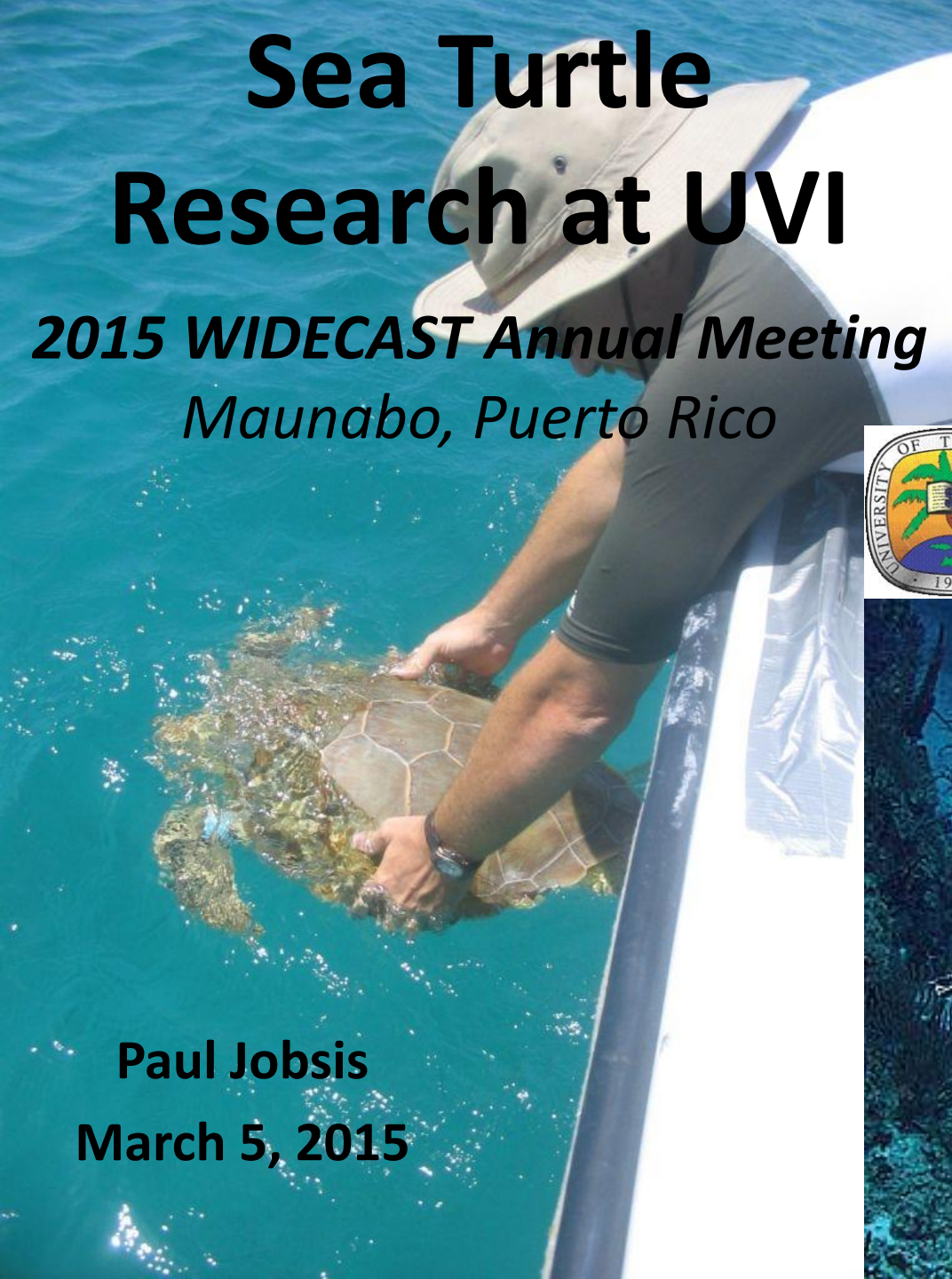


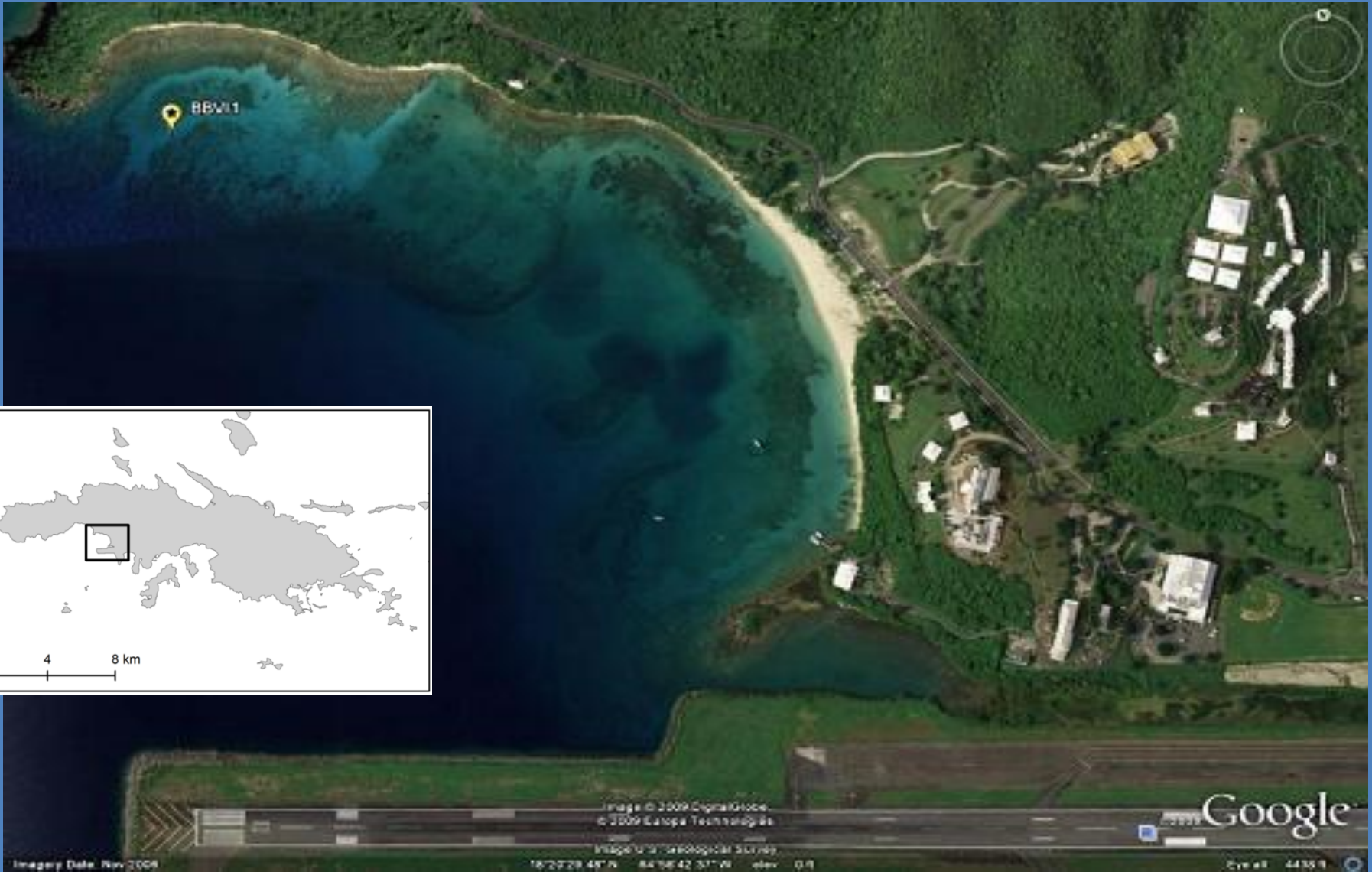
Sea Turtle Research at UVI

*2015 WIDECAST Annual Meeting
Maunabo, Puerto Rico*

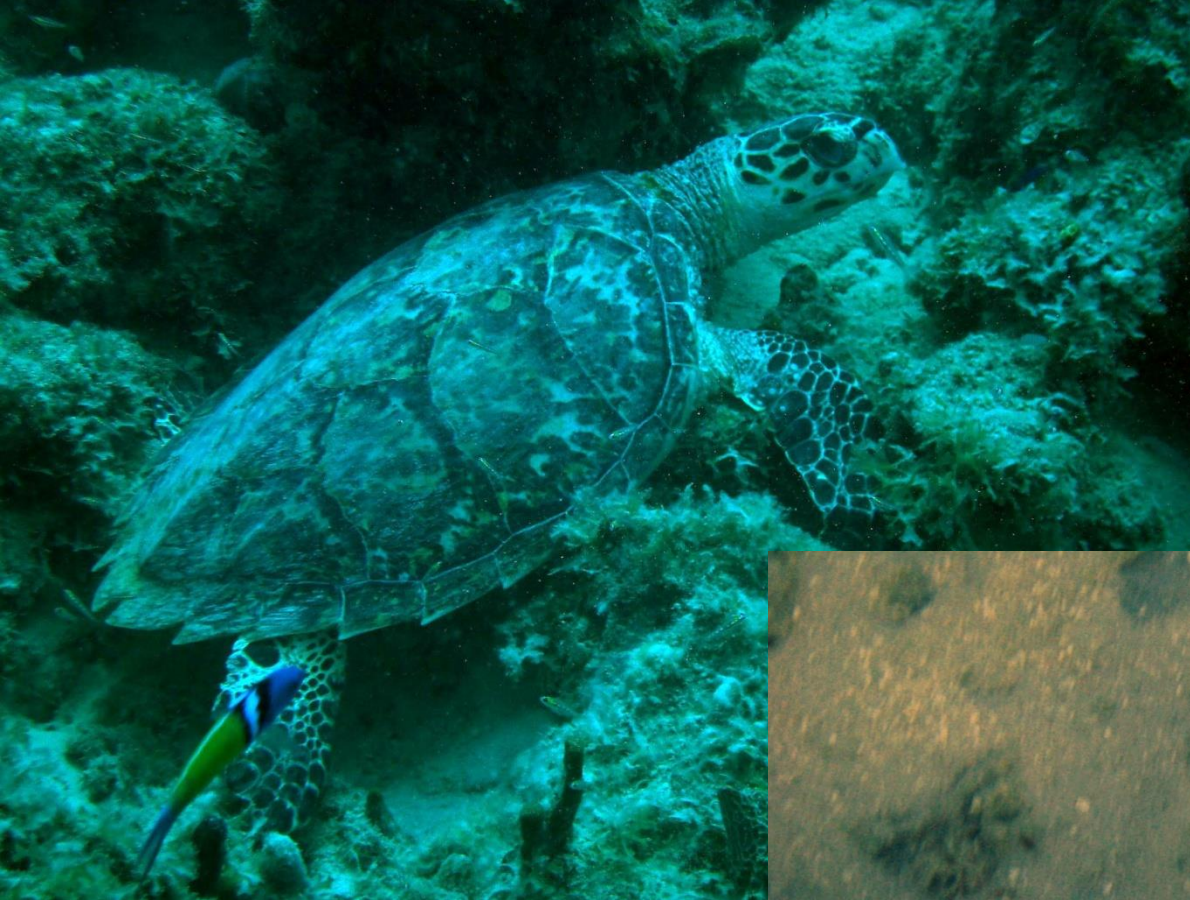


Paul Jobsis
March 5, 2015

Brewers Bay, St. Thomas USVI 2003.



What species
of sea turtles
do we have in
Brewers Bay?

