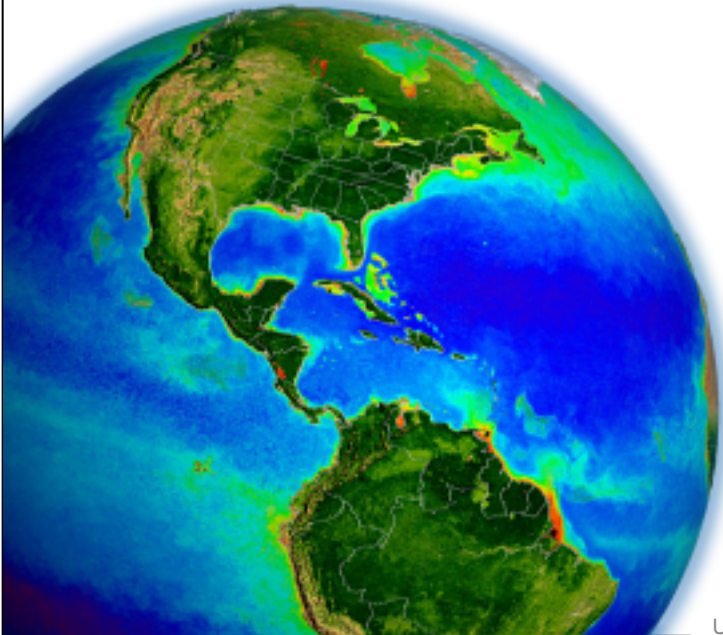


SeaDAS lab - Exercises



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exercise 1

recreate this image:

A2013197175500.L2*
chlor_a product

requires:

zoom

color manipulation

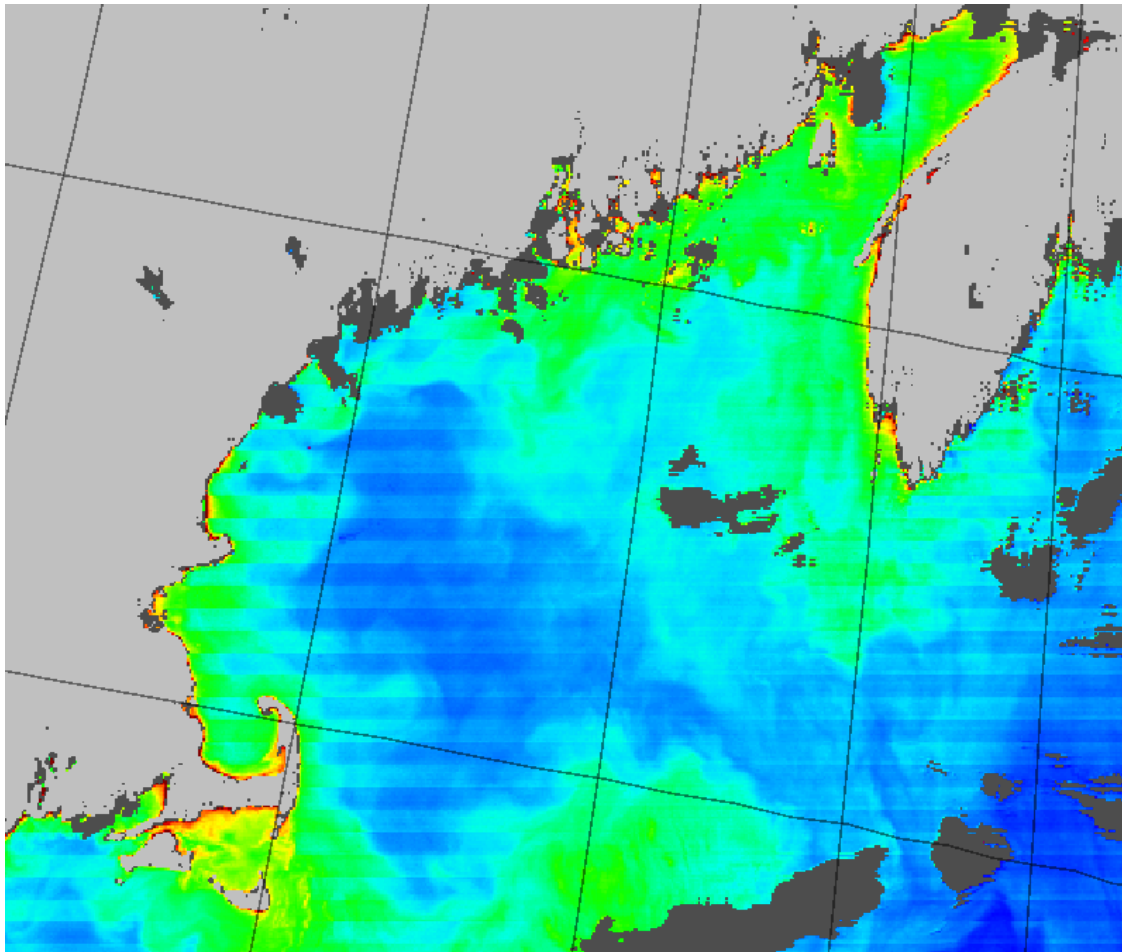
- table

- range

no data display

land & coast mask

graticules (grids)



