

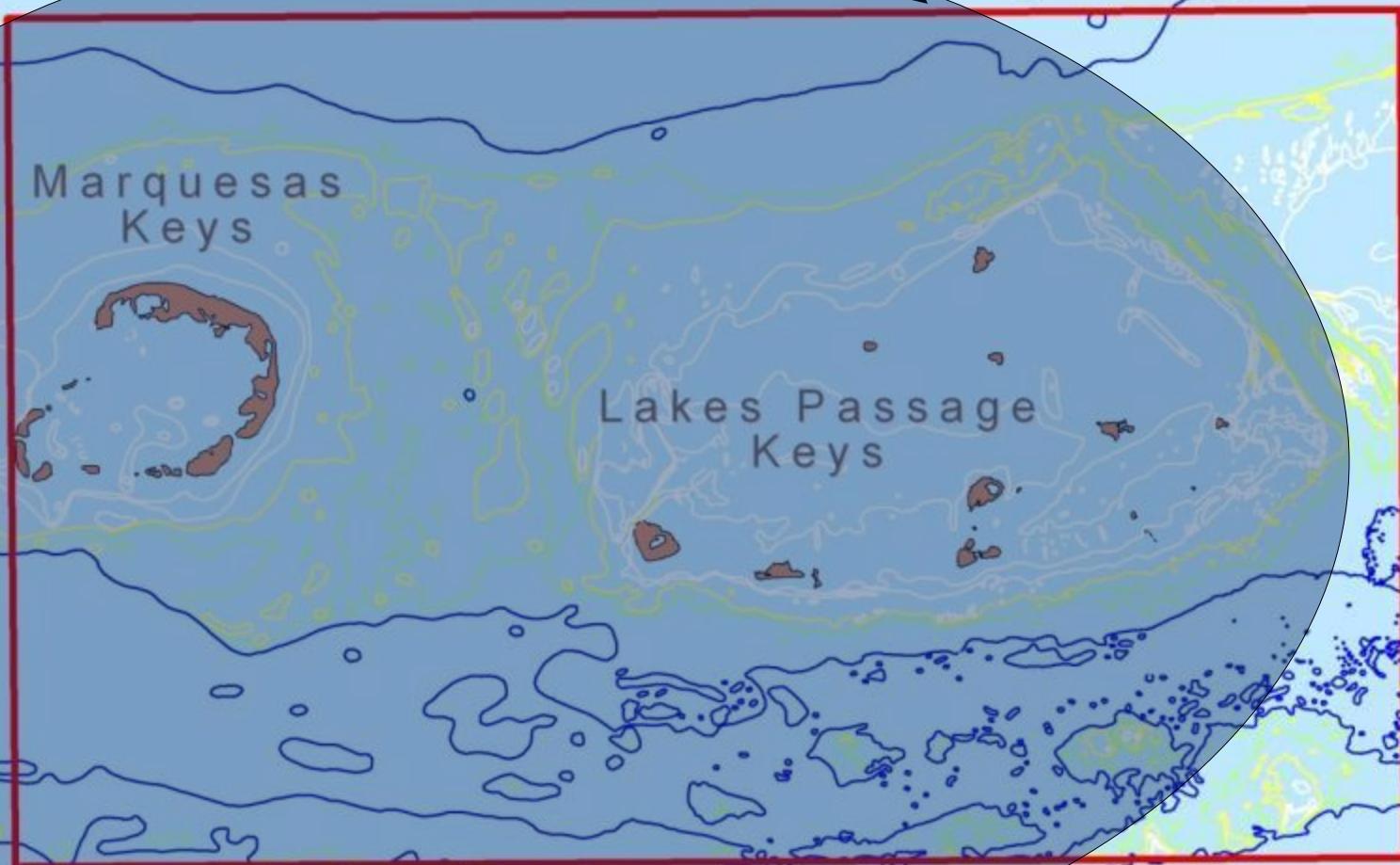
INWATER RESEARCH GROUP



Our mission is to provide the scientific community and general public with information to promote conservation of coastal and marine species and their habitats.



Refuge Boundary
502 km²



0 2 4 8 12 Kilometers

Visual Transect Counts of Sea Turtles



Rodeo Captures



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All Sightings and Captures of Sea Turtles 2002 – 2011 (147 sample days, 2681 km transects)

<u>Species</u>	<u>Sightings</u>	<u>Captures</u>
<i>Chelonia mydas</i> (green turtle)	2572	223
<i>Caretta caretta</i> (loggerheads)	1465	442
<i>Eretmochelys imbricata</i> (hawksbills)	201	88
Totals	4238	753

