

An artistic illustration of a mangrove forest. The scene is split horizontally by a water line. Above the water, there are several mangrove trees with thick, gnarled trunks and dense green foliage. A white bird is perched on a branch in the center. To the right, a branch with large green leaves and small white flowers is visible. Below the water line, the intricate root system of the mangroves is shown in detail, with various types of roots extending into the water. Small fish and other aquatic life are depicted swimming among the roots. The overall color palette is dominated by greens, browns, and blues.

Tema: VEGETACIJA MANGROVE

23.03.2020.

ŠTA SU MANGROVE?

Mangrove su TIP
VEGETACIJE koji se razvija na
MULJEVITIM terenima
ZALIVA, LAGUNA I UŠĆA
RIJEKA u TROPSKIM
OBLASTIMA, a koju
karakterišu uglavnom
ZIMZELENE DRVENASTE
BILJKE.



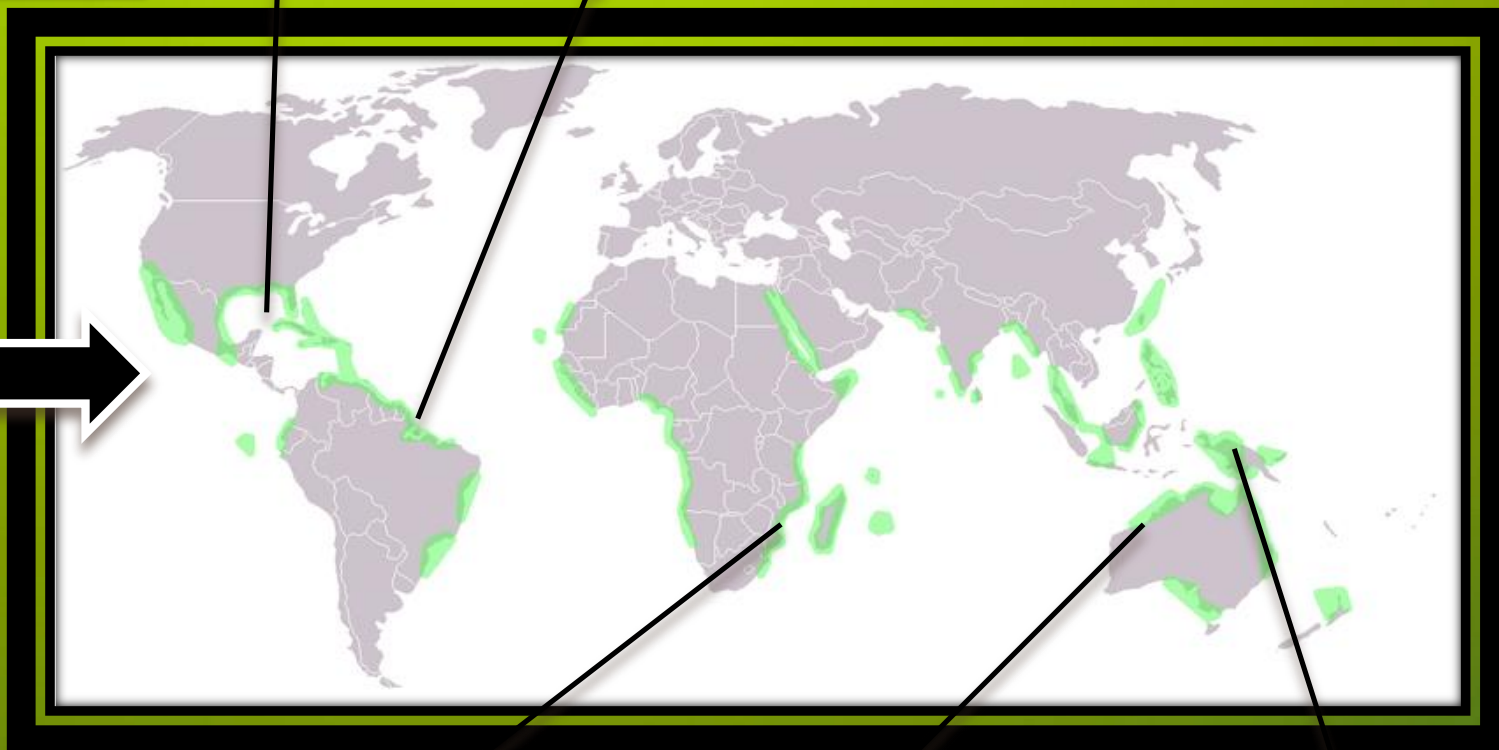
NAJBOLJE RAZVIJENE

U OBLASTI
EKVATORA,

ALI I
DALEKO
NA
JUG!

