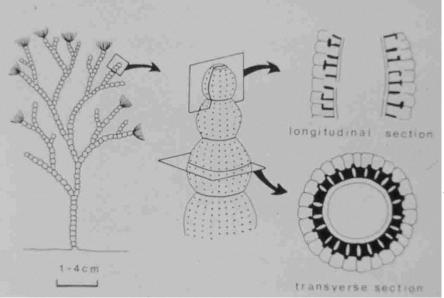
ALGHE calcaree

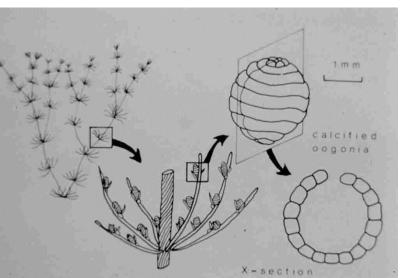
- ROSSE
- VERDI
- GIALLO-VERDI
- BLU-VERDI (CIANOBATTERI)

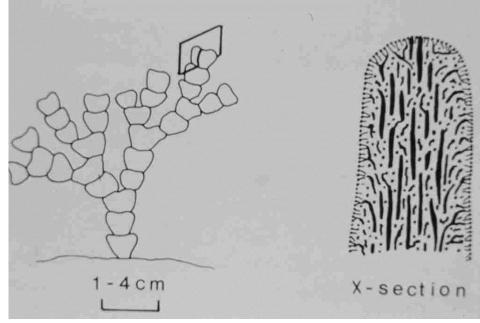


ALGHE VERDI

Dasycladaceae: aragonitiche; tipiche di acque lagunari protette (aree tropicali)

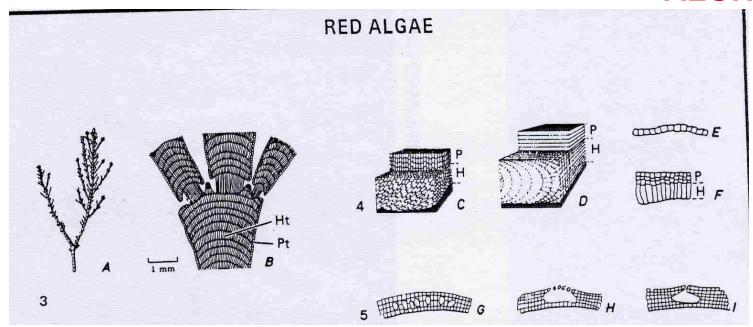
Codiaceae: aragonitiche; tipica l'Halimeda, alga di laguna recifale





Characeae: LMg; acque dolci e salmastre

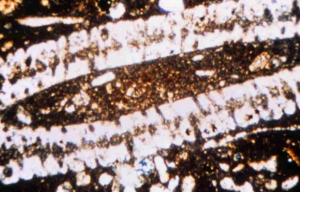
ALGHE ROSSE



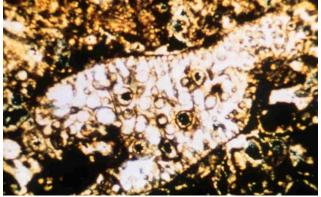
- •HMgCa
- •Struttura a celle regolari

2 le famiglie più comuni:

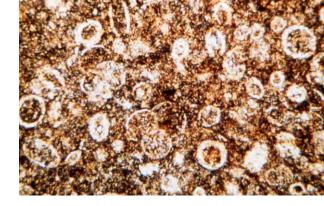
- Solenoporaceae
- Corallinaceae



DASYCLADACEA
Alga verde; aragonitica



CODIACEA: HALIMEDA
Alga verde; i buchi visibili in ss sono originali
e sono riempiti da sparite



CALCISFEREAlga verde; forme problematiche

ALGHE

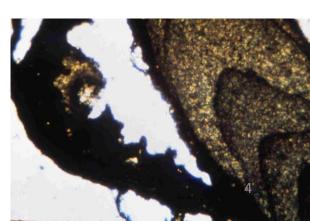
LITHOTAMNIUM Rodoficea-corallinacea incrostante