Central Region

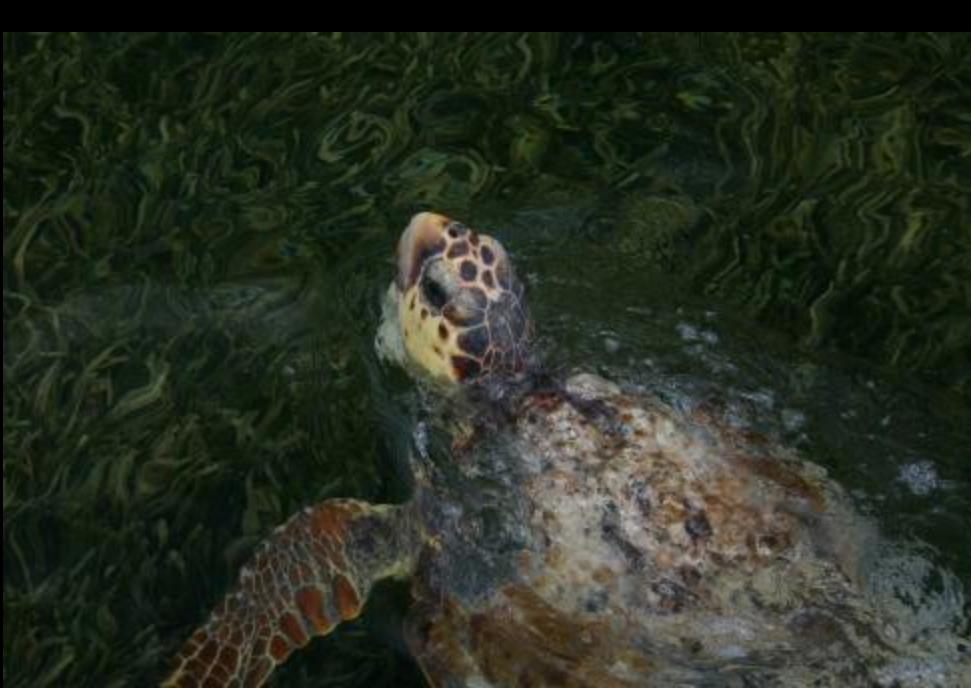
Lakes Passage

Archer

Baracouta

Woman

Man



1213 km of Visual Transects

761 turtles sighted, SPUE = 0.63/km

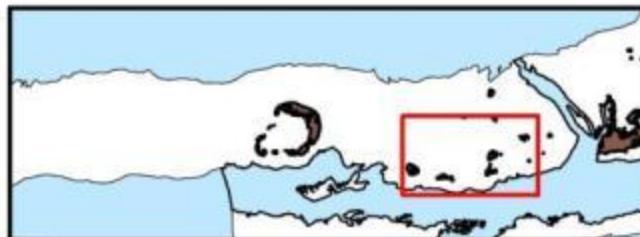
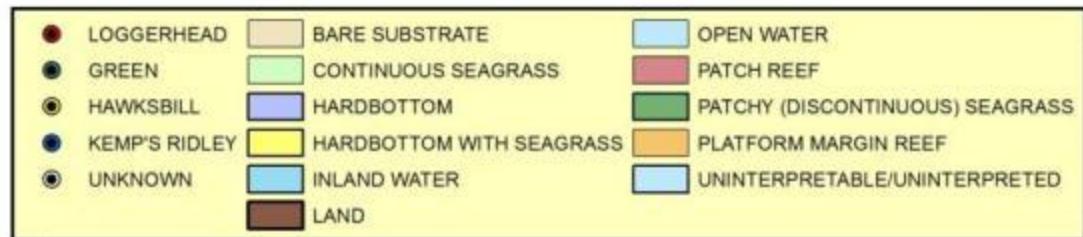
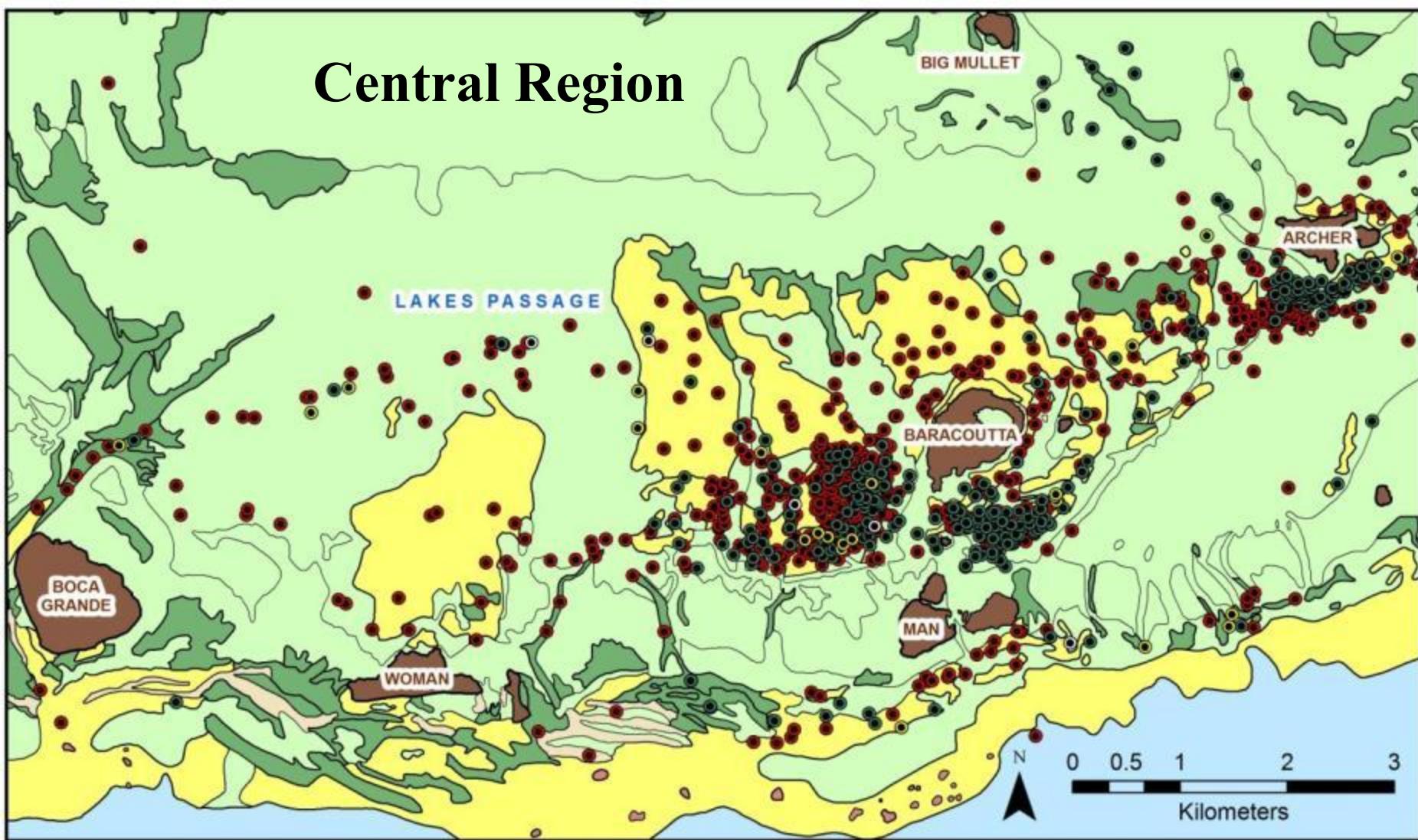
262 green turtles, SPUE = 0.22/km

