

# CCHH Climate Change Portal Search Strategy

Current through 09/14/2022

## General Search Terms

### Climate Change terms

- Climate/climatic change
- Climate data
- Climate effects
- Climate-driven
- Climate-health
- Climate-related
- Climate/climatic varia\* (variable, variables, variation etc.)
- Climate/climatic extremes
- Climate/climatic factors
- Global warming

### Climate Change Proxy Terms

- Temperature (air-temperature, ambient-temperature, daily-temperature, extreme-temperature, heatwaves, cold wave/spells...)
- Rainfall/precipitation
- Drought
- Storms (hurricanes, cyclones, typhoons)
- Floods
- Greenhouse Effect
- Wildfires
- Weather or meteorological factors, indicators, variables, and conditions
- Seasonality

### General Disease Terms

- Disease
- Health (human health, public health, mental health and well-being)
- Illness
- Death
- Heat-stress/heat-stroke
- Morbidity
- Mortality
- Nutrition
- Emergency/emergencies (for emergency room visits)
- Hospital\*
- Epidemics
- Infections
- Pregnancy/birth outcome/preterm birth
- Wounds/injuries

- Coronavirus/COVID-19

## Human Terms

- adolescent\*
- boy\*
- child\*
- cohort
- father
- elderly
- girl\*
- human\*
- infant\*
- men
- mother\*
- newborn\*
- paediatric\*/pediatric\*
- participants
- patients
- persons
- people
- women
- victims
- workers
- farmers
- gender

## Exposure Terms

- air pollution
- environmental exposure, environmental pollutant\*
- pesticide\*
- allergens (ambrosia, ragweed, mold, pollen, spores)
- food insecurity/security, food production, food quantity, food scarcity, food supply/system, hunger, malnutrition, undernutrition, nutrition security,
- food AND (bacteria\*, virus\*, toxins, specific types of bacteria like e. coli, food contamination, quality, foodborne)
- water security, insecurity, quantity, scarcity
- water quality, water pollution including algal bloom\*, specific contaminants such as cholera or coliform
- human migration/conflict/displacement/violence

## Special Topic Theme Terms

- Costs (cost\*, economic\*, monetary-impact, valuation, etc.)
- Adaptation/early warnings (acclimatization, adaptation, capacity building, early warning systems, intervention, mitigation, resilienc\*, risk map, migration, relocation, etc.)
- Co-benefits/co-harms of mitigation and adaptation (co-benefit\*, co-harm\*)

- Communication (attitude, communication, literacy, public opinion, perception\*, interview, etc.)
- Equity/justice/vulnerable populations (disparities, equity, inequit\*, inequalit\*, justice, vulnerable population, sociodemographic vulnerability, healthcare access)
- Disaster

## Specific Search Strings: PubMed

There are 3 separate searches run and combined with Boolean OR:

- Disease/health outcome AND climate change/CC proxy terms
- Exposure terms AND climate change/CC proxy terms
- Special topic themes AND climate change/CC proxy terms

Searches are limited to the specified update year and English language publications.

