

Table S1. Examples of natural hazard damage databases providing information on flood impacts. This list of databases is not exhaustive.

Database	Holder institution	Scope	Scale	Temporal coverage	Recording thresholds	Data sources	Accessibility	Description / reference	URL
AJDA	Administration of the Republic of Slovenia for Civil Protection and Disasters Relief (ACPDR)	National (Slovenia)	National, regional, municipal	2003 - present	Incorporation of damage to crops and property when the level of damage exceeds 0.03% of the national budget	Civil protection offices, environmental agencies, scientific institutions, auditors, insurance companies	No public access	Rudari et al., 2017	-
ADRC	Asian Disaster Reduction Center (ADRC)	Continental (Asia)	National, regional, municipal	1998 – present	Not defined	UN agencies, Reuters and international news agencies (AFP, BBC, CNN), NGOs (IFRC, Catholic Relief Services)	Open access	Tschoegl et al., 2006	http://www.adrc.asia/latest_disaster.php
Canadian Disaster Database	Office of Critical Infrastructure Protection and Emergency Preparedness (OCIPEP)	National (Canada + global regions, where Canadian citizens were involved)	National, regional, municipal	1900 – present	>10 fatalities, >100 people affected, declaration of state of emergency, historical significance, significant damage/interruption	Press media, government, provincial emergency management organizations, municipal government, Insurance Bureau of Canada, NGOs	Open access	Tschoegl et al., 2006	http://cdd.publicsafety.gc.ca/srchpg-eng.aspx?dynamic=false
DesInventar	United Nations Office for Disaster Risk Reduction (UNISDR)	Global	National	1994 - present	Casualties or damage	NGOs, governmental institutions, civil protection agencies	Open access	Rudari et al., 2017	https://www.desinventar.net/DesInventar/main.jsp?countrycode=g15

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Database	Holder institution	Scope	Scale	Temporal coverage	Recording thresholds	Data sources	Accessibility	Description / reference	URL
DSWD-DROMIC	Department of Social Welfare and Development (DSWD), Government of Philippines	National (Philippines)	Regional, municipal, city	2006 - present	Not defined	DSWD field offices, NGOs, media	Open access	Tschoegl et al., 2006	https://dromic.dswd.gov.ph/
EMA Disasters Database	Emergency Management Australia, Australian government	National (Australia)	Administrative regions	1622 – present	≥ 3 fatalities, 20 injured or ill and/or significant damage to property, infrastructure, agriculture or environment	Government, Insurance Council of Australia, emergency service agencies, research bodies, educational institutions, press media	Open access	Tschoegl et al., 2006	https://knowledge.idr.org.au/collectio/ns/australian-disasters/
EM-DAT	CRED, Université Catholique de Louvain, Brussels	Global	National	1900 – present	>10 fatalities, >100 people affected, declaration of state of emergency	UN agencies, government organizations, Red Cross and Red Crescent Societies	Open access	Kron et al., 2012; Rudari et al., 2017	https://www.emdat.be/
Flood Hazard Research Centre (FHRC) damage database	Flood Hazard Research Centre (FHRC), Middlesex University, UK	National	Single element at risk	1977 - present	Not defined	Mainly synthetic data generated by expert judgement; But also empirical data collected from: on-site expert surveys, insurance companies, government, other databases	Access upon payment	Penning-Rowsell et al., 2013	-

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GLIDE	Asian Disaster Reduction Center (ADRC)	Global	National, regional, municipal	1930 – present	Not defined	Official organizations, partners, news, publications	Open access	Tschoegl et al., 2006; Rudari et al., 2017	http://www.glidenuber.net
Global Active Archive of Large Flood Events	Dartmouth Flood Observatory	Global	States, provinces, counties, towns, cities	1985 – present	Large floods	News, government, instrumental, remote sensing	Open Access	Bubeck and Kreibich, 2011; Brakenridge, 2017	http://floodobservatory.colorado.edu/Archives/index.html
HANZE - Historical Analysis of Natural Hazards in Europe	TU Delft, Department of Hydraulic Engineering	Continental (Europe)	Regional (NUTS3)	1870 – 2016	Available statistics on either area flooded, fatalities, persons affected, or monetary damage	Publications and databases	Open access	Paprotny et al., 2018	https://data.4tu.nl/repository/collection:HANZE
MANDISA Database	University of Cape Town (DiMP)	Local (Cape Town Metropolitan Area)	Single element at risk	1990 - 2004	Large-, medium-, and small-sized disasters and incidents	Reports from fire services, disaster management agencies, NGOs	No public access	Tschoegl et al., 2006	-

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NatCatSERVICE	Munich RE	Global	National	1974 – present	Property damage and/or person affected	Lloyd’s, Reuters, reports from clients and branch offices, insurance press	Limited access to public (maps, reports, predefined analyses), extended services to clients	Kron et al., 2012; Rudari et al., 2017	https://natcatservice.munichre.com/
National Hazard Statistics	National Weather Service (NOAA), USA	National	States	1995 – present	Information about fatalities, injuries and/or damages	NOAA’s Storm Data reports	Open access	Tschoegl et al., 2006	http://www.nws.noaa.gov/om/hazstats.shtml
NDCC Database	National Disaster Coordination Council (NDCC)	National (Philippines)	Regional	1990 – present	Not defined	Office of Civil Defense, Office of Social Welfare, local planning development offices, local emergency management offices	Open access	Tschoegl et al., 2006	http://ndrrmc.gov.ph/
ÖBB damage database	Austrian Federal Railways (ÖBB)	National (Austria)	Single element at risk	2000 - present	Railway operation incident, damage to railway infrastructure	ÖBB Natural Hazards Management Department	No public access	Moran et al., 2010; Kellermann et al., 2016	-
SHELDUS	University of South Carolina, USA	National (United States of America)	County, State	1960 – present	Fatalities and/or monetary loss	National Climatic Data Center, National Center on Environmental Information, United States Geological Survey, US Census Bureau, US Bureau of Labor Statistics	Open access by subscription	Rudari et al., 2017; CEMHS, 2018	https://cemhs.asu.edu/sheldus/

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