

Dr. Iain Stewart
Geoscience Communication
Executive Editor

Dear Dr. Stewart,

Thanks very much for the comments on the article, which are most useful in preparing the revised version. Following the recommendations, title is modified to better reflect the article contents and we have rewritten the abstract and conclusions. The questions addressed in the article are better presented and developed in the discussion and conclusions. The modifications include revising the text, adding and comments on the broad context, addition of a section on geosciences in Mexico, and revision of the article structure/organization.

The museum and outreach, educational and science communication activities are better linked and presented, highlighting their relation to the Chicxulub impact, mass extinction and K/Pg boundary. The Chicxulub complex is in this context unique, devoted to an event representing a turning point in the planet's history with the transition of the Mesozoic and Cenozoic eras. We now rephrased this aspect that has been the overarching theme in the design and planning of the Chicxulub museum, which is better highlighted. The text and figures are revised, adding some parts and condensing and editing others. Figures presenting the museum, aspects of the research complex and laboratories are added, including those on the museum exhibits; we agree that they were need in the manuscript. The revised manuscript takes into consideration the reviewer's comments and suggestions, including the specific comments. These and your editorial comments and recommendations have permitted to improve the manuscript and correct the organization and presentation.

The review comments have been most helpful, we greatly appreciate the reviews and recommendations. Enclosed is the revised manuscript.

Sincerely yours
Jaime, Ligia, Araxi

Editor Decision: Publish subject to minor revisions (further review by **editor) (23 Nov 2020) by [Iain Stewart](#)**

Comments to the Author:

Firstly, apologies for the delay in getting back to you regarding your responses to the three referee reports. I hope it has not caused you inconvenience, though I imagine you are keen to prepare your revised manuscript.

In that regard, I note the generally positive and encouraging comments of all three reviewers, and the carefully considered and specific suggestions that they have to improve the paper. I am gratified that most of these healthy criticisms seem to have been acknowledged in your responses to the reviewers, and it seems clear that your manuscript will be revised around

them. Some of the reviewers have suggested alternative ways to structure the paper and while these seem sensible it is up to you as to what degree you adopt those suggestions. However, I would ask that the revised paper should aim to address the following overarching points:

(1) A more focused title and abstract that better represents the revised content

Title has been modified

(2) A clearer research question, or at least a research spine to the paper, that more clearly addresses the science of asteroid impact.

Research questions added. The relation of the Chicxulub impact and mass extinction to the science museum and what makes the museum unique and connections to Earth system components are addressed.

(3) A broader context that briefly sets the scene of the museum into the wider perspective of other impact crater museums or visitor centres.

The broad context is added and elaborated in more detail, providing the context for the museum and research complex

(4) A more judicious use of figures and images to reduce the number of old and already published images and present new images of the actual exhibitions.

This is added, with figures on the museum and research complex and figures on the exhibits.

I am sure that, from your comments, many of these changes are already in preparation, and on that basis I very much look forward to receiving the revised paper.

Kind regards,

Iain