Research Paper Review Form

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II The Information of Research Paper Review

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Paper's File Name	MS-104700061
Journal Title	Marine Science
Paper Title	Size At First Maturity Of Cuttlefish, Sepia Latimanus, From North Sulawesi Waters,
	Indonesia

General comments

The paper addresses the sustainability and conservation of cuttlefish in the context of overexploiting fishery. The authors take samples to determine the size at first maturity of cuttlefish to establish when individuals reach maturity. This is important to set a minimum size at which cuttlefish can be caught to guarantee at least one spawning event before they are caught.

Strengths and weaknesses

The abstract is informative of what has been done in this research paper, however, the results are based on very few data and, considering the stage of maturity of the individuals in the next size class, the conclusions are not convincing. The introduction doesn't provide background on why cuttlefish are vulnerable – terminal intermittent spawners – therefore I would suggest adding information on the reproductive biology and life history traits of this species. I missed references to data obtained by other studies. The results and conclusions are a bit confused and probably would be clearer if presented in two distinct sections. Table 1 is not referred to in the text.

Suggestions for improvement

General suggestions:

Please improve the English language and the writing skills.

Specific suggestions:

1) I suggest giving some more information in the introduction about why cuttlefish are vulnerable. For example you state "low to moderate stock recovery ability from the number caught and high sensitivity to the fishing gear "could you provide references and give an idea of how many individuals are caught and why the stock recovery ability is low? I would suggest you give background information about the reproductive biology of this species. Generally cuttlefish are terminal intermittent spawners and their fecundity is usually quite high. You write generally for cuttlefish "their fecundity is relatively low" if Sepia latimanus has low fecundity could you please provide references for this. What is meant by "high sensitivity to the fishing gear"?

Date: 09 / 08 /2015								
☐ Acceptance		Minor Revision	⊠ M	ajor Revision [Rejection			
☐ Excellent	☐ Ver	y Good	⊠ Good	☐ Fair	☐ Poor			
Final Evaluation								
between 0 to 10	7	7	8	7	6			
Ten-point System Enter a score	Relevance	Originality	Significance	Technical soundness	Clarity of presentation / language			
Paper score								
obtain at least 30-40 samples per month and to carry out statistical analyses.								
10) I suggest to develop an experimental design with a regular sampling frequency throughout the year to								
22.2. 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2								
they die after reproduction and invest all their energy reserves into reproduction rather than body growth once they have reached sexual maturity. Could you please explain why this formula is suitable in this context?								
_	stocks as fish keep on growing after reaching sexual maturity. This generally is not the case in cuttlefish as							
FAO ^[11] ." What is reported by FAO? The growth curve proposed by van Bertalanffy equation is used for fish								
were obtained $L_{\infty} = 55.53$ cm and $K = 0.248$. This length estimation is larger than similar species reported by								
9) "In this study, the asymptotic dorsal mantle length (L_{∞}) and the growth coefficient (K) of Sepia latimanus								
section.								
8) Refer to all tables and figures in the text and revise the explanation of the formula presented in the methods								
7) I would suggest comparing your data to other data obtained by other studies.								
55.53 cm as you indicated in your research.								
range 19.42-26.62 you have 2 immature individuals that are unlikely post spawning if the maximum size is								
6) Are the conclusions of this paper only based on the 2 individuals in size range 13.21-19.41? Also in the size								
this species.								
5) Personally, I think that further samples are necessary to draw any conclusions on the size at first maturity of								
r								
reproductive season of Sepia Latimanus in this area? Why did you choose to collect samples only during this period?								
4) Could you collect further samples? The samples were collected from April to November, is that the								
minimum/maximum size or also for the fecundity in the introduction).								
researchers in the same or other areas where this or other cuttlefish species can be found (for the								
discussion were mixed up and that the concepts of this section were not clearly presented. I would suggest to integrate information from other studies and compare the obtained results with results obtained by other								
3) Could you please improve the readability of the results/discussion? Personally I think that results and the								
2) G 11 1		1.1.22	1. /1.		4 . 1. 14			
about the relationship between fisheries management and life history theory is relevant in this context.								
2) Could you please revise the structure of the introduction and further explain why the concept by Froese								