



Kelp Restoration as an Integrated Socio-Ecological System (Kelp RISES)

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How can help forest management approaches account for ongoing climate change?

Bioeconomic modeling, social science, oceanography & ecology

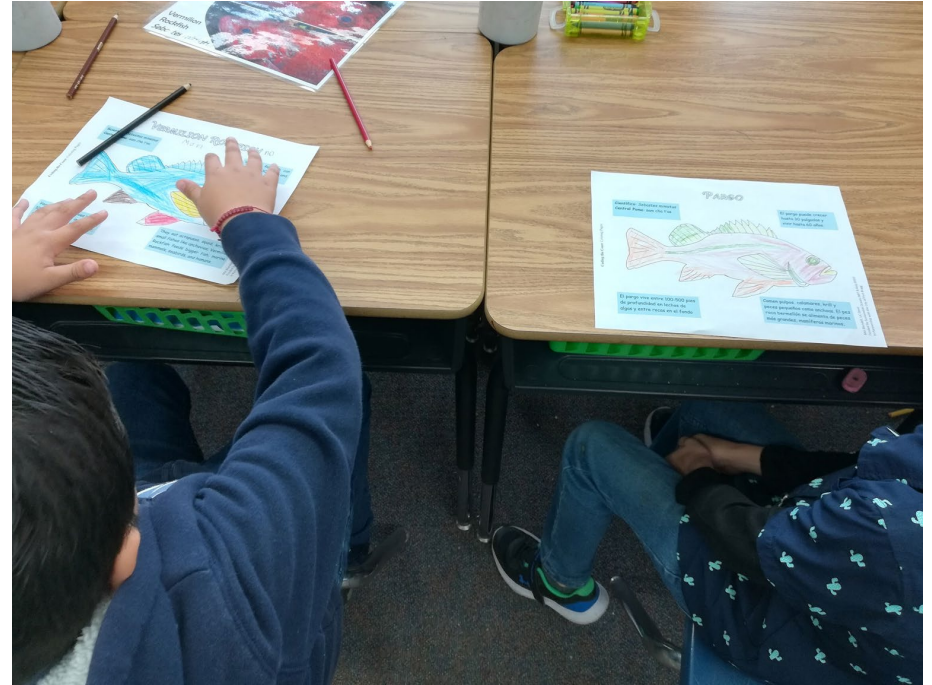
5-year grant from National Science Foundation

North Coast (Fort Bragg) and Central Coast (Monterey)

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Coding the Coast: STEM Education Project



Coding the Coast: Coloring Pages

BULL KELP

Scientific: *Nereocystis luteoana*
Central Pomo: toq'ohay

Bull Kelp starts its life as spores in the ocean. When the water is cool, spores settle on rock. They use nutrients from seawater and sunlight to grow into adults. The adults can grow 25-30 centimeters per day! Bull Kelp lives 1 to 2 years.

Bull Kelp feeds urchins, abalone, and crabs, and provides shelter for fish, marine mammals, and birds. For humans, Bull Kelp is storage for oil and water, rope, food, and medicine.

is the largest abalone in oysters and humans are sea in crevices between s been feeding humans

STAR

Scientific: *Solenaster panderi*
Central Pomo: oom ooh'oo

thin cuts kelp and air back-like mouth, e and reproduce for arsi!

Purple Urchin digs Purple Urchin feeds stars, sea otters, humans.

VERMILION ROCKFISH

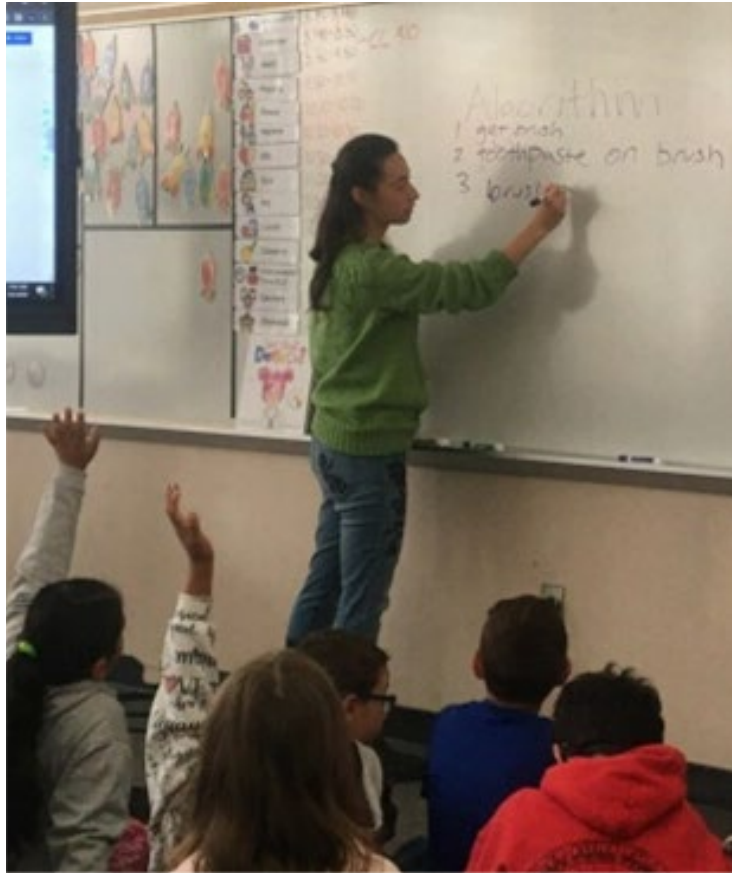
Scientific: *Sebastes rosenblatti*
Central Pomo: oom oom'oo

They feed king crab, and sometimes sea otters and seagulls.

hins, abalone, snails, a cucumber. Sunflower is curled their stomach s been feeding humans

Mar Blundell, USC Davis
Funded by Sustainable Oceans NET & King RISE
In Partnership with the City of Fort Bragg

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```
when clicked
  set x to 0
  set health to 0
  forever
    if health > 0 then
      change health by -1
      wait 1 seconds
  end forever

when right arrow key pressed
  change x by 10

when left arrow key pressed
  change x by -10

when I receive munch drift
  change health by 5
  say Yummy! for 1 seconds

when I receive munch kelp
  change health by 8
  change wait time by 2
  say Munch Munch for 1 seconds
```

Materials distributed to:

- Redwood Elementary School
- Noyo Center for Marine Sciences
- Mendocino Coast Children's Fund
- Sherwood Valley Tribal Youth Diversion Program

For more information
on Kelp RISES:

