

# Marine Protected Areas in an ecosystem-based management context – the Wider Caribbean experience

*UNEP's Caribbean Environment Programme*



*Secretariat to the Cartagena Convention and its  
Protocols on biodiversity (SPAW), land-based  
pollution (LBS) and oil spills response*

*11<sup>th</sup> Global Meeting of the Regional Seas  
Conventions and Action Plans  
Bangkok, 5-8th October 2009*

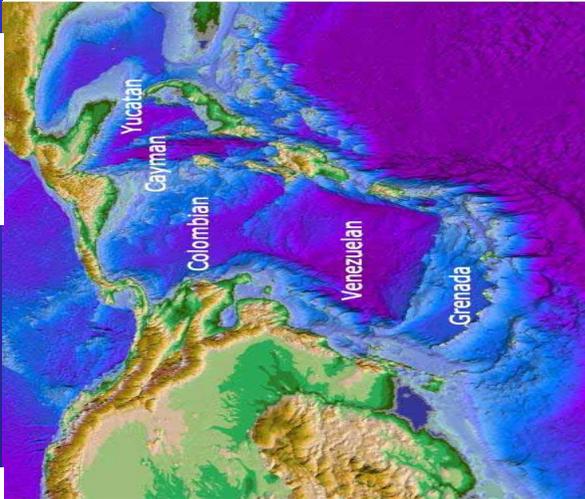


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# The Wider Caribbean: a biogeographic opportunity for EBM and LME governance



2.6 million Km<sup>2</sup>

38 countries & territories: diff political and legal systems, languages (16 SIDS, 19 territories, 13 land States)

One Marine Biogeographic Province with several ecoregions

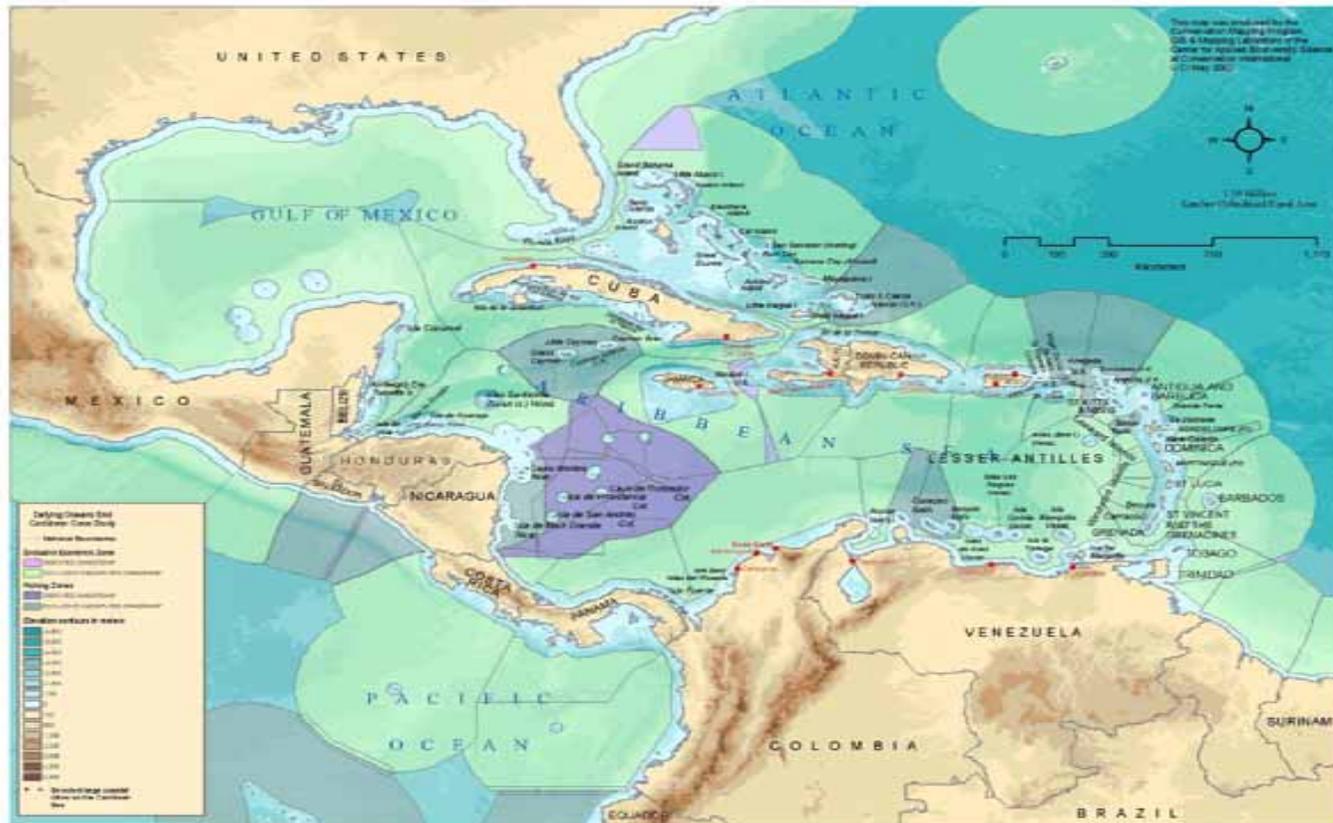
Coastal tourism: a major force, lessons to be learned

