

# Stichopus herrmanni - MASKELYNE\_2011-09

The selected data includes **72 habitat zone(s)** of the study area ( **24.54 km<sup>2</sup>**). The field census occurred from 12/09/2011 to 15/09/2011. **286 transects** are considered in the results below.

Zones : Z001 ; Z002 ; Z003 ; Z004 ; Z005 ; Z006 ; Z007 ; Z008 ; Z009 ; Z010 ; Z011 ; Z012 ; Z013 ; Z014 ; Z015 ; Z016 ; Z017 ; Z018 ; Z019 ; Z020 ; Z021 ; Z022 ; Z023 ; Z024 ; Z025 ; Z026 ; Z027 ; Z028 ; Z029 ; Z030 ; Z031 ; Z032 ; Z033 ; Z034 ; Z035 ; Z036 ; Z037 ; Z038 ; Z039 ; Z040 ; Z041 ; Z042 ; 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 ;

## Reference indicators for all individuals

Reference indicators include biomass, abundance and density estimates. The conservative stock biomass of all individuals is **12292 kg** (wet) and the conservative total abundance is **12423 individual(s)**. This wet biomass is equivalent to **6146 kg** of gutted and salted products, and **492 kg** of dried products (bêche-de-mer).

The conservative mean density estimate of all individuals is **5 individual/ha** and **5 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 (350 mm) represent **44 % 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 Stichopus herrmanni

(all sizes) 42.648 t ± 30.356 t

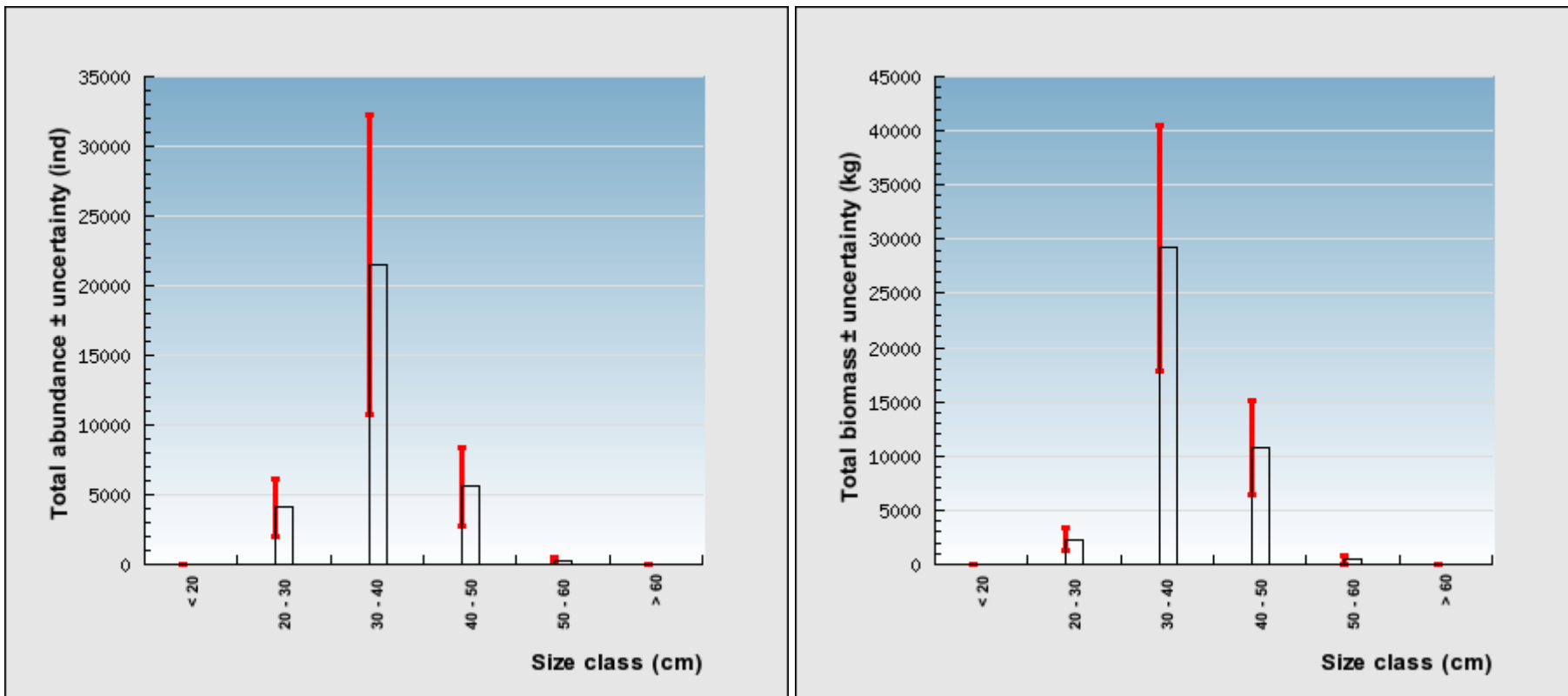
## Recommended TAC (Total Allowable Catch, or quota) of legal-sized individuals (350 mm) :

Fresh/wet products 5.445 t

Salted and gutted products 2.723 t

Dried products (bêche-de-mer) 0.218 t

## Size structure of the whole stock of Stichopus herrmanni



## Size distribution of observed sea cucumbers (n=119)

