

Actinopyga mauritiana - EFATE-SOUTH_2013-06

The selected data includes **85 habitat zone(s)** of the study area (**5.83 km²**). The field census occurred from 03/06/2013 to 13/06/2013. **186 transects** are considered in the results below.

Zones : Z001 ; Z002 ; Z003 ; Z004 ; Z005 ; Z006 ; Z007 ; Z008 ; Z010 ; Z011 ; Z012 ; Z013 ; Z014 ; Z015 ; Z016 ; Z017 ; Z021 ; Z022 ; Z023 ; Z024 ; Z025 ; Z026 ; Z027 ; Z028 ; Z029 ; Z030 ; Z031 ; Z032 ; Z033 ; Z034 ; Z035 ; Z036 ; Z037 ; Z038 ; Z040 ; Z041 ; Z043 ; Z044 ; Z045 ; Z046 ; Z047 ; Z048 ; Z049 ; Z050 ; Z051 ; Z052 ; Z053 ; Z054 ; Z055 ; Z056 ; Z057 ; Z058 ; Z059 ; Z060 ; Z061 ; Z062 ; Z063 ; Z064 ; Z065 ; Z066 ; Z067 ; Z068 ; Z069 ; Z070 ; Z071 ; Z072 ; Z073 ; Z074 ; Z075 ; Z076 ; Z078 ; Z079 ; Z080 ; Z082 ; Z083 ; Z084 ; Z085 ; Z086 ; Z087 ; Z088 ; Z089 ; Z090 ; Z092 ; Z093 ; Z094 ;

Reference indicators for all individuals

Reference indicators include biomass, abundance and density estimates.

The conservative stock biomass of all individuals is **1699 kg** (wet) and the conservative total abundance is **3851 individual(s)**. This wet biomass is equivalent to **849 kg** of gutted and salted products, and **102 kg** of dried products (bêche-de-mer).

The conservative mean density estimate of all individuals is **7 individual/ha** and **2.9 kg/ha** over the selected habitat zones .

The above estimates incorporate measure uncertainty that is attributable to survey method and heterogeneous resource distribution over the survey site.

Biological interpretation

Legal-sized individuals (250 mm) represent **5 % of the total stock biomass** . This low proportion is attributable to the common observation of small individuals in the survey compared to adults (see charts below) and is indicative of local recruitment. **Resources may be harvested following the recommended TAC (see table).**

Total stock estimates for Actinopyga mauritiana

(all sizes) 2.997 t ± 1.298 t

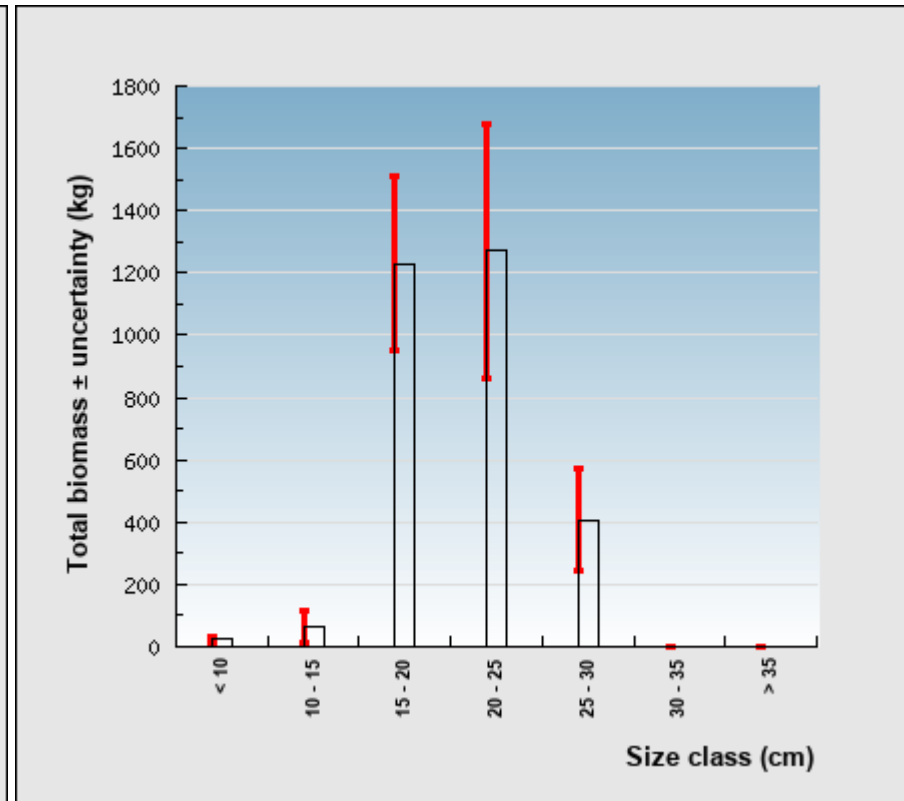
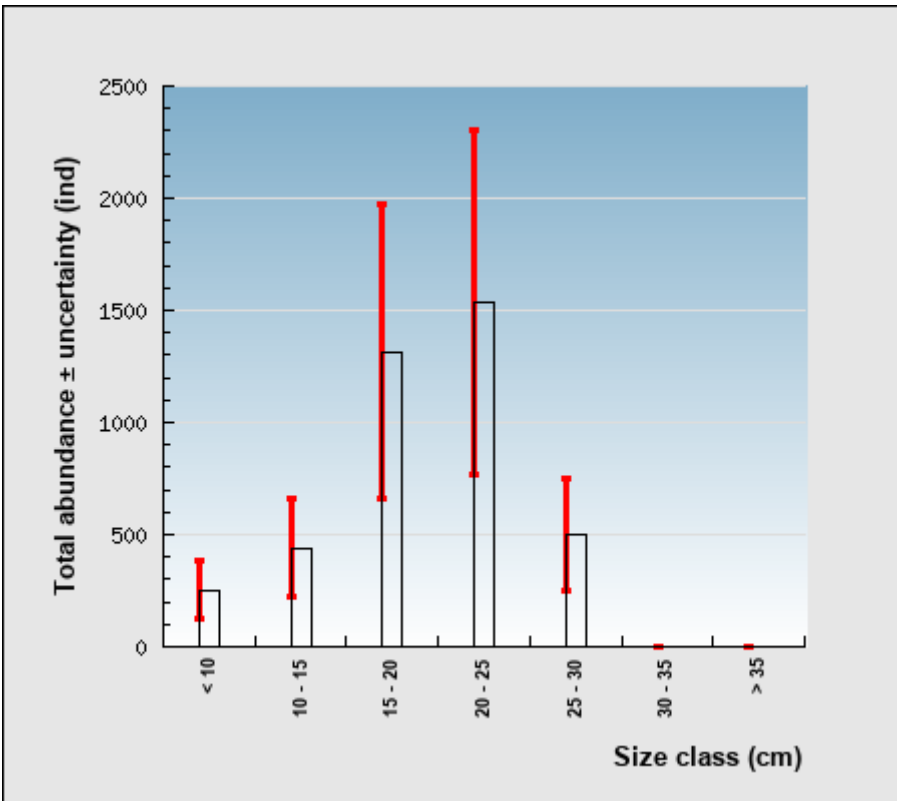
Recommended TAC (Total Allowable Catch, or quota) of legal-sized individuals (250 mm) :

Fresh/wet products 0.083 t

Salted and gutted products 0.041 t

Dried products (bêche-de-mer) 0.005 t

Size structure of the whole stock of Actinopyga mauritiana



Size distribution of observed sea cucumbers (n=51)