Srednja Amerika (obale
Karipskog mora i obale
Meksičkog zaliva)

Istočne obale Južne Amerike



Obale Afrike
(sa Madagaskarom)

Obale Australije

Ostrva Melanezija i
Mikronezija

SPECIFIČNA PRILAGOĐENOST ZBOG:

☐ STALNOG UTICAJA
OSJEKE I PLIME !



☐ MULJEVIT,
LABILAN SUPSTRAT



☐ ANAEROBIJA

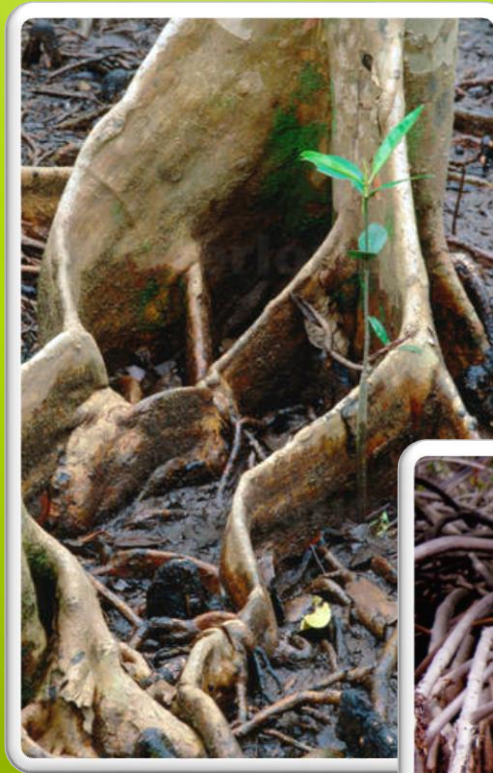


☐ POVEĆANA
KONCENTRACIJA SOLI



KORIJEN

potporni
(*Rhizophora*)



➤ pričvrščuju za podlogu

➤ disanje (lenticеле)

koljenasti
(*Bruguiera*)



PNEUMATOPHORE!!!



KORIJENOVİ ZA DISANJE !



! PRILAGODJENOST NA ANAEROBNE USLOVE

➤ *Avicennia*

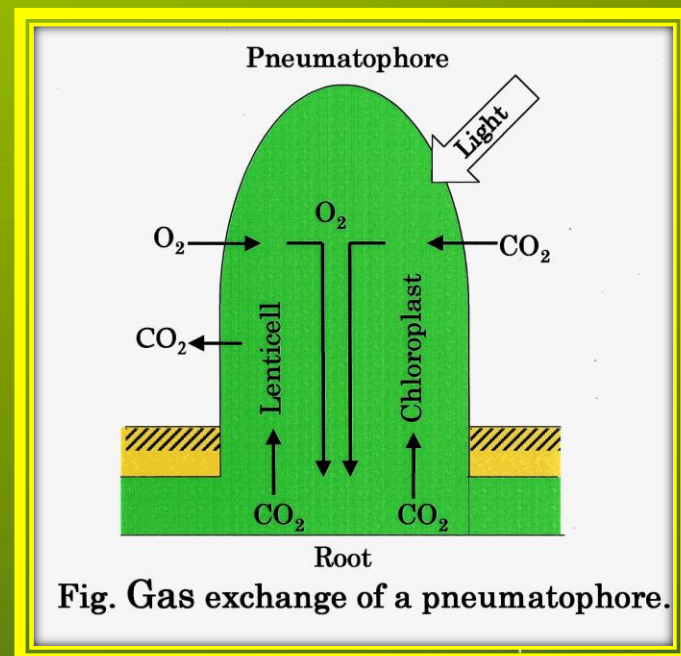


Fig. Gas exchange of a pneumatophore.