exercise 2

(1) generate a chlorophyll histogram for the Bay of Fundy

requires:

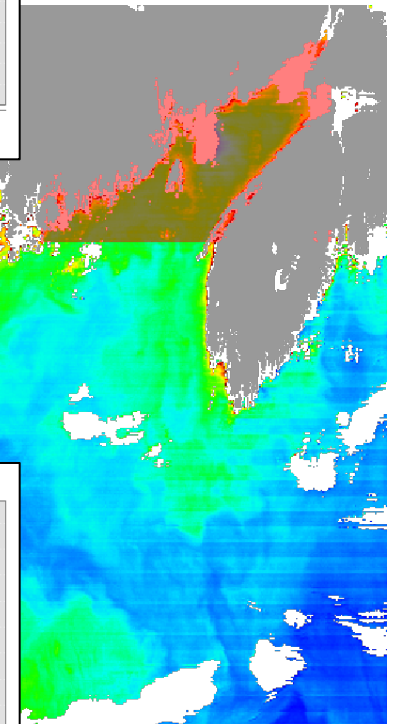
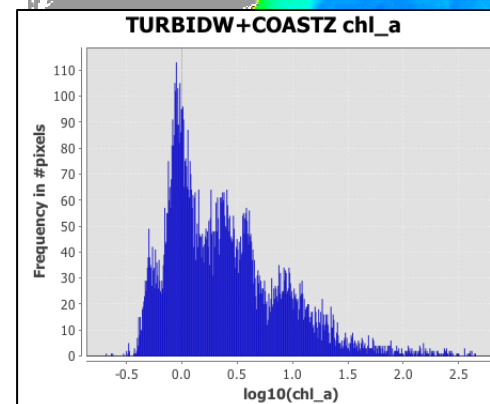
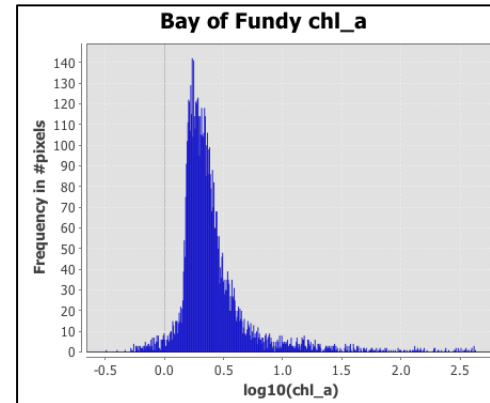
mask manager

a “geometry” (box)

an intersection of flags

histogram tool

(2) create a new mask that combines the TURBIDW & COASTZ flags for the full image – then, generate a histogram of chlorophyll under this mask



exercise 3

create a profile plot for a transect
running from Provincetown to the
northeast end of the Bay of Fundy

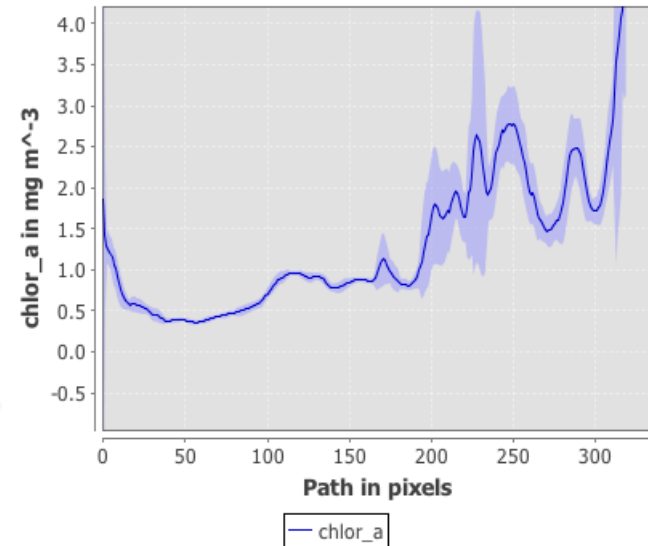
with a 11 pixel box, should look
something like this



