

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

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Review of "Built From the Crater Up-Site Museums in Geosciences Communication and Outreach" by UrrutiaFucugauchi et al.

Review by: C. Koeberl, University of Vienna, Austria

The manuscript describes a museum built in Yucatan to give information on the Chicxulub impact structure and event. As such, the text is mostly OK. However, the title of the manuscript promises something different, and more - a discussion of "site museums....". Only one site and only one museum is discussed, namely Chicxulub. Why is there not even any passing mention of, and description of, museums at various other impact sites, such as Meteor Crater (Barringer Crater) in Arizona, USA, the Ries

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Crater museum in Noerdlingen, Germany, the Tswaing crater museum in South Africa, the Steinheim crater museum in Germany, and several others? I think to do the topic justice, at least a short section on comparison with other international museums on similar topics should be included.

A few other short comments:

I am missing any information on when the described museum opened, and where to find any visitor information. If it did not yet open (I think the opening was delayed several times, but hopefully it is open by now??) then this should be mentioned, and an opening date should be given, because otherwise, what is the reader to do with information about an inaccessible museum? (The sad story of the museum/visitor center at Vredefort in South Africa comes to mind).

Chicxulub is often referred to as a "crater" but in the international impact community such large and already modified "craters" are usually called an "impact structure".

Some references are in the list but not in the text and/or vice versa. Some more recent publications resulting from the ICDP-IODP drilling should be included.

Regarding the figures, I think to reproduce many old images (such as the gravity map, or photos and logos from the drilling) could be reduced somewhat, and more photos from the actual exhibitions at the museum be included.

Otherwise I think this is a useful contribution and would recommend acceptance after moderate revision.

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