

Caryophyllids

What are caryophyllids?

• Exhibit unusual adaptations to "stressful" environments — salt marshes, halophytes



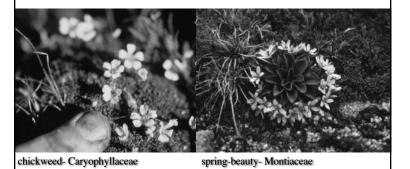


glasswort- Amaranthaceae

Caryophyllids

What are caryophyllids?

• Exhibit unusual adaptations to "stressful" environments — alpine, tundra, cushion plants



Caryophyllids

What are caryophyllids?

• "new" (unplaced) members to the group include desert families





Frankenia laevis Frankeniaceae Canary Islands

Caryophyllids

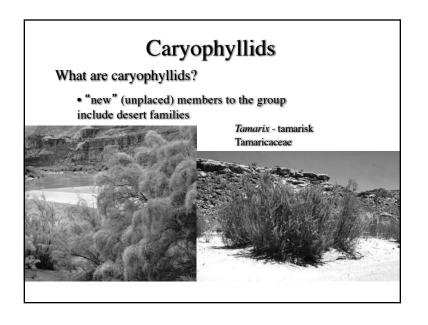
What are caryophyllids?

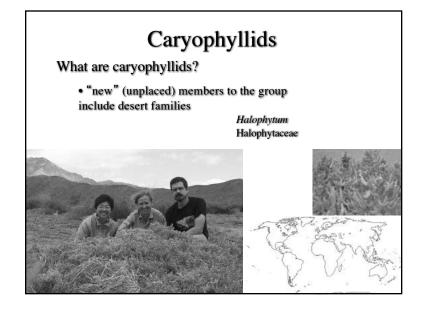
• "new" (unplaced) members to the group include desert families

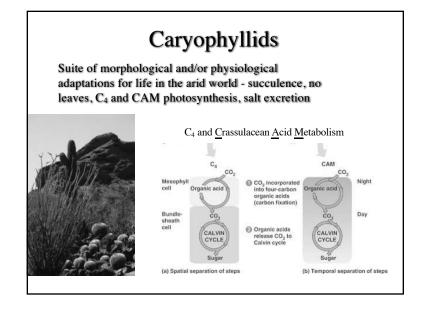


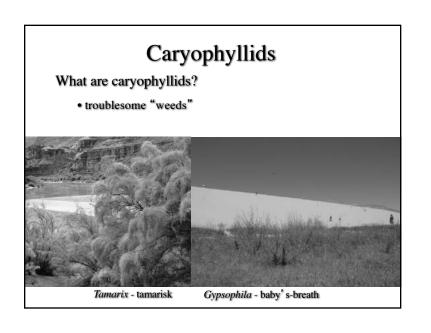


Simmondsia chinensis jojoba Simmondsiaceae Sonoran Desert endemic









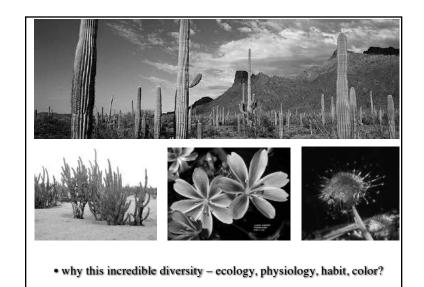
Caryophyllids

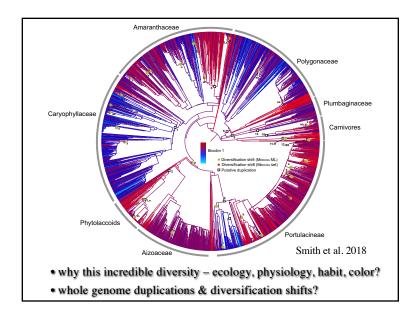
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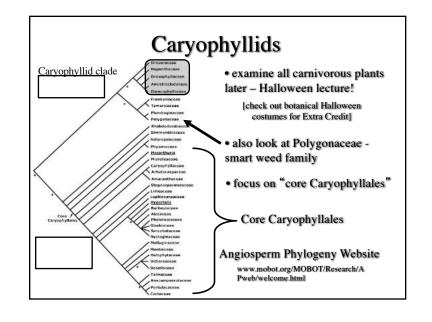
• some, but not all, of the carnivorous plants - low N

