

Criteria for the search process

- 1) Articles published in peer-reviewed and scientific journals written in English
- 2) Articles reported on NBSs in terms of hydro-meteorological risk reduction (Table 2)
- 3) Articles published from 2007 to 2019

Sourcing articles from Scopus
(n=1608)

Sourcing articles from Web of Science
(n=1431)

Combining articles from both databases
(n=3089)

Identifying and removing duplicated articles
(n=1650)

Criteria for the selection process

- 1) To assess the state of the art in research concerning both small- and large-scale NBSs for hydro-meteorological risk reduction
- 2) To review the use of techniques, methods and tools for planning, selecting, evaluating and implementing NBSs for hydro-meteorological risk reduction
- 3) To review the socio-economic influence in the implementation of NBSs for hydro-meteorological risk reduction as well as their co-benefits, effectiveness and costs

Screening articles based on titles and keywords
(n=1439)

Articles excluded after screening
(n=1006)

Reason: no relevant words of search terms

Evaluating articles based on reading abstracts
(n=433)

Articles excluded after evaluation
(n=228)

Reason: focus more on other problems than risk

Articles which had full review
(n=205)

Articles excluded after full review
(n=59)

Reason: do not meet the objectives of the review

Articles included in the review
(n=146)

Identify knowledge gaps and propose future research prospects