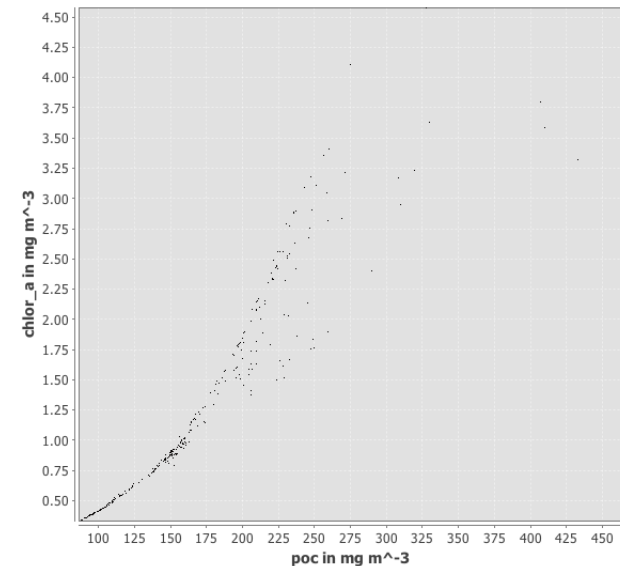
create a scatter plot for chl_a vs
POC for this transect line

requires ROI mask

Profile Plot for chlor_a

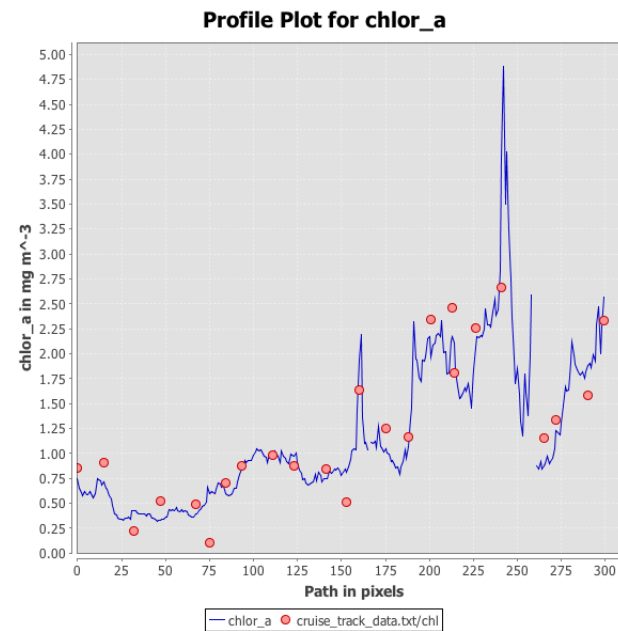
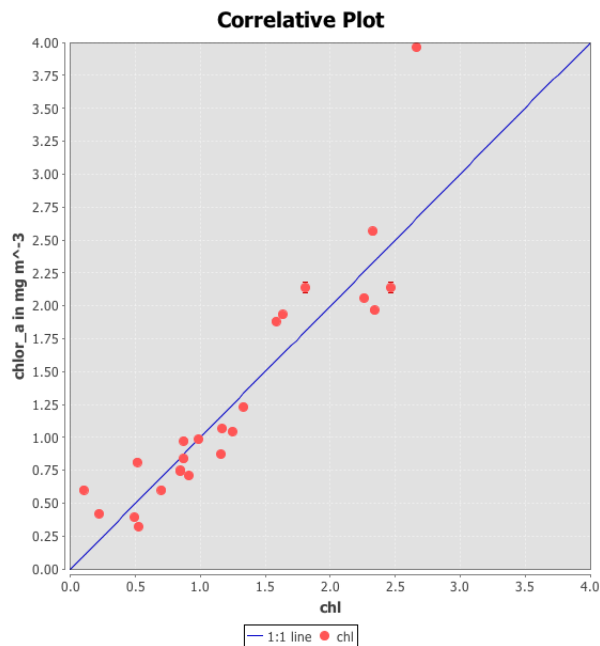


Scatter Plot



exercise 4

create correlative & profile plots using the in situ chl data in the file 'cruise_track_data.txt'



create a virtual chl_a band from Kd_490 using the Morel expression: $chl = 12.9 * (Kd_{490} - 0.0166)^{1.49}$

then, recreate these correlative & profiles plots using the Morel modeled chl_a

exercise 5

process the file A2010065173000.x.L1A_LAC to Level-2
using the SeaDAS GUI

process the file A2010066181500.x.L1A_LAC to Level-2
using the command line

create an Level-3 map from these 2 files at 2-km resolution