SusGren
Sustainable Grenadines Inc.

# Case Study:
# Participatory Marine Spatial Planning Experience in The Grenadines



# The development of a marine multi-use zoning plan for the Grenadine Islands

***Oct 2010 - March 2012***

**The project was facilitated by**

**SusGren, Inc. with funding/support provided by:**

SGP The GEF Small Grants Programme

NOAA CORAL REEF CONSERVATION PROGRAM

The Nature Conservancy
Protecting nature. Preserving life.™

# Reasons for Marine Planning in Grenadines







- Increasing demand for ocean/coastal space & resources
- Single sector management not meeting multiple demands
- Grenadines Islands are ‘one ecosystem’
  - Need for integrated information & regional decision making
- Preservation of livelihoods, conservation & cultural areas

# STEPS IN Marine Planning

1. Gather data and information

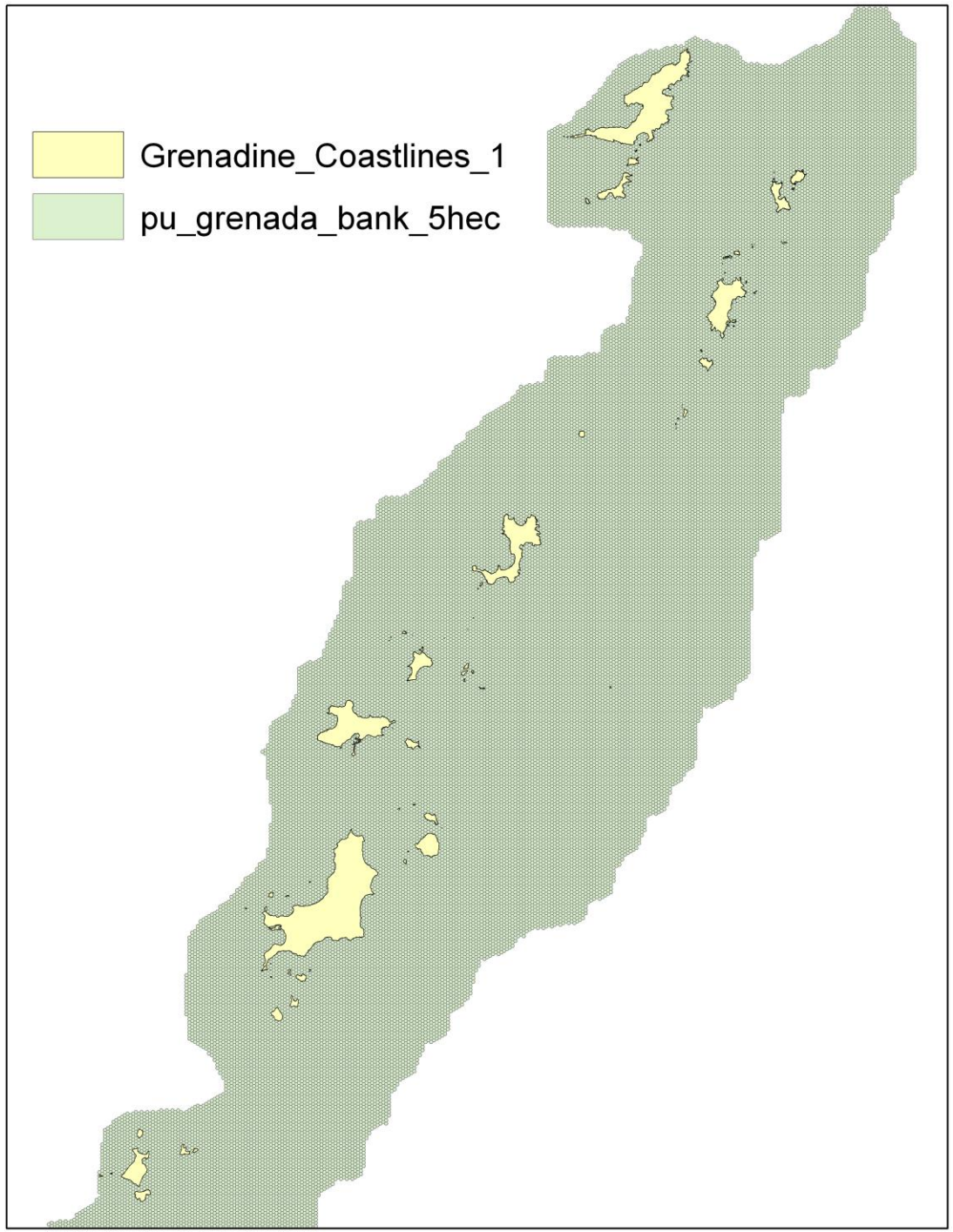
2. Set objectives and define uses

3. Then consider uses, areas of high space use & trade-offs to identify an acceptable plan

4. Propose a draft marine multi-use plan

5. Develop legislation to support management

# Step 1 : Identify the Planning Area



# 3. Determine Uses (ZONES)

- Conservation
- Fishing
- Tourism / Recreation
- Transportation
- Mariculture













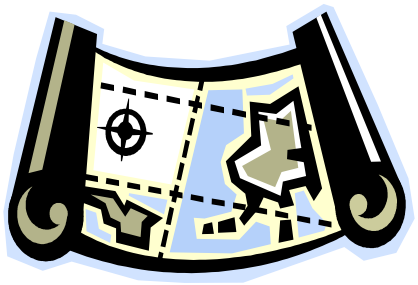
# Grenadine Sub-Committee Meeting

- **15 Grenadine island marine resource users**
  - Fishers, Day tours, Divers, Yacht, Water-taxis

