

Supplementary material

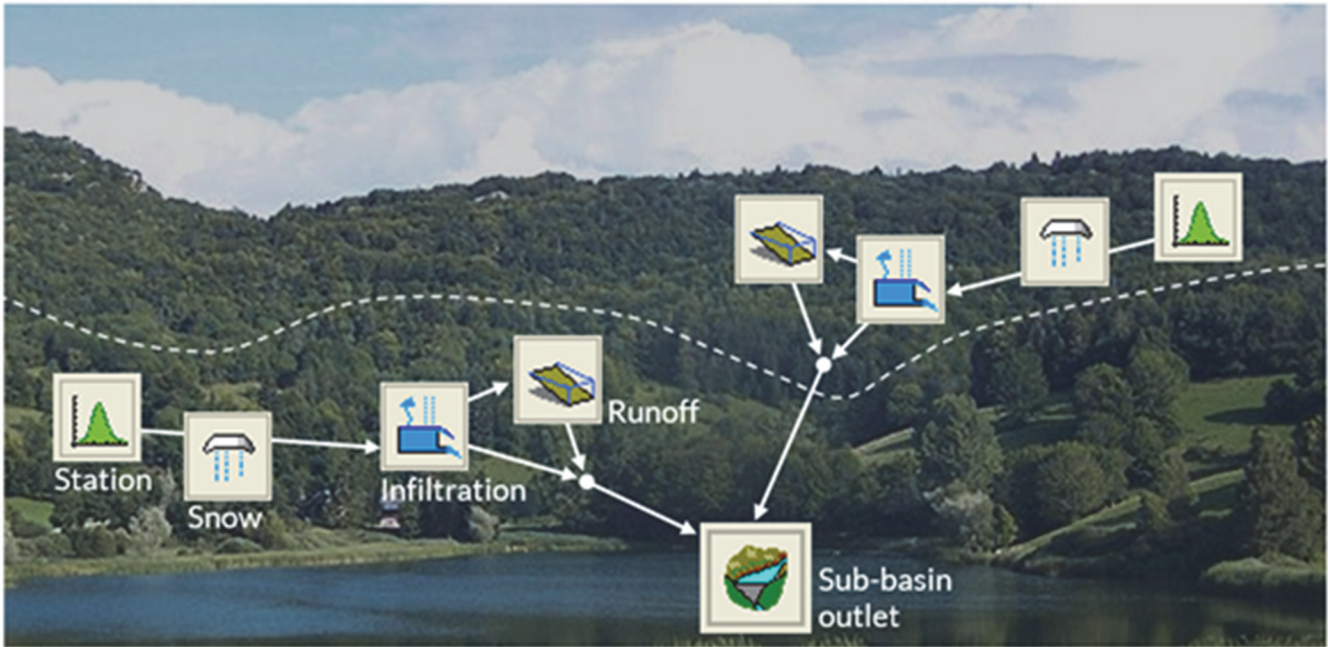
INTERNATIONAL	Media
The New York Times	Majorca Flash Flood Kills at Least 10 https://www.nytimes.com/2018/10/10/world/europe/flash-flood-majorca-spain.html
Al Jazeera	Flash floods in Spain's. Mallorca kill 9, many missing: Two British nationals among the dead as cars are swept away by raging, muddy waters in the Spanish island https://www.aljazeera.com/news/2018/10/flash-floods-spain-mallorca-kill-9-missing-181010100342382.html
EUROPE	
The Telegraph	Majorca floods: Two Britons among eight dead amid 'biblical' scenes https://www.telegraph.co.uk/news/2018/10/09/majorca-flooding-leaves-two-dead-amid-biblical-scenes/
The Guardian	Mallorca floods: at least 10 dead, including British couple https://www.theguardian.com/world/2018/oct/10/uk-couple-reportedly-killed-mallorca-spain-flooding
BBC	Majorca flash flood kills at least 10 on Spanish islands https://www.bbc.com/news/world-europe-45807978
The Sun	A mum is believed to have been killed rescuing her eight-year-old daughter from the floods which ravaged the holiday island of Mallorca last night https://www.thesun.co.uk/news/7456969/majorca-floods-2018-latest-weather-updates-victims-sant-llorenç/
European Flood Awareness System (EFAS)	Flash floods in Mallorca, October 2018 https://www.efas.eu/en/news/flash-floods-mallorca-october-2018
Le Parisien	Inondations à Majorque: au moins neuf morts, Rafael Nadal au secours des sinistrés http://www.leparisien.fr/faits-divers/espagne-inondations-mortelles-a-majorque-10-10-2018-7915314.php
L'indépendant	Inondations à Majorque: le bilan passe à dix morts et un enfant porté disparu, la vidéo d'un sauvetage en pleine rue https://www.lindependant.fr/2018/10/10/majorque-au-moins-cinq-morts-dans-les-inondations.4726940.php
Le Figaro	Inondations à Majorque: bilan alourdi à 13 morts http://www.lefigaro.fr/flash-actu/2018/10/17/97001-20181017FILWWW00220-inondations-a-majorque-bilan-alourdi-a-13-morts.php
Bild	Land unter im Osten Mallorcas https://www.bild.de/news/ausland/news-ausland/unwetter-drama-auf-mallorca-suche-nach-vermissten-laeuft-57758938.bild.html
NATIONAL	
El País	Doce muertos y un niño desaparecido en la tromba de agua de Mallorca https://elpais.com/politica/2018/10/09/actualidad/1539116387_575481.html Las ramblas de Sant Llorenç estaban catalogadas de máximo riesgo de inundación https://elpais.com/politica/2018/10/11/actualidad/1539255702_359602.html Rafael Nadal dona un millón de euros a los afectados por la tormentada de Sant Llorenç https://elpais.com/tag/sant_llorenç_des_cardassar/a/
El Mundo	Al menos 10 muertos en Sant Llorenç y otros puntos de Mallorca por las fuertes lluvias e inundaciones https://www.elmundo.es/baleares/2018/10/09/5bbd0ee4e2704e405b8b4635.html

