Fakulta rybářství a ochrany vod
Faculty of Fisheries and Protection of Waters

Jihočeská univerzita v Českých Budějovicích
University of South Bohemia in České Budějovice
Czech Republic

Confidential

Supervisor´s Review of USB RIFCH PhD Thesis

Surname of the PhD student: Prokešová	Name of supervisor: Dipl.-Ing. Vlastimil Stejskal, Ph.D.
Title of PhD thesis: Effect of temperature and light intensity on early development of African sharptooth catfish in commercial production	

OVERALL COMMENTARY ON THE PhD THESIS

Field of intensive culture of African sharptooth catfish with special regard to chosen aspects of early ontogeny belongs to kind of research which is recently developed at Institute of Aquaculture and Protection of Waters in České Budějovice.

Dipl.-Ing Markéta Prokešová started to study Ph.D. level in October 2012. Aims of her work were to elaborate literary background of research focused on African sharptooth catfish culture as well as, to describe technology of intensive catfish culture based on recent knowledge. It is possible to characterize her as hardworking, emphasis and purposeful student. She has shown observation talent and considerable manual laboratory skills during realization of experiments. She improved in use of statistical method and active English language (FCE) during Ph.D. study. In terms of working-ships she worked at University of Warmia and Mazury in Olsztyn, Department of Lake and River Fisheries, Olsztyn, Poland. (Dr. Daniel Żarski, 2 months, effect of various light conditions on food intake, growth and cannibalism in European perch juveniles) and at University Montpellier, Institut des Sciences de l´Evolution Montpellier, France. (Dr. Marc Legendre, 1 month, effect of temperature on the development of Blackchin tilapia farmed in hypersaline conditions).

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Ph.D. thesis presented for defense is consisted from two scientific publications and one methodology. These parts are supplemented by introductory and final comments (discussion). Author included to her Ph.D. thesis experiments focused on effects of water temperature and light intensity on early ontogeny of African sharptooth catfish. These effects were tested with emphasis to survival rate, developmental rate, yolk utilization efficiency and body size. Moreover, methodology focused on intensive rearing of African sharptooth catfish is included in presented thesis.

Activities of Dipl.-Ing Markéta Prokešová mentioned above demonstrated her ability to

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fully orientate in investigation problems, formulate scientific hypotheses, prepare, realize and evaluate experiments, as well as write scientific publications with IF. Results in terms of Ph.D. thesis (see above) were published in scientific papers with corresponding impact factor. Except that, her results were presented on scientific international conferences in both abroad (Aquaculture Europe 2014, Aquaculture Europe 2015) and the Czech Republic (Diversification in Inland Finfish Aquaculture II) and on Ph.D. seminars at the faculty. Dipl.-Ing Markéta Prokešová executed specified exams in planned term and realized all others requirements according to the faculty rules. All presumptions were accomplished for correct finalization of Ph.D. study assessed by internal regulations of FFPW.

Therefore, I can recommend presented Ph.D. thesis „ Effect of temperature and light intensity on early development of African sharptooth catfish in commercial production" for defense with pleasure.

Together, I allow express presumption, that student will have evolved high levels of research in the area of intensive aquaculture in our institution.

FINAL RECOMMENDATION

- ☒ **can be recommended for defence of PhD Thesis**
- ☐ **can be recommended with reservations for defence of PhD Thesis**
- ☐ **can not be recommended for defence of PhD Thesis**

..... Stejskal.....

Date and place surname and signature