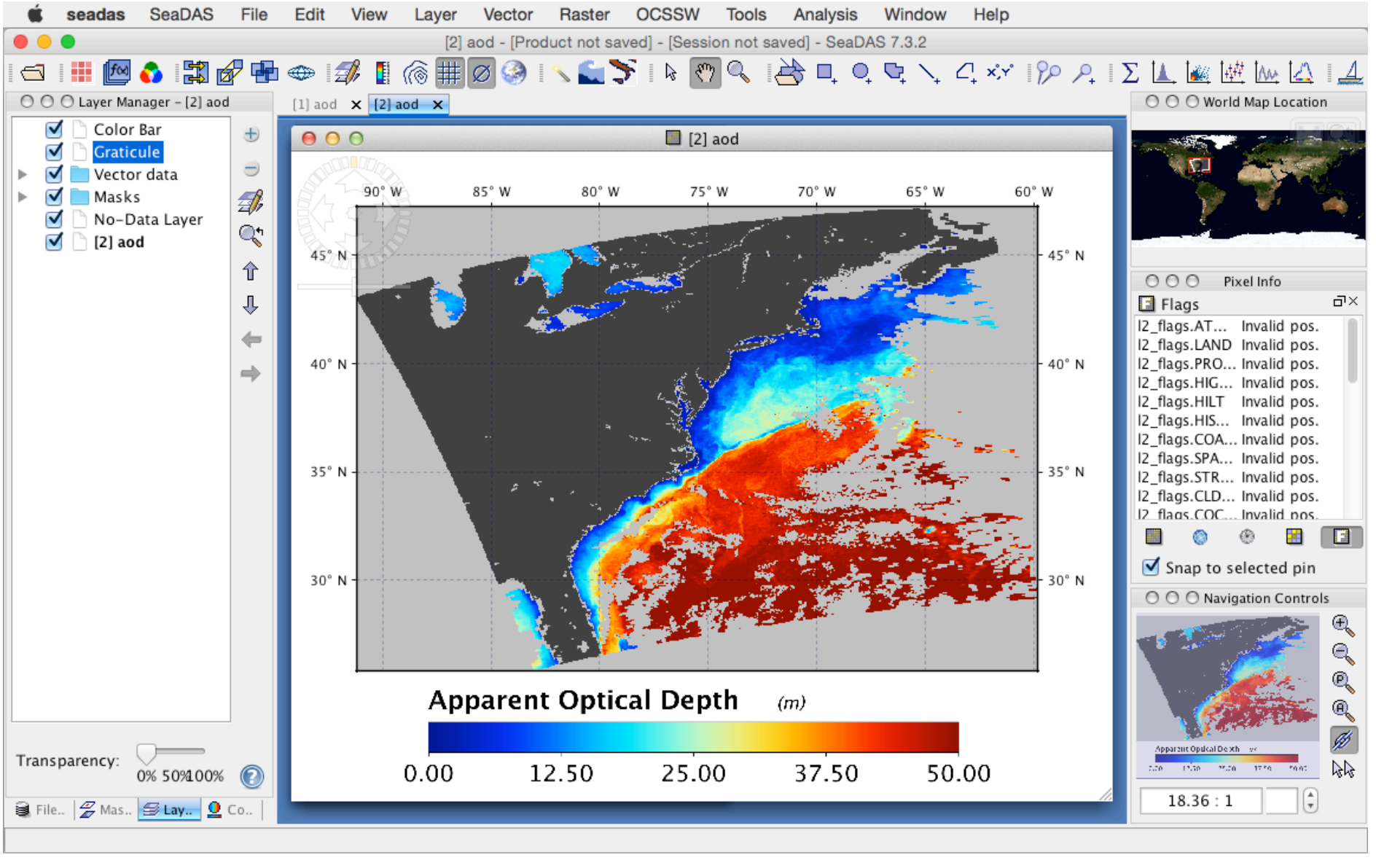


NOTE: gridlines and color bar in conflict. Deselect South labels in Layer Editor for the gridline layer.