### Disease/health outcome AND climate change/CC proxy terms

((((((((("climate change"[mh] OR climate-change[tiab] OR climatic-change\*[tiab] OR climate-data[tiab] OR climate-effects[tiab] OR climate-varia\*[tiab] OR climatic-varia\*[tiab] OR climate-extremes[tiab] OR climatic-extremes[tiab] OR climate-factors[tiab] OR climatic-factors[tiab] OR climate-driven[tiab] OR climate-health[tiab] OR climate-related[tiab] OR global-warming[tiab]))) AND (("clinical trial"[Publication Type] OR death[mh] OR ("diseases category"[mh] NOT "animal diseases"[MH]) OR Disease[tiab] OR Diseases[tiab] OR "Emergency Medical Services"[mh] OR emergency[tiab] OR emergencies[tiab] OR epidemic\*[tiab] OR epidemiology[sh] OR epidemiologic studies[mh] OR Epidemiolog\*[tiab] OR health[mh] OR health[tiab] OR "Health Status"[mh] OR heat-stress[tiab] OR heat-stroke[tiab] OR "Hospitalization"[mh] OR hospital\*[tiab] OR illness\*[tiab] OR Mortality[mh] OR Mortality[sh] OR mortality[mh] OR Morbidity[mh] OR Pregnancy[mh:noexp] OR birth-outcome\*[tiab] OR preterm-birth[tiab] OR "Public Health"[mh:noexp] OR "wounds and injuries"[mh] OR (coronavirus OR "corona virus" OR coronavirinae OR coronaviridae OR betacoronavirus OR covid19 OR "covid 19" OR nCoV OR "CoV 2" OR CoV2 OR sarscov2 OR 2019nCoV OR "novel CoV" OR "wuhan virus") OR ((wuhan OR hubei OR huanan) AND ("severe acute respiratory" OR pneumonia) AND (outbreak)) OR "Coronavirus"[Mesh] OR "Coronavirus Infections"[Mesh] OR "COVID-19" [Supplementary Concept] OR "severe acute respiratory syndrome coronavirus 2" [Supplementary Concept] OR "Betacoronavirus"[Mesh]))) OR (((((((((((("Cyclonic Storms"[Mesh] OR "Floods"[Mesh] OR "Greenhouse Effect"[Mesh] OR "Rain"[Mesh:noexp]) OR (Temperature[Mesh] NOT "body temperature"[mh]) OR "Fires"[Mesh:noexp]) AND (seasons[mh] OR season\*[tiab] OR meteorological[tiab] OR weather[tiab] OR extreme[tiab] OR variation[tiab]))) OR (((air-temperature\*[tiab] OR ambient-temperature\*[tiab] OR daily-temperature\*[tiab] OR temperature-extreme\*[tiab] OR extreme-heat[tiab] OR extreme-cold[tiab] OR temperature-related[tiab] OR hot-temperature\*[tiab] OR (temperature[tiab] AND variability[tiab]) OR (precipitation[tiab] AND (rain[tiab] OR rainfall[tiab] OR weather[tiab] OR meteorological[tiab])) OR rainfall[tiab] OR flood\*[tiab] OR drought\*[tiab] OR heatwave\*[tiab] OR heat-wave\*[tiab] OR heat-exposure[tiab] OR excessive-heat[tiab] OR heat-related[tiab] OR cold-spell\*[tiab] OR cold-wave\*[tiab] OR meteorological-condition\*[tiab] OR "meteorological data"[tiab] OR meteorological-factor\*[tiab] OR meteorological-indicator\*[tiab] OR meteorological-variable\*[tiab] OR weather-condition\*[tiab] OR weather-factor\*[tiab] OR weather-indicator\*[tiab] OR weather-variable\*[tiab] OR weather-related[tiab]))) AND (((("clinical trial"[Publication Type] OR death[mh] OR (diseases category[mh] NOT