482 loggerheads, SPUE = 0.40/km

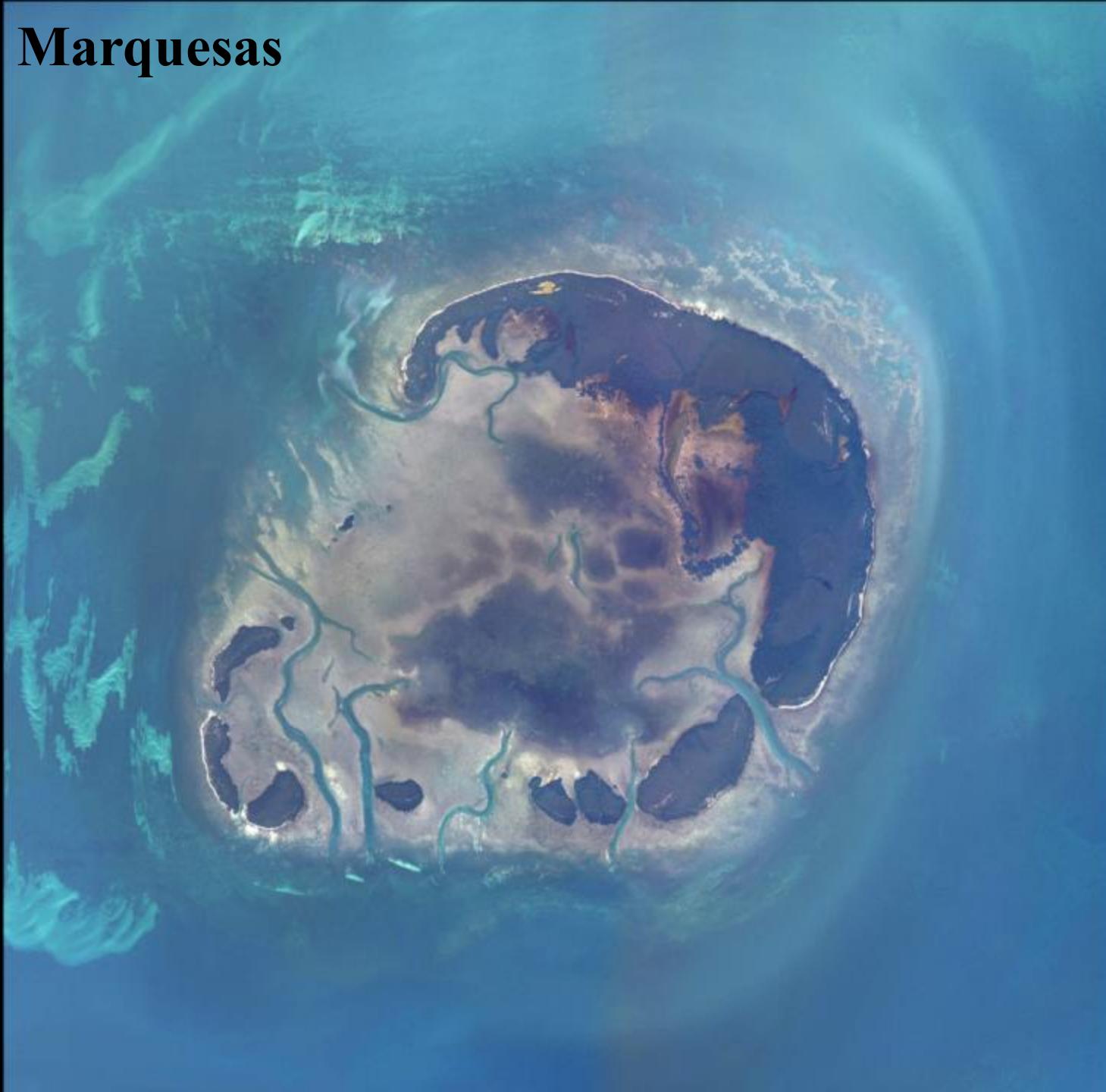
17 hawksbills, SPUE = .01



Central Region



Marquesas





483 km of Visual Transects

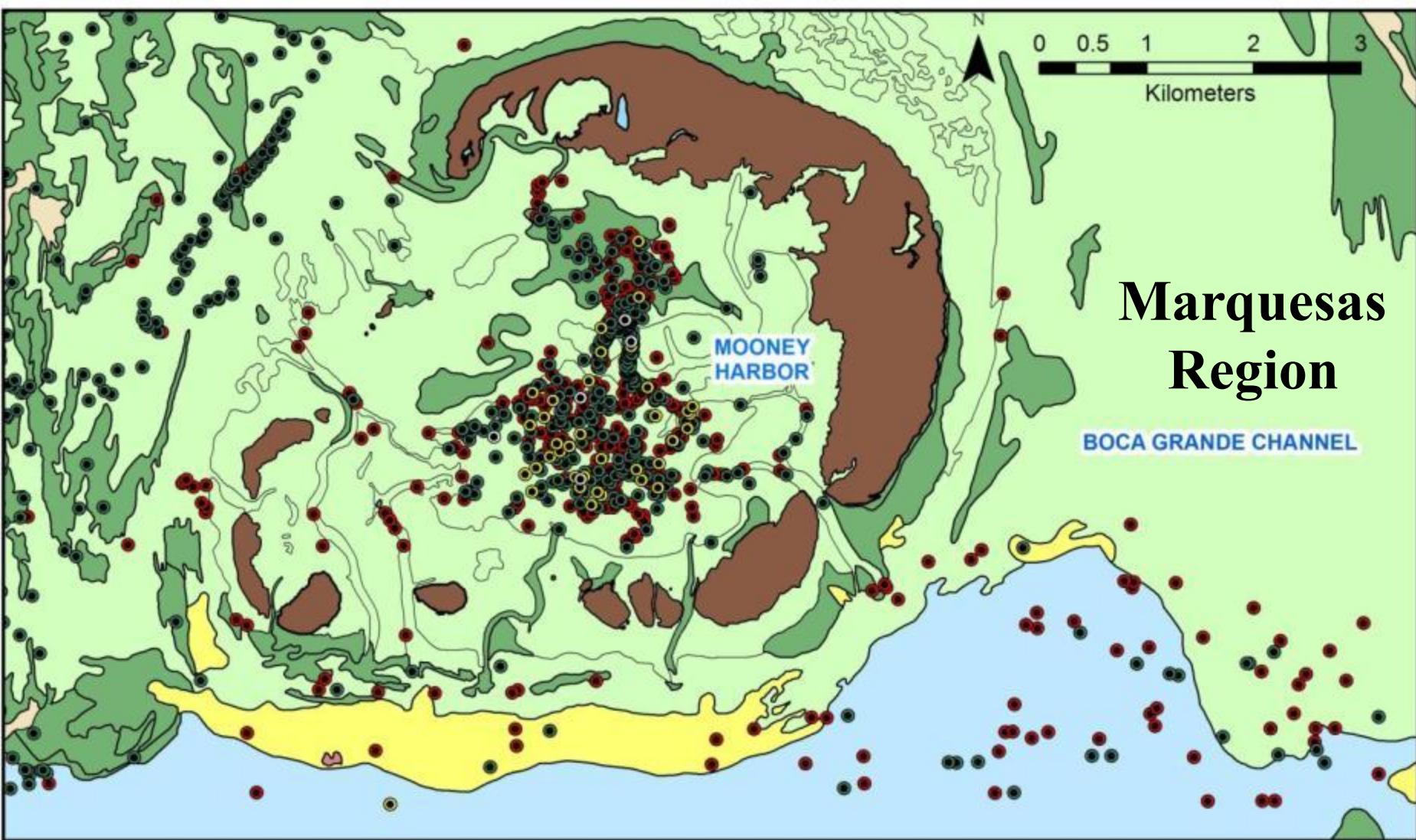
564 turtles sighted, SPUE = 1.17/km

262 green turtles, SPUE = 0.22/km

482 loggerheads, SPUE = 0.40/km

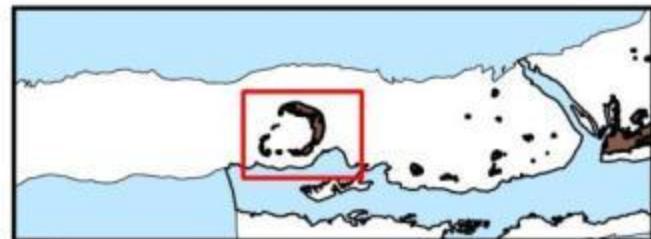
17 hawksbills, SPUE = .01





Marquesas Region

●	LOGGERHEAD	●	BARE SUBSTRATE	●	OPEN WATER
●	GREEN	●	CONTINUOUS SEAGRASS	●	PATCH REEF
●	HAWKSBILL	●	HARDBOTTOM	●	PATCHY (DISCONTINUOUS) SEAGRASS
●	KEMP'S RIDLEY	●	HARDBOTTOM WITH SEAGRASS	●	PLATFORM MARGIN REEF
●	UNKNOWN	●	INLAND WATER	●	UNINTERPRETABLE/UNINTERPRETED
			■		LAND



