

## ***Interactive comment on “Built From the Crater Up – Site Museums in Geosciences Communication and Outreach” by Jaime Urrutia Fucugauchi et al.***

**Anonymous Referee #1**

Received and published: 10 May 2020

The manuscript addresses an important topic in science communication – science outreach via geoscience museums. The manuscript describes various activities of the museum and the research center in Yucatan, Mexico built at the place of the Chicxulub asteroid impact. The reading of the manuscript is enjoyable and easy. Meanwhile, the manuscript looks like a written piece of information about the museum and the center, and not as a research article. The paper should be revised to clarify the goal of the study/paper, research questions and methods/approaches, and results obtained.

### General Comments

1. Abstract is rather descriptive and not focused on the goal of the study, main research questions, methods, and results of the study. If the research question was to understand how visitors appreciate science related to an asteroid impact and to other

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related topics such as extinction and emergence of species, climate change and natural hazards, then it should be mentioned in the abstract and clarified in the manuscript.

2. The paper should be more focused on the research done and results obtained rather than on the description of many details related to the museum and the research center.

3. There are a number of technical issues which should be fixed during the manuscript's revision (see below).

### Specific Comments

- Line 18: GeoParks are mentioned in the manuscript in a few places. Do you mean a national geoparks or UNESCO GeoParks? Pls clarify.

- Line 44: Mujtaba et al., 2018 – missing reference

- Line 66: Penfield and Camargo, 1981 – missing reference

- Line 82: Fig. 2 appears at first after Figs. 3-7. The figure numbering should be revised.

- Line 91: “coordinated by Enrique Ortiz Lanz”. It should be clarify whether “Enrique Ortiz Lanz” is the name belonging to a person (then professional affiliation) or to company (then professional specialization). Otherwise, it is unclear why Enrique Ortiz Lanz is mentioned here..

- Line 135: it is mentioned that the Chicxulub asteroid impact structure is one of three large impact structures. Pls name two others.

- Lines 182-183: “(Urrutia-Fucugauchi et al., 2004, 2008, 2011) (Figs. 8, 9)”. It seems that the reference should be to Figs. 5 and 6.

- Line 235-236: How the topics of climate change, sea level rise and space-related hazards are communicated to the public in the museum? Provide some examples or specific approached of the communication. This may help other museums in the

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development of science communication strategies and methods.

- Several publications are included in the Reference List but not referred in the manuscript, namely, Allen (2004), Allen and Gitwill (2004), Dahlstrom (2014), Melosh (1989), Panda and Mohanty (2010), Stevenson (1991), Urrutia-Ficigauchi and Peres-Cruz (2009).

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