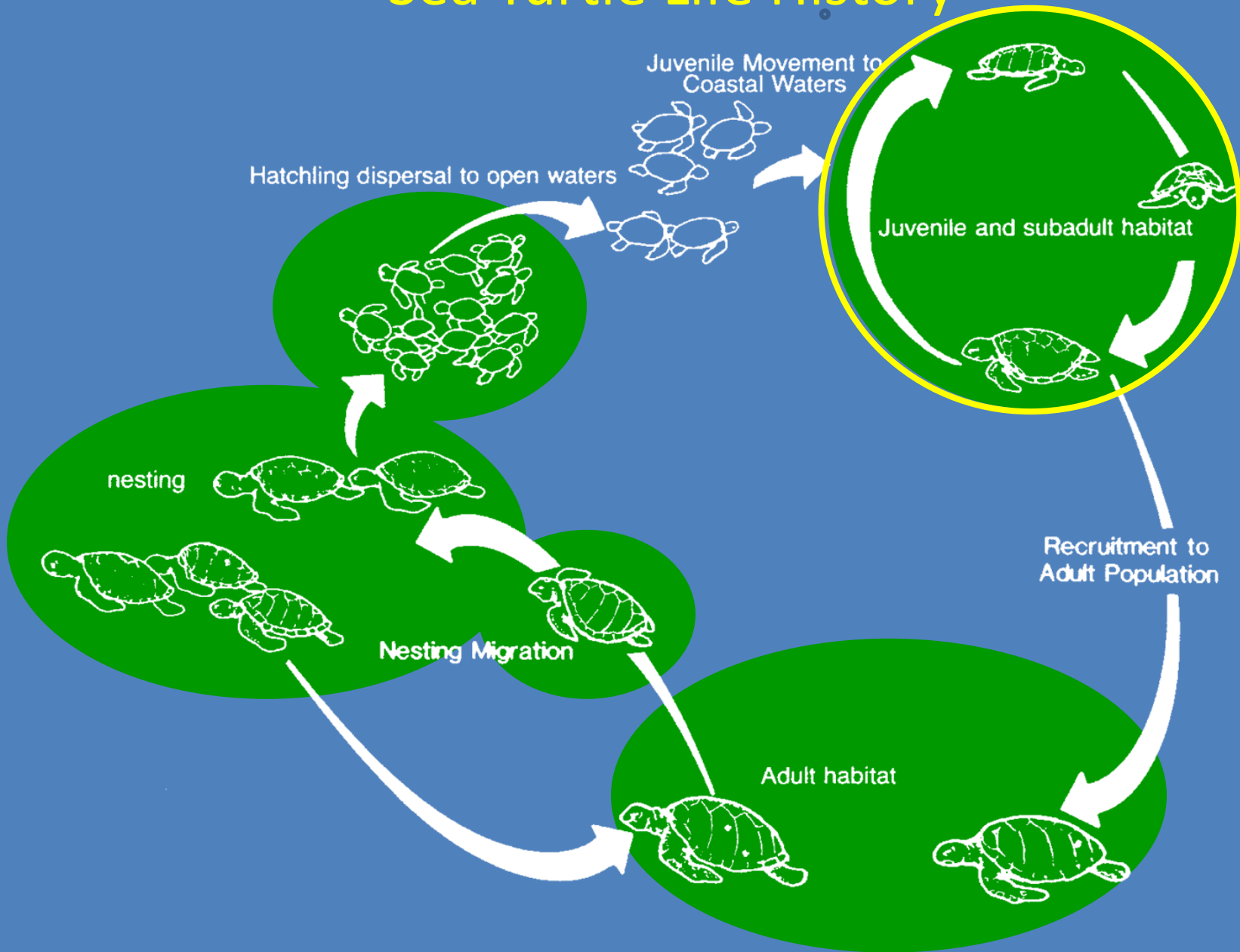


Hawksbill Turtles
Eretmochelys imbricata

Green Turtles
Chelonia mydas



Sea Turtle Life History



UVI Sea Turtle Club Activities

- In-Water Surveys
- Mark/Recapture
- Foraging Surveys
- Education



Education, Outreach and Research

Kemit Amon Lewis

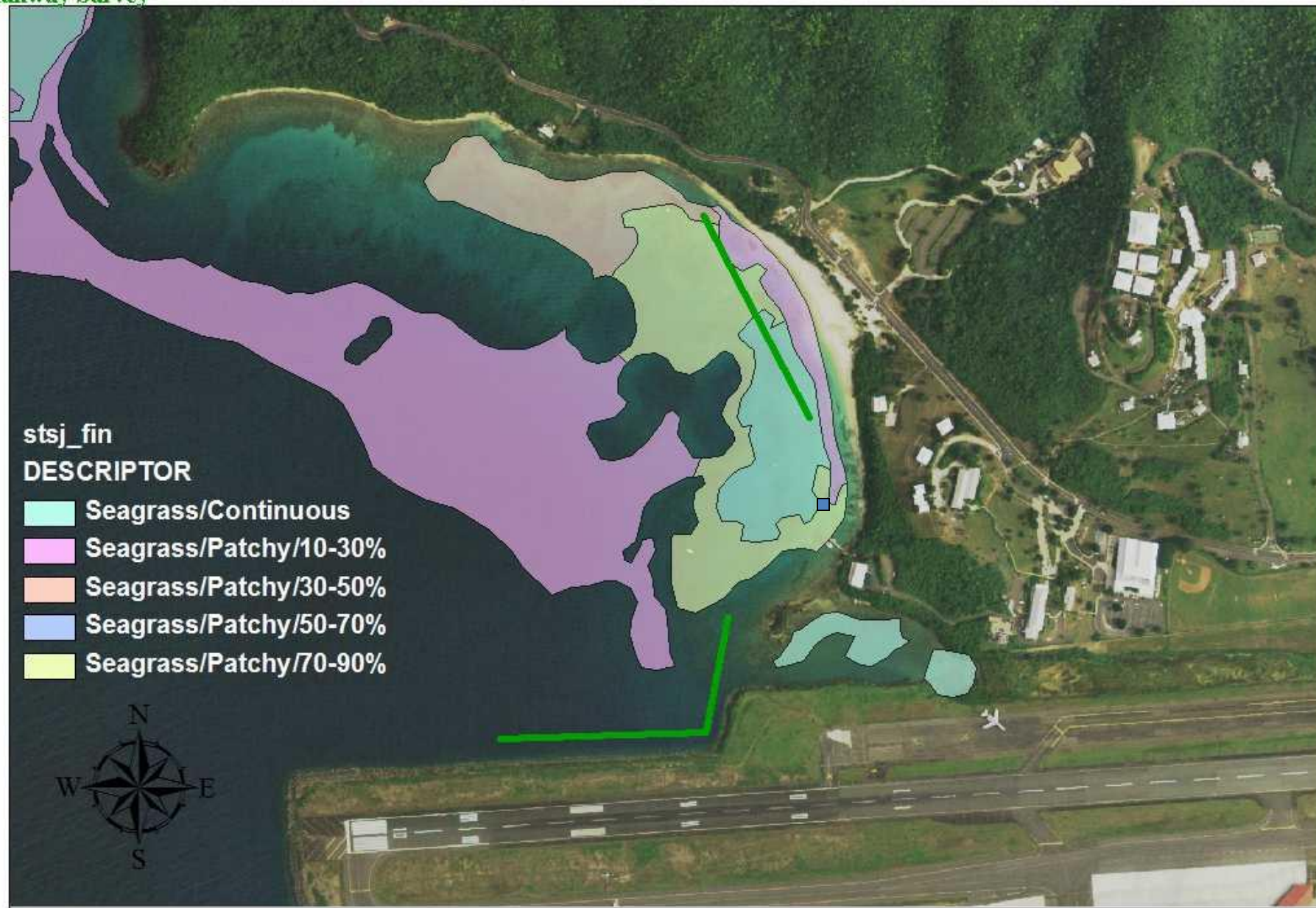


In Water Sea Turtle Capture Tag & Release



