New Discoveries in the late Neoproterozoic of Iran

Patricia Vickers-Rich¹, Farnoosh Farjandi², Sara Soleimani³, Mehdi Zand⁴, Ulf Linnemann⁵, Mandy Hofmann⁶ & Thomas H. Rich⁷

1. School of EAE, Monash University, Melbourne, Vic 3800, Australia, pat.rich@monash.edu
2. Dept of Geochemical Exploration, Geol Survey of Iran, Tehran, Iran
3. Paleontology Department, Geol Survey of Iran, Tehran, Iran
4. Koushk Mine, Bafq Mining Company, Yazd, Iran
5. Senckenberg Naturhist Samml, Dresden, Geochron, Dresden, Germany
6. Senckenberg Naturhist Samml, Dresden, Geochron, Dresden, Germany
7. Mus Victoria, P. O. Box 666, Melbourne, Victoria, 3001 Australia

During late 2015 new discoveries of Neoproterozoic metazoans were made in the Bafq Region of Central Iran, a joint Iranian-Australian expedition, hosted by the Iranian Geological Survey and the International Geological Program Project IGCP587. Previous to the newly discovered material supposed Vendian/Ediacaran metazoans including Permoria, Beltanella, and forms similar to Dickinsonia, Spriggina and Medusites [1], a medusa imprint - Persimedusites chahgazensis [2], along with Charnia [3], had been reported, but not well documented. Other ediacaran/vendian-aged material was also reported in the Elborz Mountains by [4]. The new material discovered in 2015 both questions the identity of the previously described material and adds new taxa to the list of late Precambrian metazoans previously reported, increasing the biodiversity for this region and reinterpreting other taxa based on these new discoveries.

References

Figure 1. New material from the Bafq region of Iran similar to Persimedusites reported in the past as a medusa imprint.