Eastern Quicksands





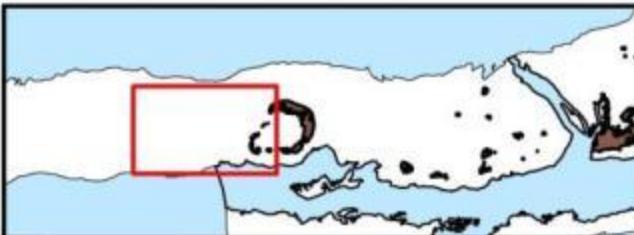
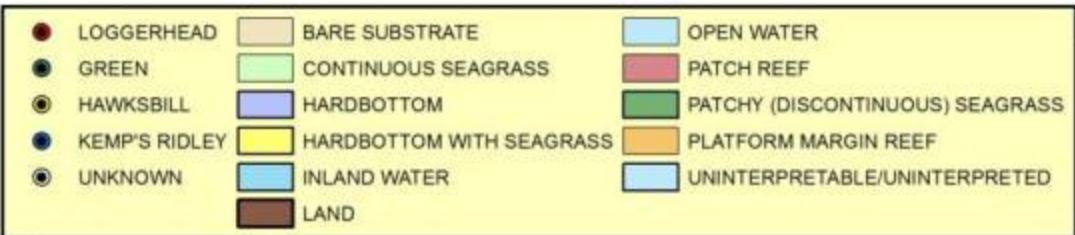
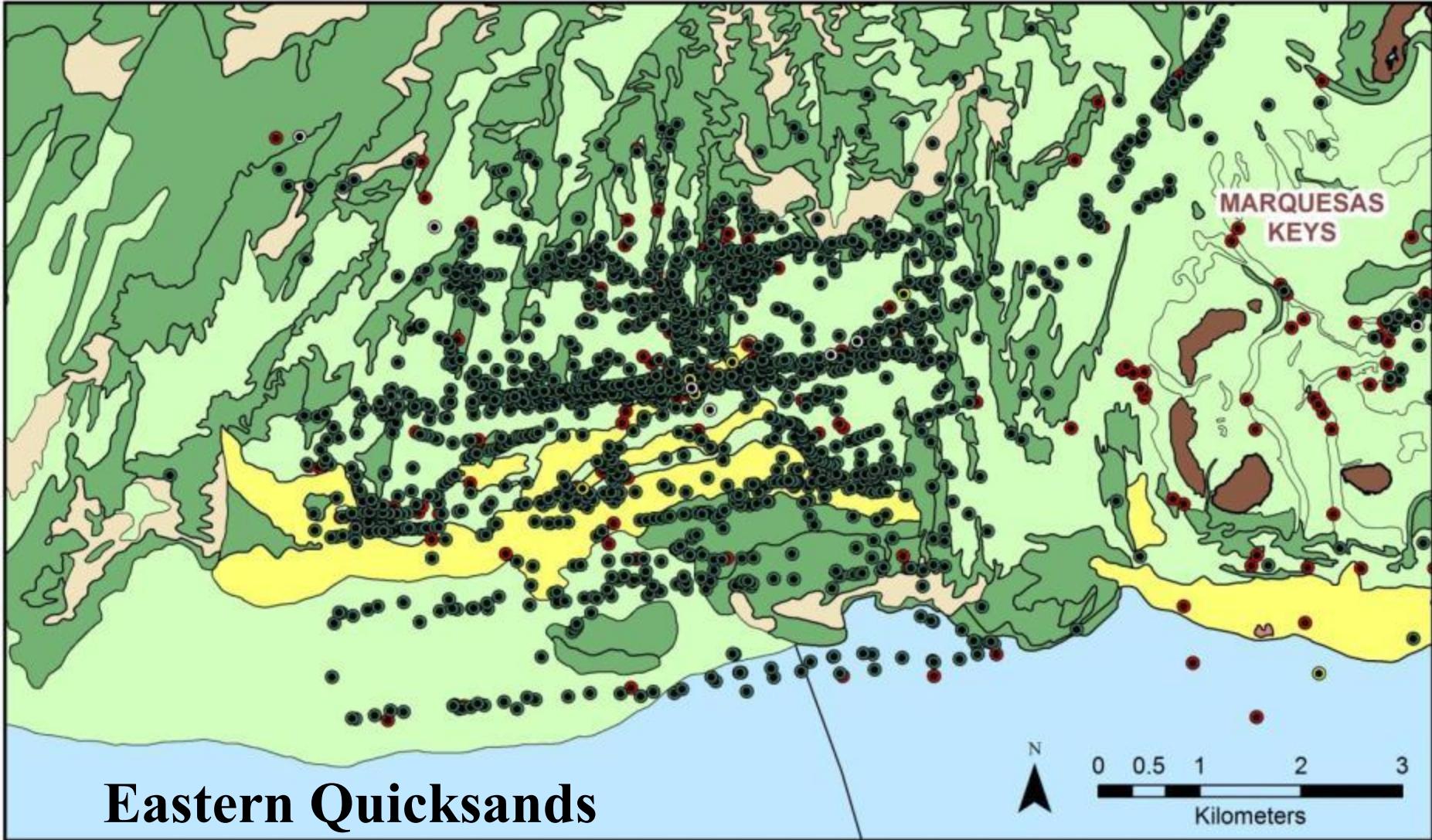
A large sea turtle is swimming in the ocean, its head and front flippers visible above the water's surface. The water is a deep blue-green color with small, white-capped waves. The turtle's shell is a mottled pattern of brown and tan.