animals diseases[mh]) OR Disease[tiab] OR Diseases[tiab] OR "Emergency Medical Services"[mh] OR emergency[tiab] OR emergencies[tiab] OR epidemic\*[tiab] OR epidemiology[sh] OR epidemiologic studies[mh] OR Epidemiolog\*[tiab] OR health[mh] OR health[tiab] OR "Health Status"[mh] OR heat-stress[tiab] OR heat-stroke[tiab] OR "Hospitalization"[mh] OR hospital\*[tiab] OR illness\*[tiab] OR mortality[mh] OR Mortality[sh] OR morbidity[mh] OR pregnancy[mh:noexp] OR birth-outcome\*[tiab] OR preterm-birth[tiab] OR "Public Health"[mh:noexp] OR "wounds and injuries"[mh] OR (coronavirus OR "corona virus" OR coronavirinae OR coronaviridae OR betacoronavirus OR covid19 OR "covid 19" OR nCoV OR "CoV 2" OR CoV2 OR sarscov2 OR 2019nCoV OR "novel CoV" OR "wuhan virus") OR ((wuhan OR hubei OR huanan) AND ("severe acute respiratory" OR pneumonia) AND (outbreak)) OR "Coronavirus"[Mesh] OR "Coronavirus Infections"[Mesh] OR "COVID-19" [Supplementary Concept] OR "severe acute respiratory syndrome coronavirus 2" [Supplementary Concept] OR "Betacoronavirus"[Mesh]))) OR (((((humans[mh] NOT (archaea[mh] OR bacteria[mh] OR (eukaryote[mh] NOT animals[mh]) OR (animals[mh] NOT humans[mh]))) OR adolescent\*[tiab] OR boy\*[tiab] OR child\*[tiab] OR cohort[tiab] OR father\*[tiab] OR girl\*[tiab] OR human\*[tiab] OR infant\*[tiab] OR men[tiab] OR mother\*[tiab] OR newborn[tiab] OR paediatric\*[tiab] OR patients[tiab] OR participants[tiab] OR pediatric[tiab] OR persons[mh] OR persons[tiab] OR people[tiab] OR women[tiab] OR victims[tiab]))) AND (((("climate change"[mh] OR climate-change[tiab] OR climatic-change\*[tiab] OR climate-data[tiab] OR climate-effects[tiab] OR climate- varia\*[tiab] OR climatic- varia\*[tiab] OR climate-extremes[tiab] OR climatic-extremes[tiab] OR climate-factors[tiab] OR climatic-factors[tiab] OR climate-driven[tiab] OR climate-health[tiab] OR climate-related[tiab] OR global-warming[tiab]))) OR (((((((("Cyclonic Storms"[Mesh] OR "Floods"[Mesh] OR "Greenhouse Effect"[Mesh] OR "Rain"[Mesh:noexp) OR (Temperature[Mesh] NOT "body temperature"[mh]) OR "Fires"[Mesh:noexp) AND (seasons[mh] OR season\*[tiab] OR meteorological[tiab] OR weather[tiab] OR extreme[tiab] OR variation[tiab]))) OR (((air-temperature\*[tiab] OR ambient-temperature\*[tiab] OR daily-temperature\*[tiab] OR temperature-extreme\*[tiab] OR extreme-heat[tiab] OR extreme-cold[tiab] OR temperature-related[tiab] OR hot-temperature\*[tiab] OR (temperature[tiab] AND variability[tiab]) OR (precipitation[tiab] AND (rain[tiab] OR rainfall[tiab] OR weather[tiab] OR meteorological[tiab])) OR rainfall[tiab] OR flood\*[tiab] OR drought\*[tiab] OR heatwave\*[tiab] OR heat-wave\*[tiab] OR heat-exposure[tiab] OR excessive-heat[tiab] OR heat-related[tiab] OR cold-spell\*[tiab] OR cold-wave\*[tiab] OR meteorological-condition\*[tiab] OR "meteorological data"[tiab] OR meteorological-factor\*[tiab] OR meteorological-indicator\*[tiab] OR meteorological-variable\*[tiab] OR weather-condition\*[tiab] OR weather-factor\*[tiab] OR weather-indicator\*[tiab] OR weather-variable\*[tiab] OR weather-related[tiab]))) AND (((humans[mh] NOT (archaea[mh] OR bacteria[mh] OR (eukaryote[mh] NOT animals[mh]) OR (animals[mh] NOT humans[mh]))) OR adolescent\*[tiab] OR boy\*[tiab] OR child\*[tiab] OR cohort[tiab] OR father\*[tiab] OR girl\*[tiab] OR human\*[tiab] OR infant\*[tiab] OR men[tiab] OR mother\*[tiab] OR newborn[tiab] OR paediatric\*[tiab] OR patients[tiab] OR participants[tiab] OR pediatric[tiab] OR persons[mh] OR persons[tiab] OR people[tiab] OR women[tiab] OR victims[tiab])))

## Exposure terms AND climate change/CC proxy terms

((("air pollution"[mh] OR "air pollution"[tiab] OR "air pollutants"[mh] OR air-pollutant\*[tiab] OR "air quality"[tiab] OR "Environmental exposure"[mh] OR environmental-exposure\*[tiab] OR environmental-stressor\*[tiab] OR "Environmental pollutants"[mh] OR "Environmental pollution"[mh] OR occupational-exposure\*[tiab] OR pesticide\*[tiab] OR pollutant\*[tiab] OR pollution[tiab] OR Allergens[mh] OR allergen\*[tiab] OR "Ambrosia"[mh] OR ambrosia[tiab] OR Mold[tiab] OR Pollen[mh] OR pollen\*[tiab] OR Ragweed[tiab] OR spores[tiab] OR sporulation[tiab] OR "food insecurity"[tiab] OR "food production"[tiab] OR "Food quantity"[tiab] OR "Food scarcity"[tiab] OR "Food security"[tiab] OR "food supply"[tiab] OR "Food supply"[mh] OR "food system"[tiab] OR Hunger[mh] OR hunger[tiab] OR