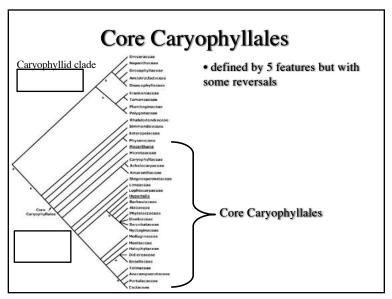


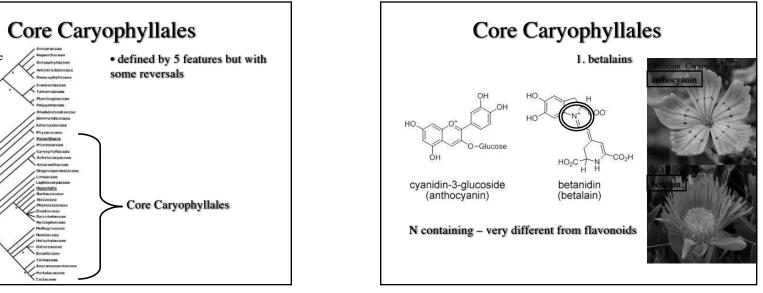


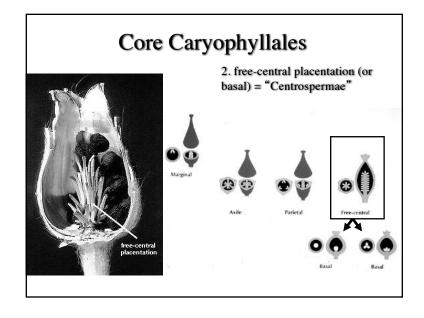


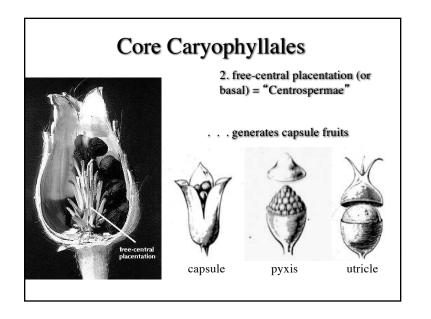


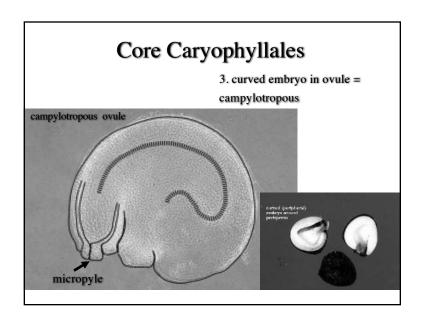


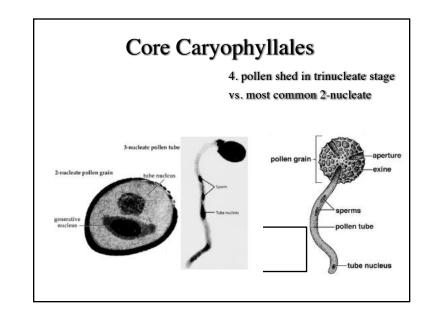


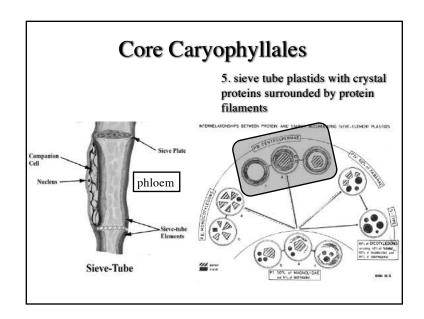


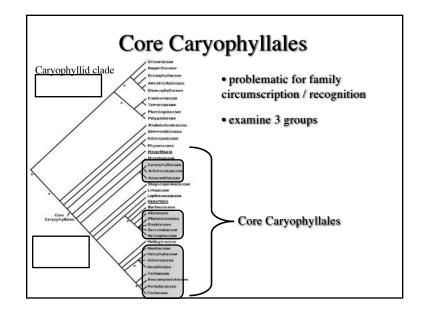


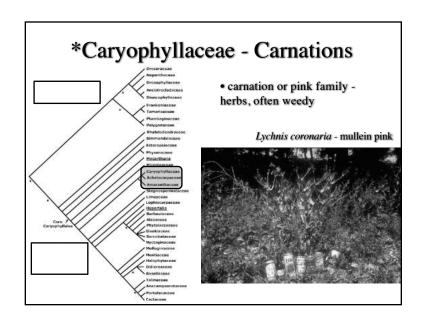


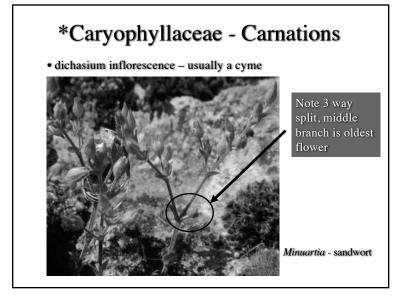


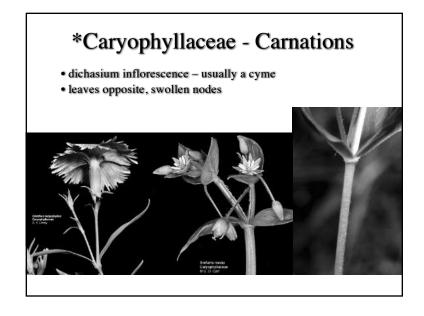


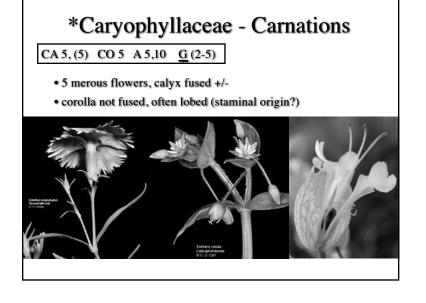












*Caryophyllaceae - Carnations

CA 5, (5) CO 5 A 5,10 <u>G</u> (2-5)

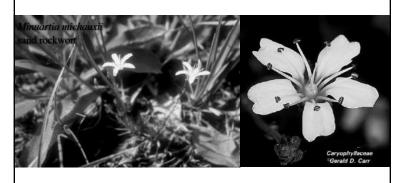
- anthers of 1-2 whorls
- 1 pistil of 2-5 carpels