795 km of Visual Transects
1480 turtles sighted,
SPUE = 1.86/km

1394 green turtles, SPUE = 1.75/km

82 loggerheads, SPUE = 0.10/km

4 hawksbills, SPUE = .005





Legend

PTT ID

Name

BNL

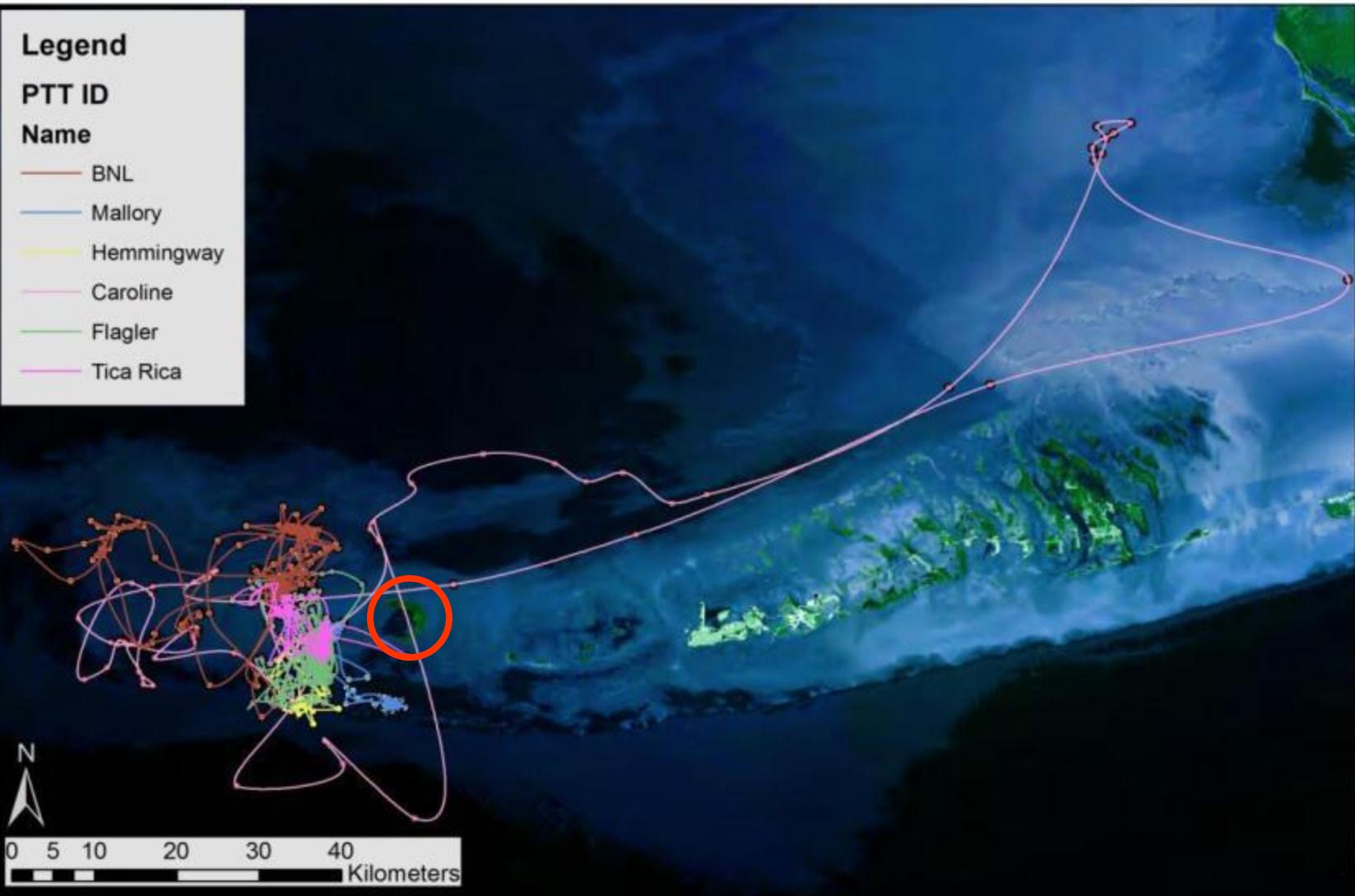
Mallory

Hemingway

Caroline

Flagler

Tica Rica



Key West National Wildlife Refuge Sea Turtle Project

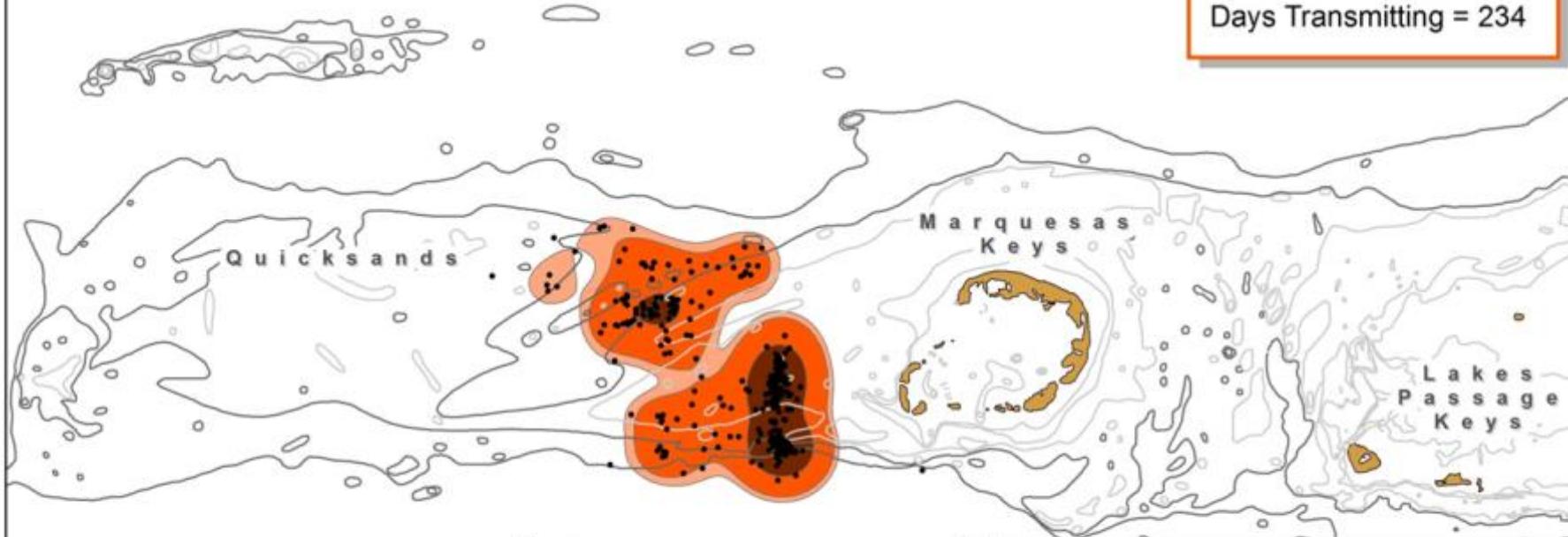
Fastloc GPS data, 5/6/2008 through 1/07/2009





Gulf of Mexico

Name = Tica Rica
 Maturity = Adult
 Sex = Female
 SCL (cm) = 101.5
 Released = 9/30/08
 Days Transmitting = 234