Malnutrition[mh] OR malnutrition[tiab] OR "nutrition security"[tiab] OR undernutrition[tiab] OR ((bacteria[tiab] OR "bacterial toxins"[mh] OR Coliform[tiab] OR cryptosporidium[mh] OR cryptosporidium[tiab] OR cyclospora[mh] OR cyclospora[tiab] OR enterococci[tiab] OR "Escherichia coli"[tiab] OR "e. coli"[tiab] OR "Escherichia coli"[mh] OR Fecal[tiab] OR "food contamination"[mh] OR "food contamination"[tiab] OR "Food quality"[mh] OR Foodborne[tiab] OR "Food-borne"[tiab] OR "foodborne diseases"[mh] OR fungi[mh] OR giardia[tiab] OR listeria[tiab] OR mold[tiab] OR mould[tiab] OR norovirus[tiab] OR parasite\*[tiab] OR pathogen\*[tiab] OR pseudonitzschia[tiab] OR salmonella[tiab] OR shigella[tiab] OR shigella[mh] OR toxoplasma[tiab] OR toxin\*[tiab] OR vibrio[tiab] OR virus[tiab] OR viruses[tiab]) AND (food\*[tiab] OR "food"[mh])) OR "Water insecurity"[tiab] OR "water quantity"[tiab] OR "Water Resources"[mh] OR "water resources"[tiab] OR "water scarcity"[tiab] OR "Water security"[tiab] OR "water stress"[tiab] OR "water supply"[tiab] OR "water supply"[mh] OR algal-bloom\*[tiab] OR anabaena[tiab] OR campylobacter[mh] OR campylobacter[tiab] OR "Vibrio cholerae"[mh] OR cholerae[tiab] OR coliform[tiab] OR cyanobacteria[mh] OR cyanobacteria[tiab] OR fecal[tiab] OR giardia[mh] OR giardia[tiab] OR HAB[tiab] OR "harmful algal bloom"[mh] OR "helicobacter pylori"[mh] OR "helicobacter pylori"[tiab] OR marine-pathogen\*[tiab] OR marine-toxin\*[tiab] OR microsporidia[mh] OR microsporidia[tiab] OR "mycobacterium marinum"[mh] OR "mycobacterium marinum"[tiab] OR Norovirus[mh] OR Norovirus[tiab] OR "red tide"[tiab] OR Vibrio[tiab] OR vulnificus[tiab] OR Water pollutants[mh] OR water-pollutant\*[tiab] OR "Water pollution"[tiab] OR "Water pollution"[mh] OR "Water quality"[mh] OR "water quality"[tiab] OR conflict[tiab] OR displacement[tiab] OR "human migration"[mh] OR relocation[tiab] OR migration[tiab] OR "Population Dynamics"[mh] OR "population movement"[tiab] OR "Residential mobility"[tiab] OR resettlement[tiab] OR "Social Problems"[mh] OR "Social problems"[tiab] OR Violence[mh] OR Violence[tiab])) AND (("climate change"[mh] OR climate-change[tiab] OR climatic-change\*[tiab] OR climate-data[tiab] OR climate-effects[tiab] OR climate-varia\*[tiab] OR climatic-varia\*[tiab] OR climate-extremes[tiab] OR climatic-extremes[tiab] OR climate-factors[tiab] OR climatic-factors[tiab] OR climate-driven[tiab] OR climate-health[tiab] OR climate-related[tiab] OR global-warming[tiab]))