- **Representatives from each Grenadine island**

& SusGren and GIS analysts to facilitate



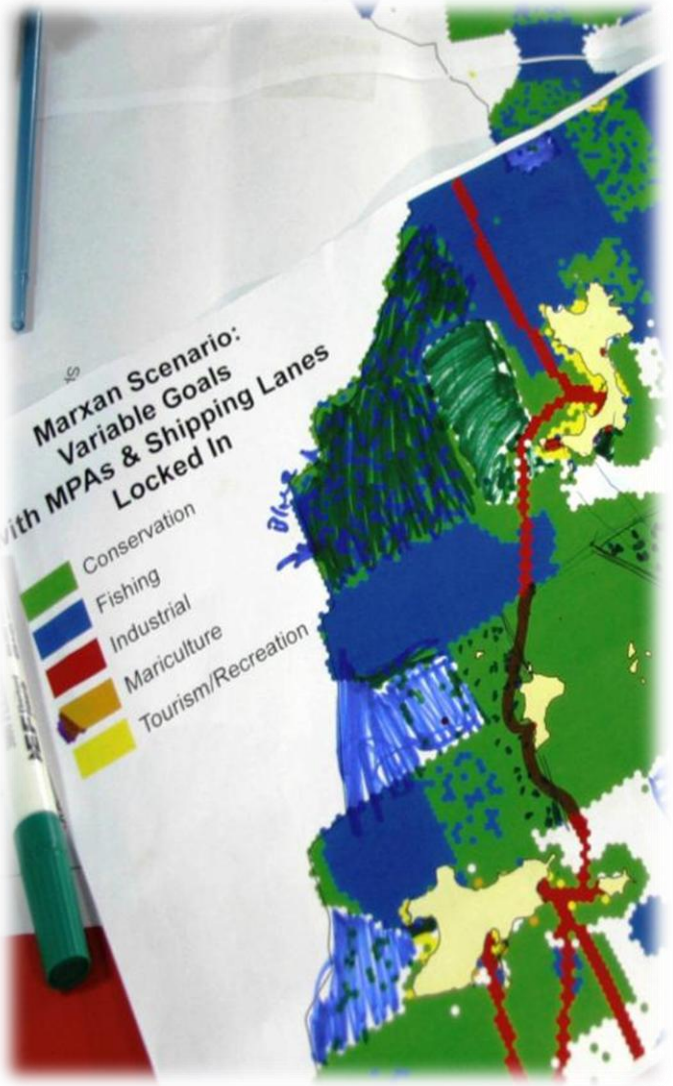




# What did we do?

- Gain increased understanding of decision-support tools
- Review developed scenarios and maps
- Provide local feedback on input variables & scenarios
- Identify a feasible scenario to be presented to the larger stakeholder group

# Steps for developing the plan




- Review and provide feedback on the developed marine zoning scenario and maps from meetings
- Draft a potential marine multi-use zoning design
- Review existing laws & discuss legislative framework that is needed to support a marine zoning design

# 7. Identify areas important for each zone

*Areas important for livelihoods*

- *Fishing, tourism, transportation, communities*



*Areas important for conservation*

- *Reef ecosystems, turtle nesting, nursery areas*



*Areas of overlap*

- *Multiple uses, space-use conflicts/incompatible use*

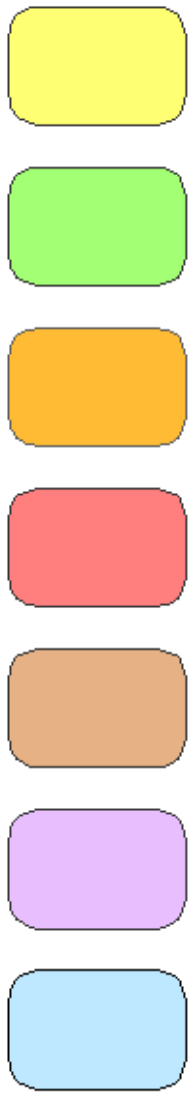








# Proposed Marine Zones



General Use Zone

Conservation Zone

Low Impact/Ecotourism Zone

Mariculture Zone

Transportation Zone

Nearshore Fishing Zone

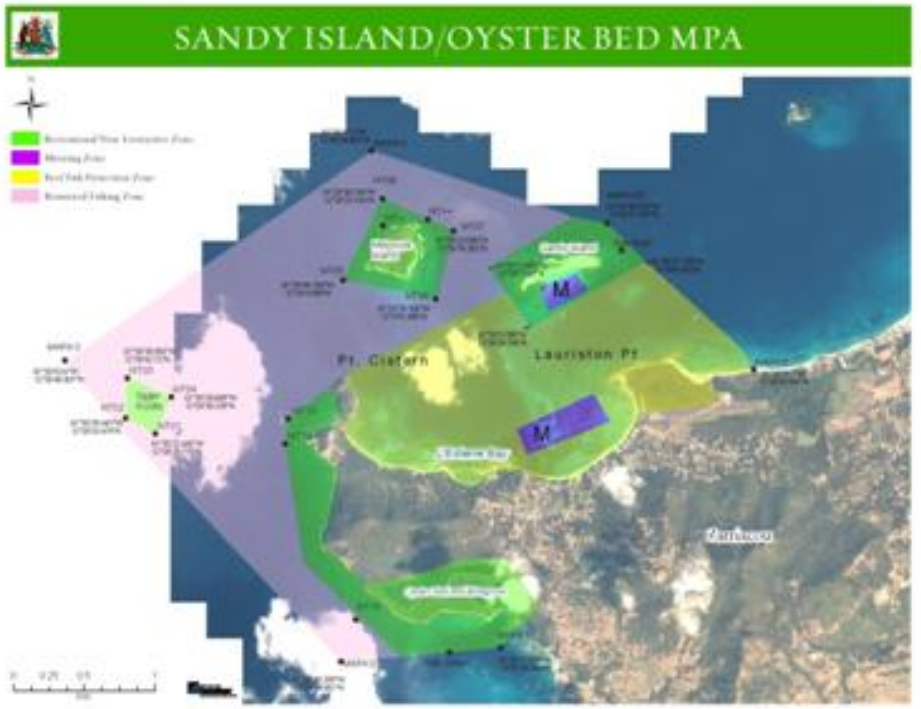
Offshore Fishing Zone

# Conservation Zone



- Marine Park  (no-take or limited take area)
  - Tobago Cays Marine Park, Sandy Island Oyster Bed MPA, Ashton Lagoon





