

Fig1. Main Parameters of 12 Types Natural Disasters in Georgia

#	Date	Source time	Ep. coordinates		Magnitude	Max. Intensity	Damage area (sq km)	Natural disaster scale		Comments	Source
	Year month h day	Hour Minut. Secun.	φ°	λ°				Number killed	Economic losses (1000 US \$)		

Fig2. Debris flow intensity scale as an example

Intensity	Volume of disposables maximal solid discharge (million. m ³)	Effect	Description of probable damage and loss
1	≤0.0010	Low	Damage to population and industrial objects is low; economic loss is little
2	0.0011–0.0300	Weak	Damage to population and industrial objects and economic loss are substantial
3	0.0301–0.1000	Average	Population, cultivated areas and motorways are damaged; economic loss is average
4	0.1001–3.0000	Strong	Damage to population, cultivated areas and motorways is significant; economic loss is great
5	>3.0000	Very strong	Causes great damage to population and engineering buildings, also motorways and irrigation systems, sands and annihilates cultivated areas, human lives loss is high, economic loss is extremely great

Fig3. Maps of natural hazards: drought (a); hurricane (b); lightning (c); hail (d); frost (e); fog (f); freezing (g) landslide (h); debris flow (i); snow avalanche (j); flash flood (k) earthquake (l)

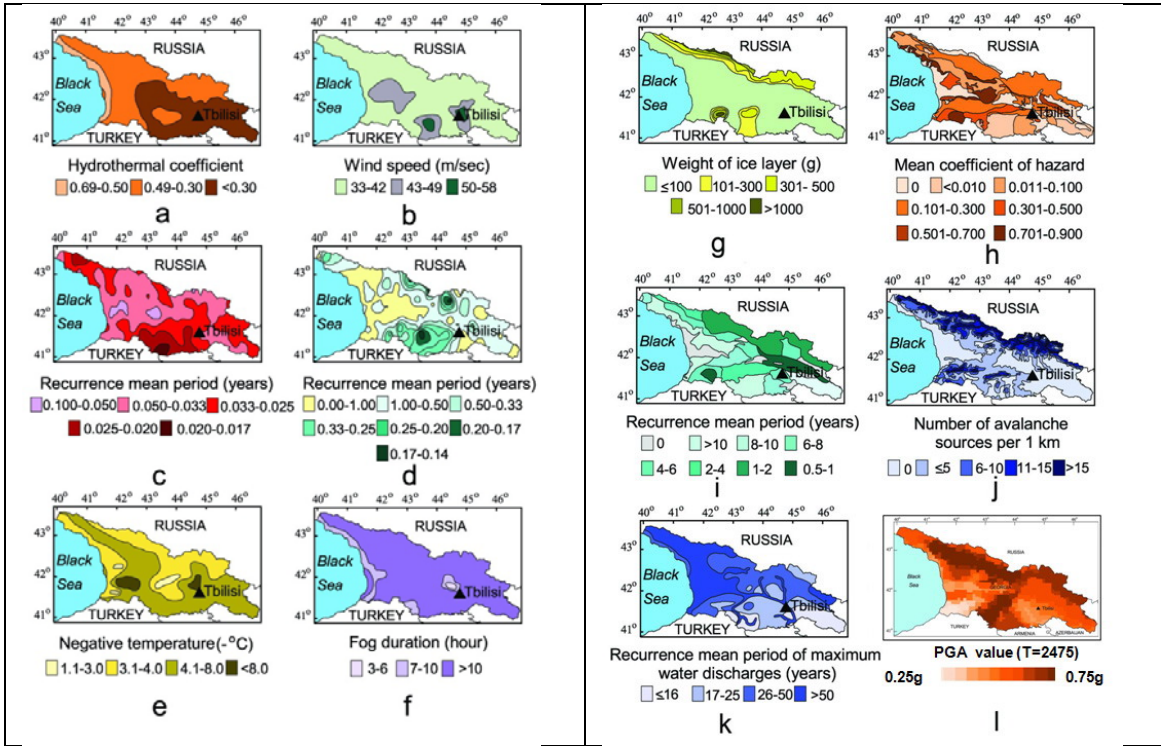


Fig4 . Vulnerability curves for flash flood. Relationship between intensity of flash flood and total economic losses; relationship between flash flood intensity and relative value of economic losses