VIRGIN
ISLANDS
Epsco[®]



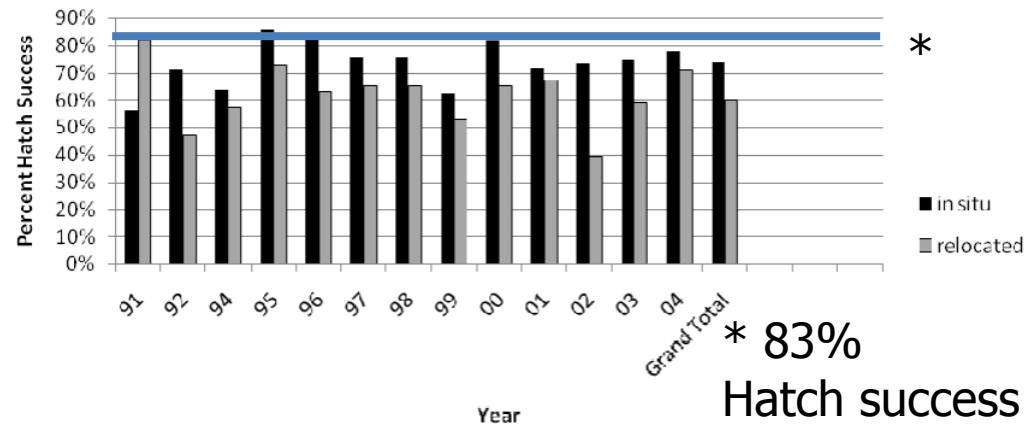
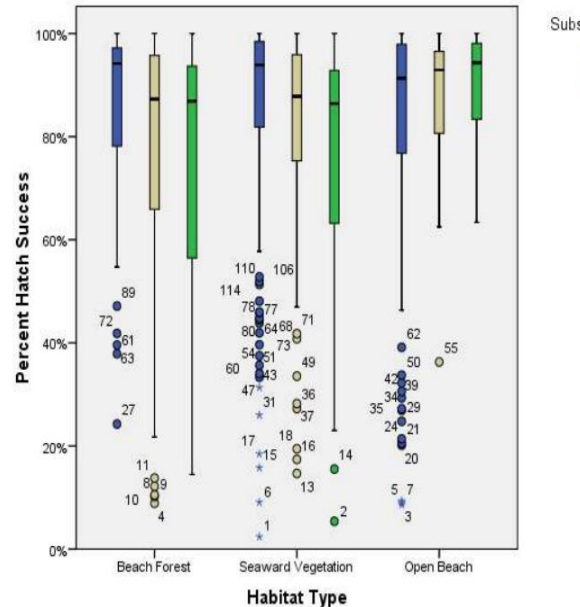


0 125 250 500 750 1,000 Meters

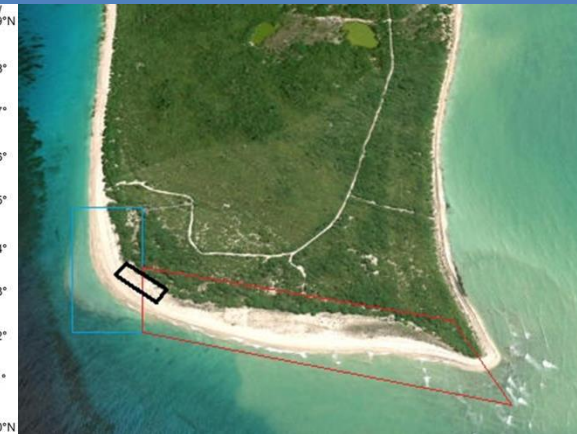
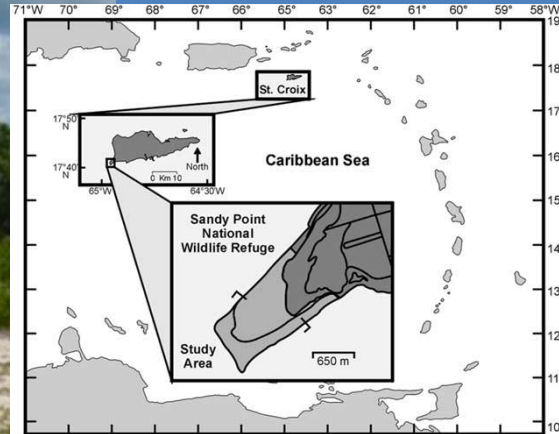
Relation of abiotic conditions to hatch success for relocated hawksbill sea turtle, *Eretmochelys imbricata*, nests at Buck Island, St Croix, US Virgin Islands