*Caryophyllaceae - Carnations CA 5, (5) CO 5 A 5,10 G (2-5) • free-central or axile placentation • capsule fruit opening by teeth or valves

*Caryophyllaceae - Carnations

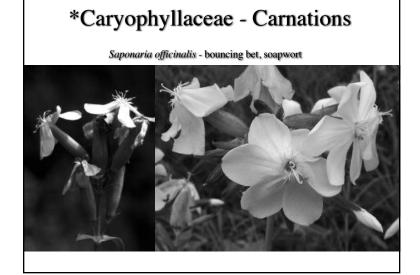
Huge family, 87 genera, 2300 species; widespread but characteristic of temperate and warm temperate regions of the Northern Hemisphere.



*Caryophyllaceae - Carnations



*Caryophyllaceae - Carnations Silene cucubalus bladder campion Silene vulgaris white campion Dianthus armeria deptford pink



*Amaranthaceae - amaranths

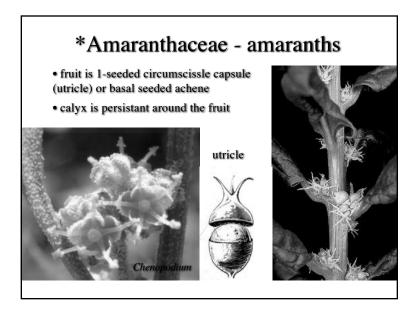
- · herbs, often halophytes or weeds, worldwide
- 174 genera & 2,050 species
- includes chenopods (old Chenopodiaceae)