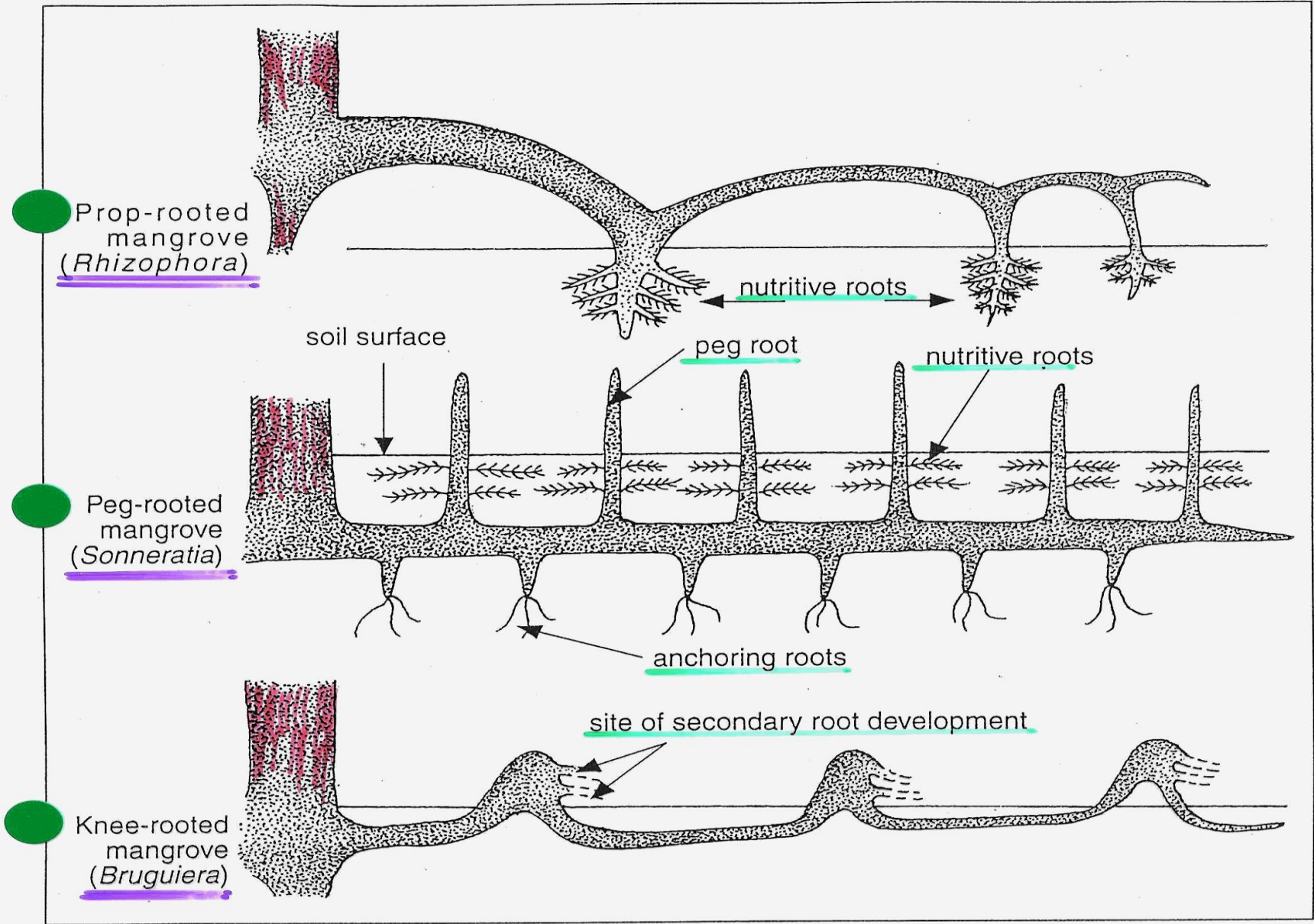


Fig. **Diagram of mangrove root systems.**

Mangrovne vrste su HALOFITE.

Velika zaslanjenost podloge !

BIJELE MANGROVE

(Avicennia marina)



! Prilagođenosti:

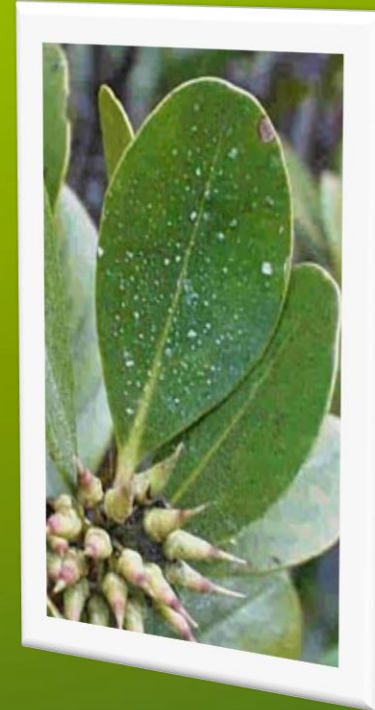
visok osmotski pritisak u korijenu i listovima

