



Natural Hazards and Disaster Risk Reduction Policies

Loredana Antronico, Fausto Marincioni (Eds.)

Humankind and Risk: a difficult history

Piero Farabollini¹, Francesca Romana Lugeri², Nicola Lugeri³

Abstract

Talking about catastrophes in the Anthropocene Era means tackling a complex and often misunderstood topic, difficult to understand for the general public. On the other hand, a greater and more widespread attention should be given to this theme, especially in relation to natural hazards and risk. The influence of the catastrophe theory does not seem to have sufficiently permeated the interpretive field of the natural sciences, more focused on the traditional systematic approach, antithetical to the systemic and holistic one that characterizes the methodological assumptions of contemporary research on complex systems. This chapter aims to analyze the salient characteristics of the relationship between society and disasters, highlighting those elements that condition social perception of risk as well as risk management. It is important, in our opinion, to focus on the clarity of communication and, above all, on the ability in arousing public interest, to make society aware of the urgent need to change the individual/community/social behavior in a sustainable way, with the aim to prevent natural risks and mitigating their effects.

Keywords: Catastrophe, Prevention, Risk, Society, Communication.

Works Cited

Antronico, L., Coscarelli, R., De Pascale, F., Muto, F., 2017, “Geo-hydrological risk perception: a case study in Calabria (Southern Italy)”, *International Journal of Disaster Risk Reduction*, Elsevier, 25, 301-311, DOI: 10.1016/j.ijdrr.2017.09.022.

Beck, U., 1986, *La società del rischio. Verso una seconda modernità* Carocci, Roma.

Beck, U., 2005, “Se la catastrofe diventa globale”, *La Repubblica*, Translation of Carlo Sandrelli, 10 January 2005, <https://ricerca.repubblica.it/repubblica/archivio/repubblica/2005/01/10/se-la-catastrofe-diventa-globale.html> (Last access: 15/07/2018).

Cardinali, C., Antronico, L., Borselli, L., Brunetti, M.T., Cardinali, M., Fiorucci, F., Iovine, G., Mondini, A., Peruccacci, S., Reichenbach, P., Rossi, M., Guzzetti, F., 2010, “The 2009 L’Aquila

¹ University of Camerino, Italy; e-mail: piero.farabollini@unicam.it.

² ISPRA, Institute for Environmental Protection and Research/University of Camerino, Italy, e-mail: francesca.lugeri@unicam.it.

³ ISPRA, Institute for Environmental Protection and Research, Italy, e-mail: nicola.lugeri@isprambiente.it.



Natural Hazards and Disaster Risk Reduction Policies
Loredana Antronico, Fausto Marincioni (Eds.)

earthquake sequence: technical and scientific activities during the emergency and post-emergency phases”, *Geophysical research abstracts*, Vol. 12, EGU 2010-5135, Copernicus GmbH.

Curi, U., 1988, *La teoria delle catastrofi*, www.emsf.rai.it/interviste (Last Access: 16/06/2018).

De Pascale, F., Bernardo, M., Muto, F., Di Matteo, D., Dattilo, V., 2016, “Resilience and seismic risk perception at school: a geoethical experiment in Aiello Calabro, southern Italy.” *Natural Hazards*, 86 (S2), 569–586. <https://doi.org/10.1007/S11069-016-2696-Z>.

De Pascale. F., 2017, Geoethics and Sustainability Education Through an Open Source CIGIS Application: the Memory of Places Project in Calabria, Southern Italy, as a Case Study. In: Albert M.T. et al. (Eds.), *Going beyond- sustainability in Heritage Studies No 2*, Springer Heritage Studies, 295-306.

Farabollini, P., Lugeri, F.R., Amadio, V., Aldighieri, B., 2014, The role of Earth Sciences and Landscape Approach in the Ethic Geology: Communication and Divulgation for the Prevention and Reduction of Geological Hazards!.. In: Lollino, G., Arattano, M., Giardino, M., Oliveira, R., Peppoloni, S. (Eds.), *Engineering Geology for Society and Territory*, Vol. 7, 115–120, Springer Heidelberg.

