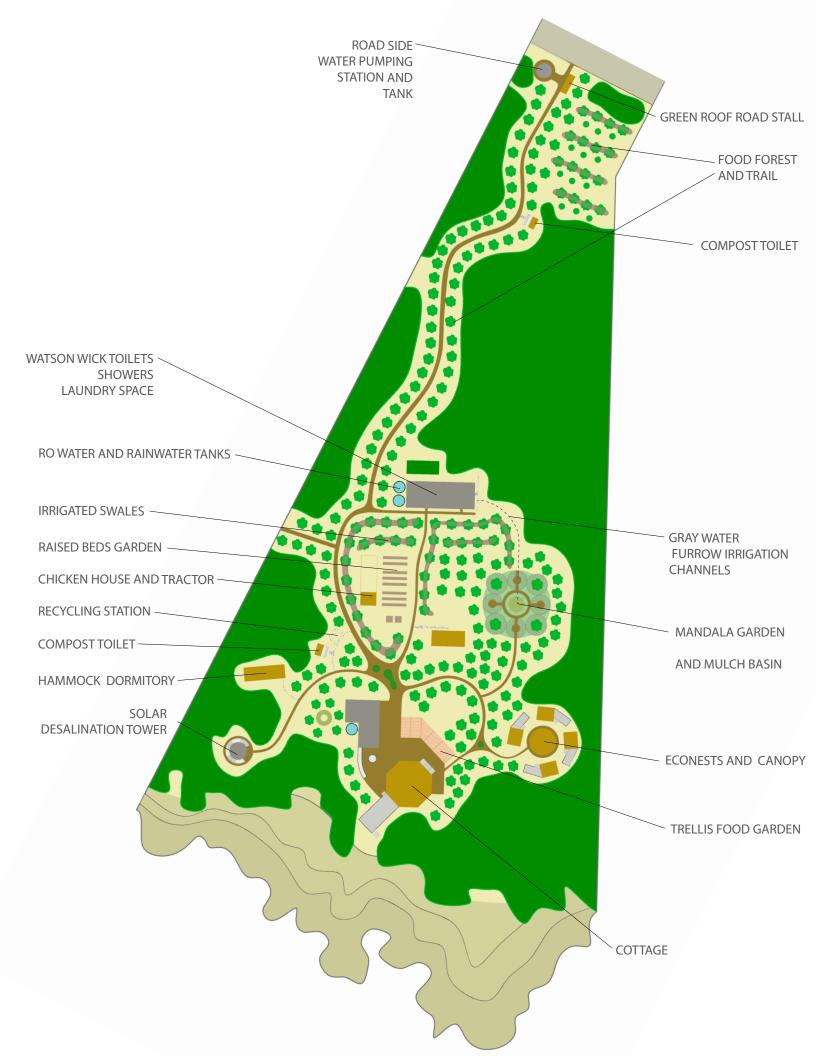


THE ROCK CENTER

PERMACULTURE DEVELOPMENT AT LITTLE BAY, JAMAICA



MISSION:

Rock Permaculture Center will contribute to socioeconmic vitality of Little Bay and coastal communities through ecotourism, rotating permaculture residencies, community workshops and partnerships with Island's eco initiatives.

- -Conduct restoration of cottage to withstand future hurricane damage, design for resilience
- -Infrastructure (energy, water, permaculture)
- -Research and implement protective and productive coastal landscapes: food, materials, forage
- -Establish youth arts programs with local, national and international artists



WATER

- -10% of the rural population of Jamaica has no access to clean drinking water
- -Water is usually delivered by a tank truck to Little Bay from as far as eight miles away
- -Little Bay receives less than 30 inches of rainfall a year, mostly during the wet season
- -Nearest well, spring, or river are miles away

FOOD

- -Dumping of cheap food such as low grade American chicken, powder milk, processed products and even fruits and vegetables replaces many local and island economies
- -There are no restrictions on foods exported from the United States to Jamaica

SANITATION

- -20% of the population have no access to approved sanitation in rural Jamaica
- -Polluted river ways are a major source of drinking water for rural population
- -Coastal water pollution is damaging to reef habitats

ROCK CENTER = COMMUNITY WATER

- -A reverse osmosis water desalination system with the capacity to desalinate and filtrate 5, 000 gallons/per day to provide for water needs of center and community
- -Rainwater harvesting & site retenetion