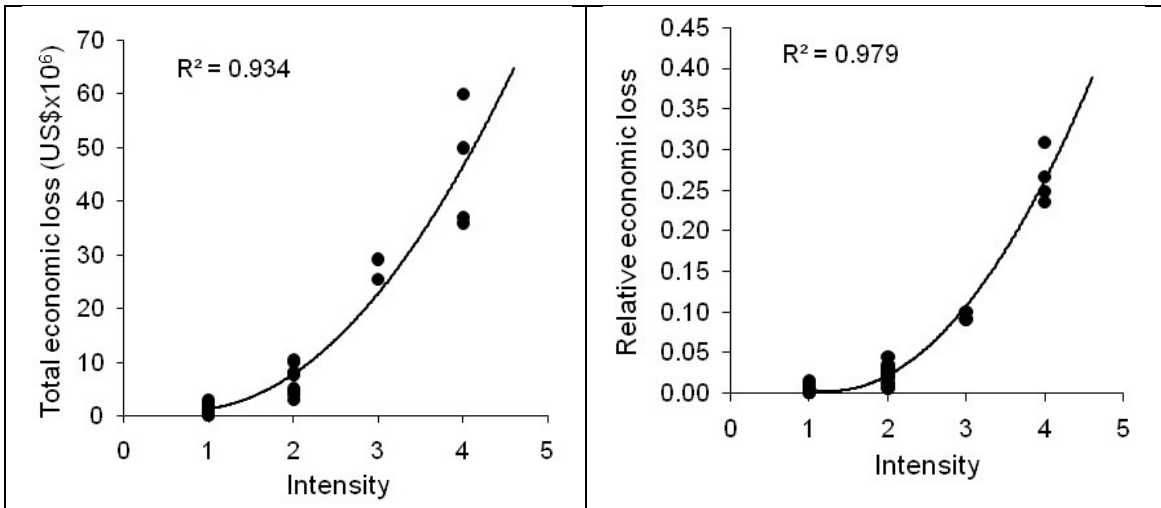


Fig 6. Economic loss risk for selected natural hazards: drought (a); hurricane (b); hail (c); frost (d); flash flood (e); earthquake (f)

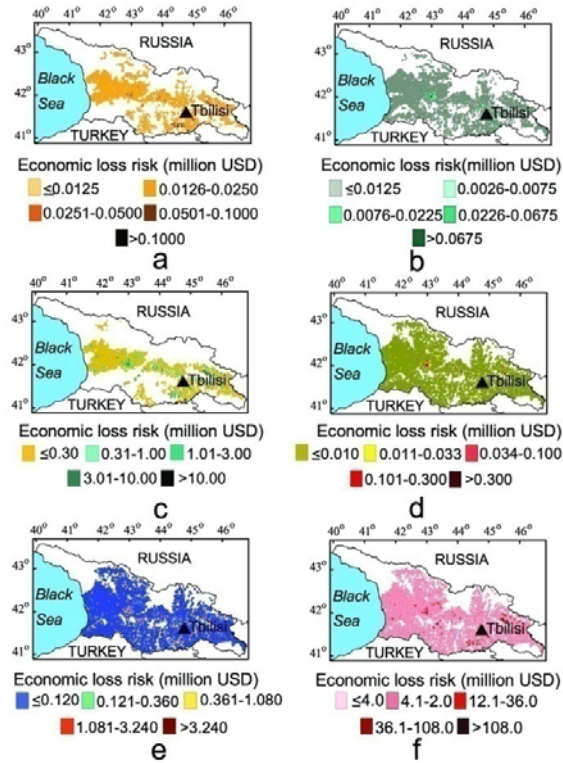
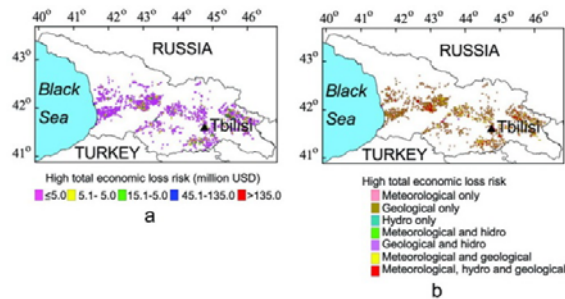


Fig 7. High total multiple economic loss risk in USD for six natural hazards in Georgia (a); high total multiple economic loss risk for six natural hazards (b)



More detail in - Varazanashvili, O., Tsereteli, N., Amiranashvili, A., Tsereteli, E., Elizbarashvili, E., Dolidze, J., Qaldani, L., Saluqvadze, M., Adamia, Sh., Arevadze, N., Gvencadze, A. 2012. Vulnerability, hazards and multiple risk assessment for Georgia. *J. Natural Hazards*. Volume 64, Number 3 (2012), 2021-2056, DOI: 10.10007/s11069-012-0374-3