ABC	Al menos doce muertos en municipios de Mallorca tras las inundaciones por las tormentas https://www.abc.es/sociedad/abci-lluvia-deja-mas-120-litros-agua-mallorca-y-provoca-graves-inundaciones-sant-llorenc-201810092235_noticia.html
REGIONAL	
Última Hora	Graves inundaciones en Sant Llorenç tras desbordarse el torrente https://www.ultimahora.es/noticias/part-forana/2018/10/09/1030853/graves-inundaciones-sant-llorenc-tras-desbordarse-torrente.html
Diario de Mallorca	Las tormentas causan graves inundaciones en Sant Llorenç https://www.diariodemallorca.es/mallorca/2018/10/09/tormentas-causan-graves-inundaciones-sant/1354754.html
Ara Balears	Deu morts pel temporal de pluja a Mallorca https://www.ara.cat/societat/desborda-Sant-Llorenç-arrossega-vehicles_0_2103389890.html
Majorca Daily Bulletin	Hundreds take part in massive clean-up operation in Sant Llorenç https://www.majorcadailybulletin.com/news/local/2018/10/12/53423/hundreds-take-part-massive-clean-operation-sant-llorenc.html

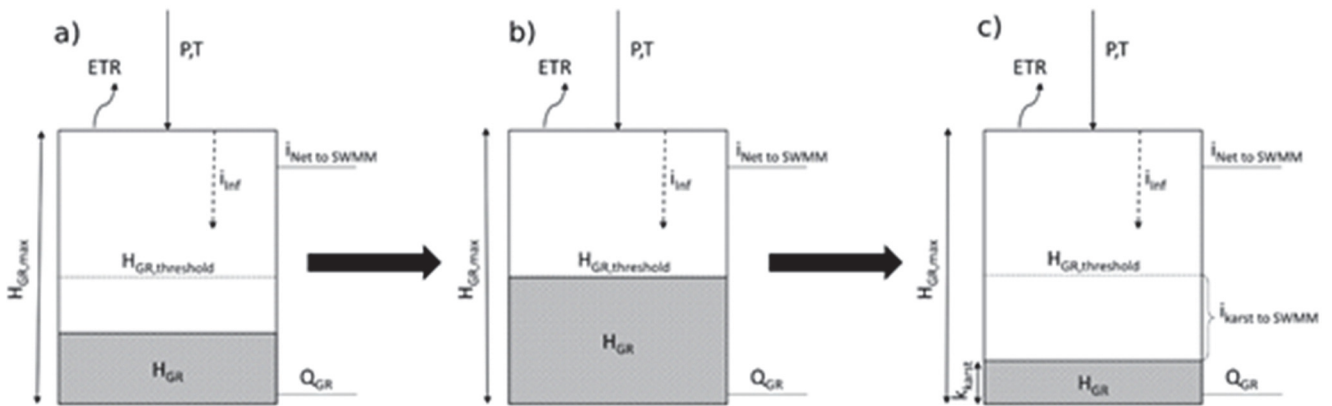
Table S1 Disaster press coverage of the storm occurred in the 9th October 2018 in Mallorca Island.

Damaged items	Case file number	Amount Paid in €
Commercial, stores and others	114	338,045
Industrial	8	12,193
Offices	10	2,762
Cars	887	1,812,312
Dwellings	811	3,227,225
Total	1830	5,392,540

- 5 **Table S2** Compensation payments in the village of Sant Llorenç des Cardassar for damages caused by the flash-flood in 9th October 2018. Source: Insurance Compensation Consortium (CCS, 2018).



10 **Figure S1** Semi-distributed rainfall-runoff modelling with GSM-SOCONT. The sub-basins is divided in two elevation bands in this example.



15 **Figure S2** Schema of the modified infiltration model including a karstic component. Only the relevant parameters are shown.