Conference on Disaster Risk Reduction: European Space Agency.

The IQmulus Consortium (2013). State of the art analysis of the IQmulus Project. http://www.iqmulus.eu [accessed 24 March 2017].

Winter, S. and A.U. Frank (2000). Topology in Raster and Vector Representation, *GeoInformatica*, 4(1): 35–65.

Yang, C., Q. Huang, Z. Li, K. Liu and F. Hu (2017). Big Data and cloud computing: innovation opportunities and challenges, *International Journal of Digital Earth,* 10(1): 13–53.