ROCK CENTER = PERMACUITURE

- -Permaculture gardens and hydroponic/aquaponic production
- -Organic farming workshops, intensive gardening, composting, seed-saving, perm. irrigation methods, etc.
- -Working together with local organizations, businesses, farmers, fishermen, women and children to encourage local economic growth

ROCK CENTER = ZERO WASTE

-Watson Wick toilet and composting toilets compost contribute to fixing akaline & acidic soils, diversity of species, gray water system produce zero waste and pose no harm to the coastal ecosystem or water supply -Living Building Challenge goals









"I AM A PROMISE, I AM A POSSIBILITY"



PROPERTY ROAD SIDE WALL AND GATE











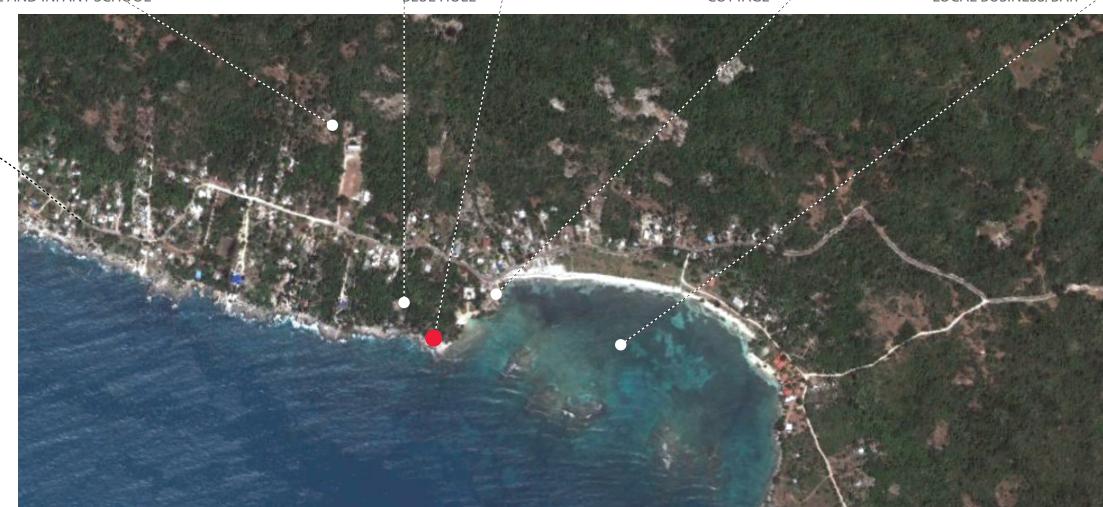
ALL AGE AND INFANT SCHOOL

BLUE HOLE

COTTAGE

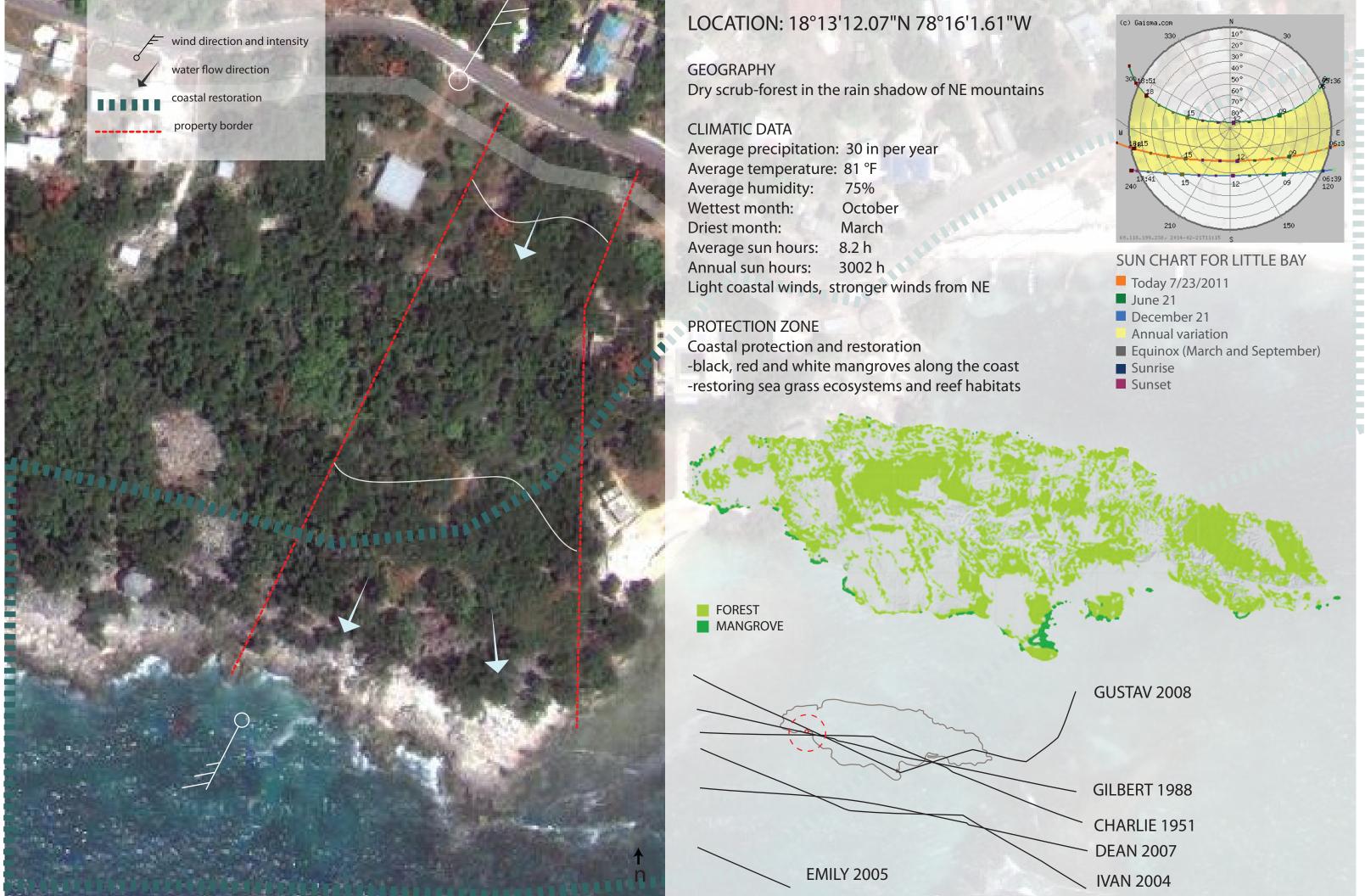
LOCAL BUSINESS/BAR

FISHING BOATS IN THE BAY





TO NEGRIL 8 MI



-ROADSIDE GATHERING AREA -BUILD HAMMOCK CANOPY -CABANAS & 'ONE' CANOPY

stage 3:

TIDAL POOL

-ESTABLSH SEA GRASS

