

Actinopyga mauritiana - EFATE-WEST_2013-02

The selected data includes **25 habitat zone(s)** of the study area (**2.14 km²**). The field census occurred from 11/02/2013 to 20/03/2013. **63 transects** are considered in the results below.

Zones : Z014 ; Z018 ; Z027 ; Z036 ; Z037 ; Z038 ; Z039 ; Z045 ; Z052 ; Z054 ; Z055 ; Z056 ; Z057 ; Z058 ; Z059 ; Z063 ; Z064 ; Z068 ; Z069 ; Z070 ; Z073 ; Z075 ; Z077 ; Z086 ; Z094 ;

Reference indicators for all individuals

Reference indicators include biomass, abundance and density estimates. The conservative stock biomass of all individuals is **1687 kg** (wet) and the conservative total abundance is **2254 individual(s)**. This wet biomass is equivalent to **843 kg** of gutted and salted products, and **101 kg** of dried products (bêche-de-mer).

The conservative mean density estimate of all individuals is **10 individual/ha** and **7.8 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 **2 % 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) **3.055 t ± 1.368 t**

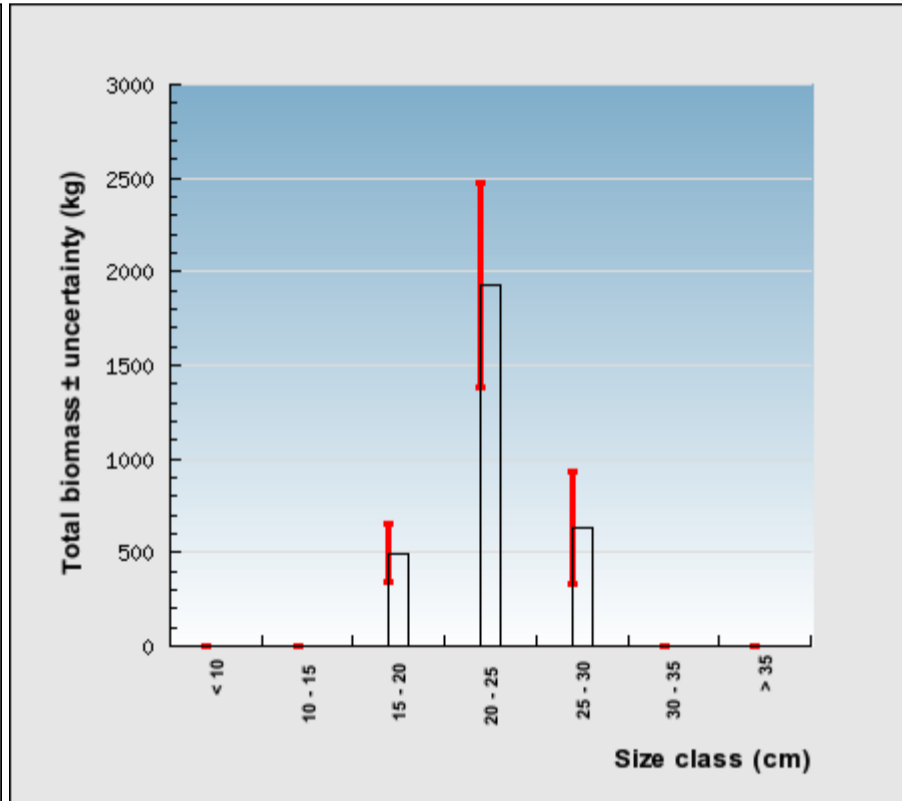
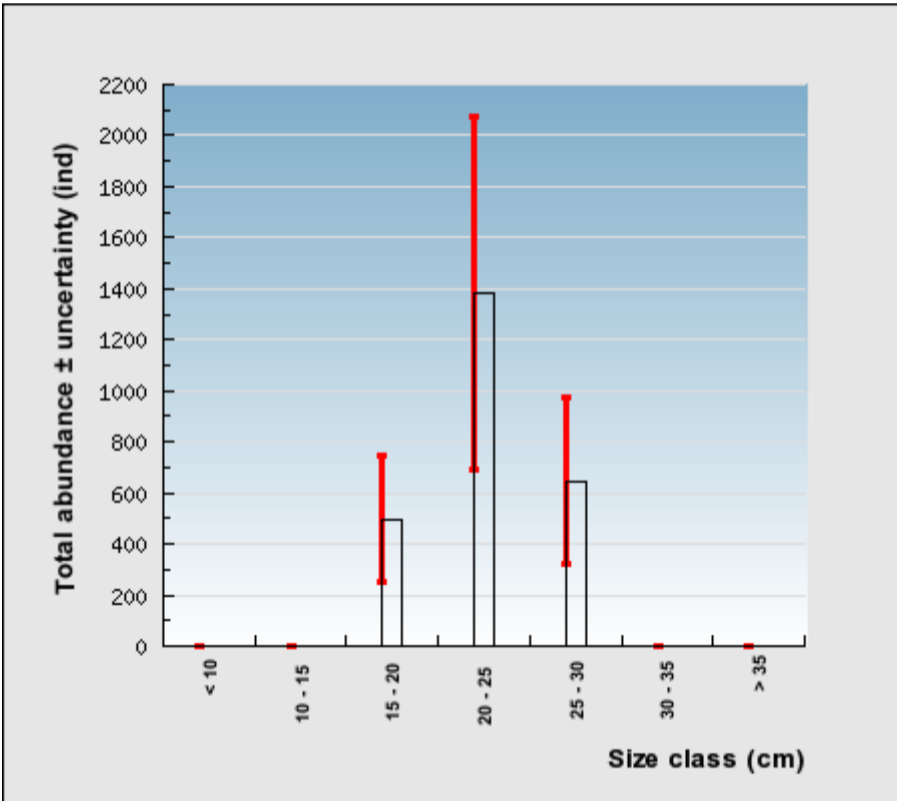
Recommended TAC (Total Allowable Catch, or quota) of legal-sized individuals (250 mm) :

Fresh/wet products **0.037 t**

Salted and gutted products **0.019 t**

Dried products (bêche-de-mer) **0.002 t**

Size structure of the whole stock of Actinopyga mauritiana



Size distribution of observed sea cucumbers (n=27)

