

Bohadschia argus - GAUA_2014-08

The selected data includes **42 habitat zone(s)** of the study area (**9.36 km²**). The field census occurred from 26/08/2014 to 31/08/2014. **150 transects** are considered in the results below.

Zones : Z001 ; Z002 ; Z003 ; Z005 ; Z006 ; Z007 ; Z008 ; Z009 ; Z010 ; Z011 ; Z012 ; Z013 ; Z014 ; Z017 ; Z019 ; Z022 ; Z023 ; Z024 ; Z026 ; Z027 ; Z028 ; Z029 ; Z030 ; Z031 ; Z032 ; Z033 ; Z034 ; Z035 ; Z037 ; Z039 ; Z042 ; Z043 ; Z044 ; Z045 ; Z046 ; Z049 ; Z050 ; Z051 ; Z052 ; Z054 ; Z055 ; Z056 ;

Reference indicators for all individuals

Reference indicators include biomass, abundance and density estimates.

The conservative stock biomass of all individuals is **2047 kg** (wet) and the conservative total abundance is **2433 individual(s)**. This wet biomass is equivalent to **1024 kg** of gutted and salted products, and **82 kg** of dried products (bêche-de-mer).

The conservative mean density estimate of all individuals is **3 individual/ha** and **2.2 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 (300 mm) represent **63 % 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 31.75 % and 47.63 % of the estimated TAC (see table) as a precautionary approach.**

Total stock estimates for Bohadschia argus

(all sizes)	5.617 t ± 3.57 t
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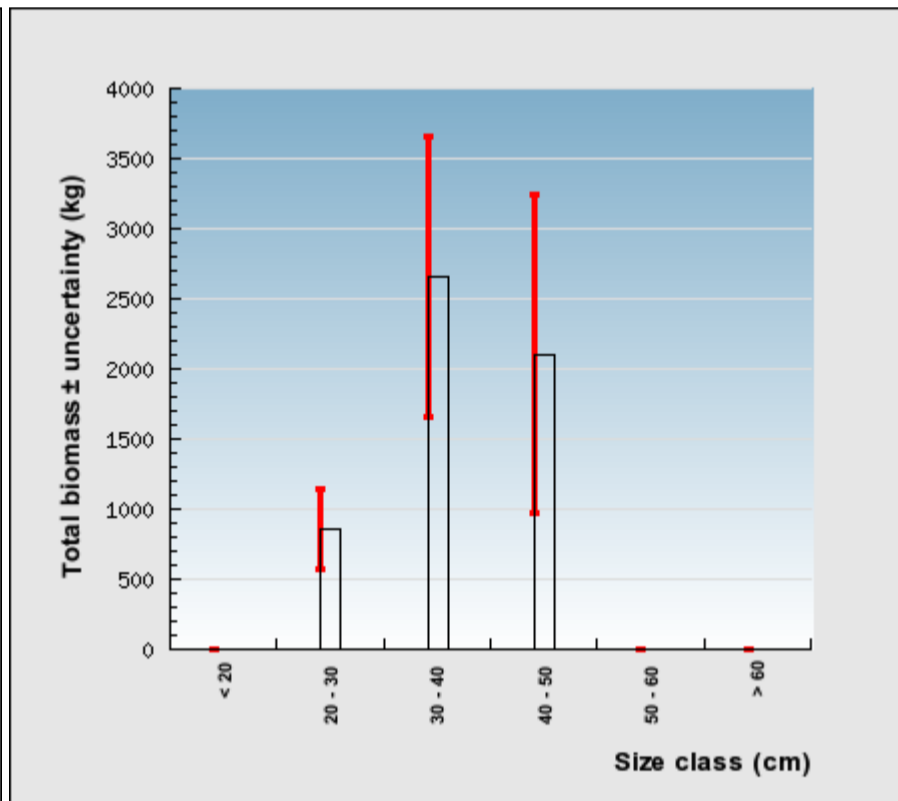
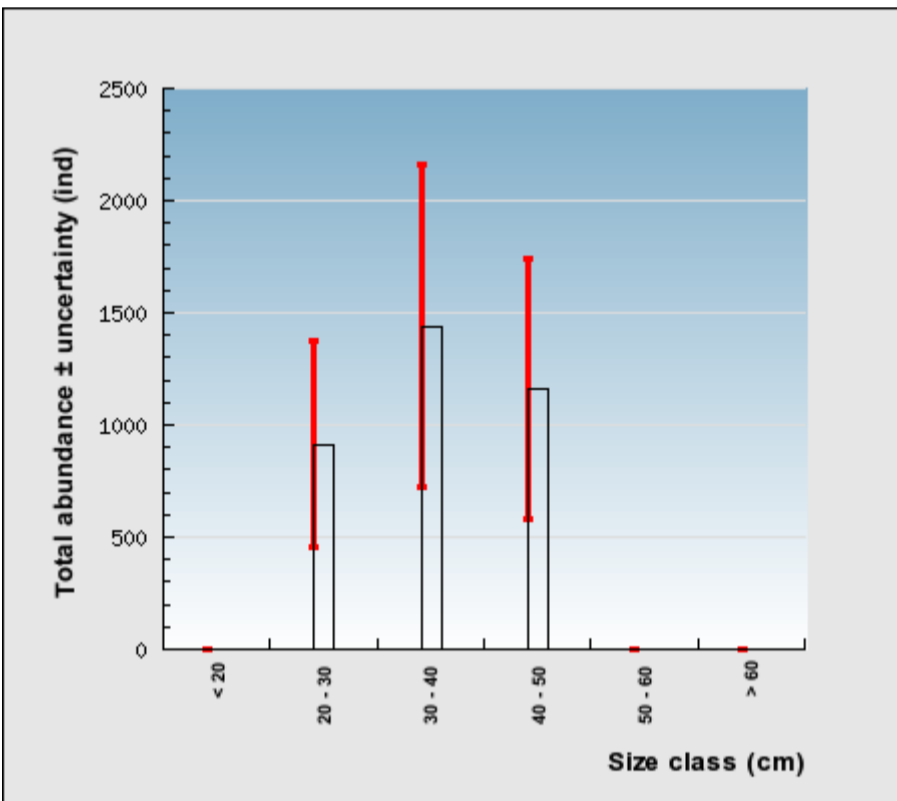
Recommended TAC (Total Allowable Catch, or quota) of legal-sized individuals (300 mm) :

Fresh/wet products	1.288 t
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Salted and gutted products	0.644 t
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Dried products (bêche-de-mer)	0.052 t
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Size structure of the whole stock of Bohadschia argus



Size distribution of observed sea cucumbers (n=17)