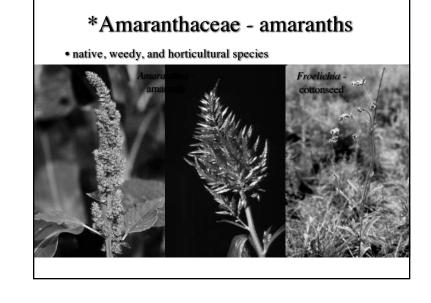


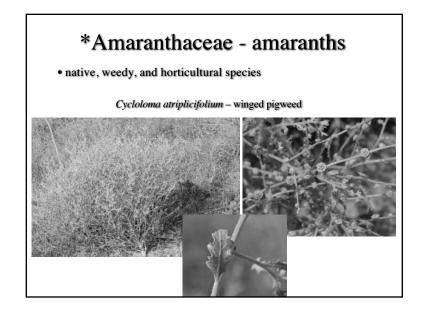
*Amaranthaceae - amaranths

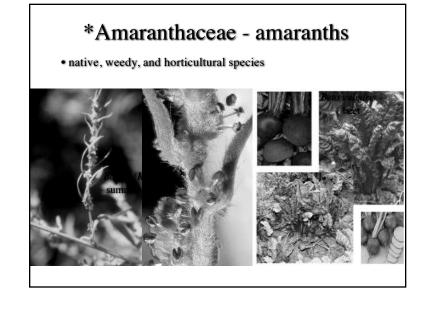
- flowers small, bracted, congested, CA 5 CO 0 A 5 G (2-3) lacking corolla
- bisexual or unisexual, monoecious or dioecious