Land-based pollution and over-fishing major issues

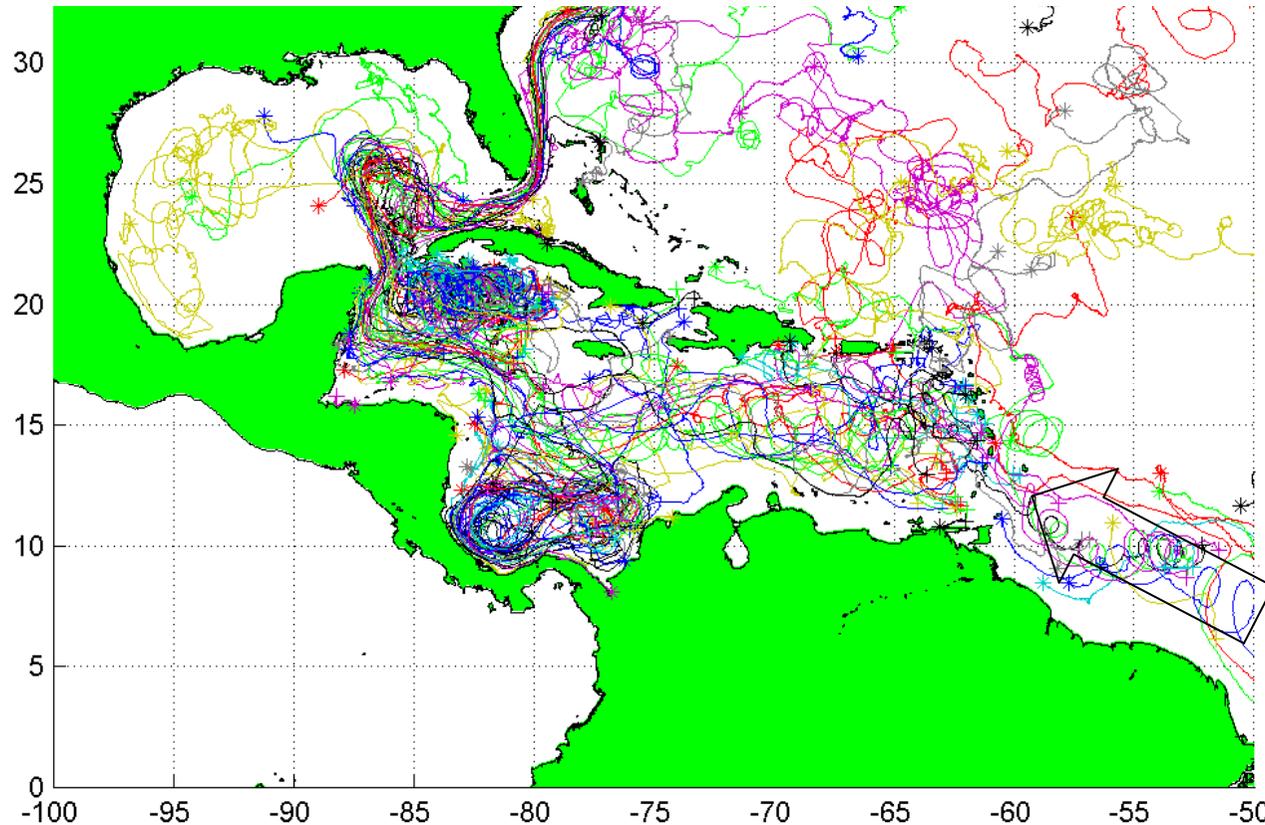


# The Wider Caribbean Region (WCR)

- Almost no international waters



# Oceanic circulation shaped by gyres and meanders largely due to coastal morphology and bottom relief



Current drifters (1998-2000)  
Kevin Leaman (UM/RSMAS)

# *The Cartagena Convention and its Protocols*

## *- an integrated approach -*



### **Cartagena Convention**

*Adopted 1983*

*Entered into Force 1986*

### **Oil Spills Protocol**

*Adopted 1983*

*Entered into Force 1986*

### **Specially Protected Areas and Wildlife Protocol**

*Adopted 1990*

*Entered into Force 2000*