# General Use Zone



- Planned development with limited restrictions
  - Clifton, Hillsborough, Port Elizabeth







# Low Impact / Ecotourism Zone

- Very limited land development, recreational uses and local fishing allowed
  - Balliceaux, Petit Canouan,  Sail Rock, Diamond Rock








# Mariculture Zone



- Seamoss farming only (no fish farming)



**Can occur inside other zones**

# Transportation Zone

- Shipping lanes, landing sites, seaports, marinas












# Offshore Fishing Zone



- For use for *local Grenadine fishers* only
  - No commercial fishing, no dredging, no oil drilling







# Nearshore Fishing Zone

- Fisheries management areas
  - Such as some gear restrictions, seasonal closures, catch limits, etc.








# Draft Marine Multi-use Zoning Design for the Grenadine Islands

## Proposed Marine Zones

- General Use Zone
- Conservation Zone
- Low Impact/Ecotourism Zone
- Mariculture Zone
- Transportation Zone
- Nearshore Fishing Zone
- Offshore Fishing Zone




1st Draft - February 2012

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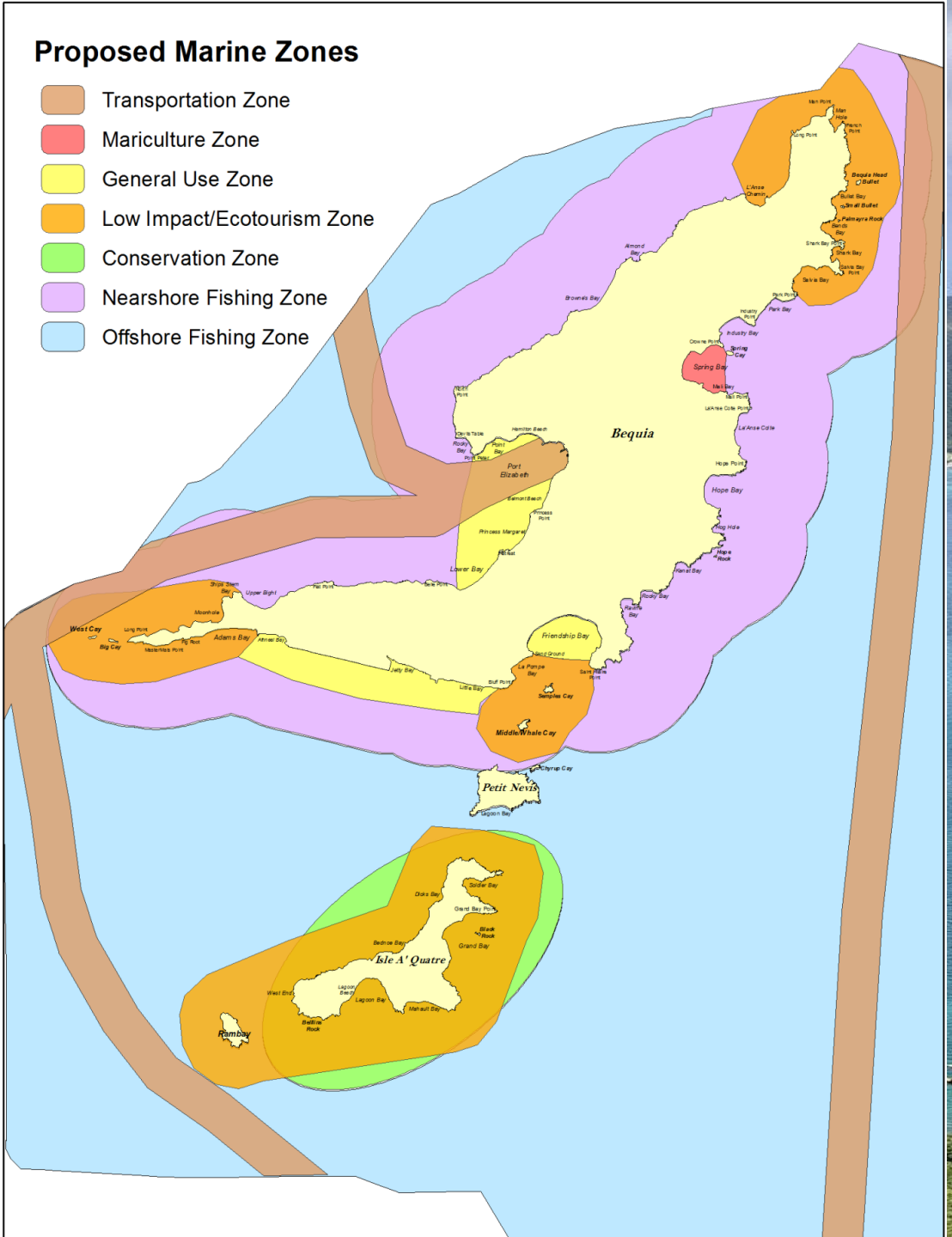
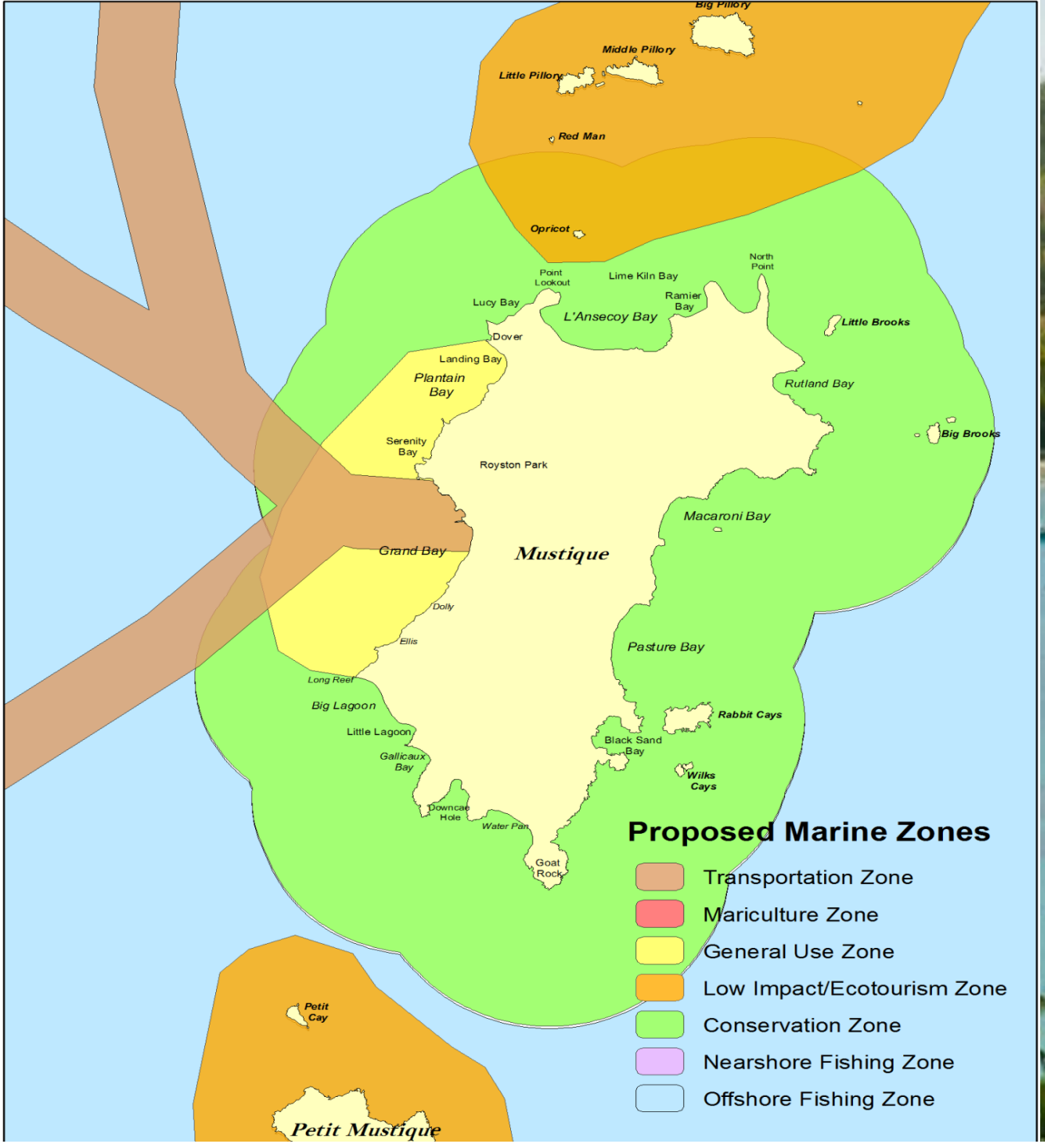
0 5 10 20 Kilometers