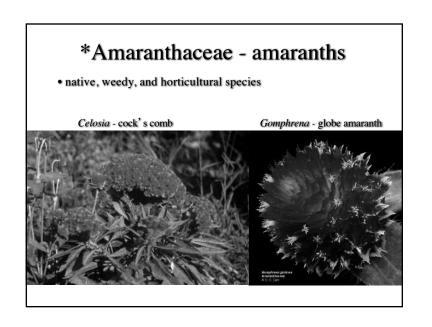


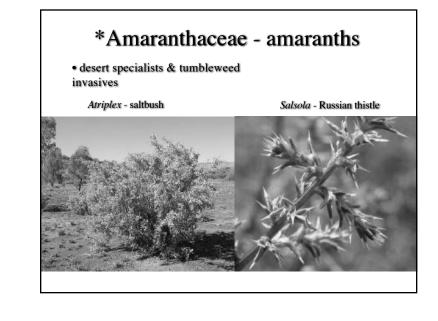


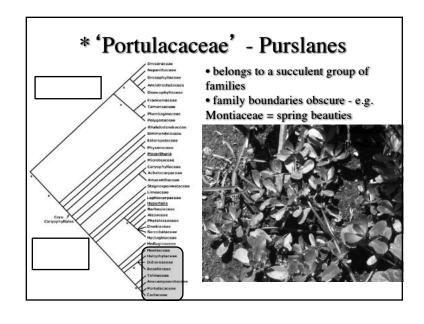


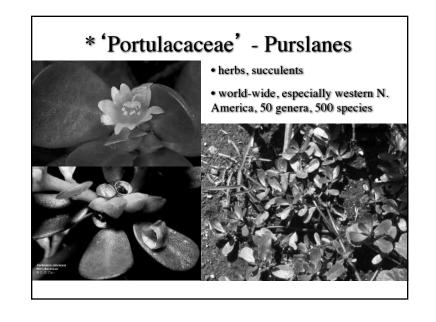


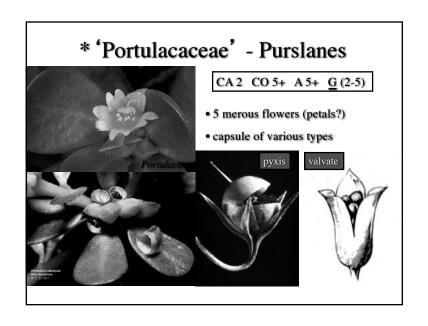


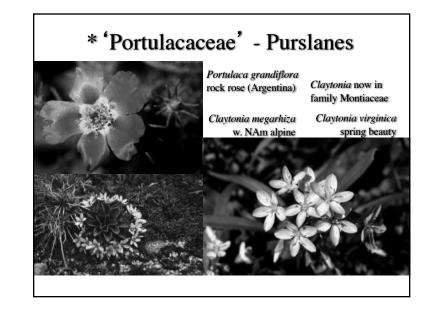


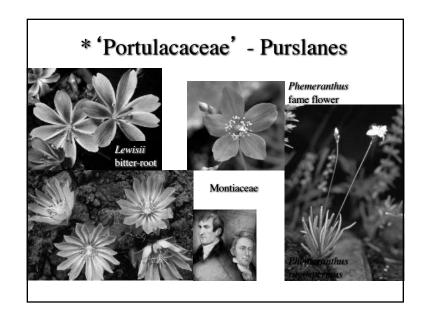


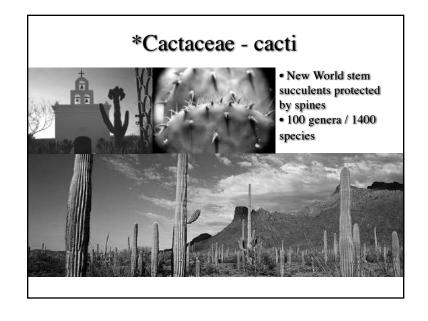




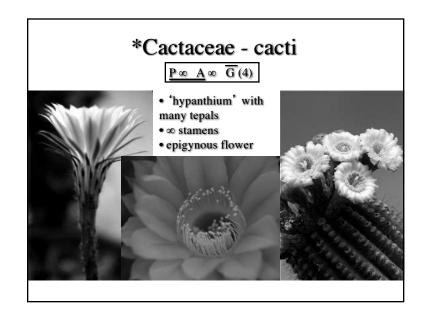


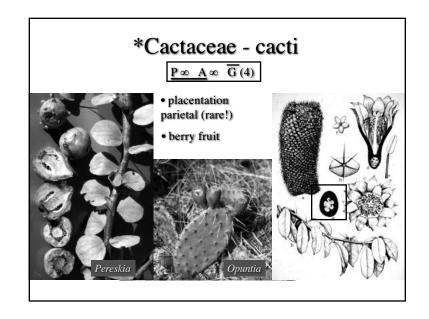


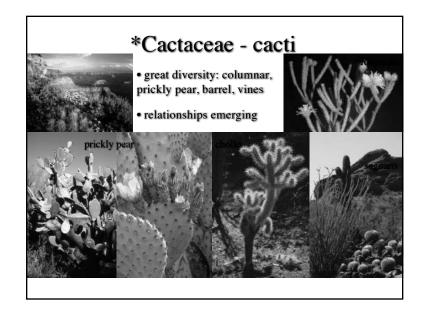


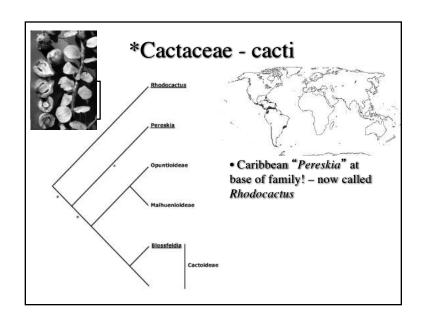


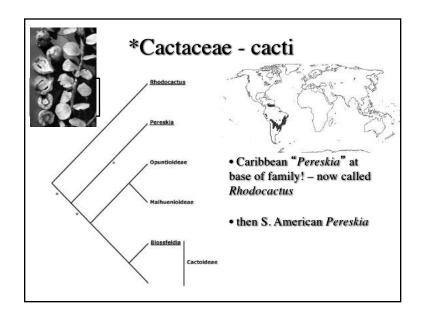


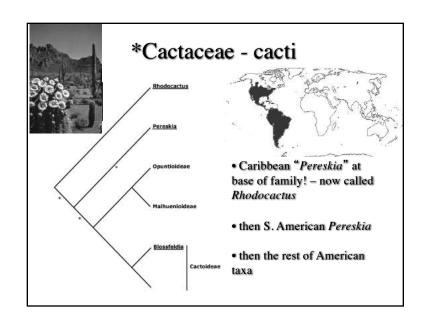