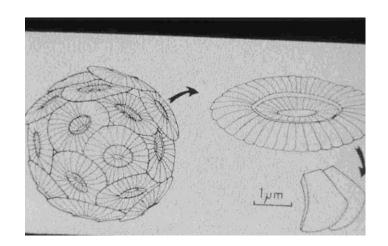


LITHOPHILLUM corallinacea



FRAMMENTO ALGA ROSSSA

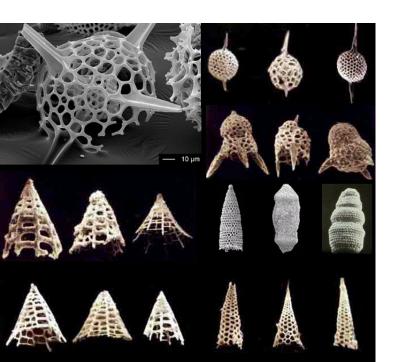




ALGHE CALCAREE GIALLO -VERDI

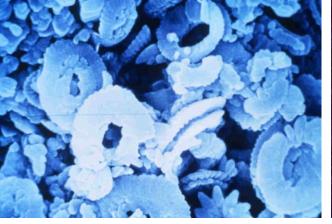
Coccolitoforidi: LMgCa; coccoliti

Altre alghe sono le Diatomee, alghe silicee

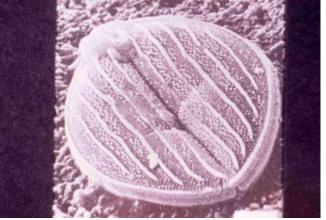




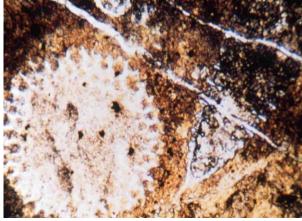
...e i Radiolari, anche questi a guscio siliceo



COCCOLITI SEM; guscio LMgCa



DIATOMEE Guscio siliceo



RADIOLARI Guscio siliceo

RADIOLARITE

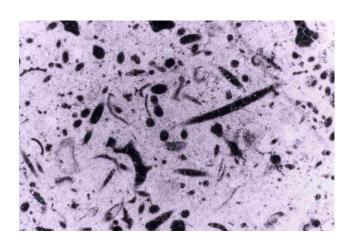


Table 31. Ecological factors of Recent calcareous algae

	Salinity	Water temperature	Water Depth	Water Energy	Substrate	Biotope
Cyanophyceae	Freshwater, brack- ish water, hypersa- line, not normal ma- rine	Warm and cold water	Shallowest tidal zones to the greatest depths	Generally low	Mud and sand bot- toms (sediment binders); borers in hard grounds	Terrestrial, lacus- trine, tidal zone
Chlorophyceae: Codiaceae	Normal marine	Tropical (app. 25° C), few subtropical species	Lower tidal zone, usually < 10 m; to 100 m; range of species dependent on depth	Low, generally quiet waters	Mud and sand bot- toms, very few species on hard bot- toms	Protected lagoons and deeper fore- reef slope
Dasycladaceae	Usually normal ma- rine, a few species tolerate brackish wa- ter and hypersaline environments	Tropical to subtropical; a few species in warm temperate water. Important factor!	Below the tidal zone to about 30 m; max. about 90 m; usually 3-5 m	Low, generally quiet waters (be- low wave base or in protected la- goons)	Mud and sand bot- toms, a few species on hard bottoms (rocks; reef flats)	Protected lagoons, protected reef flats
Charophyceae	Fresh and brackish water, hypersaline	Warm water and cooler water	To about 10 m, usually very shal- low	Standing or slug- gish water	Mud and sand bottoms	Shores of freshwater lakes; in near-coast- al brackish water
Rhodophyceae: Squamariaceae	Normal marine	Warm water (tropics, subtropics)	Lower tidal area down to a few me- ters below mean sea level, max. about 90 m	Low	Usually hard bottoms	Reef areas, open marine
Corallinaceae	Usually normal ma- rine; only a few species tolerate re- stricted salinity in coastal areas	Warm and cold wa- ter (tropics to polar region); stenother- mic species and genera	Tidal zone to 250 m; usually <25 m; range of species dependent on depth	Varies: a few taxa in high-energy en- vironments, others in low-energy environments	Usually hard grounds (reefs, un- derwater cliffs), but also soft bottoms or unstable substrates	Open marine plat- forms and bays with banks or reefs (outer reef margin); shelf slopes (some rhodo- lites)