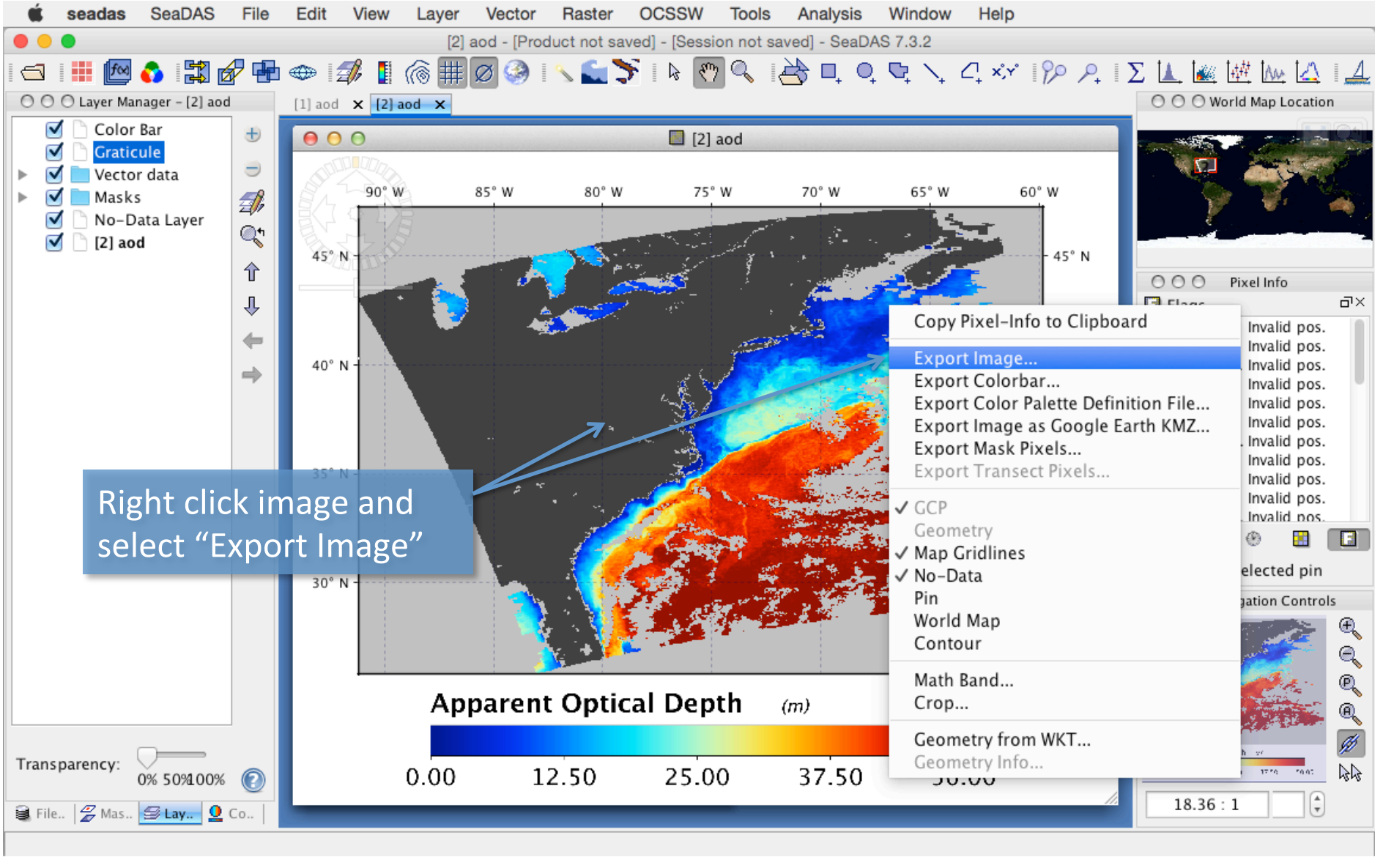
Deselect South labels



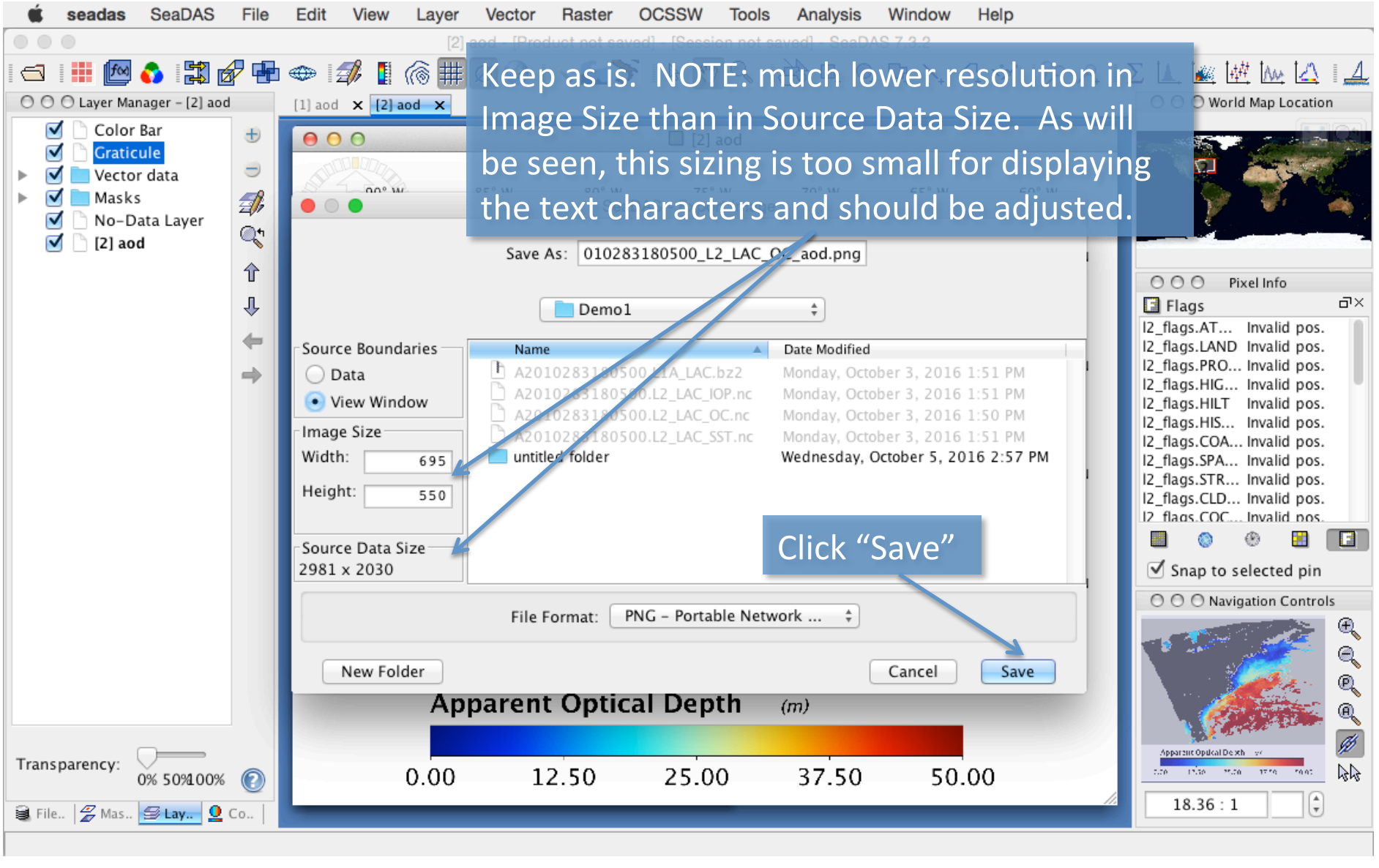
Reproject

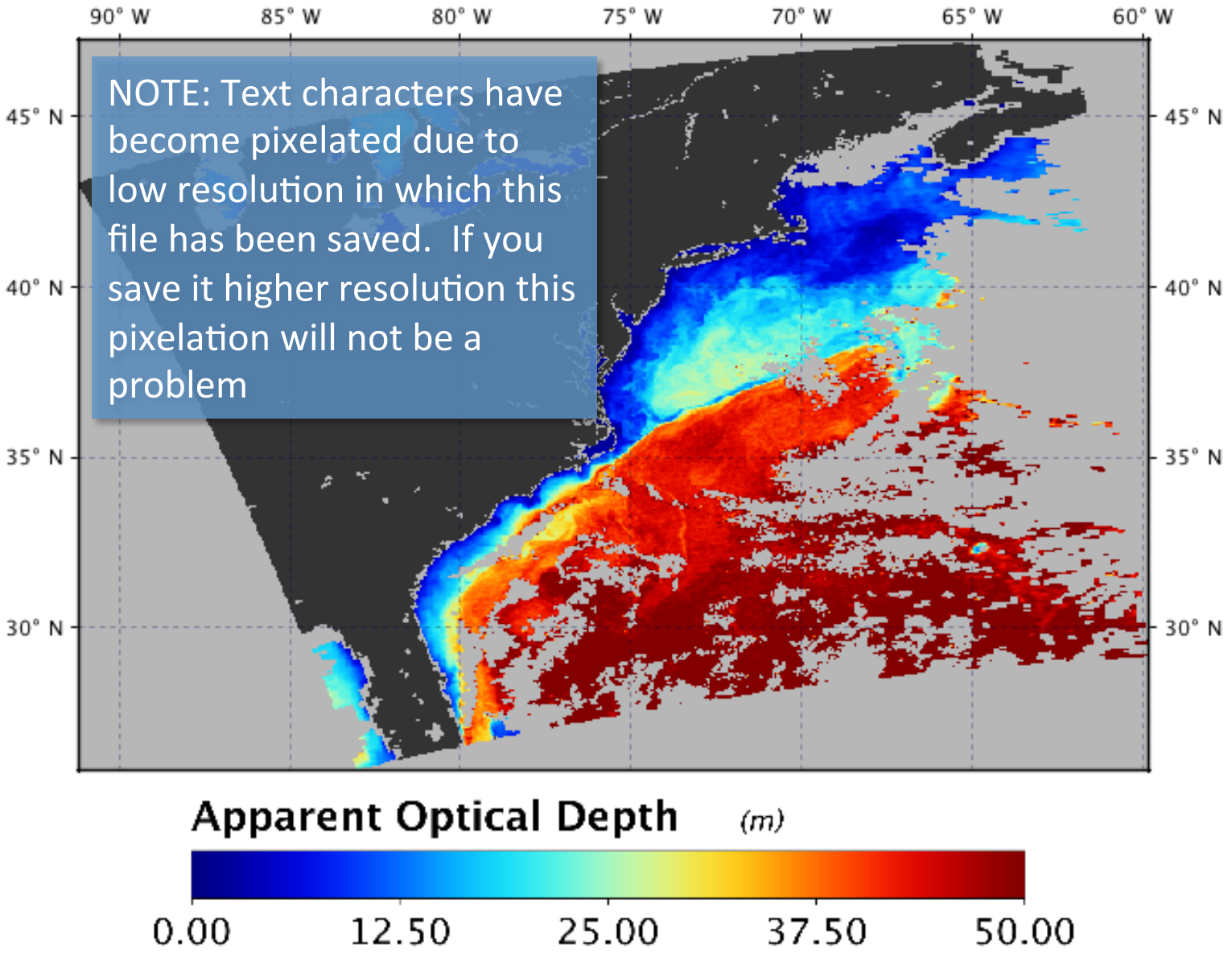

seadas SeaDAS File Edit View Layer Vector Raster OCSSW Tools Analysis Window Help
[2] aod - [Product not saved] - [Session not saved] - SeaDAS 7.3.2
Layer Manager - [2] aod
Color Bar
Graticule
Vector data
Masks
No-Data Layer
[2] aod
[1] aod
[2] aod
90° W 85° W 80° W 75° W 70° W 65° W 60° W
45° N 40° N 35° N 30° N
Apparent Optical Depth (m)
0.00 12.50 25.00 37.50 50.00
Transparency:
0% 50% 100%
World Map Location
Pixel Info
Flags
l2_flags.AT... Invalid pos.
l2_flags.LAND Invalid pos.
l2_flags.PRO... Invalid pos.
l2_flags.HIG... Invalid pos.
l2_flags.HILT Invalid pos.
l2_flags.HIS... Invalid pos.
l2_flags.COA... Invalid pos.
l2_flags.SPA... Invalid pos.
l2_flags.STR... Invalid pos.
l2_flags.CLD... Invalid pos.
Snap to selected pin
Navigation Controls
18.36 : 1