Proposed Marine Zones
Transportation Zone
Mariculture Zone
General Use Zone
Low Impact/Ecotourism Zone
Conservation Zone
Nearshore Fishing Zone
Offshore Fishing Zone
Bequia
Port Elizabeth
Spring Bay
Hope Bay
Lower Bay
Friendship Bay
Petit Nevis
Middle Whale Cay
West Cay
Adams Bay
Isle A' Quatre
Rambay




Big Pillory
Middle Pillory
Little Pillory
Red Man
Opricot
Point Lookout
Lime Kiln Bay
North Point
Lucy Bay
Ramier Bay
L'Ansecoy Bay
Little Brooks
Dover
Landing Bay
Plantain Bay
Rutland Bay
Big Brooks
Serenity Bay
Royston Park
Macaroni Bay
Grand Bay
Mustique
Dolly
Ellis
Pasture Bay
Long Reef
Big Lagoon
Rabbit Cays
Little Lagoon
Black Sand Bay
Gallicaux Bay
Wilks Cays
Downcae Hole
Water Pan
Goat Rock
Petit Cay
Petit Mustique
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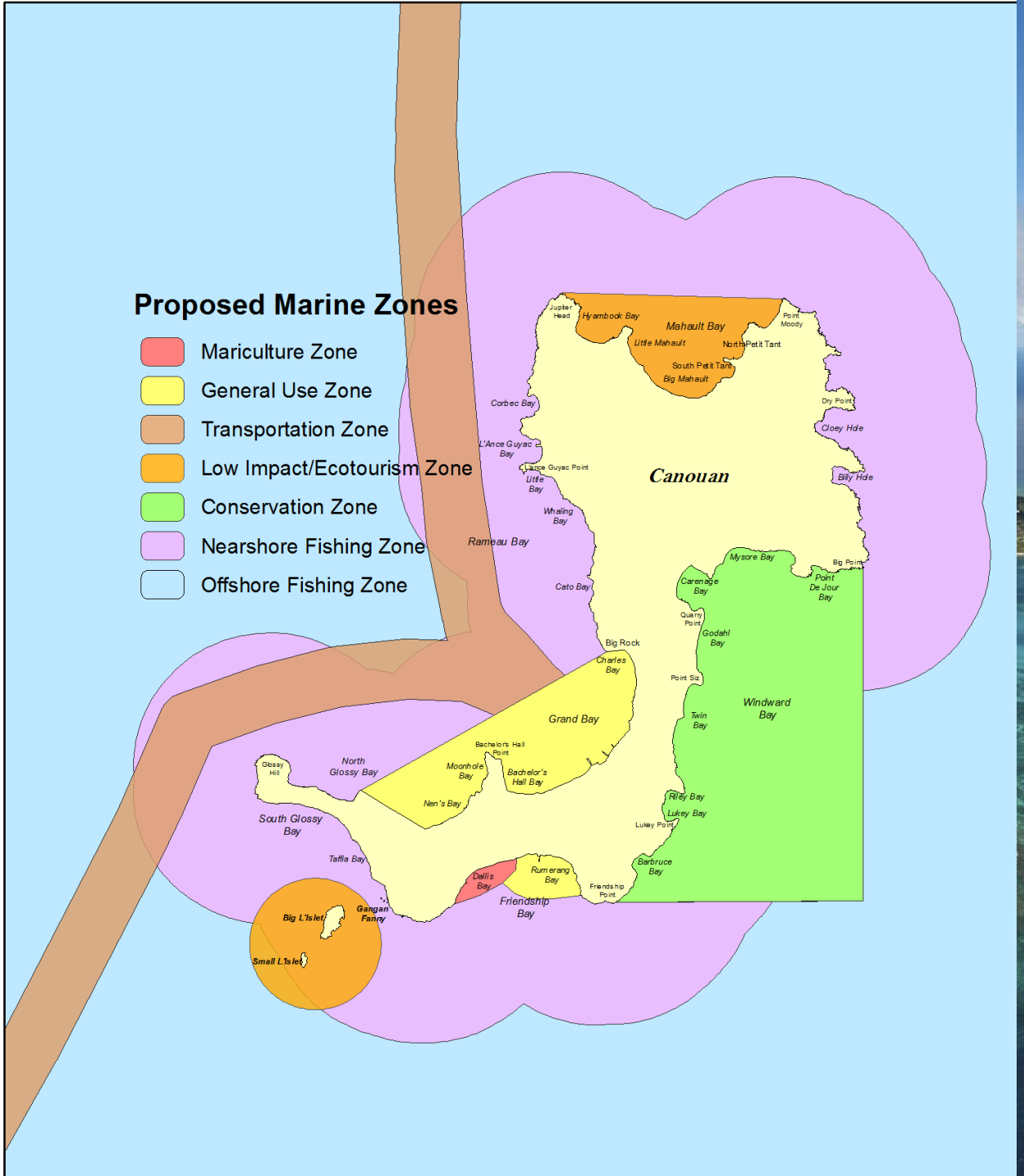
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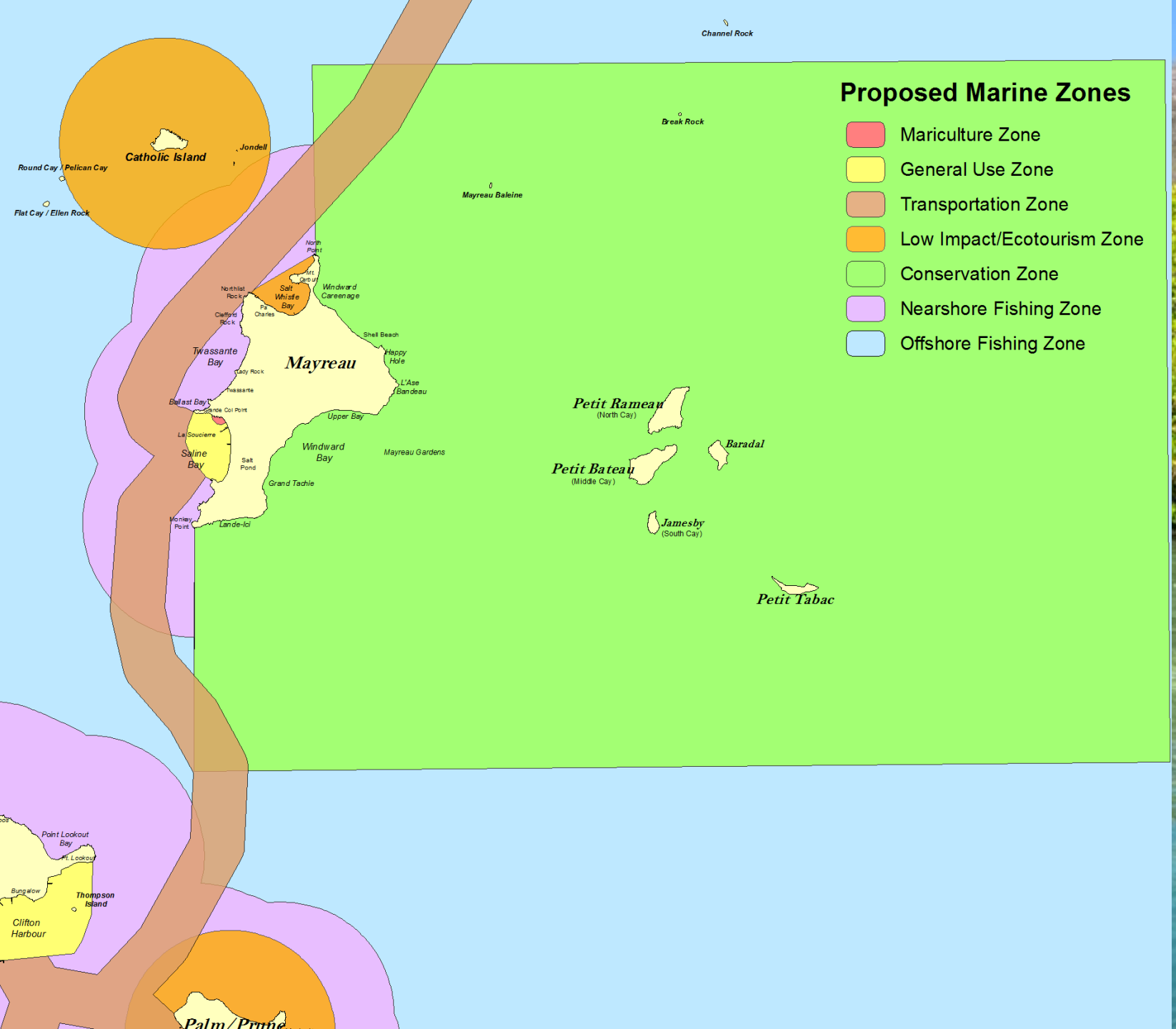
Offshore Fishing Zone
Canouan
Mahault Bay
Hyambook Bay
Jupiter Head
Point Moody
Little Mahault
North Petit Tant
South Petit Tant
Big Mahault
Corbec Bay
Dry Point
Cloey Hole
L'Ance Guyac Bay
L'Ance Guyac Point
Little Bay
Billy Hole
Whaling Bay
Rameau Bay
Mysore Bay