### **Land-based Sources of Marine Pollution Protocol**

*Adopted 1999*



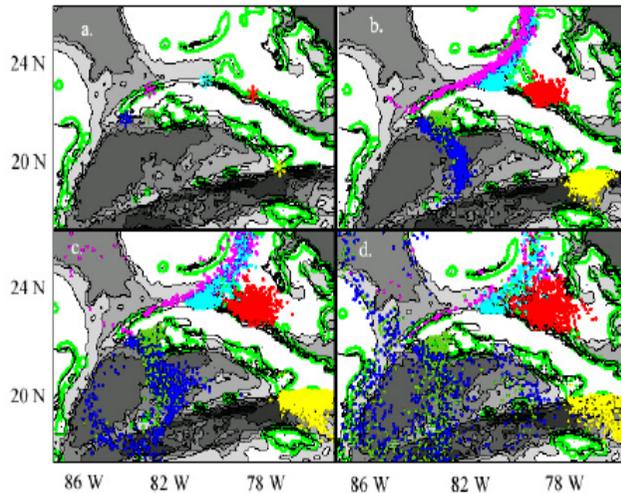
Emergency response  
for oil spills (with IMO)

SPAW Biodiversity  
subprogramme

Assesment and management  
of marine pollution (AMEP)

# Biological connectivity of marine populations

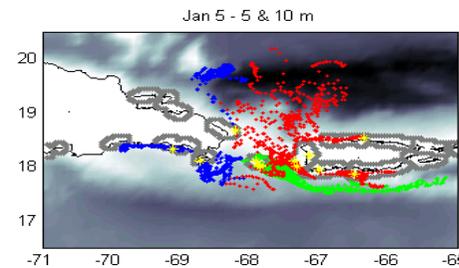
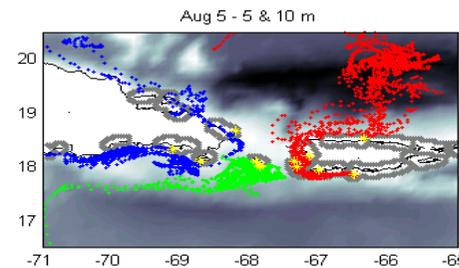
- Restricted
- The need for transboundary and ecoregional management of marine resources



Snapper larval dispersal (*Paris et al.*, 2005)



Mutually exclusive distribution of 9 nominal spp of gobies (*Collin, 2004*)



(*A. palmata*, Baums, Paris, Cherubin, 2006)