LEGEND

Depth (m)	50% KDE
0.9 - 5.0	90% KDE
5.1 - 10.0	95% KDE



0 4 8 12
Kilometers

Figure 7

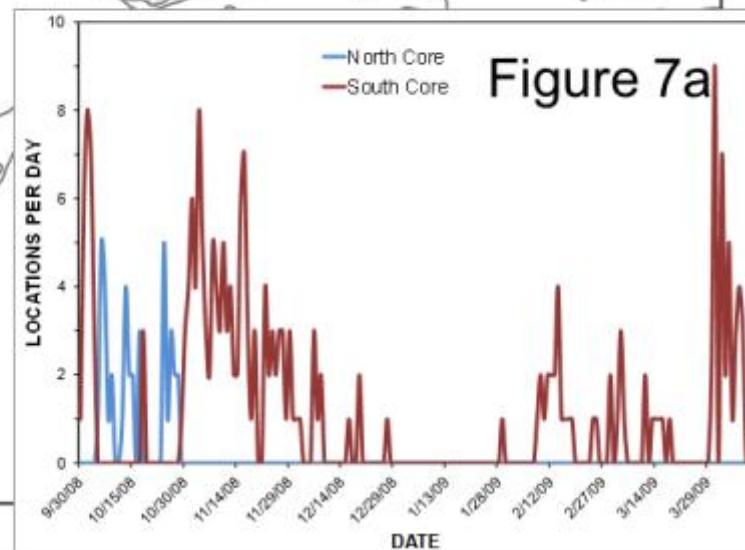
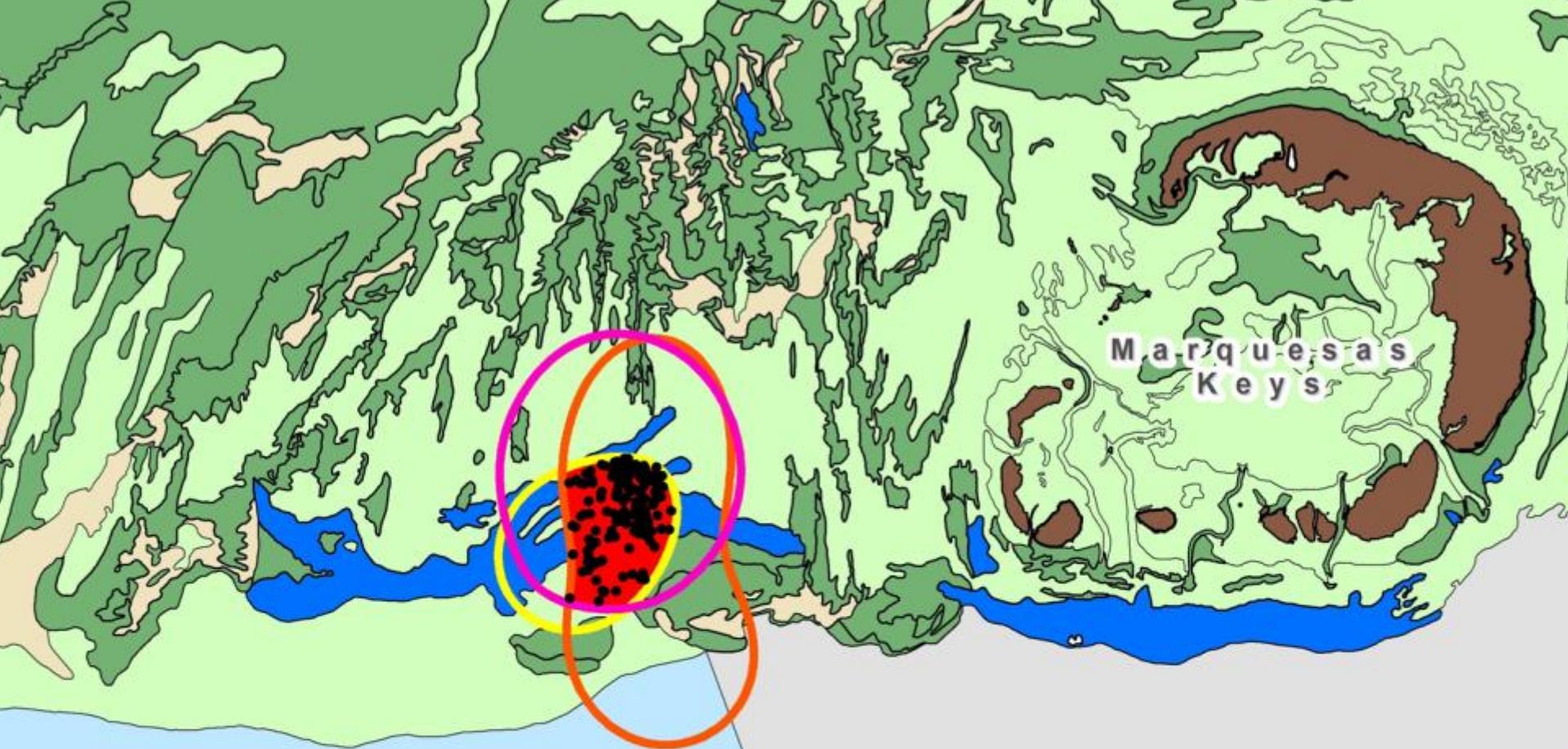


Figure 7a



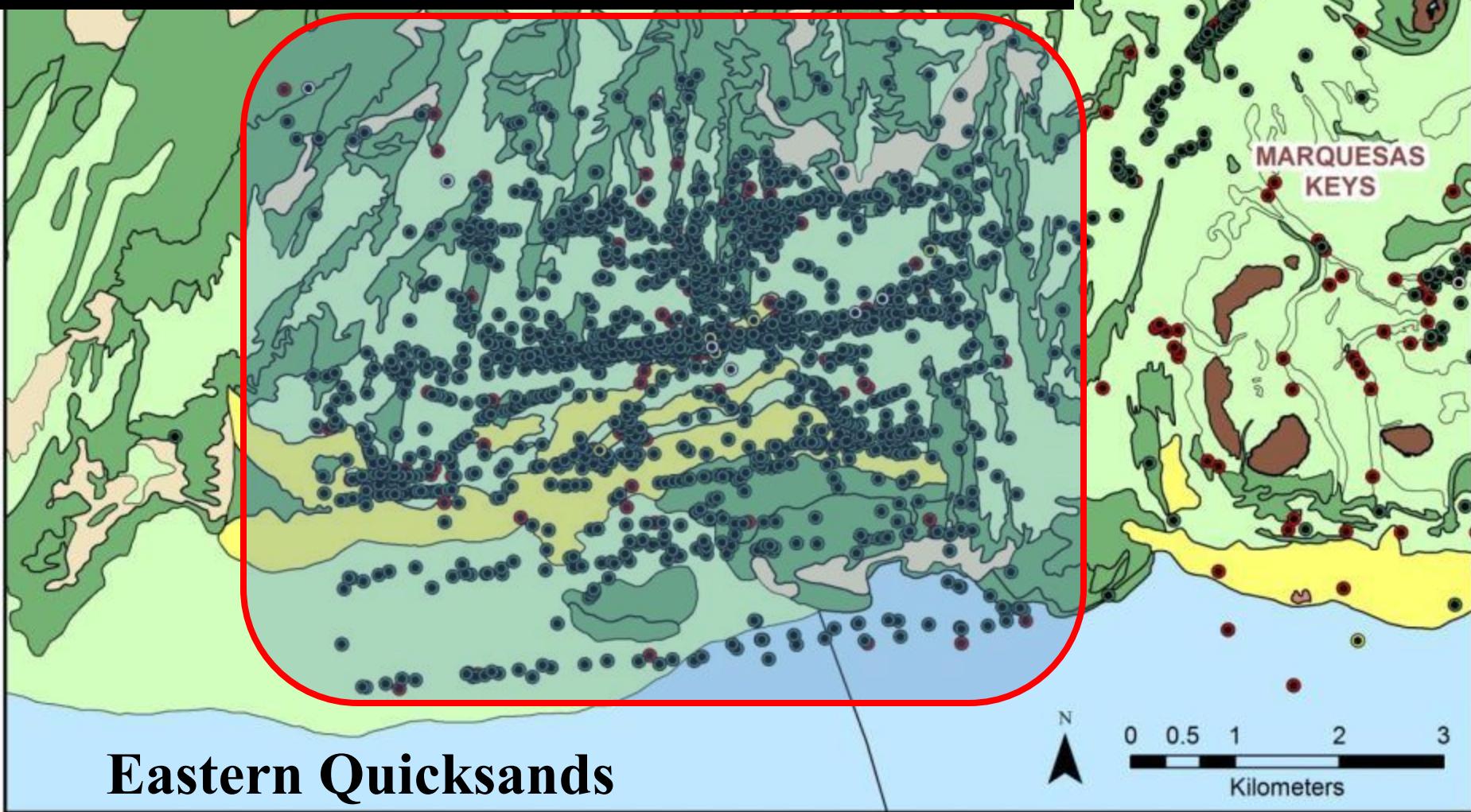
0 1 2 3
Kilometers

LEGEND

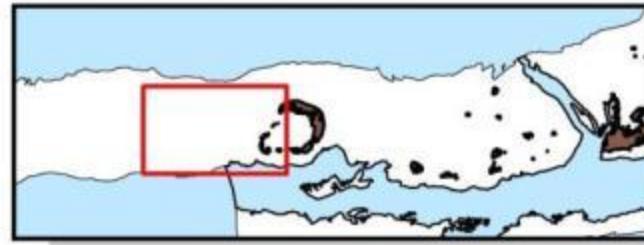
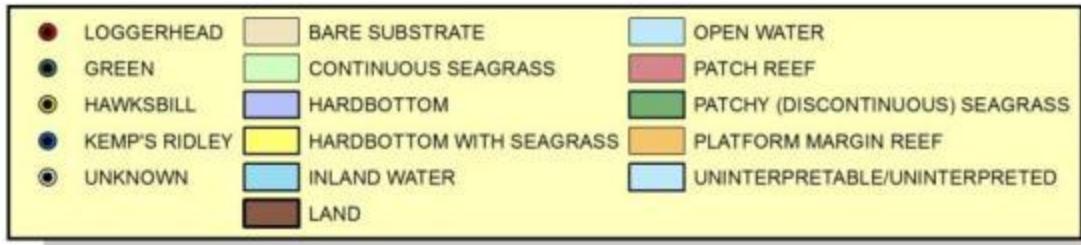
Flagler North Core	HARDBOTTOM WITH SEAGRASS
Tica Rica South Core	PATCHY SEAGRASS
Mallory North Core	CONTINUOUS SEAGRASS
Intersection	LAND
BARE SUBSTRATE	OPEN WATER
HARDBOTTOM	UNINTERPRETED



