

Thelenota ananas - SANTO-ISLANDS_2014-03

The selected data includes **12 habitat zone(s)** of the study area (**3.65 km²**). The field census occurred from 17/03/2014 to 21/03/2014. **49 transects** are considered in the results below.

Zones : Z022 ; Z025 ; Z026 ; Z034 ; Z035 ; Z036 ; Z039 ; Z041 ; Z044 ; Z057 ; Z079 ; Z081 ;

Reference indicators for all individuals

Reference indicators include biomass, abundance and density estimates.

The conservative stock biomass of all individuals is **6203 kg** (wet) and the conservative total abundance is **2883 individual(s)**. This wet biomass is equivalent to **3101 kg** of gutted and salted products, and **434 kg** of dried products (bêche-de-mer).

The conservative mean density estimate of all individuals is **8 individual/ha** and **17 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 **95 % of the total stock biomass**. This high proportion means that small individuals were rarely observed during survey compared to large individuals, and may be indicative of recruitment failure. **Consequently, the recommended TAC must range between 21.05 % and 31.58 % of the estimated TAC (see table) as a precautionary approach.**

Total stock estimates for Thelenota ananas

(all sizes)	15.089 t ± 8.887 t
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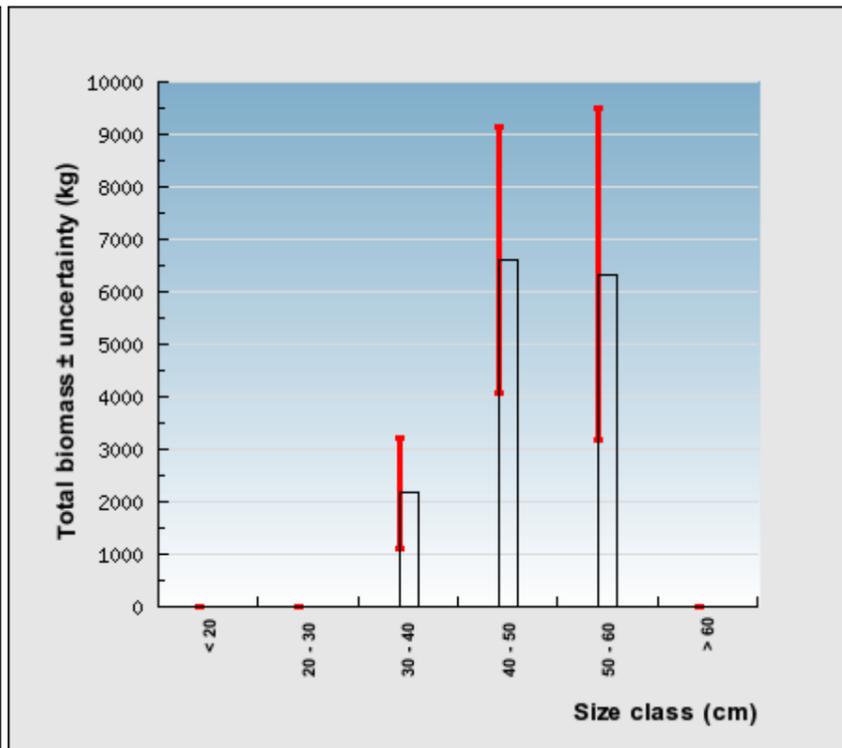
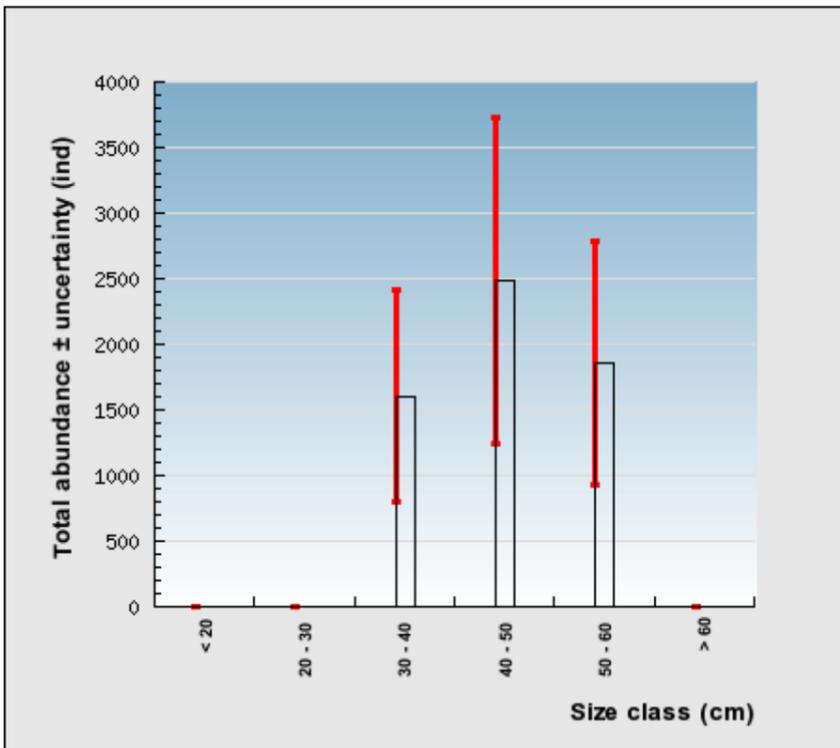
Recommended TAC (Total Allowable Catch, or quota) of legal-sized individuals (350 mm) :

Fresh/wet products	5.884 t
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Salted and gutted products	2.942 t
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Dried products (bêche-de-mer)	0.412 t
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Size structure of the whole stock of Thelenota ananas



Size distribution of observed sea cucumbers (n=19)

