



Evaluation of Marine Reserves

1. Introduction

2. Objectives and Indicators

3. Data

4. Select Reserve

5. Confirm

6. Results

Previous

Results for La Plana / Las Cuevas - La Dulce / Babencho reserve in the community of Isla Natividad

Pendiente

Significancia

p



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Global

General

63.6% of positive indicators



Biophysical

General

66.7% of positive indicators



More less

Fishes

Shannon Index

Effect = -0.22; p = 0.16



Richness

Effect = -0.61; p = 0.16



Density

Effect = 0.74; p = 0.90



Trophic level

Effect = 0.00; p = 0.89



Biomass

Effect = 0.22; p = 0.88



invertebrates

Shannon Index

Effect = -0.67; p = 0.00



Richness

Effect = -2.71; p = 0.00



Density

Effect = 91.21; p = 0.05



target species

mature organisms (fish)

Biomass (fish)

Density

Megastreaa undosa

Density Effect = 97.17; p = 0.02



Mesocentrotus franciscanus

Density Effect = 2.15; p = 0.08



Panulirus interruptus

Density Effect = 7.66; p = 0.39



Parastichopus parvimensis

Density Effect = 2.31; p = 0.05



Socioeconomic

General

60.0% of positive indicators



More less

Landings

Effect = 64.20; p = 0.49



Income

Effect = 10344.85; p = 0.02



target species

Landings

Megastreaa undosa

Arrivals Effect = -69.53; p = 0.06



Mesocentrotus franciscanus

Arrivals Effect = -30.00; p = 0.03



Panulirus interruptus

Arrivals Effect = 7.37; p = 0.61



Parastichopus parvimensis

Arrivals Effect = 9.34; p = 0.19



Income

Megastreaa undosa

Income Effect = -404.85; p = 0.05



Mesocentrotus franciscanus

Income Effect = -5800.46; p = 0.04



Panulirus interruptus

Income Effect = 14372.85; p = 0.00



Parastichopus parvimensis

Income Effect = 131.49; p = 0.49



Governance

General

77.8% of positive indicators



More less

Access to fishery

All right!



Number of fishers

All right!



Legal recognition

Legally recognize reservation is important to strengthen their proxy.



Degree of illegal fishing

All right!



Management plan

Users may know the rules and therefore obey them.



Monitoring and enforcement

It may increase surveillance of reserves help to be more effective.



Reserve size

Not available for invertebrates.



Fisheries organization

All right!



Internal regulations

All right!



Perceived effectiveness

All right! While the perception and reality are similar.