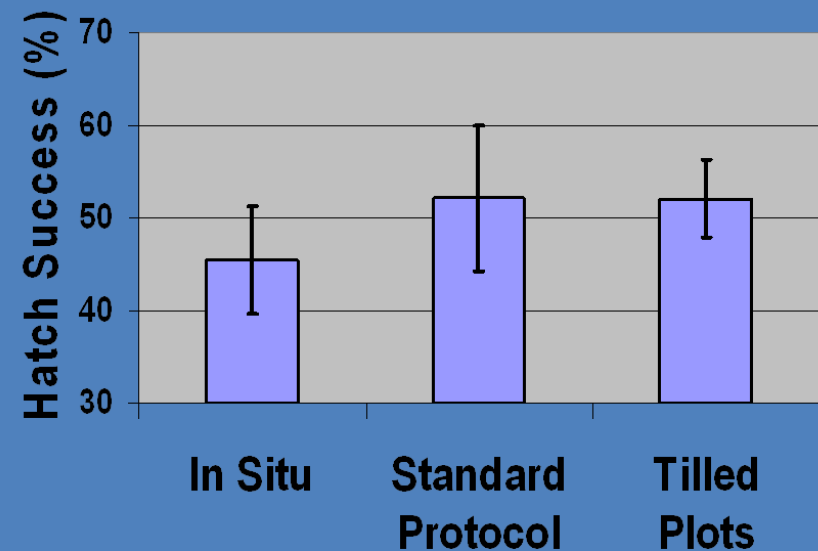
by Ian Lundgren UVI MMES Graduate



Relocation of Leatherback, *Dermochelys coriacea*, nests above
the backshore beach at Sandy Point Natural Wildlife Reserve
Clayton Pollock and Claudia Lombard (USFWS)

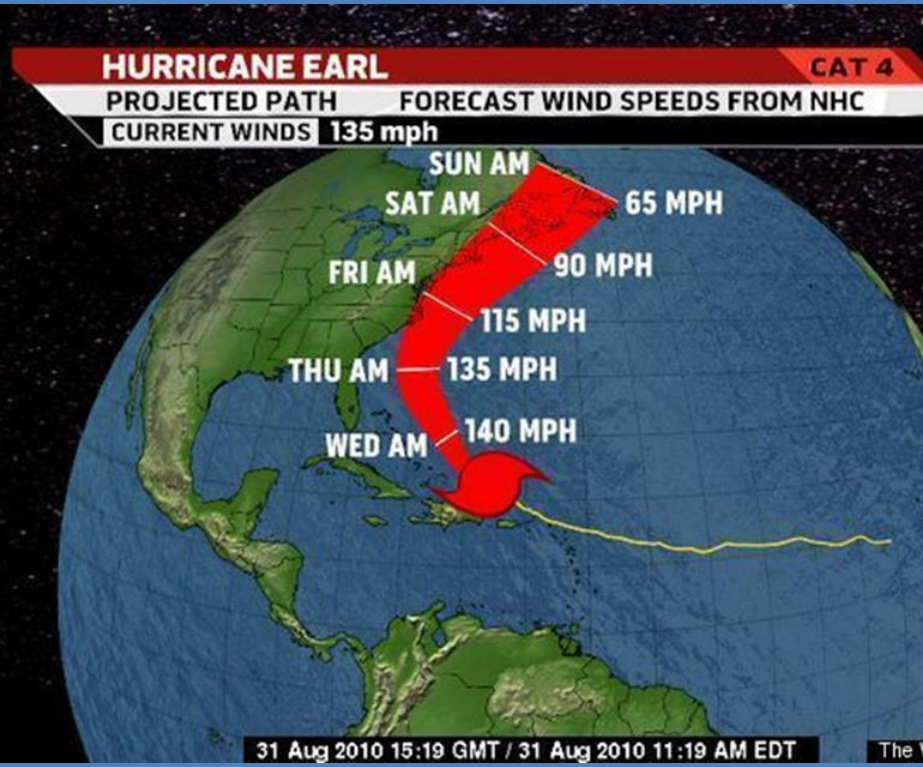
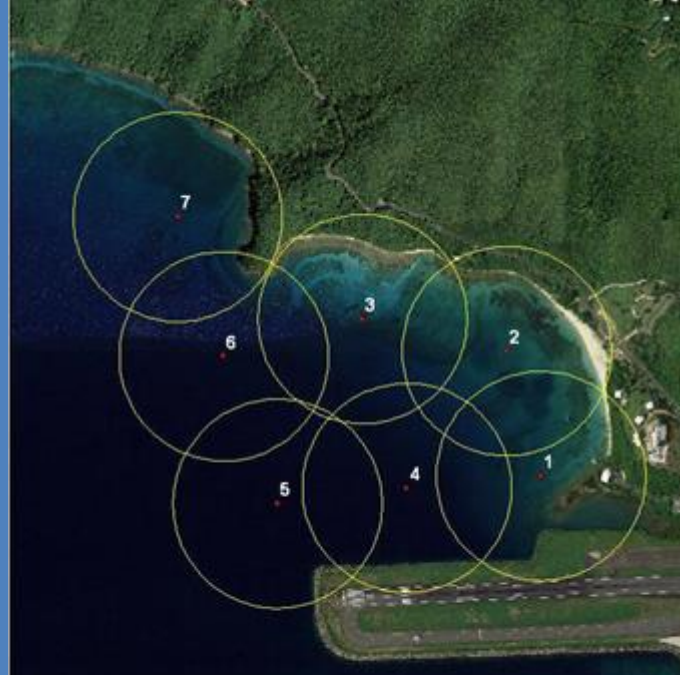


2010 Leatherback SPNWR



In Water Tracking of Green and Hawksbill Sea Turtles

Clayton Pollock (MMES student),
Scott Eanes (MMES student)



John Brewer's Bay, St. Thomas USVI 2010

0 0.05 0.1 0.2 Miles



Relative Abundance and Distribution of Sea Turtles at Buck Island Reef National Monument, St. Croix, USVI



Clayton G. Pollock

Thesis Presentation for MMES
April 2013

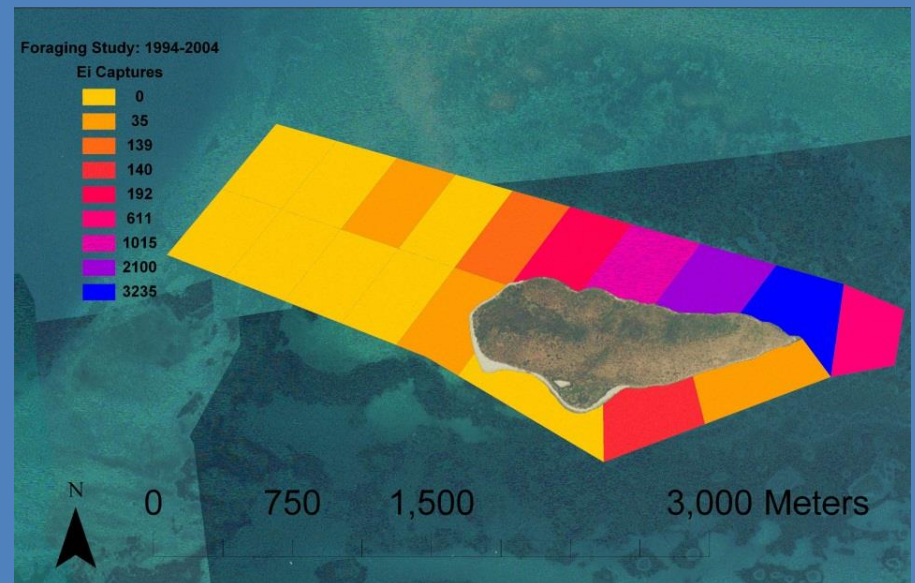
Kristen Hart, Robert Van Dam, Paul Jobsis