-START THE MANDALA GARDEN -TIDAL POOL CULTIVATION -GARDEN CULTIVATION

ROCK PERMACULTURE CENTER

stage 1:

- -BUILD/RESTORE COTTAGE
- -INSTALL SOLAR WATER DESALINATION
- -RESTORE OUTDOOR KITCHEN
- -COMPOST TOILETS
- -GRAY WATER SYSTEMS
- -ESTABLISH TRAILS & EDGES
- -STRUCTURE/CULTURE SCRUB FOREST
- -RAISED BEDS AND CHICKEN TRACTOR
- -ESTABLISH MANGROVE & LEGUMES*

- -BLACK MANGROVE
- *-WHITE MANGROVE*

stage 2:

STABILIZING THE SHORE LINE

-LEARN LOCAL RESOURCE STREAMS

-ESTABLISH BANANA CICRLE COMPOST

-PLANT LEGUMES ON SWALES,

-CULTIVATE FOOD FOREST CANOPY

-START PIONEER SPECIES

-CONTINUE COASTAL FORAGING

& PRODUCTION RESEARCH

-LAY OUT FURROW IRRIGATION

- -RED MANGROVE



-LEUCAENA

LEGUMES

- -ACACIA
- -TAMARIND















FOOD - DRY SCRUB FOREST

- -POMELO
- -TAMARIND

- **TRELLIS GARDEN**
- -CHAYOTE
- -BEANS

RAISED GARDEN VEGETABLES AND HERBS

HERBAL SPIRAL: SPICES AND TEA HERBS

BANANA CIRCLE

CASHEW TREES

LAYER ONE

-TARO

LAYER TWO -CASAVA -YAM

-PAPAYA

LAYER THREE **GUAVA RAMBUTAN**

-SWEET POTATO