Export an Image

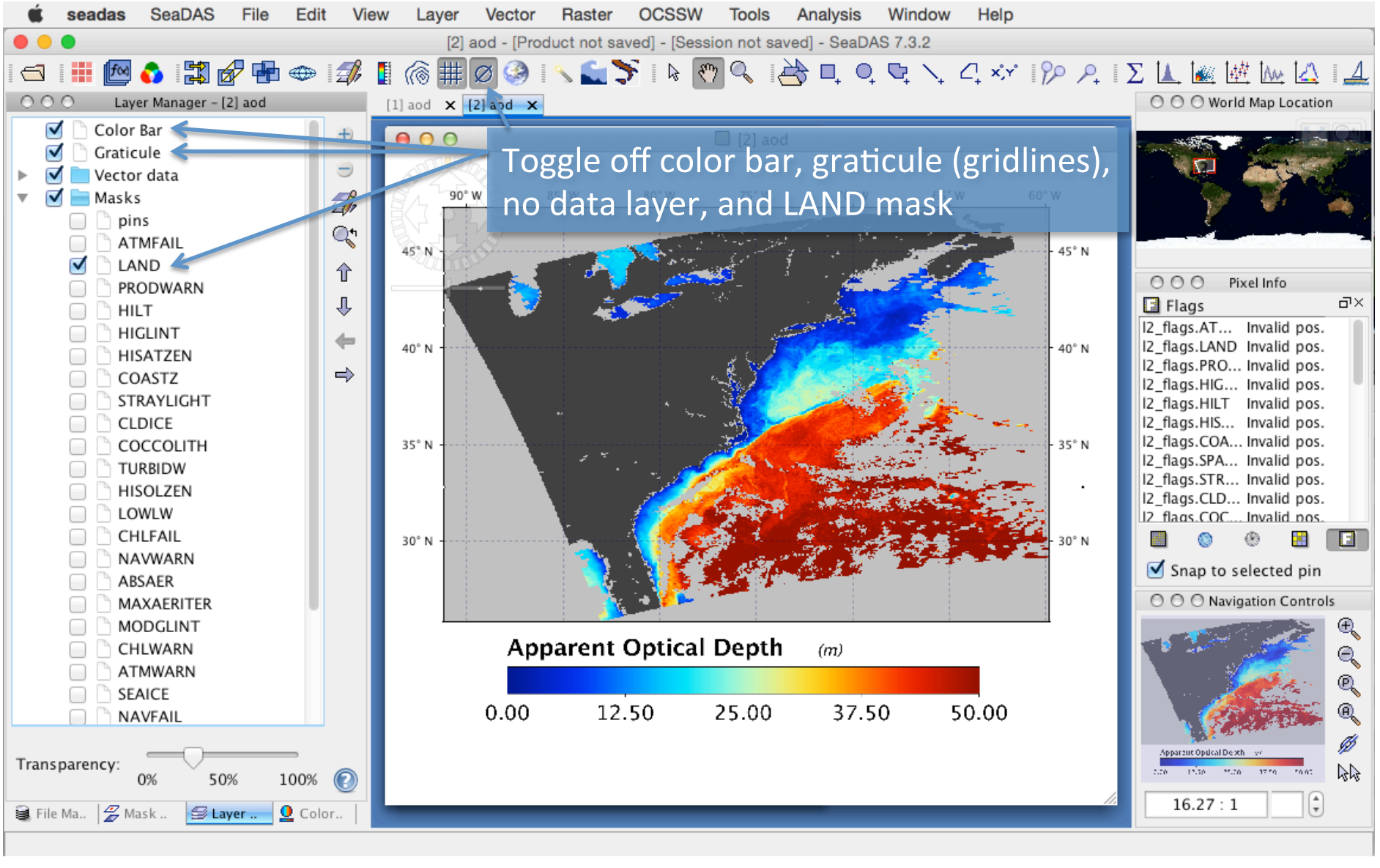


Export an Image

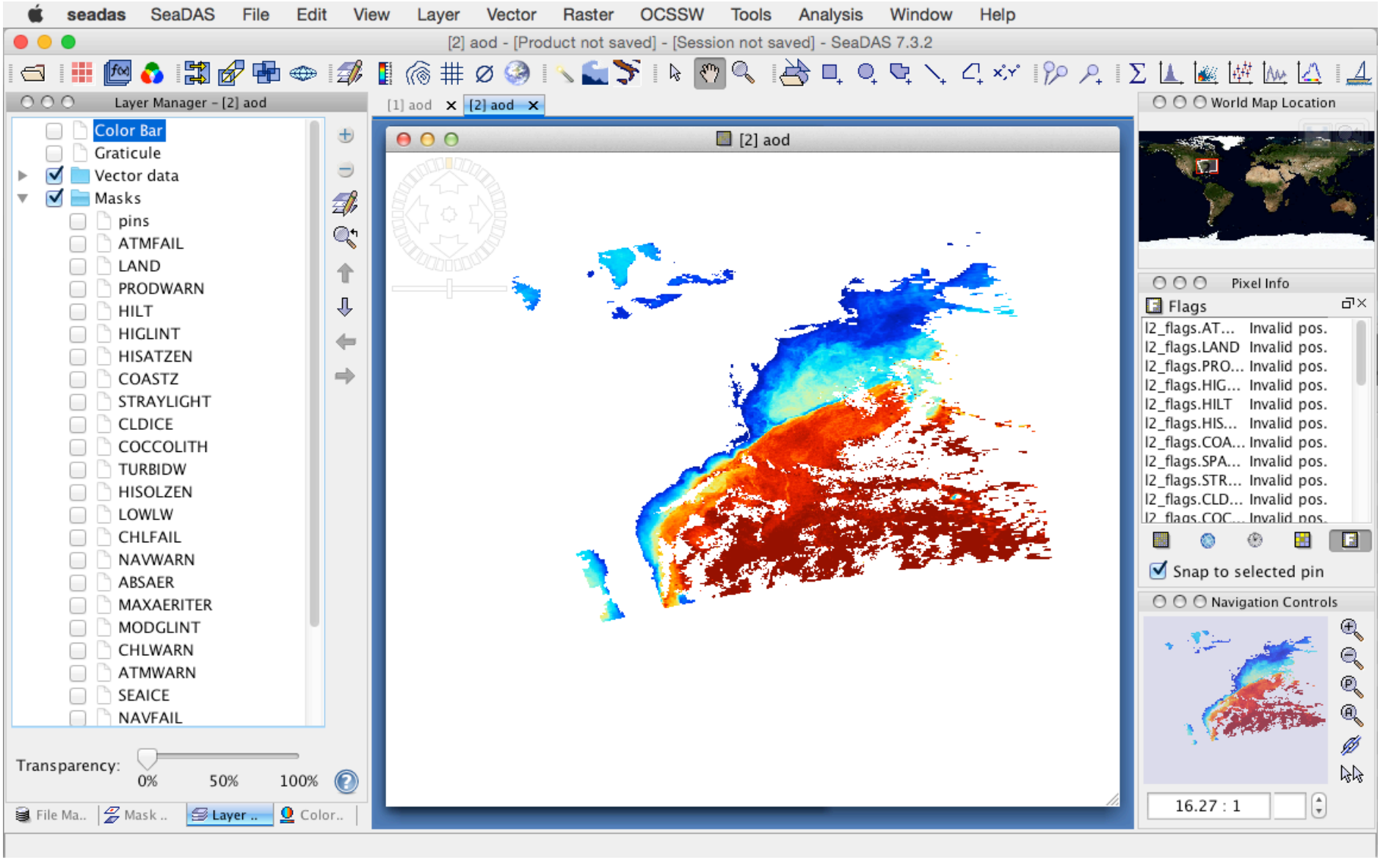



90° W
85° W
80° W
75° W
70° W
65° W
60° W
45° N
40° N
35° N
30° N
NOTE: Text characters have become pixelated due to low resolution in which this file has been saved. If you save it higher resolution this pixelation will not be a problem
Apparent Optical Depth (m)
0.00
12.50
25.00
37.50
50.00