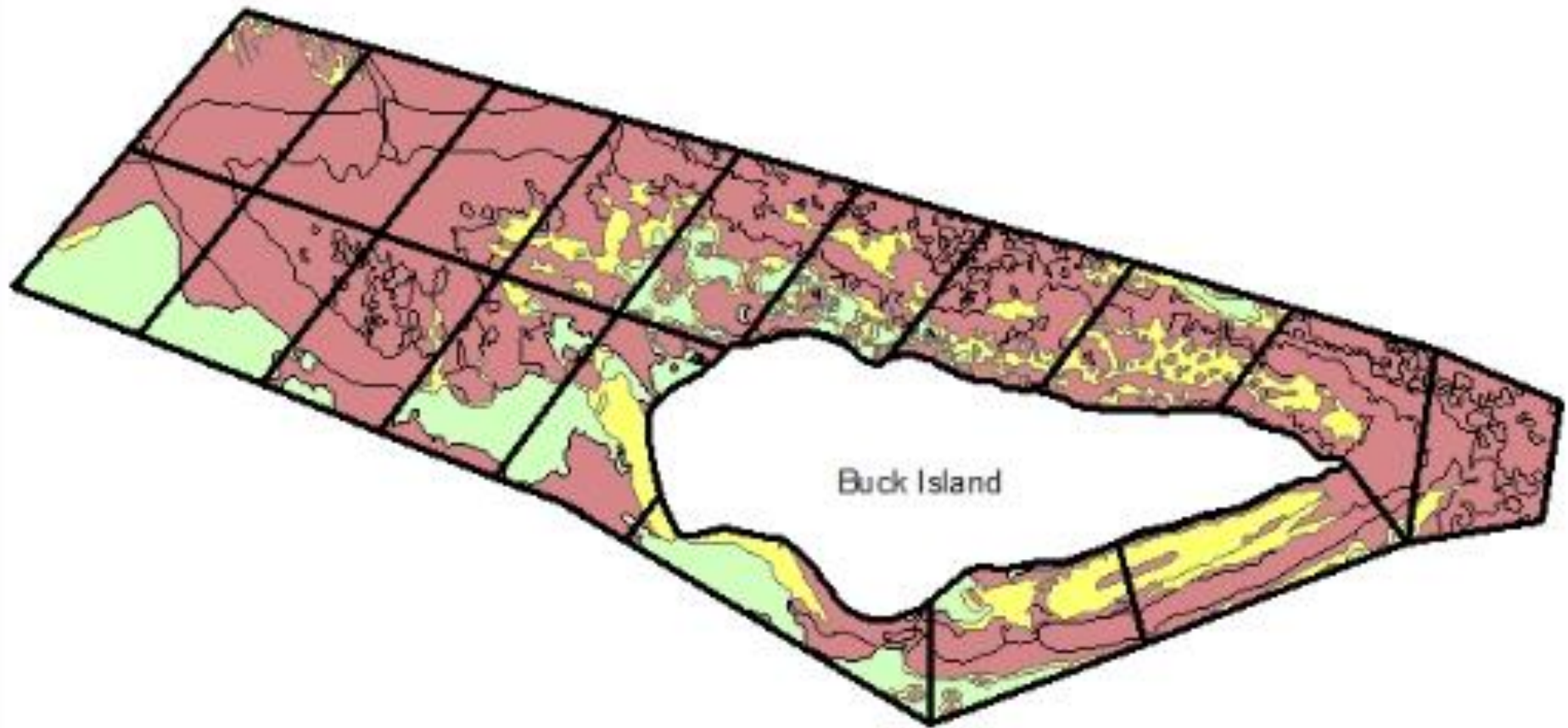
Lana Vento Charitable Trust

Previous In-water Sea Turtle Research at BIRNM – 1994-2004

- Juvenile Hawksbills feed primarily on zoanthids (Mayor 1998), while adults and subadults feed on sponges
- Hawksbill distribution is related to zoanthid cover (Pemberton 2000).