Big Point
Carenage Bay
Point De Jour Bay
Cato Bay
Quarry Point
Godahl Bay
Big Rock
Charles Bay
Point Siz
Windward Bay
Grand Bay
Twin Bay
Bachelors Hall Point
Glossy Hill
North Glossy Bay
Moonhole Bay
Bachelor's Hall Bay
Nen's Bay
Riley Bay
Lukey Bay
South Glossy Bay
Lukey Point
Taffia Bay
Barbruce Bay
Dallis Bay
Rumerang Bay
Friendship Point
Friendship Bay
Gangan Fanny
Big L'Islet
Small L'Islet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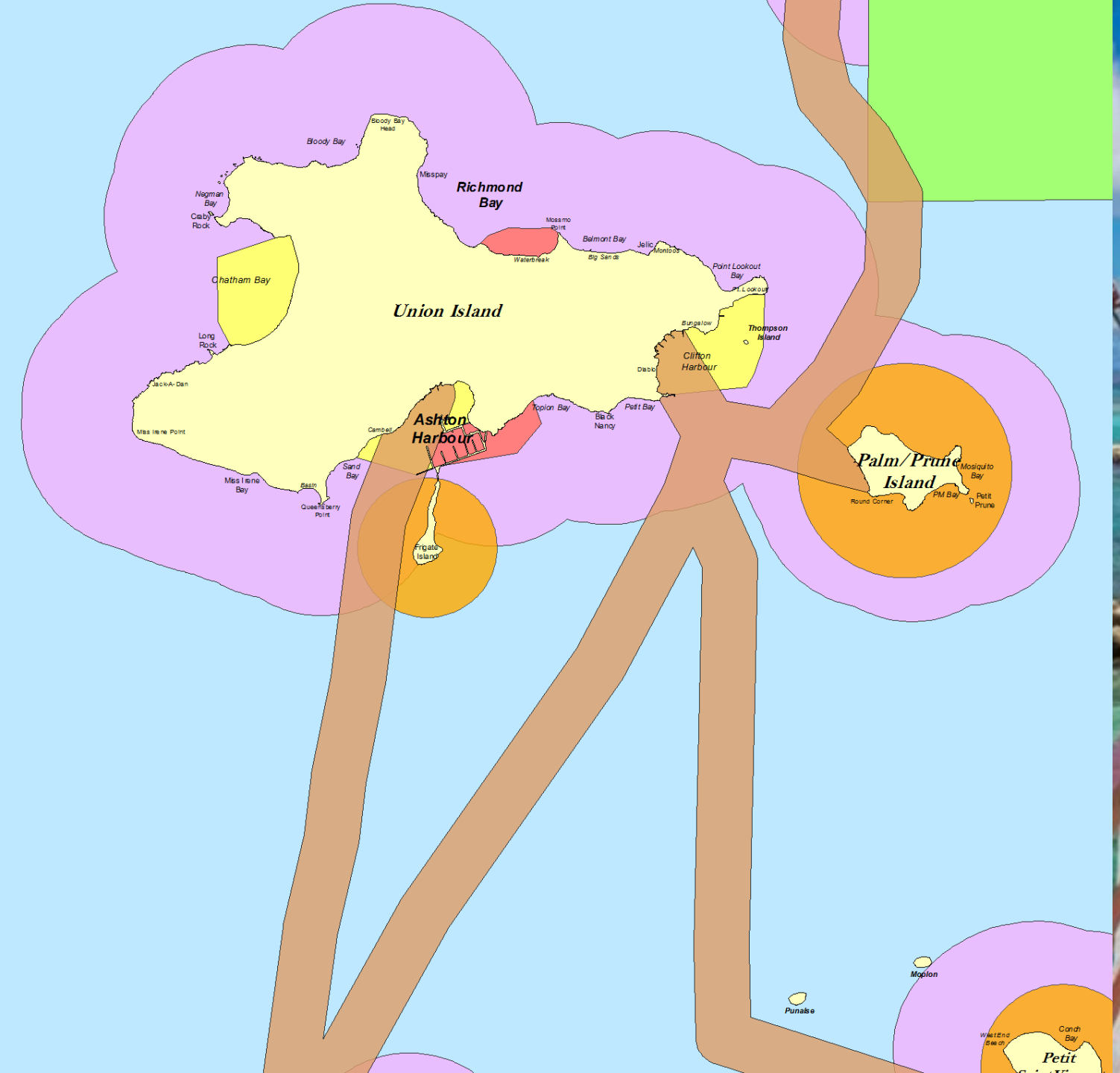
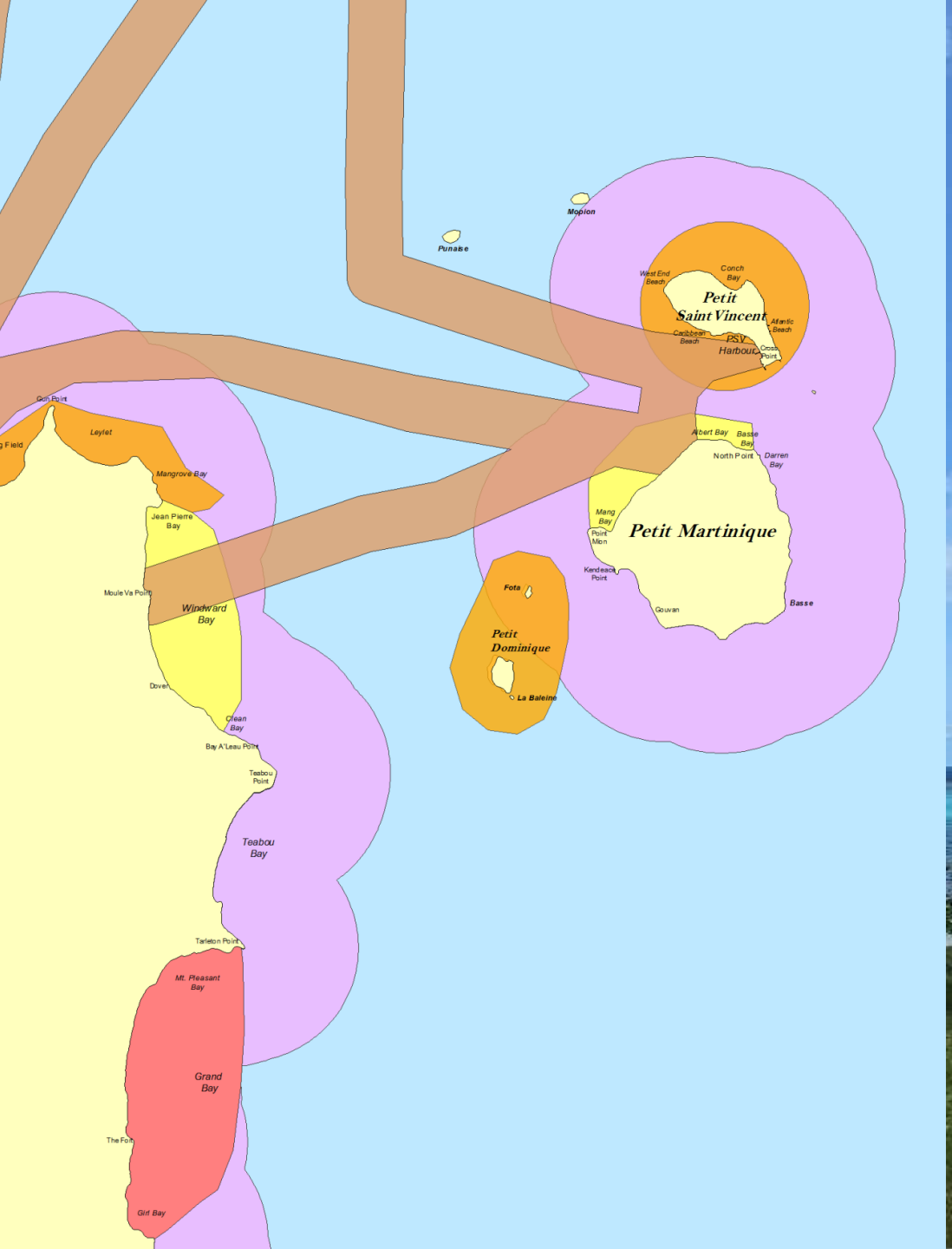
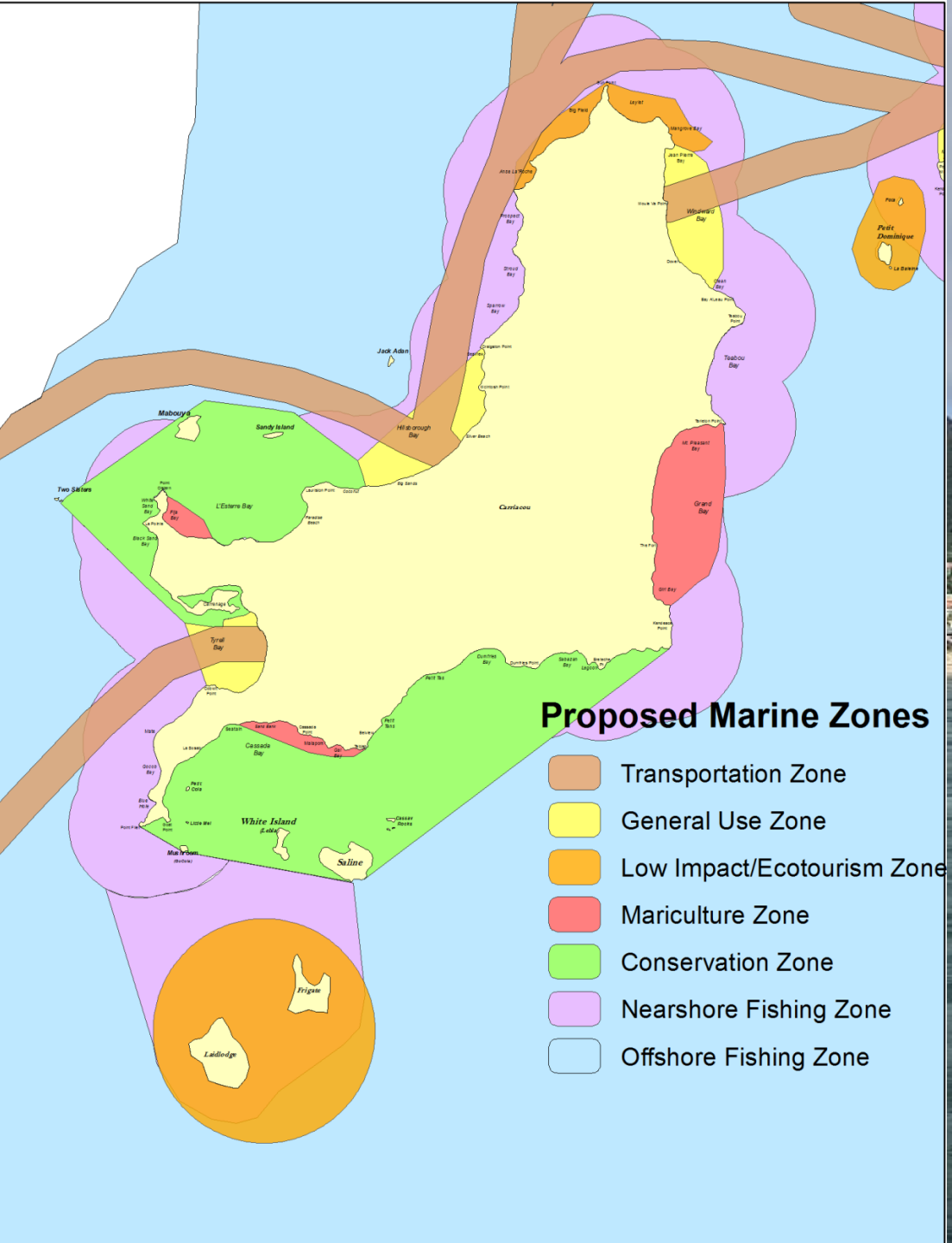
Offshore Fishing Zone
Channel Rock
Break Rock
Mayreau Baleine
Catholic Island
Jondell
Round Cay / Pelican Cay
Flat Cay / Ellen Rock
North Point
Mt. Carmel
Salt Whistle Bay
Windward Careenage
Northist Rock
Pt. Charles
Clifford Rock
Shell Beach
Twassante Bay
Mayreau
Happy Hole
L'Ase Bandeau
Lazy Rock
Twassante
Ballast Bay
Grande Col Point
Upper Bay
La Soucierre
Saline Bay
Windward Bay
Salt Pond
Mayreau Gardens
Grand Tachie
Monkey Point
Lande-Ici
Petit Rameau
(North Cay)
Petit Bateau
(Middle Cay)
Baradal
Jamesby
(South Cay)
Petit Tabac
Point Lookout Bay
Pt. Lookout
Bungalow
Thompson Island
Clifton Harbour
Palm/Prune


