

SUPPLEMENTARY MATERIAL - DATA REPOSITORY 2011247 (Ferrière et al.)

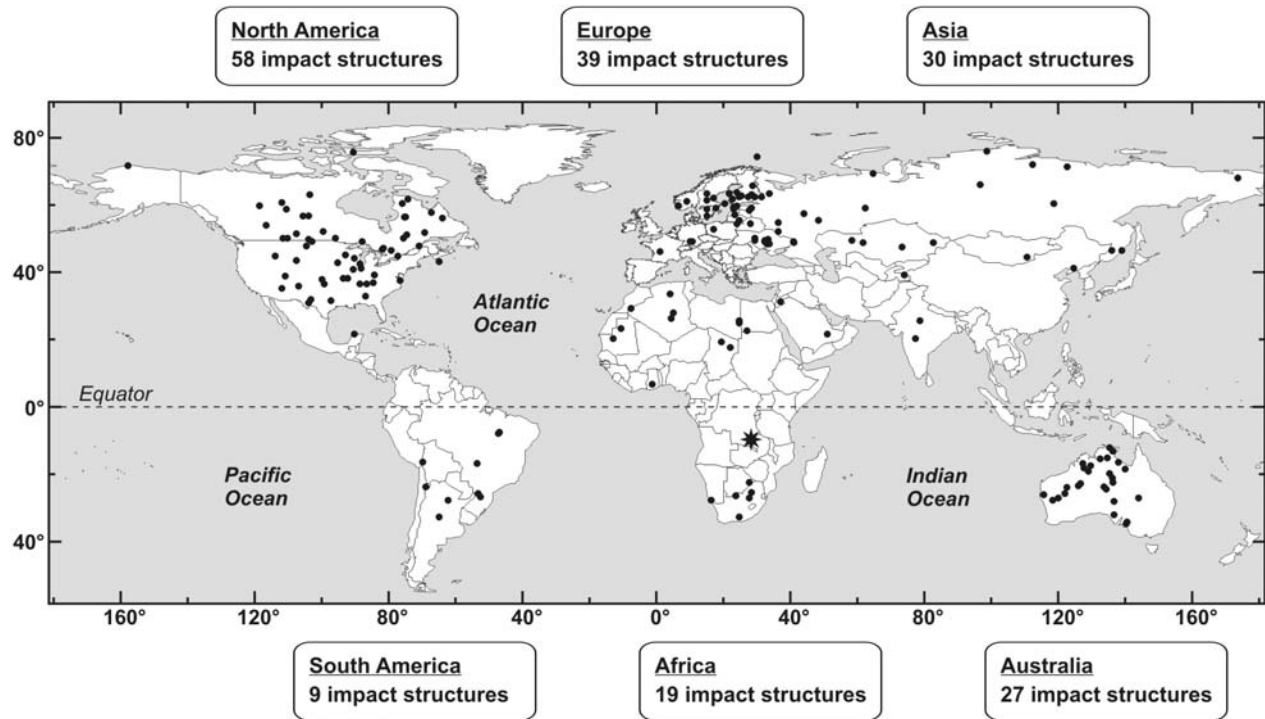


Figure DR1. Distribution map of the 182 confirmed meteorite impact structures on Earth, including the Luizi (this work). Data modified from Earth Impact Database (2010); Calvin crater (Michigan, U.S.A) is not reported as no definite evidence for meteorite impact origin have been founded so far for this structure; Four recently confirmed meteorite impact structures (not included in Earth Impact Database, 2010) are also reported, namely: Carancas (Kenkmann et al., 2009), Matt Wilson (Kenkmann and Poelchau, 2009), Ritland (Kalleson et al., 2010), and Suvasvesi South (Donaldini et al., 2006). The Luizi structure is shown with a large black star.

TABLE DR1. PDF SET ABUNDANCES AND INDEXED PDF CRYSTALLOGRAPHIC ORIENTATIONS IN QUARTZ GRAINS FROM SAMPLES LUI10-09-05 FROM THE LUIZI IMPACT STRUCTURE, AS DETERMINED USING THE U-STAGE

No. of investigated grains	104
No. of measured sets	185
No. of PDF sets/grain (N)	1,78
<u>PDF sets; % relative to total no. of quartz grains examined</u>	
1 set	41
2 sets	44
3 sets	11
4 sets	3
5 sets	1
Total	100
<u>Indexed PDF crystallographic orientations; absolute frequency (%)[*]</u>	
c {0001}	6
{10 $\bar{1}$ 4}	9
{10 $\bar{1}$ 4} // {10 $\bar{1}$ 3} [†]	33
ω {10 $\bar{1}$ 3}	46
π {10 $\bar{1}$ 2}	3
Unindexed	3
Total	100

^{*}Method described in Ferrière et al. (2009).

[†]PDF planes which plot in the overlapping zone between {10 $\bar{1}$ 4} and {10 $\bar{1}$ 3} crystallographic orientations.

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