

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one partially covering the green one.

Saving Up: Resource Storage in Stalked Kelp

Marina Hernandez and Natasha Craft



Introduction

Part 1
Marina Hernandez

- Marine Science Major
- Third-year
- COAST Scholar-In-Training





Introduction

Part 2
Natasha Craft

- Marine Science
- Senior
- Class of 2019

Introduction

Part 3

Silvia Vasquez

- Second year
- Marine Science
- CSU COAST Scholar-In-Training

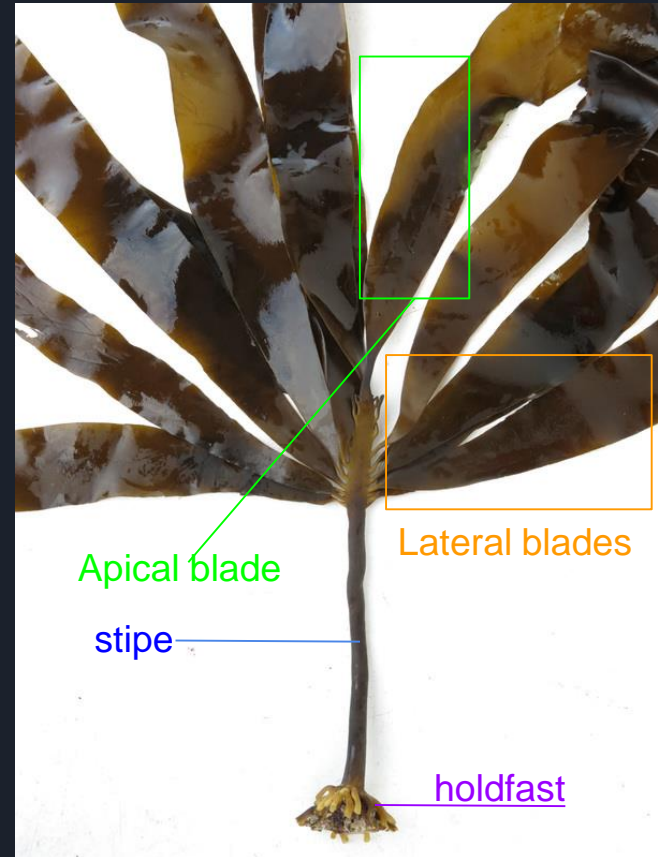
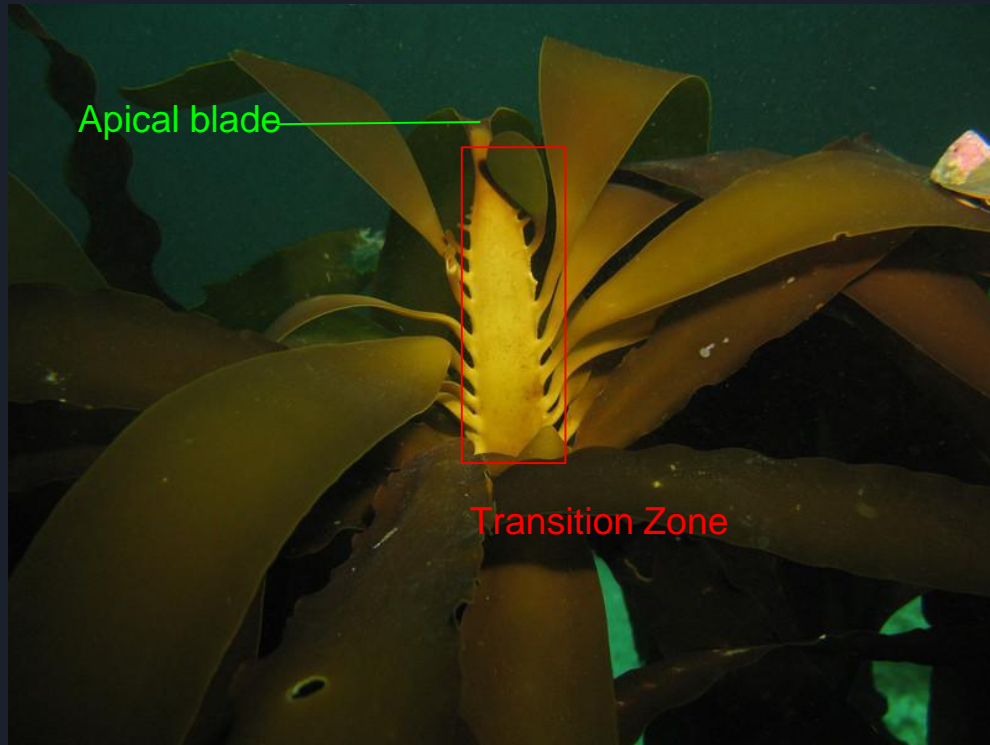


Moss Landing Marine Laboratories



- Moss Landing, California
- Phycology: Scientific Study of Algae
- Thesis research project- Saving Up: Resource Storage in Stalked Kelp (*Pterygophora Californica*)
- Tasks: Record data, dehydrate and grind ptery, organize data

Pterygophora californica



Pleny #:

DATE:

stipe length:

t.z. length:

veg. length:

sporo length: (3) _____, _____, _____
(avg.)

reprod? : y/n

sporos:

stipe width: base - _____, mid - _____, upper - _____
(cm)

total weight:
(g)

h.f. weight:

veg. weight:

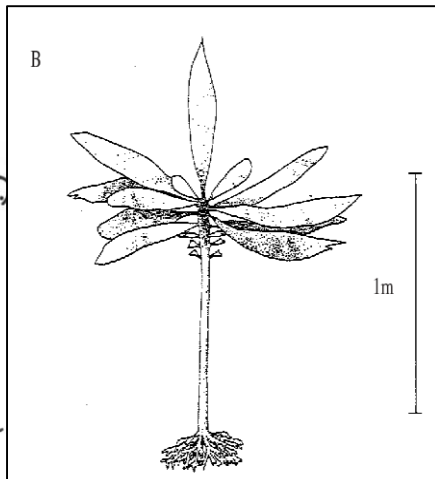
sporos. weight:

stipe weight: (w/t.z.)

t.z. weight:

⑨ = grazed blade

① = complete blade



Pleny #: 5

DATE: 7/1/17

stipe length: 58 cm

t.z. length: 9 cm

veg. length: 140 cm ⑨

sporo length: (3) 43 cm ⑨, 88 cm ⑨, 15 cm ①
(avg.)

reprod? : y/n

sporos: 31

stipe width: base - 1.7 cm, mid - 1.5 cm, upper - 1.6 cm
(cm)

total weight: 832.8 g
(g)

h.f. weight: 34.6 g

veg. weight: 38.9 g

sporos. weight: 659.2 g

stipe weight: (w/t.z.) 92.0 g

t.z. weight: 6.7 g

⑨ = grazed blade

① = complete blade

Research Site: Stillwater Cover, Pebble Beach CA



Learning Outcomes



- Analyze samples of stalked kelp (*P. californica*)
- Categorize “control” or treated individuals of *ptery*.
- Conduct a series of chemical analysis using C, H, N Elemental-Analyzer/(LMS)
- Explain adaptive capabilities of stalked kelp; including key-nutrient storage localization
- Apply knowledge of growth cycles to resource storage habits

Connections

- CSU-Council on Ocean Affairs, Science and Technology (COAST)
- Student Internship Program (SIP)
- Graduate student: Lindsay Cooper



Thank you