Farinetti, G., 1997, *L'isola che brucia*, Marsilio, Venezia.

Fraioli, L., 2005, “Intervista a Roger Yates”, *Il Venerdì di Repubblica*, 14/01/2005.

Fritz C.E., 1961, Disaster. In: Merton R.K., Nisbet R.A. (Eds.), *Contemporary Social Problems*, Harcourt, Brace and World, New York, pp. 651-694.

Gibran, K., 1923, *The Prophet*, Knopf, New York, or. ed. (italian translation of Gian Piero Bona, 1986, Guanda, Parma).

Huizinga, J., 1938, *La crisi della civiltà*, Einaudi, Torino.

Kertzer, D., 1983, “Aspetti politici delle calamità naturali: riflessioni sulla ricerca Americana”, *Laboratorio Politico*, Einaudi, Torino, n. 5, sept.-dec., p. 173.

Lanza, T., 2005, *Catastrofi naturali: Ptsd e comunicazione*, <http://www.psiconline.it> (Last Access: April, 22, 2018).

Lifton, R., 1982, “The psychology of the survivor and the death imprint”, *Psychiatric Annals*, 12, 1, 1001-1020.

Lugeri, F., Farabollini, P., 2015, Science and society: new proposals for unconventional scientific communication. In: Ugolini F., Raschi A., Papageorgiou F. (Eds.), *International Conference Proceedings INVOLEN Innovation in Environmental Education: ICT and intergenerational learning*, IBIMET-CNR, Firenze, 87-93.

Lugeri, F.R., Farabollini, P., Greco, R., Amadio, V., 2015, “The Geological Characterization of Landscape in Major TV Series: A Suggested Approach to Involve the Public in the Geological Heritage Promotion”, *Sustainability* 7(4): 4100-4119. Doi: 10.3390/su7044100.

Lugeri, F.R., Farabollini, P., Amadio, V., Greco, R., 2018, “Unconventional Approach for Prevention of Environmental and Related Social Risks: A Geoethic Mission”, *Geosciences*, 8, 54, 1-19.

Marincioni, F., Fraboni, R., 2012, *A baseline assessment of emergency planning and preparedness in Italian universities*, *Disasters*. 36, 2, 291-315. Doi: 10.1111/j.1467-7717.2011.01259.x.

McGuire, B., 2003, *Guida alla fine del mondo*. Mondadori, Milano.

Ochberg, F.M., 1996, “A primer on covering victims”, *Nieman Reports*, 50, 3, pp. 21-26.

Quarantelli, E.L., Dynes, R.R., 1977, “Response to Social Crisis and Disaster”, *Annual Review of Sociology*, Vol. 3, 23-49, August 1977, <https://doi.org/10.1146/annurev.so.03.080177.000323>.



Natural Hazards and Disaster Risk Reduction Policies
Loredana Antronico, Fausto Marincioni (Eds.)

Thom, R., 1972, *Stabilité structurelle et Morphogénèse. Essai d'une théorie générale des modèles*, Intereditions, Paris.

Thom, R., 1980, *Parabole e catastrofi. Intervista su matematica, scienze e filosofia*, Giulio Giorello and Simona Morini Eds., Il Saggiatore, Milano.

Tito Lucrezio Caro, *De rerum natura*, Alessandro Schiesaro Ed., Einaudi, Torino, 2003.

Tonietti, T., 1983, *Catastrofi. Una controversia scientifica*, Ed. Dedalo, Bari.

Valéry, P., 1933, *L'idea fissa* (italian translation of Valerio Magrelli, Ed., Adelphi, Milano, 2008).

Waddington, C.H., 1968, *Towards a Theoretical Biology*, Edinburgh University Press, Edinburgh, I and IV.