## Special topic themes AND climate change/CC proxy terms

((((((((((("Cyclonic Storms"[Mesh] OR "Floods"[Mesh] OR "Greenhouse Effect"[Mesh] OR "Rain"[Mesh:NoExp]) OR (Temperature[Mesh] NOT "body temperature"[mh]) OR "Fires"[Mesh:NoExp]) AND (seasons[mh] OR season\*[tiab] OR meteorological[tiab] OR weather[tiab] OR extreme[tiab] OR variation[tiab])))))) OR (((air-temperature\*[tiab] OR ambient-temperature\*[tiab] OR daily-temperature\*[tiab] OR temperature-extreme\*[tiab] OR extreme-heat[tiab] OR extreme-cold[tiab] OR temperature-related[tiab] OR hot-temperature\*[tiab] OR (temperature[tiab] AND variability[tiab]) OR (precipitation[tiab] AND (rain[tiab] OR rainfall[tiab] OR weather[tiab] OR meteorological[tiab])) OR rainfall[tiab] OR flood\*[tiab] OR drought\*[tiab] OR heatwave\* [tiab] OR heat-wave\*[tiab] OR heat-exposure[tiab] OR excessive-heat[tiab] OR heat-related[tiab] OR cold-spell\*[tiab] OR cold-wave\*[tiab] OR meteorological-condition\*[tiab] OR "meteorological data"[tiab] OR meteorological-factor\*[tiab] OR meteorological-indicator\*[tiab] OR meteorological-variable\*[tiab] OR weather-condition\*[tiab] OR weather-factor\*[tiab] OR weather-indicator\*[tiab] OR weather-variable\*[tiab] OR weather-related[tiab])))))) OR ("climate change"[mh] OR climate-change[tiab] OR climatic-change\*[tiab] OR climate-data[tiab] OR climate-effects[tiab] OR climate-varia\*[tiab] OR climatic-varia\*[tiab] OR climate-extremes[tiab] OR climatic-extremes[tiab] OR climate-factors[tiab] OR climatic-factors[tiab] OR climate-driven[tiab] OR climate-health[tiab] OR climate-related[tiab] OR global-warming[tiab])) AND (((((((("Costs and Cost Analysis"[mh] OR cost-benefit[tiab] OR cost[tiab] OR costs[tiab] OR economic\*[tiab] OR economics[Sh] OR funding[tiab] OR "Models, Economic"[mh] OR monetary-impact\*[tiab] OR price[tiab] OR valuing[tiab] OR valuation[tiab]))) OR ((Acclimatization[mh] OR

Acclimatization[tiab] OR adaptation[tiab] OR adaptive[tiab] OR "Adaptation, Psychological"[mh] OR "Capacity Building"[mh] OR "capacity-building"[tiab] OR "decision-making"[tiab] OR "early warning system"[tiab] OR "early warning systems"[tiab] OR heat-warning\*[tiab] OR heat-watch\*[tiab] OR "heat-health warning"[tiab] OR "heat-health warnings"[tiab] OR intervention[tiab] OR interventions[tiab] OR mitigate[tiab] OR mitigation[tiab] OR preparedness[tiab] OR "Protective Factors"[mh] OR "protective factors"[tiab] OR "remote sensing"[tiab] OR "resilience, psychological"[mh] OR resilience[tiab] OR resiliency[tiab] OR resilient[tiab] OR "Risk Assessment"[mh] OR "risk assessment"[tiab] OR "risk map"[tiab])) OR ((co-benefit\*[tiab] OR co-harm\*[tiab])) OR (("Attitude"[mh] OR attitude\*[tiab] OR Communication[mh] OR communicat\*[tiab] OR "community participation"[mh] OR "community participation"[tiab] OR "consumer participation"[tiab] OR engagement[tiab] OR "Information Dissemination"[mh] OR literacy[tiab] OR perception[tiab] OR perceptions[tiab] OR "public opinion"[tiab] OR public-awareness[tiab] OR "public opinion"[mh] OR sentiment-analysis[tiab])) OR ((disparities[tiab] OR equity[tiab] OR "Health Status Disparities"[mh] OR inequalit\*[tiab] OR inequit\*[tiab] OR justice[tiab] OR "social justice"[mh] OR "vulnerable populations"[mh] OR vulnerable-population\* [tiab])) OR ((disasters[mh] OR disaster\*[tiab]))

## Specific Search Strings: Web of Science

Searches are limited to the specified update year and English language and then filtered for content type to include articles, letters, books, data papers, editorial materials, proceedings papers, and reviews and to exclude book chapters, book reviews, meeting abstracts, and news.

