<u>**Supplementary Materials**</u>

Table S1 Detailed search strings used in the electronic databases

Scopus: 539 papers
(TITLE-ABS-KEY (("flash flood*" OR flood* OR flooding OR rainfall OR precipitation*)) AND TITLE-ABS-KEY (("early warning" OR "warning system*" OR alert* OR "flood warning*" OR forecast* OR "flood forecast*" OR "warning systems")) AND TITLE-ABS-KEY ((risk* OR hazard* OR "flood hazard*" OR "flood risk" OR "flood hazard assessment" OR "flood warning alert")) AND TITLE-ABS-KEY ((communication* OR "public advice*" OR "public awareness*")))
Web of Science: 547 papers
"flash flood*" OR flood* OR flooding OR rainfall OR precipitation* (All Fields) and "early warning" OR "warning system*" OR alert* OR "flood warning*" OR forecast* OR "flood forecast*" OR "warning systems" (All Fields) and risk* OR hazard* OR "flood hazard*" OR "flood risk" OR "flood hazard assessment" OR "flood warning alert" (All Fields) and communication* OR "public advice*" OR "public awareness*" (All Fields)
PubMed: 44 papers
("flash flood*"[All Fields] OR "flood*"[All Fields] OR ("floodings"[All Fields] OR "floods"[MeSH Terms] OR "floods"[All Fields] OR "flood"[All Fields] OR "flooded"[All Fields] OR "implosive therapy"[MeSH Terms] OR ("implosive"[All Fields] AND "therapy"[All Fields]) OR "implosive therapy"[All Fields] OR "flooding"[All Fields]) OR ("rainfall"[All Fields] OR "rainfalls"[All Fields]) OR "precipitation*"[All Fields]) AND ("early warning"[All Fields] OR "warning system*"[All Fields] OR "alert*"[All Fields] OR "flood warning*"[All Fields] OR "forecast*"[All Fields] OR "flood forecast*"[All Fields] OR "warning systems"[All Fields]) AND ("risk*"[All Fields] OR "hazard*"[All Fields] OR "flood hazard*"[All Fields] OR "flood risk"[All Fields] OR "flood hazard assessment"[All Fields] OR (("floodings"[All Fields] OR "floods"[MeSH Terms] OR "floods"[All Fields] OR "flood"[All Fields] OR "flooded"[All Fields] OR "implosive therapy"[MeSH Terms] OR ("implosive"[All Fields] AND "therapy"[All Fields]) OR "implosive therapy"[All Fields] OR "flooding"[All Fields]) AND ("warned"[All Fields] OR "warning"[All Fields] OR "warnings"[All Fields] OR "warns"[All Fields]) AND ("alert"[All Fields] OR "alerted"[All Fields] OR "alerting"[All Fields] OR "alertness"[All Fields] OR "alerts"[All Fields]))) AND ("communication*"[All Fields] OR "public advice*"[All Fields] OR "public awareness*"[All Fields])