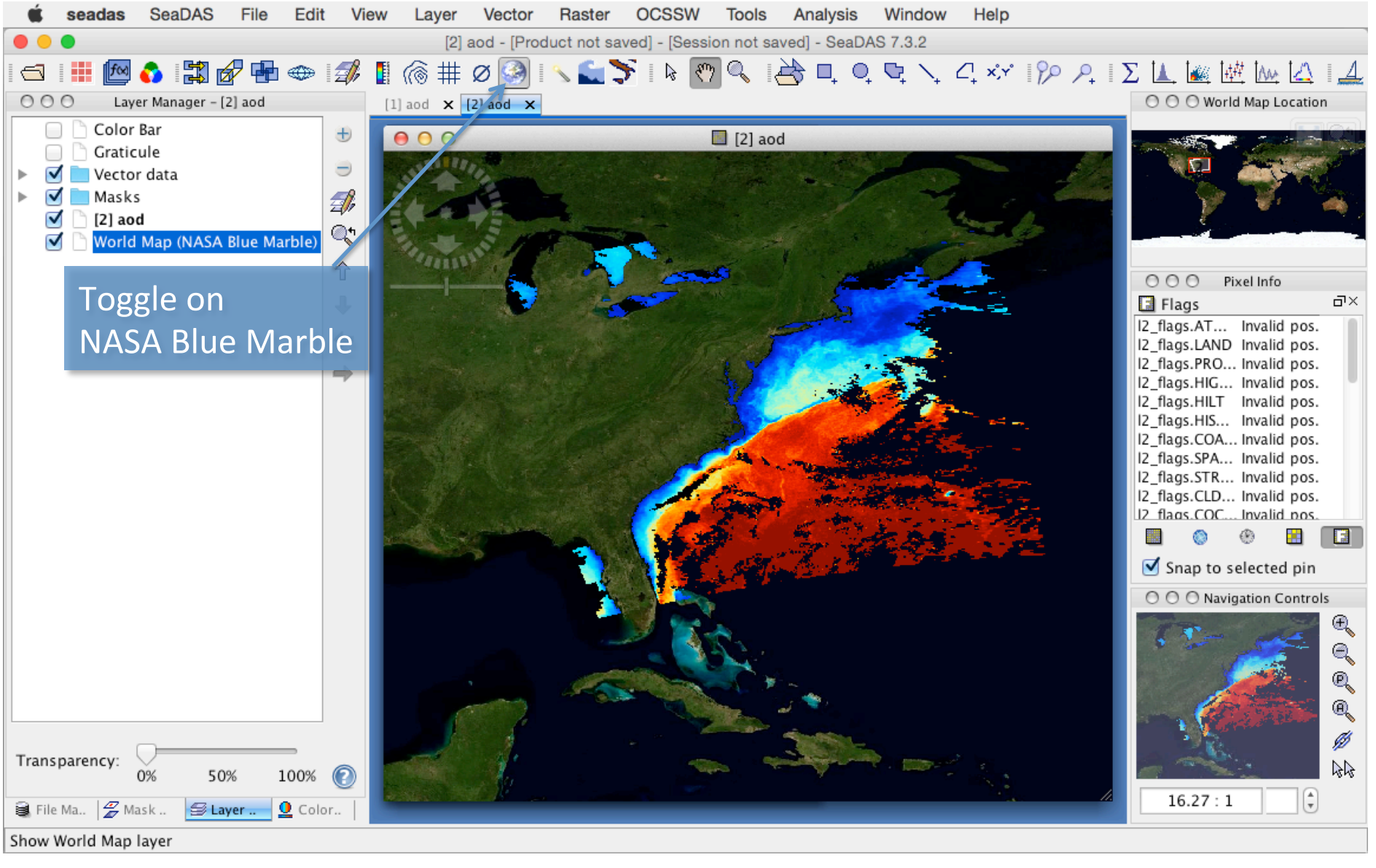
Composite with NASA Blue Marble



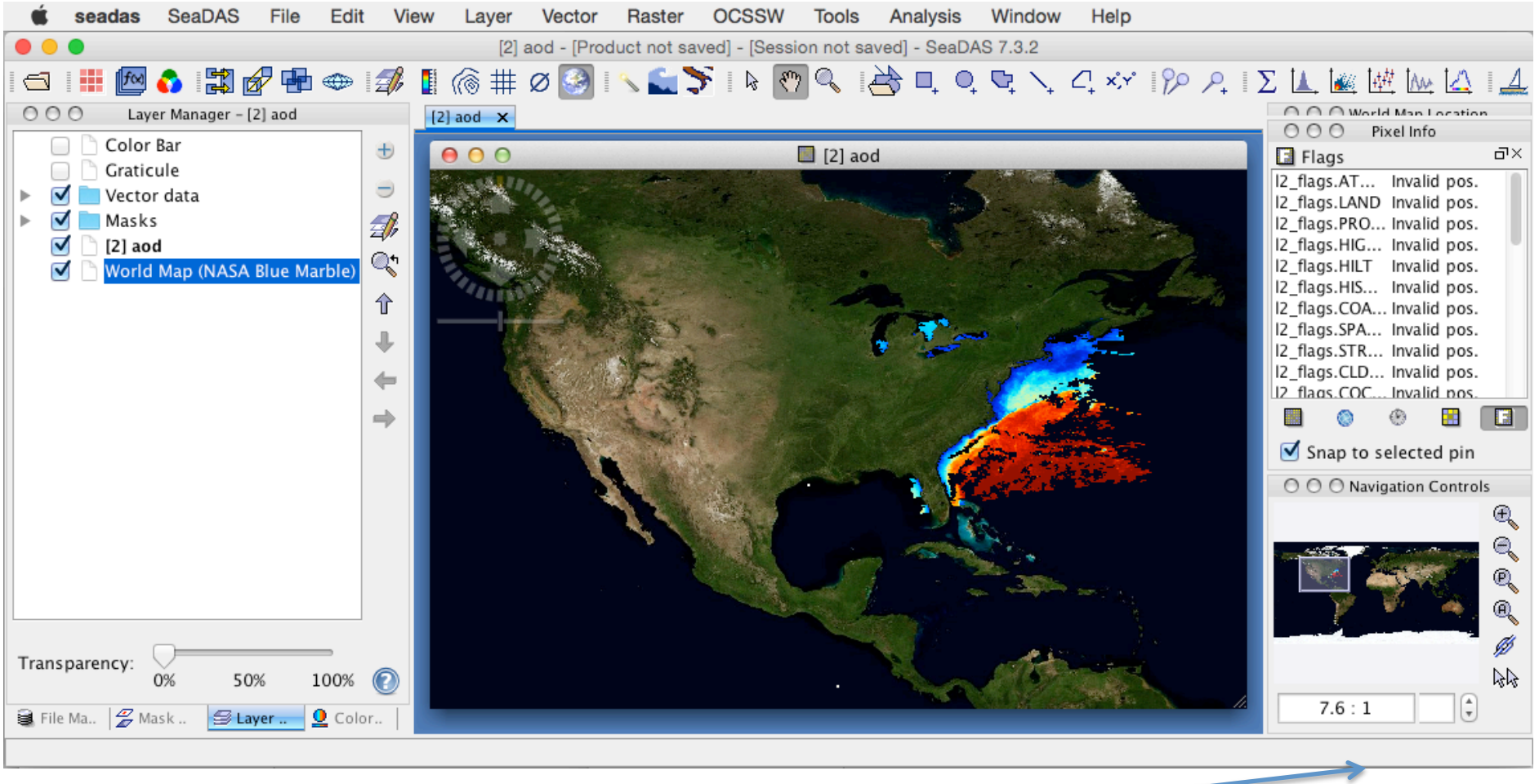
Composite with NASA Blue Marble



Composite with NASA Blue Marble



Composite with NASA Blue Marble



Resize window for image export, then export image using "View Window" boundaries (as shown earlier in this example)

Composite with NASA Blue Marble