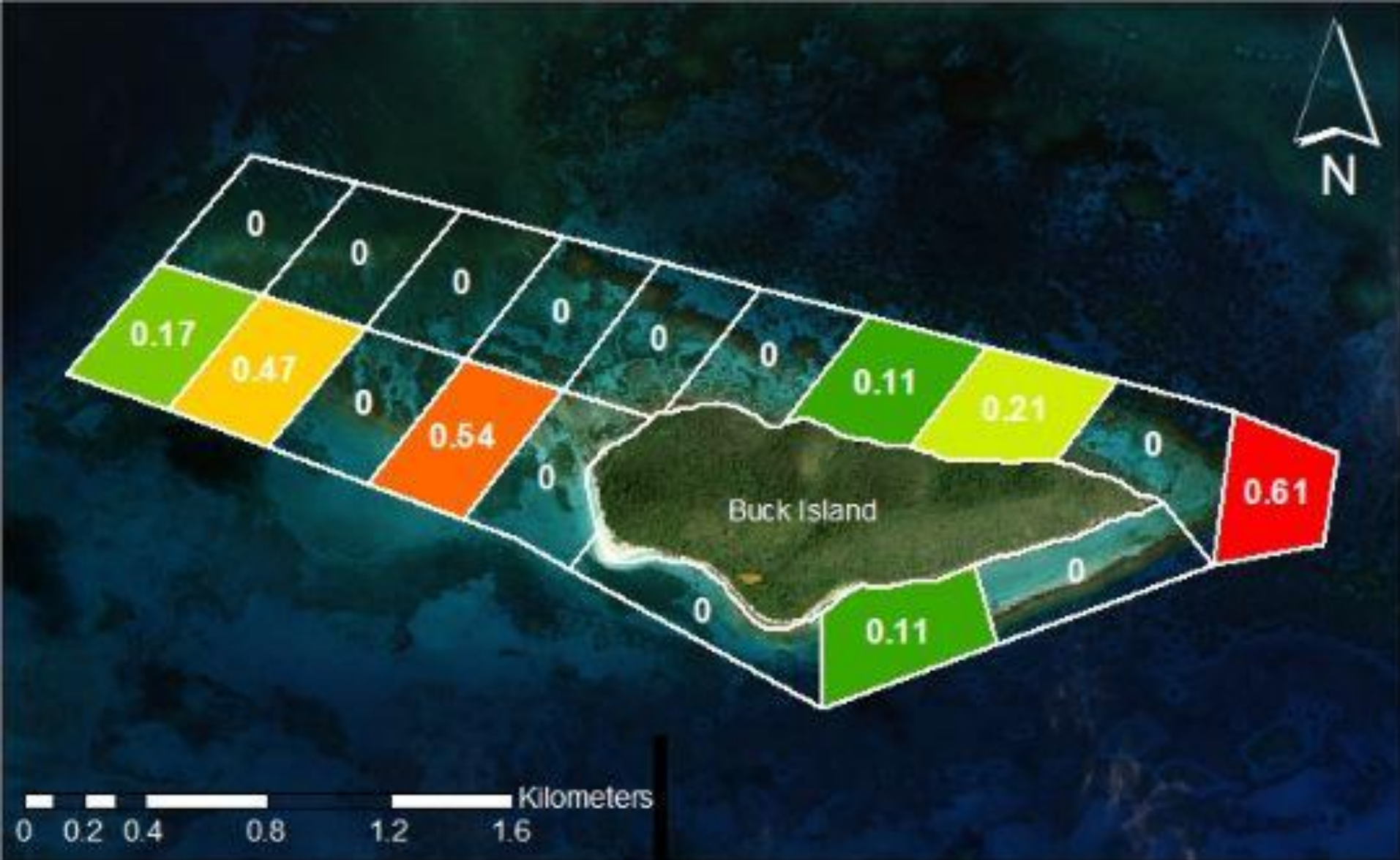
BIRNM Benthic Habitat Map



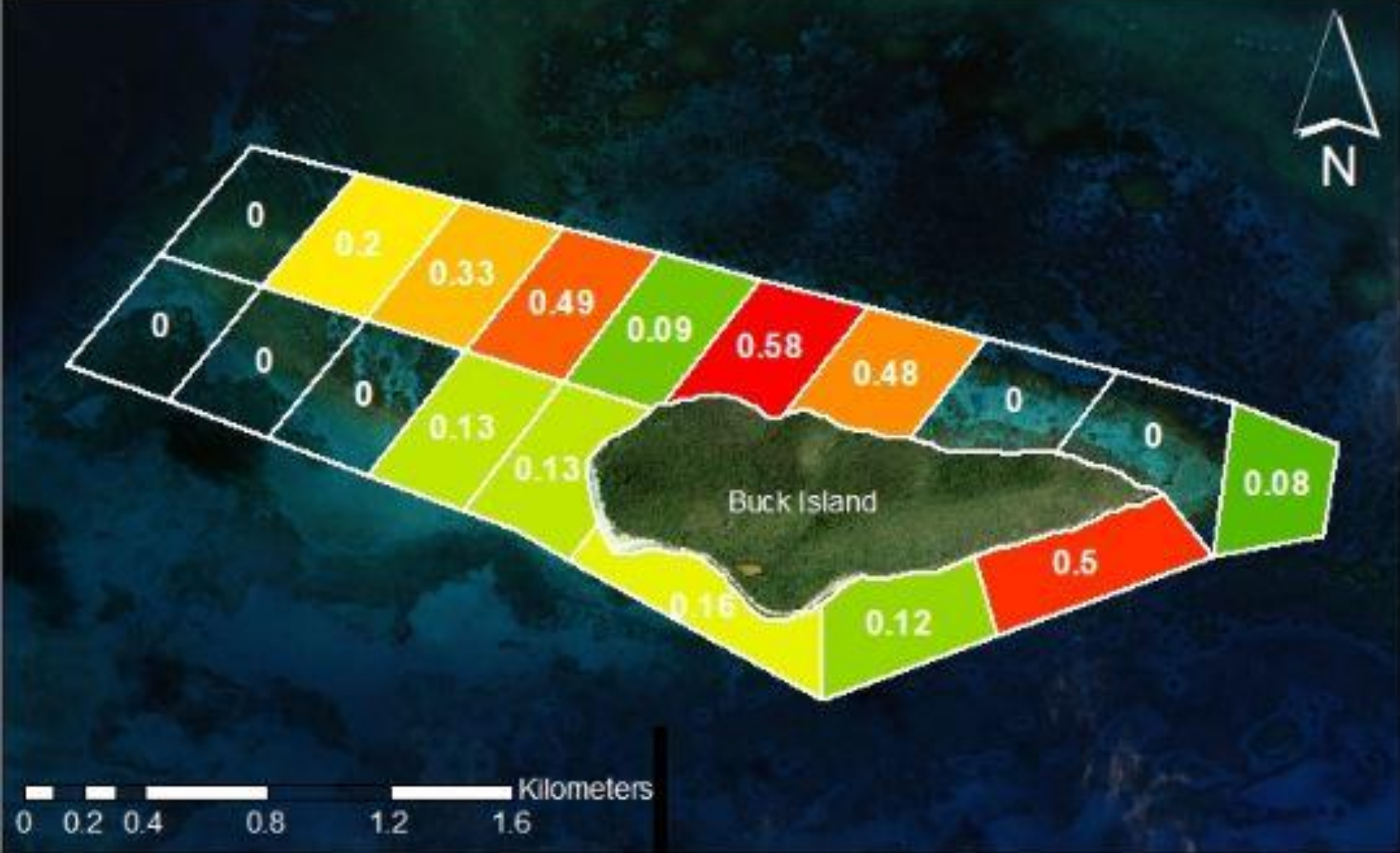
Buck Island

- Unconsolidated Sediments and Uncolonized Hardbottom
- Colonized Hardbottom and Coral Reef
- Submerged Vegetation