Over 1700 green turtle sightings during 44 sampling days



Eastern Quicksands





Marquesas Keys

2 Adult green turtles
Over 600 km

Adult green turtle
from Costa Rica
Over 1800 km



Image © 2007 TerraMetrics
Image © 2007 NASA

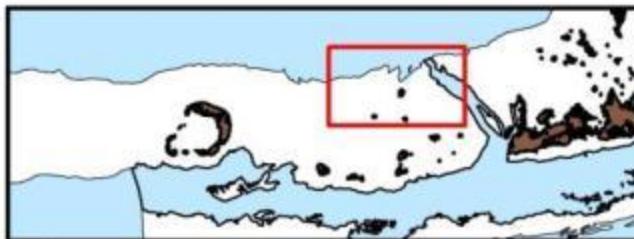
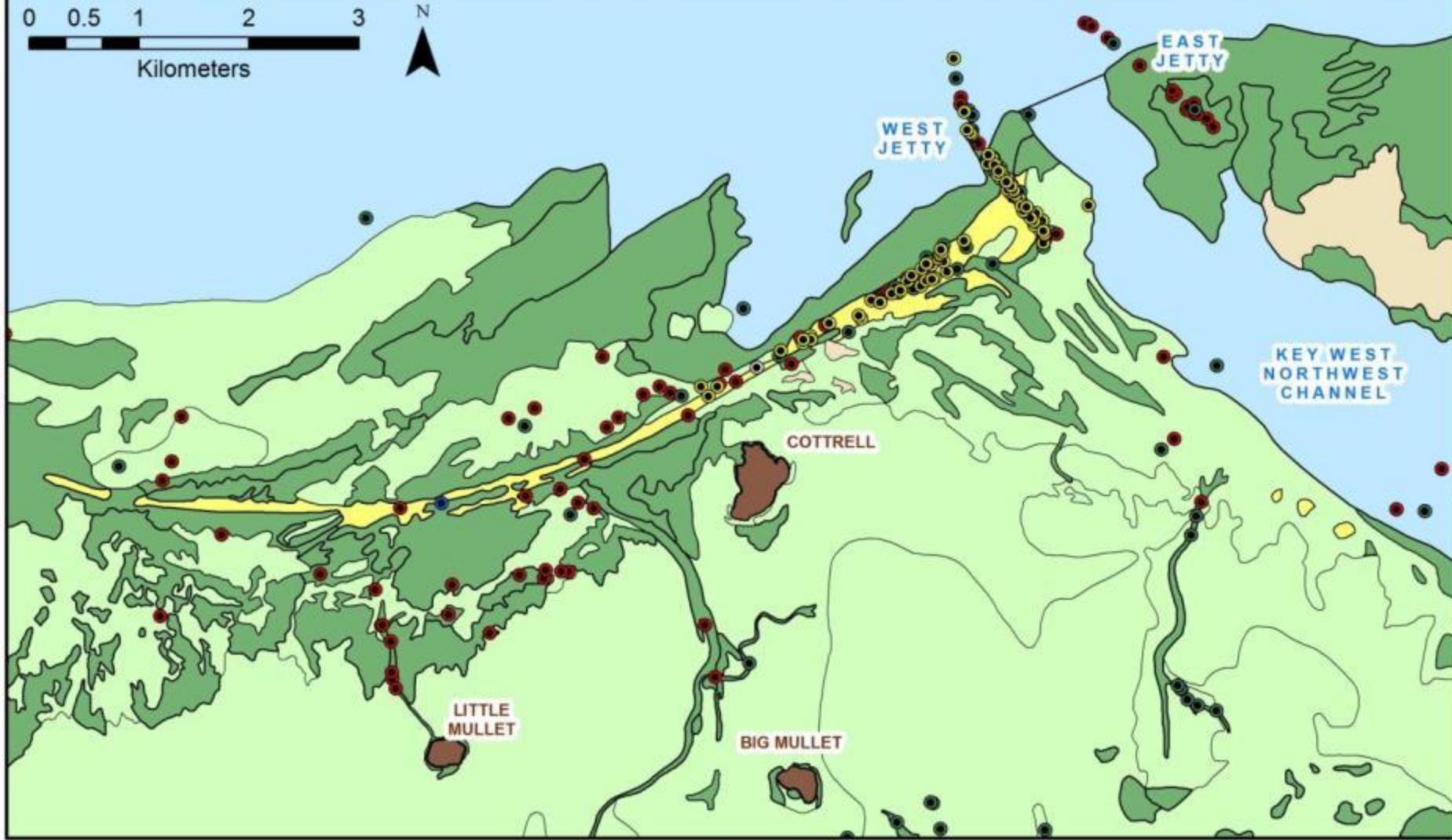
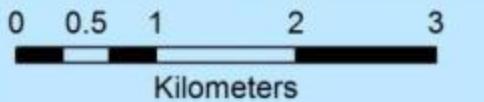
© 2005 Google