Bloody Bay Head
Bloody Bay
Misspay
Richmond Bay
Negman Bay
Craby Rock
Mossmo Point
Waterbreak
Belmont Bay
Big Sands
Jelic
Montoos
Point Lookout Bay
Pt. Lookout
Chatham Bay
Union Island
Bungalow
Thompson Island
Long Rock
Clifton Harbour
Diablo
Jack-A-Dan
Topion Bay
Petit Bay
Black Nancy
Ashton Harbour
Cambell
Miss Irene Point
Sand Bay
Miss Irene Bay
Basin
Queensberry Point
Frigate Island
Palm/Prune Island
Mosiquito Bay
Round Corner
PM Bay
Petit Prune
Moplon
Punalse
West End Beach
Conch Bay
Petit




Mopion
Punaise
West End Beach
Conch Bay
Petit Saint Vincent
Caribbean Beach
PSV Harbour
Atlantic Beach
Cross Point
Albert Bay
Basse Bay
North Point
Darren Bay
Petit Martinique
Meng Bay
Point Mon
Kendeaca Point
Gouvan
Basse
Fota
Petit Dominique
La Baleine
Golf Point
Leylet
Mangrove Bay
Jean Pierre Bay
Moule Va Point
Windward Bay
Dover
Clean Bay
Bay A'Leau Point
Teabou Point
Teabou Bay
Tarleton Point
Mt. Pleasant Bay
Grand Bay
The Fort
Girl Bay


Proposed Marine Zones
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Offshore Fishing Zone
Mabouya
Sandy Island
Two Sisters
L'Esterre Bay
Hillsborough Bay
Jack Adan
Carriacou
Windward Bay
Petit Dominique
Toabou Bay
Mt. Pleasant Bay
Grand Bay
Tyrall Bay
Cassada Bay
White Island
Saline
Frigate
Laidlodge



# Follow up activities

- Policy paper was developed by the Environmental Law Institute (ELI)

- Outreach Brochure on the Marine Multi Use Zoning Plan (MMZP)
- Video documentary on the process of (MMZP)

- Plan was presented to both governments of Grenada and SVG to be incorporated in their ocean policy
- St. Vincent incorporated it in their Ocean Policy ☺
- Grenada ☹

- SusGren have implemented some actions of the MMZP e.g the formation of the Grenadines Network of MPA ( 7 MPAs are members now between G'da and SVG)

- Restoration of the Ashton Lagoon restoring water circulation and boat access


Thank you!
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