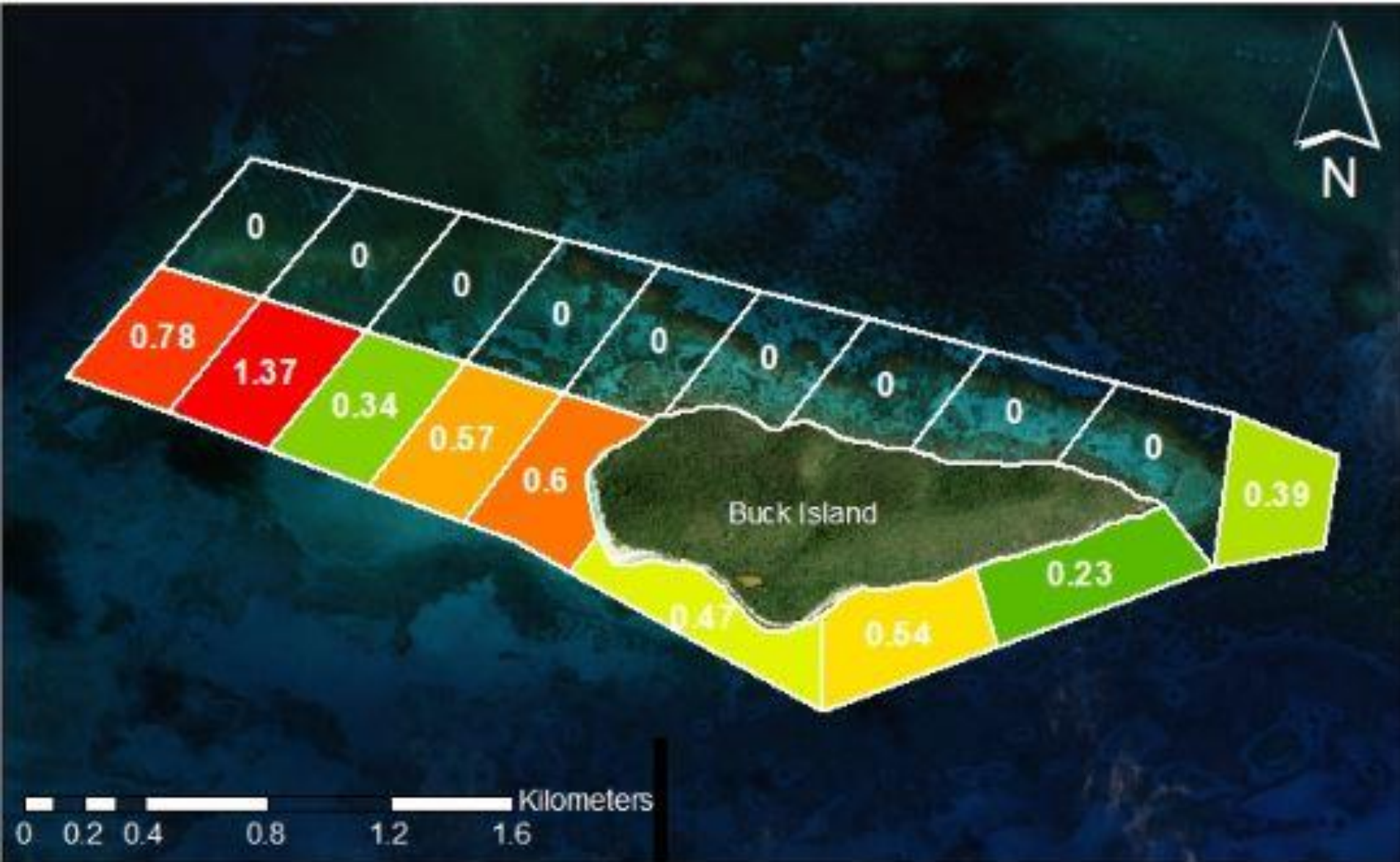
0 0.15 0.3 0.6 0.9 1.2 Kilometers



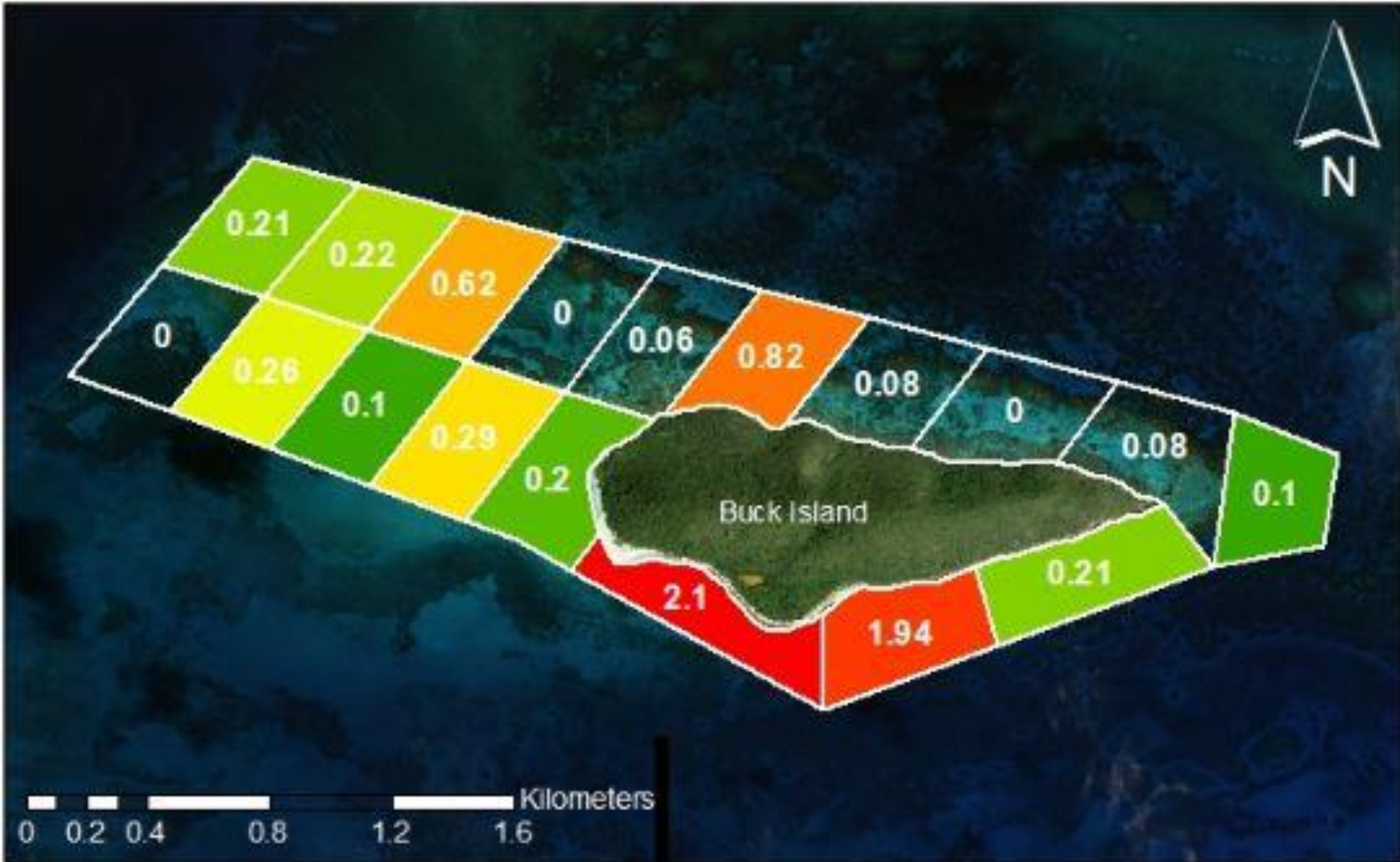
Adult hawksbill turtle Catch Per Unit Effort (CPUE) per survey block during surveys conducted in 2012.



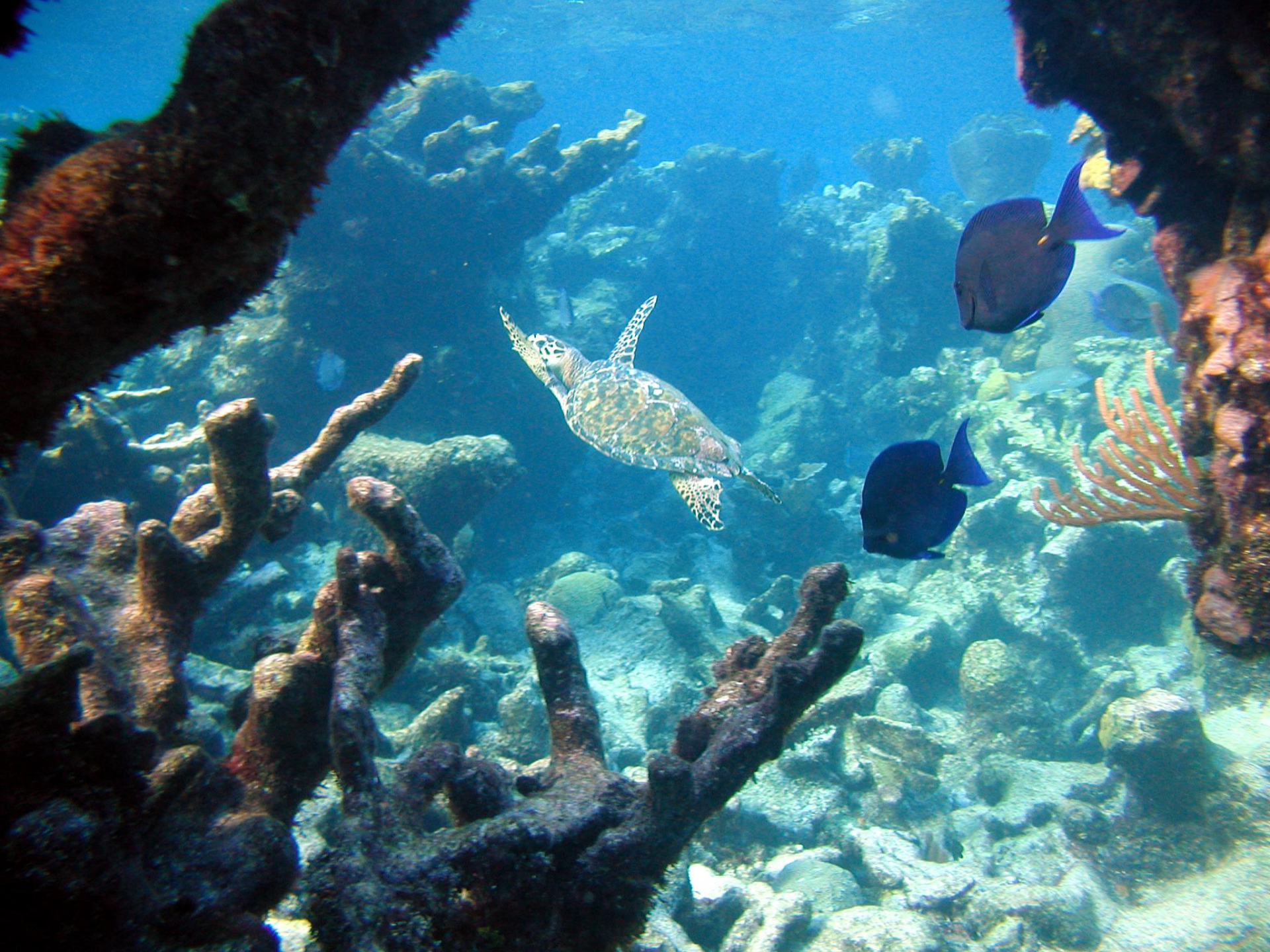
Juvenile and Sub-Adult hawksbill turtle CPUE per survey block during surveys conducted in 2012.