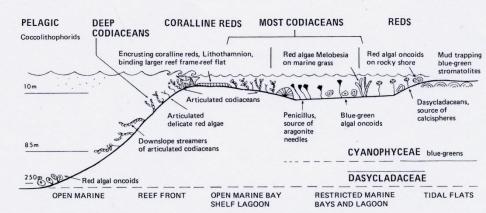
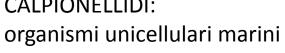
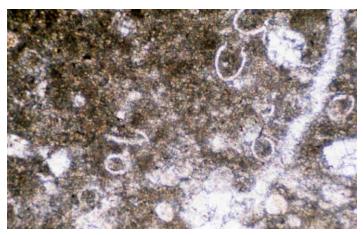


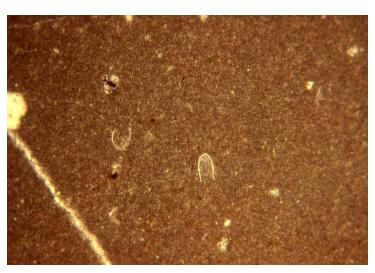
Fig. 49. Ecology of calcareous marine algae; depositional environments along an idealized profile of a carbonate shelf margin. After Wilson (1975). This diagram shows only the main areas of spatial distribution for some algal groups. Recent dasycladacean algae, for instance, are also found in various restricted environments (lagoons, protected reef flats, mangrove zones) as well as in near-coastal hard bottoms, where they grow on rocks (see Valet, 1979)

CALPIONELLIDI:



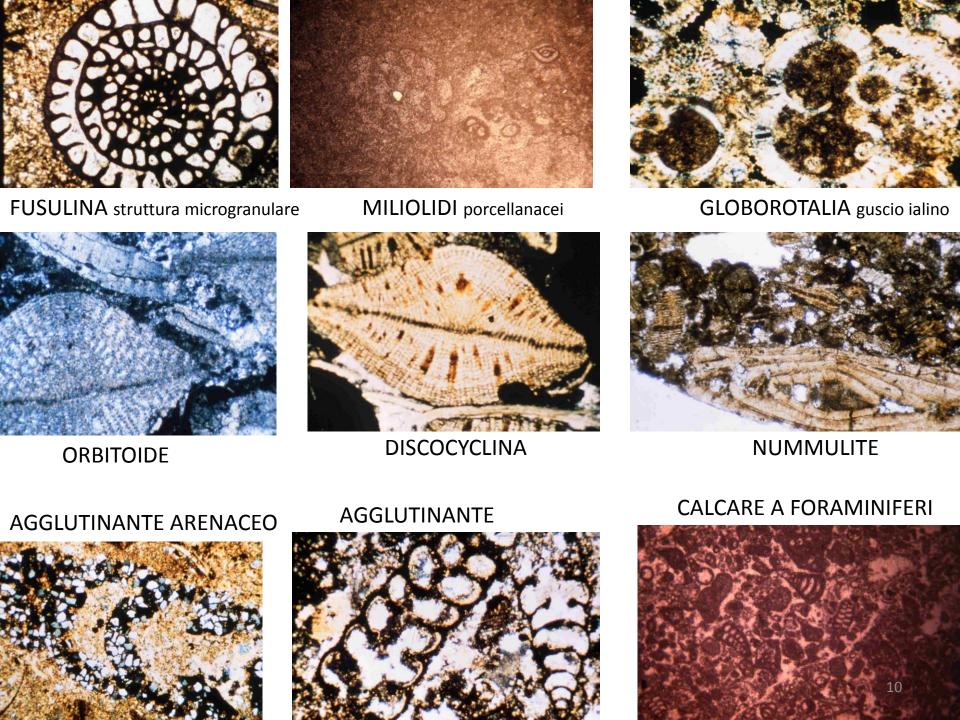




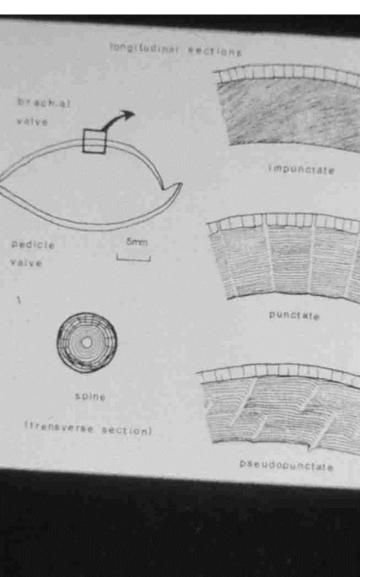


FORAMINIFERI

- Planctonici o bentonici
- Guscio:
- Agglutinato (bentonici)
- Calcareo : a) Gusci porcellanacei, imperforati
 b) Gusci ialini, perforati
- Siliceo (raro)
- Mineralogia: LMgCa, raramente aragonite



BRACHIOPODI



- marini
- bentonici sessili
- struttura fogliata (lamine di calcite disposte a laminette o obliquamente all'andamento del guscio)
- guscio calcitico

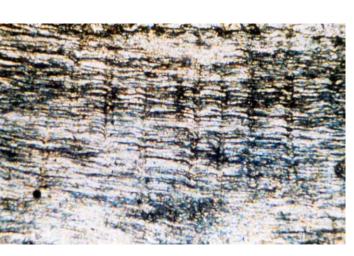




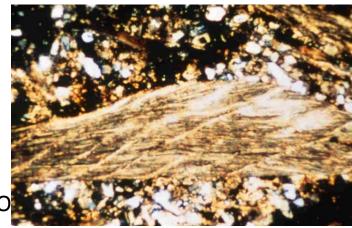
CORALLI

Guscio da aragonitico, HMgCa a calcitico

CORALLO RUGOSO SOLITARIO

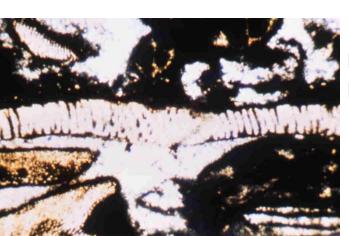


BRACHIOPODE struttura fibrosa parallela: si vedono le pseudopuncte



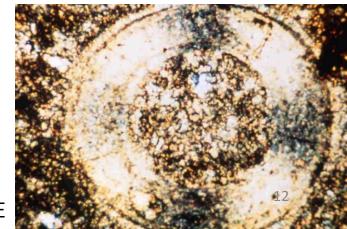
BRACHIOPODE PSEUDOPUNCTATO

BRACHIOPODI

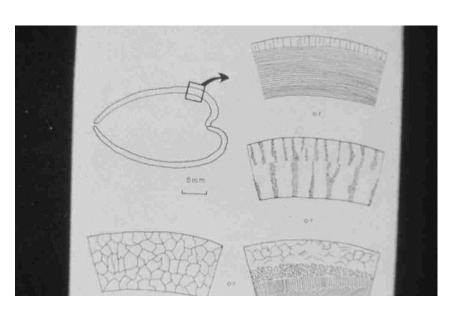


BRACHIOPODE PUNTATO





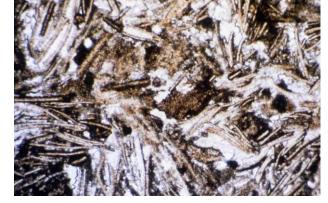
MOLLUSCHI BIVALVI



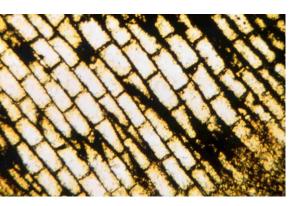
- •Presenti in tutti gli ambienti acquatici
- •Vario modo di vita (infaunali, epifaunali, planctonici, nectonici ecc
- guscio quasi sempre aragonitico (struttura a più strati che non viene conservata)