voda i soli ulaze kroz biljne organe

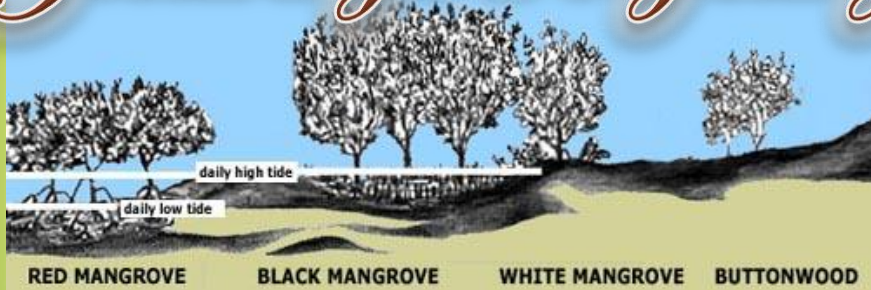
so odstranjuju preko žlijezda na listovima



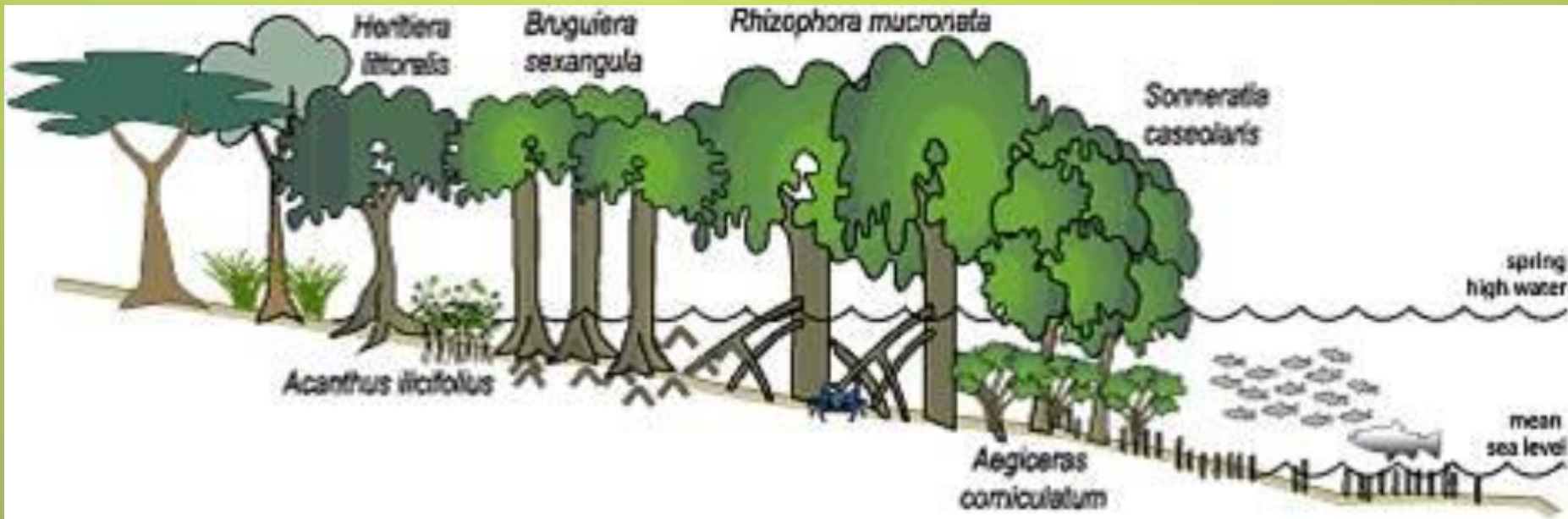
(Laguncularia racemosa)



Zoniranje u vegetaciji mangrove



- PALMA - *Nypa fruticans* ???



Ekološke razlike u vezi sa udaljenošću od mora i različitom dubinom vode za vrijeme plime.

Sve vrste mangrovinih šuma su obuhvaćene u 8 familija.

ZAPADNA OBLAST



Rhizophora mangle

Avicennia nitida



Avicennia tomentosa



Laguncularia racemosa



ISTOČNA OBLAST



Rhizophora mucronata



Sonneratia caseolaris

! PREKO 20 VRSTA !



Bruguiera cylindrica



ПЛОД...

...КЛИСА...

...ПОТОМАК!



Rhizophora apiculata



Avicennia alba



viviparija !!!



Sonneratia



**Honda Bay,
Philippines**