Adult green turtle CPUE per survey block during surveys conducted in 2012. In this chloropleth warmer colors (red) represent increased CPUE and cooler colors (green) represent lower CPUE.

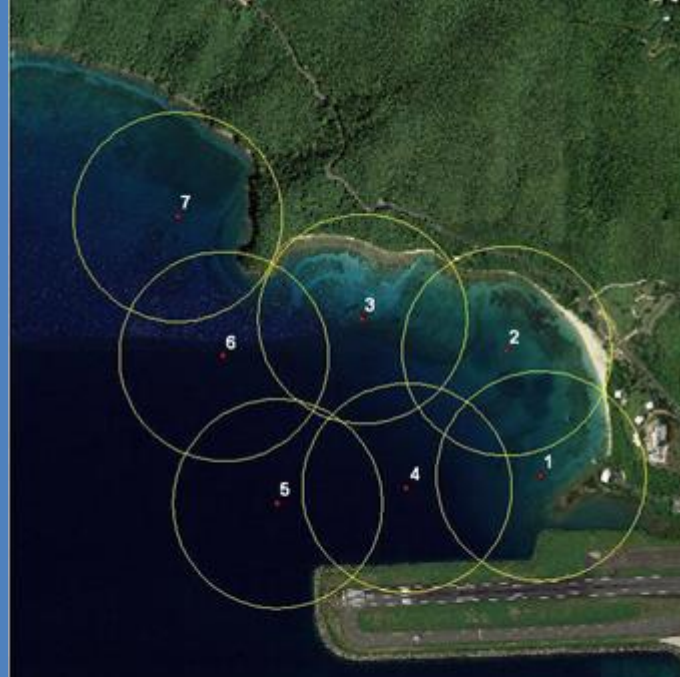


Juvenile green turtle CPUE per survey block during surveys conducted in 2012.



In Water Tracking of Green and Hawksbill Sea Turtles

UVI Masters of Marine and
Environmental Science students:
Scott Eanes
Sam Mitchell
Kari Gehrke



**Mare Nostrum Caribbean
Ecosystem Study of Brewers Bay
St. Thomas, USVI**



0 100 200 m



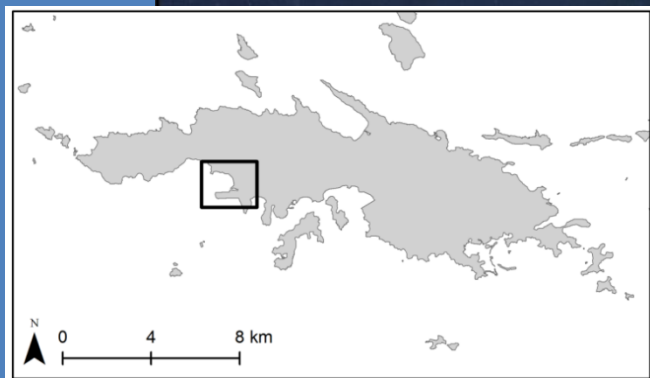
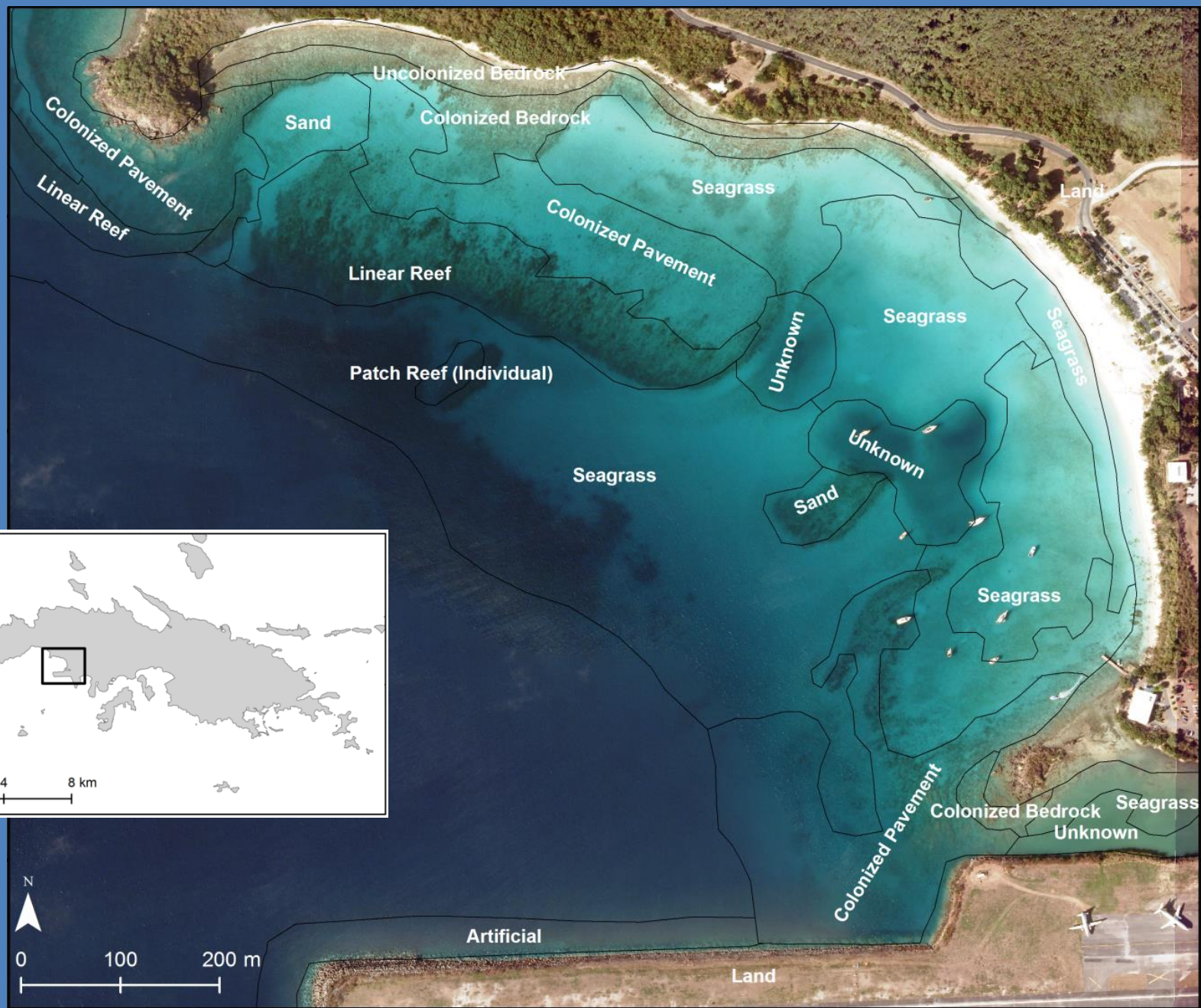
Seagrasses in the USVI

Four species of seagrass
found in Brewer's Bay

- *Thalassia testudinum*
- *Syringodium filiforme*
- *Halodule wrightii*
- *Halophila stipulacea*



Sam Mitchell –
UVI Masters student



Dr. Rick Nemeth

Masters Students
Scott Eanes _VISTP
Kari Gehrke

Haley Goodson



Acoustic tracking of mobile marine animals

