

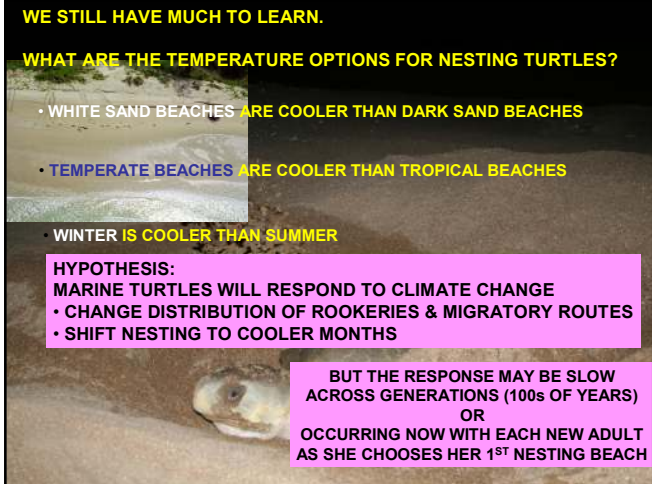
WE STILL HAVE MUCH TO LEARN.

WHAT ARE THE TEMPERATURE OPTIONS FOR NESTING TURTLES?

- WHITE SAND BEACHES ARE COOLER THAN DARK SAND BEACHES
- TEMPERATE BEACHES ARE COOLER THAN TROPICAL BEACHES
- WINTER IS COOLER THAN SUMMER

HYPOTHESIS:
 MARINE TURTLES WILL RESPOND TO CLIMATE CHANGE
 • CHANGE DISTRIBUTION OF ROOKERIES & MIGRATORY ROUTES
 • SHIFT NESTING TO COOLER MONTHS

BUT THE RESPONSE MAY BE SLOW
 ACROSS GENERATIONS (100s OF YEARS)
 OR
 OCCURRING NOW WITH EACH NEW ADULT
 AS SHE CHOOSES HER 1ST NESTING BEACH



WITH SEA LEVEL RISE:

ON NESTING BEACHES WITH ELEVATED DUNES, TURTLES WILL CRAWL HIGHER TO LAY

HYPOTHESIS:
 WITH GLOBAL WARMING & SEA LEVEL RISE, SOME BEACHES WILL BE LOST & NEW ONES FORM
 BREEDING FEMALES WILL ADJUST NESTING DISTRIBUTION ON AVAILABLE BEACHES

ON LOW COASTAL ISLANDS, HIGH RISK OF BEACH LOSS & EVEN ISLAND LOSS

HOWEVER:
 CENTRAL PACIFIC ATOLL STUDY - >50% OF ATOLL ISLANDS INCREASED IN SIZE IN LAST 80 YEARS
 CARIBBEAN ISLAND NATIONS
 GREAT BARRIER REEF
 • MALDIVES

BOUNTIFUL ISLAND