Set	Search Terms
#1	(TI= ("climat* change*" OR "climat* data" OR "climat* varia*" OR "climat* extreme*" OR "climat* effect*" OR "climat* factor*" OR "climat* driven" OR "climate related" OR "global warming")) AND <b>LANGUAGE:</b> (English) [ <a href="#">climate change</a> ]
#2	(TS= ("air temperature\$" OR "daily temperature\$" OR "ambient temperature\$") NEAR/5 (elevated OR high* OR hot* OR cold* OR varia* OR extreme*)) AND <b>LANGUAGE:</b> (English) [ <a href="#">climate change (CC) proxies</a> ]
#3	(TS= ("hot temperature\$" OR "extreme temperature\$" OR "heat wave\$" OR "heatwave\$" OR "heat exposure" OR "heat related" OR "excessive heat" OR "cold wave*" OR "coldwave\$" OR "cold spell\$" OR "coldspell\$" OR "temperature-related")) AND <b>LANGUAGE:</b> (English) [ <a href="#">CC proxies</a> ]
#4	(TS= (Extreme near/5 (temperature OR heat OR cold OR weather OR humidity OR moisture OR precipitation OR rain* OR storm*))) AND <b>LANGUAGE:</b> (English) [ <a href="#">CC proxies</a> ]
#5	(TI= ((Variation OR season*) near/5 (temperature OR heat OR cold OR weather OR humidity OR moisture OR precipitation OR rain* OR storm*))) AND <b>LANGUAGE:</b> (English) [ <a href="#">CC proxies</a> ]
#6	(TI= (flood* OR drought* OR "greenhouse effect" OR "sea level rise" OR "storm surge" OR "wildfire*" OR "forest fire\$")) AND <b>LANGUAGE:</b> (English) [ <a href="#">CC proxies</a> ]
#7	(TI= ("meteorological condition\$" OR "meteorological data" OR "meteorological factor\$*" OR "meteorological-indicator\$" OR "meteorological-variable\$" OR "weather-condition\$" OR "weather-factor\$" OR "weather-indicator\$" OR "weather-variable\$" OR "weather-related")) AND <b>LANGUAGE:</b> (English) [ <a href="#">CC proxies</a> ]
#8	#7 OR #6 OR #5 OR #4 OR #3 OR #2 [ <a href="#">CC proxies</a> ]

Set	Search Terms
#9	(TS= (death OR disease* OR Communicable OR “Non-Communicable Disease” OR emergency OR emergencies OR epidemic* OR Epidemiolog* OR health OR “heat stress” OR "heat stroke*" OR heatstroke OR hospital* OR illness* OR infection* OR morbidity OR (mortality near/5 health) OR (nutritional near/5 status) OR malnutrition OR dehydration OR Pregnancy OR “birth-outcome*” OR “preterm-birth*” OR “preterm deliver*” OR "early delivery" OR injury OR injuries OR well-being OR wellbeing OR “mental disorder”)) AND <b>LANGUAGE:</b> (English) [health]
#10	(TS= (adolescen* OR boys OR child* OR father* OR elderly OR girls OR infant* OR men OR mother* OR newborn* OR p\$ediatric* OR participant* OR patient* OR person\$ OR people* OR women OR victim* OR worker)) AND <b>LANGUAGE:</b> (English) [humans]
#11	#10 OR #9 [health or humans]
#12	#11 AND #1 [(health or humans) AND CC]
#13	#11 AND #8 [(health or humans) AND CC proxies]
#14	#13 OR #12 [(health or humans) AND CC proxies] OR [(health or humans) AND CC]
#15	#8 OR #1 [CC proxies OR CC]
#16	(TI= (cost\$ OR economic\$ OR funding OR monetary-impact\$ OR price OR valuing OR valuation)) AND <b>LANGUAGE:</b> (English)
#17	#16 AND #15
#18	(TI=(Acclimatization OR adaptation OR adaptive OR capacity-building OR decision making OR early warning system OR heat-warning* OR heat-watch* OR heat-health warning* OR intervention* OR mitigate OR mitigation OR preparedness OR protective factors OR resilienc* OR risk assessment OR risk map)) AND <b>LANGUAGE:</b> (English)
#19	#18 AND #15
#20	(TS= (co-benefit\$ OR co-harm\$)) AND <b>LANGUAGE:</b> (English)
#21	#20 AND #15
#22	(TI= (communicat* OR “community participation” OR “consumer participation” OR (Information near/5 Disseminat*)) AND <b>LANGUAGE:</b> (English)
#23	#22 AND #15
#24	(TS=((disparities OR equity OR inequalit* OR inequit* OR justice) NEAR/5 (environment* OR health)) OR TS=(“vulnerable population\$”)) AND <b>LANGUAGE:</b> (English)
#25	#24 AND #15
#26	(TS= ("disaster prep*" OR "disaster plan*" OR "disaster risk*" OR "disaster management" OR "disaster warning" OR "disaster response" OR "disaster mitigation")) AND <b>LANGUAGE:</b> (English)
#27	#26 AND #15
#28	#27 OR #25 OR #23 OR #21 OR #19 OR #17