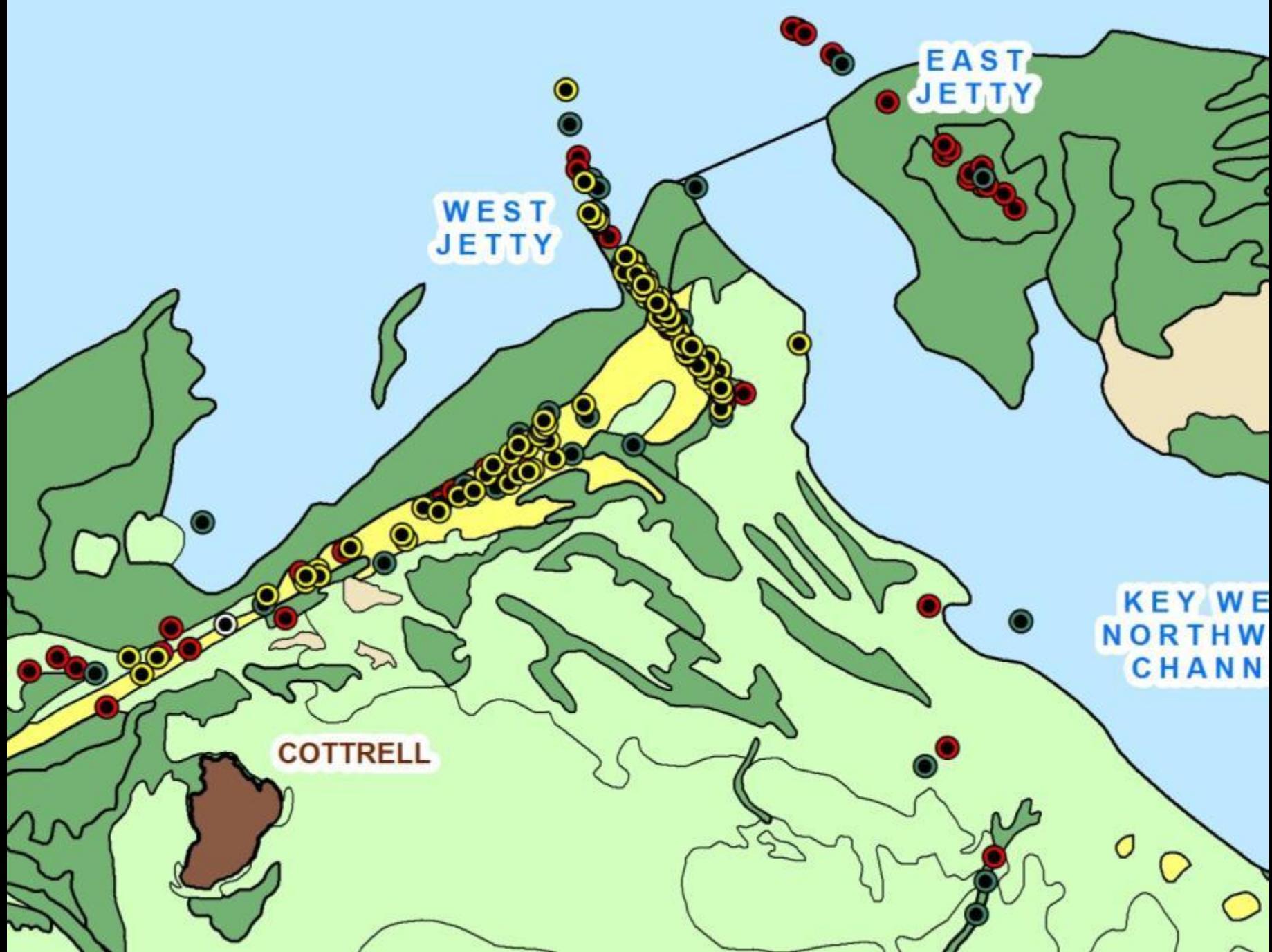
North Region

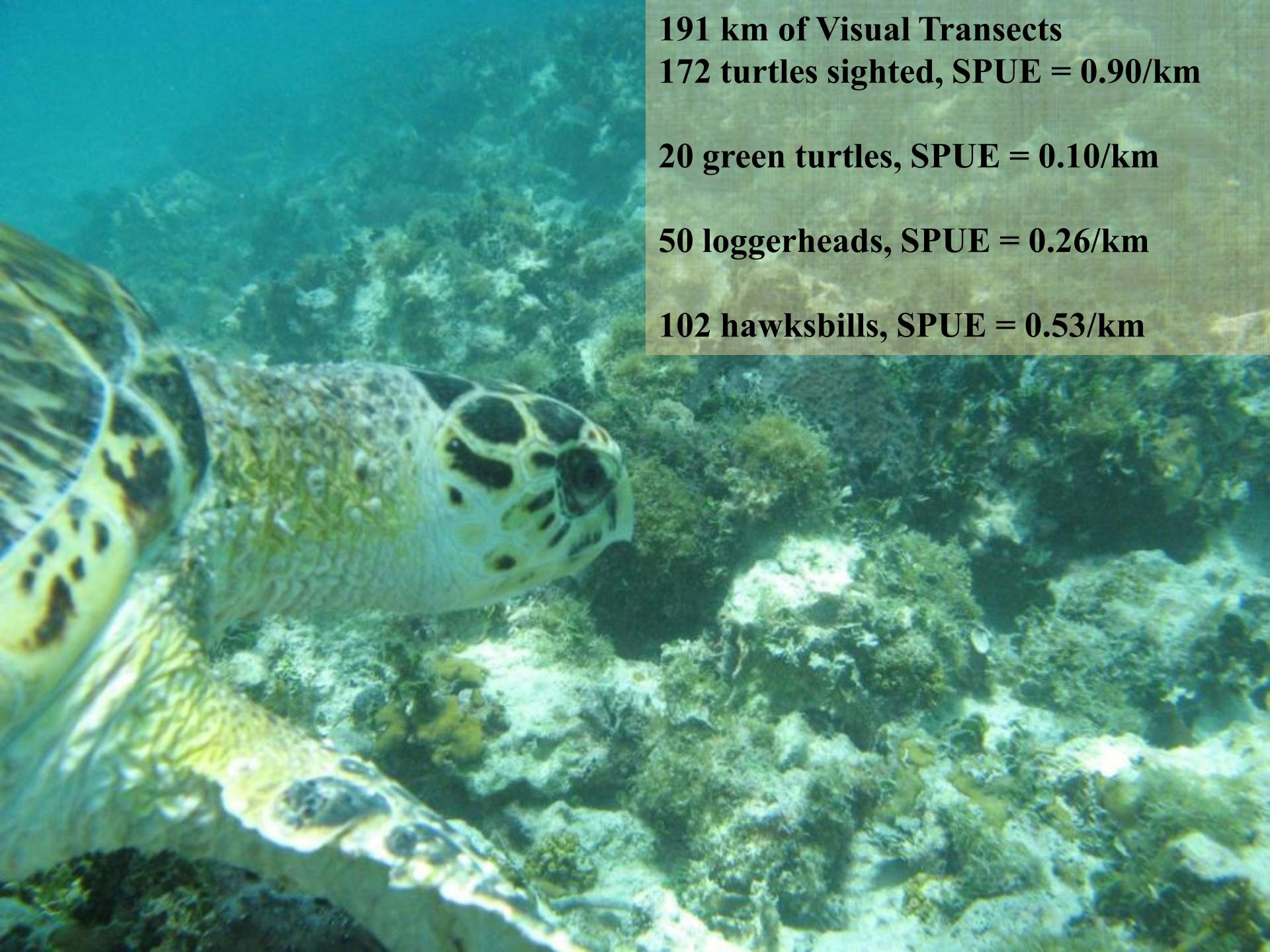


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A close-up, underwater photograph of a sea turtle, likely a green turtle, swimming over a coral reef. The turtle's head and front flipper are visible in the foreground, showing its patterned skin. The background consists of a dense, greenish-blue coral reef. In the top right corner of the image, there is a white rectangular box containing text.

191 km of Visual Transects
172 turtles sighted, SPUE = 0.90/km

20 green turtles, SPUE = 0.10/km

50 loggerheads, SPUE = 0.26/km

102 hawksbills, SPUE = 0.53/km

Threats to Sea Turtles in the FKNMS

Trap Lines (active and derelict)

Boat Strikes

Habitat Loss







Central Region

Lakes Passage

Archer

Baracouta

Woman

Man





SEA TURTLE
RESEARCH





2002 – 2007

231 km of transects

14 hawksbills sighted

SPUE = 0.06

2008 – 2011

310 km of transects

1 hawksbill sighted

SPUE = 0.003

93% decrease



Questions?