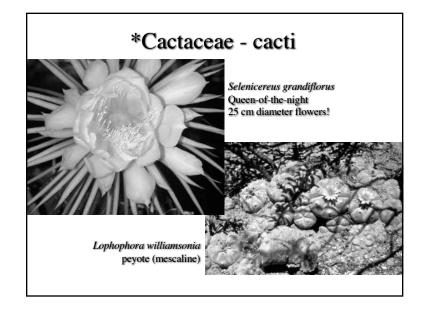


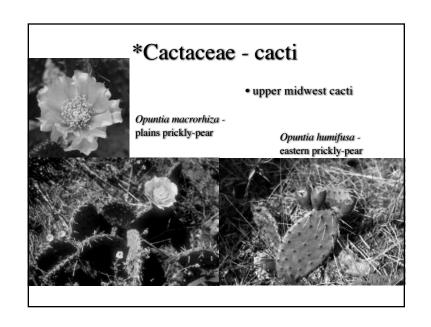


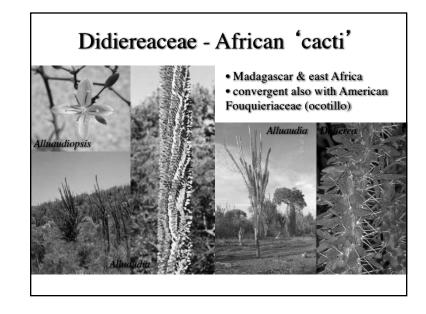


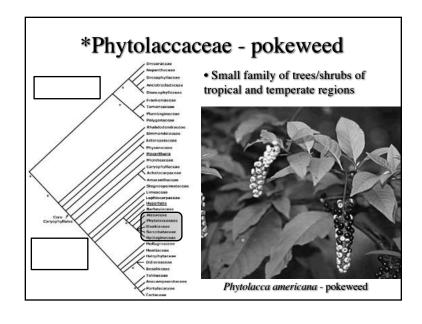


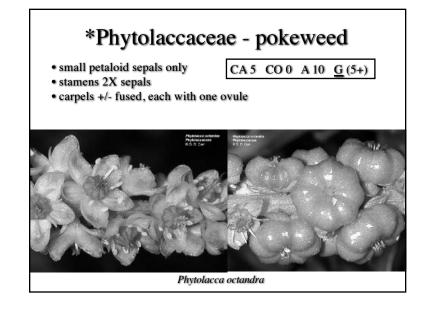


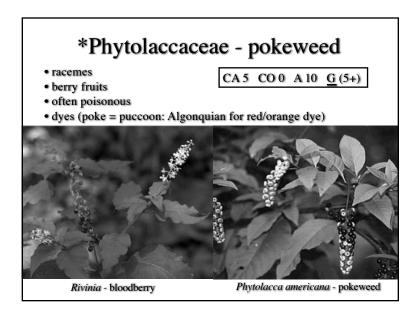


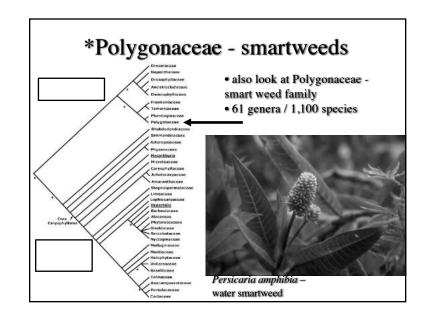


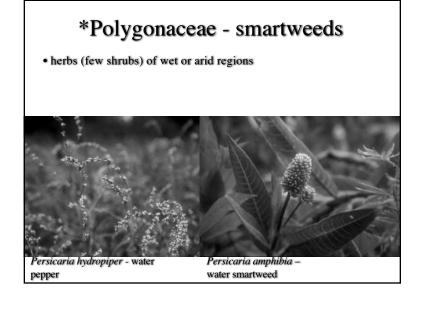


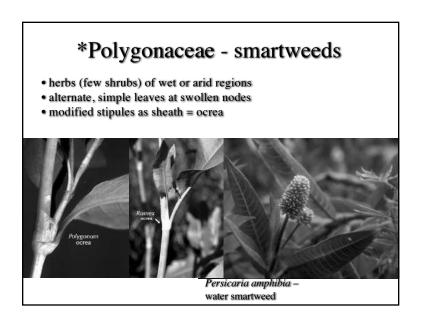


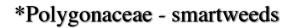












flowers congested

- P 3+3 (5) A 3X <u>G</u> (3)
- basically 3 merous, tepals petaloid
- one-seeded, three-angled achene