Set	Search Terms
#29	(TI= ("air pollution" OR "air-pollutant*" OR "air quality") AND (TS= ("climat* change*" OR "climat* data" OR "climat* varia*" OR "climat* extreme*" OR "climat* effect*" OR "climat* factor*" OR "climat* driven" OR "climate related" OR "global warming") OR TS= ("hot temperature\$" OR "extreme temperature\$" OR "heat wave\$" OR "heatwave\$" OR "heat exposure" OR "heat related" OR "excessive heat" OR "cold wave*" OR "coldwave\$" OR "cold spell\$" OR "coldspell\$" OR "temperature-related") OR TS= (("air temperature\$" OR "daily temperature\$" OR "ambient temperature\$") NEAR/5 (elevated OR high* OR hot* OR cold* OR varia* OR extreme*)) OR TS= (Extreme near/5 (temperature OR heat OR cold OR weather OR humidity OR moisture OR precipitation OR rain* OR storm*)))) AND <b>LANGUAGE:</b> (English)
#30	(#15 AND TS=("occupational exposure")) AND <b>LANGUAGE:</b> (English)
#31	(TI= (Food NEAR/5 (insecurity OR production OR quantity OR quality OR scarcity OR security OR supply OR system)) OR TI= ((*nutrition* OR hunger))) AND <b>LANGUAGE:</b> (English)
#32	#31 AND #15
#33	(TI= (water NEAR/5 (insecurity OR quantity OR scarcity OR security OR supply OR resources OR quality OR pollution))) AND <b>LANGUAGE:</b> (English)
#34	#33 AND #15
#35	(TI= ("algal bloom*" OR anabaena OR campylobacter OR campylobacter OR "Vibrio cholerae" OR cholera OR coliform OR cyanobacteria OR giardia OR HAB OR "helicobacter pylori" OR "marine-pathogen*" OR "marine toxin*" OR microsporidia OR "mycobacterium marinum" OR Norovirus OR "red tide" OR Vibrio OR vulnificus)) AND <b>LANGUAGE:</b> (English)
#36	#35 AND #15
#37	(TS= ((conflict OR displacement OR migration OR relocation OR migration OR "Residential mobility" OR resettlement OR Violence) NEAR/3 human\$)) AND <b>LANGUAGE:</b> (English)
#38	#37 AND #15
#39	#38 OR #36 OR #34 OR #32 OR #30 OR #29
#40	#39 OR #28 OR #14

## Grey Literature Search

Targeted grey literature searches are conducted in Google (limited to filetype:pdf, domain:.gov) and the websites of GlobalChange.gov, the World Health Organization, the National Library of Medicine's Disaster Information Management Resource Center, and the Intergovernmental Panel on Climate Change using simplified key search terms (e.g., ["climate change" OR "global warming"] AND health).

### Specific Steps

General Search Strategy: search ("health" OR "disease") AND climate change Depending on the website, you can also use the terms: climate variability OR global warming OR extreme weather OR extreme temperature OR extreme heat OR heatwave etc.



1. Start with a Google gov doc search: "climate change" filetype:pdf domain:.gov. This can be customized to capture health-related documents that include broader search terms and be date-limited to the extent possible. Search up to the first 200 most relevant results.
2. Then search the websites of:
  - GlobalChange.gov
  - Intergovernmental Panel on Climate Change
  - World Health Organization
  - Disaster Information Management Resource Center (NLM)
3. For each search, export results into Excel and document search specifics including date search run, website searched, search terms/strategy, numbers of results.

**GlobalChange.gov:**

- Filter the reports library (<http://www.globalchange.gov/browse/reports>) by date.

**Google:**

- (("climate change" OR "global warming") AND (health OR disease)) filetype:pdf site:.gov
- ("climate change" OR "global warming") filetype:pdf site:epa.gov
- ("climate change" OR "global warming") filetype:pdf site:cdc.gov
- Limit for date

**IPCC:** Review all reports from (<https://www.ipcc.ch/reports/>) and limit by date.

**WHO:** Search for Subject "Climate Change" or Subject "Climate change" or Subject "Global Warming", sorted descending by pub date.

**NLM Disaster Lit:** Search for "climate change" and filter for Publication Year and Publication Type: Report.