

# Holothuria atra - EMAE-COOK-REEF\_2014-05

The selected data includes **25 habitat zone(s)** of the study area ( **13.69 km<sup>2</sup>**). The field census occurred from 13/05/2014 to 17/05/2014. **162 transects** are considered in the results below.

Zones : Z001 ; Z002 ; Z003 ; Z004 ; Z005 ; Z006 ; Z007 ; Z010 ; Z011 ; Z016 ; Z018 ; Z019 ; Z020 ; Z021 ; Z022 ; Z025 ; Z026 ; Z027 ; Z029 ; Z030 ; Z033 ; Z034 ; Z035 ; Z038 ; Z039 ;

## Reference indicators for all individuals

Reference indicators include biomass, abundance and density estimates.

The conservative stock biomass of all individuals is **326266 kg** (wet) and the conservative total abundance is **3181704 individual(s)**. This wet biomass is equivalent to **163133 kg** of gutted and salted products, and **16313 kg** of dried products (bêche-de-mer).

The conservative mean density estimate of all individuals is **2324 individual/ha** and **238.3 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 (200 mm) represent **15 % 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 Holothuria atra

(all sizes)	453.973 t ± 127.708 t
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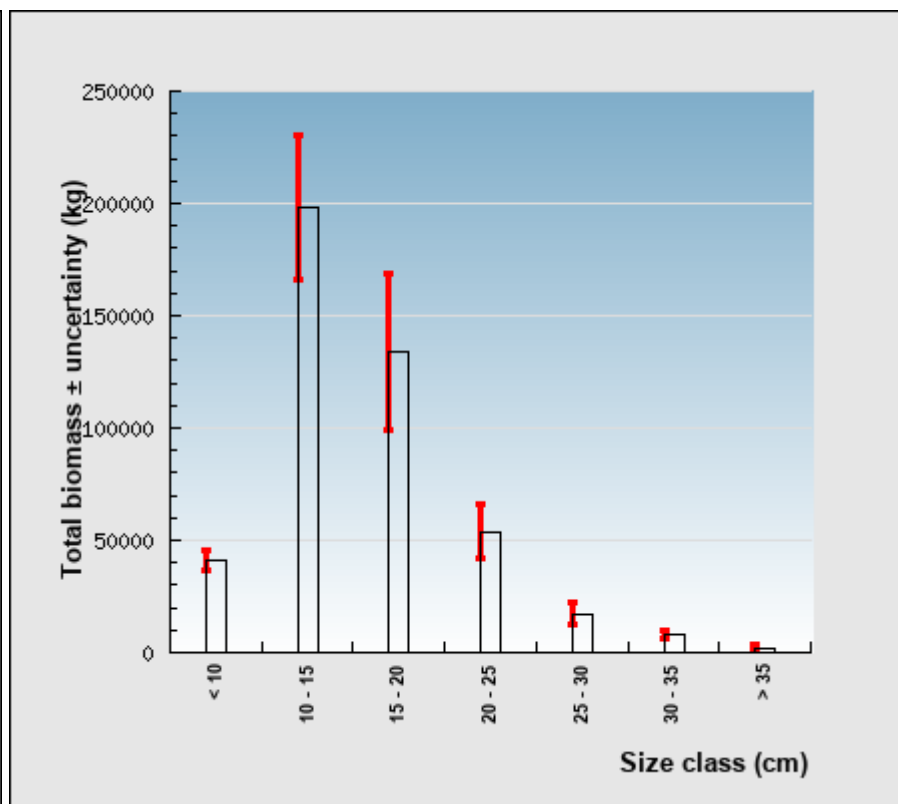
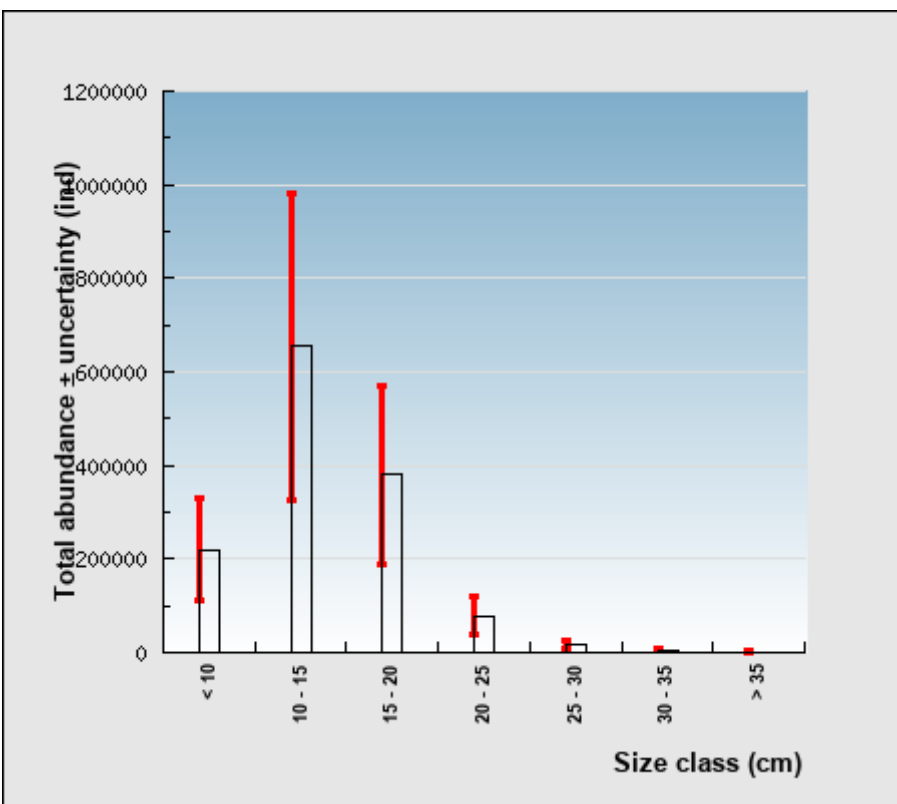
## Recommended TAC (Total Allowable Catch, or quota) of legal-sized individuals (200 mm) :

Fresh/wet products	49.231 t
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Salted and gutted products	24.616 t
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Dried products (bêche-de-mer)	2.462 t
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## Size structure of the whole stock of Holothuria atra



## Size distribution of observed sea cucumbers (n=8683)