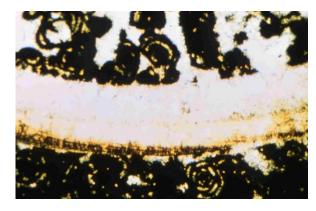
Effetto riparo alla micrite: Struttura geopetale



LAMELLIBRANCHI PELAGICI (PELECIPODI)
Guscio per lo più aragonitico



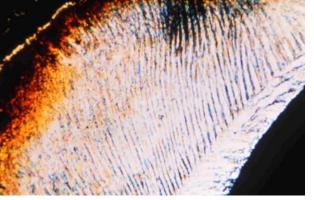
sezione di parete di RUDISTA



parete di RUDISTA Guscio aragonitico

frammento di OSTRICA bucata





Guscio a lamelle incrociate



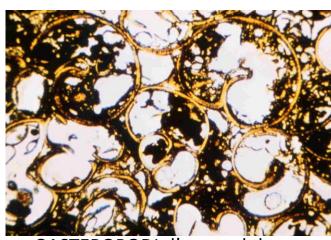
Parete aragonitica calcitizzata



Guscio da aragonitico a calcitico



Parete aragonitica calcitizzata

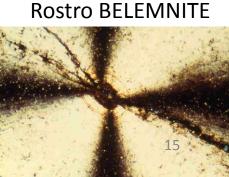


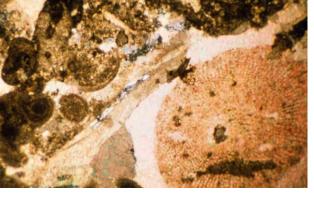
GASTEROPODI d'acqua dolce. Guscio aragonitico



Sezione di CEFALOPODE









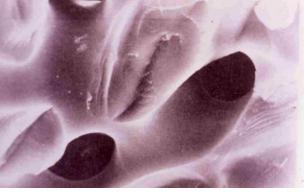
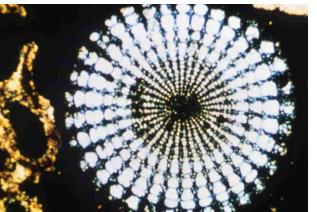


Immagine al SEM



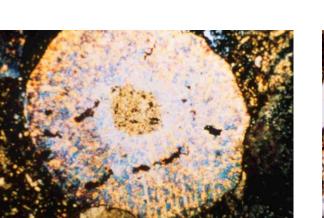
ECHINIDI (radioli)

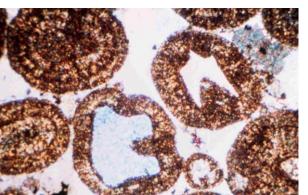
ECHINODERMI

Guscio calcitico

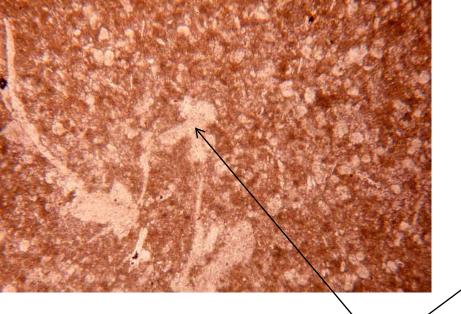


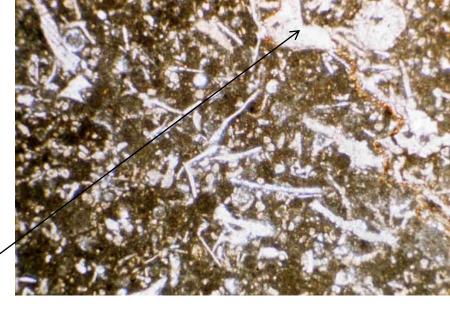
entrochi + ooidi











SACCOCOMA (parte del crinoide pelagico)

OSTRACODI guscio calcitico



TRILOBITE

