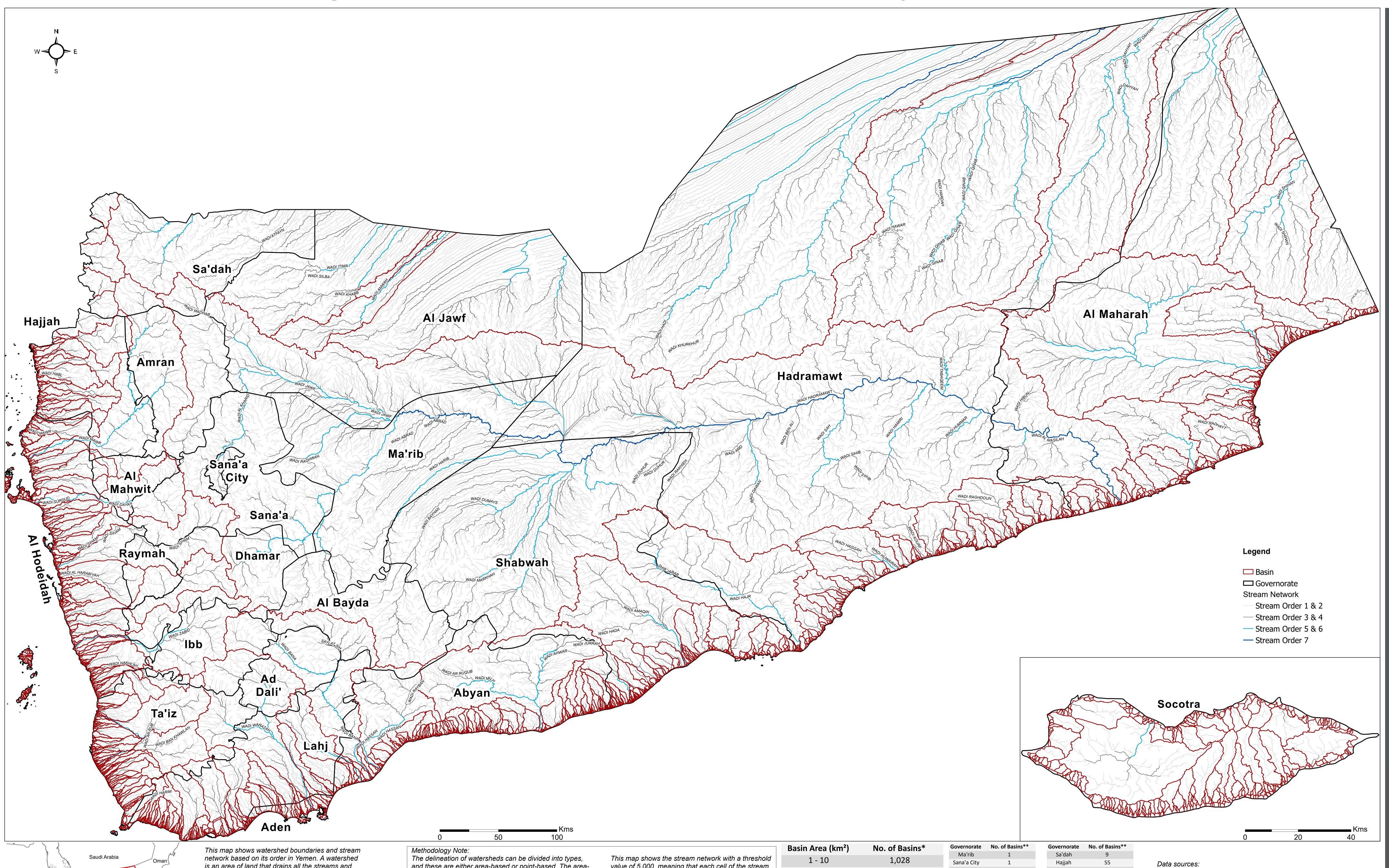
Intended for Exploratory Purposes Version 1 Production date: 10 May 2020



value of 5,000, meaning that each cell of the stream

Stream ordering is a method of assigning a numeric

order to links in a stream network. This order is used

for identifying and classifying types of streams based

on their number of tributaries. The Strahler method

was used to assign orders where the stream order

increases when streams of the same order intersect.

network has at least 5,000 cells flowing into it.

10.01 - 100

100.01 - 1,000

1,000.01 - 10,000

10,000.01 - 138,292

* Only basins of an area larger than or equal 1 km² and

intersected with Yemen boundaries took into consideration. ** Count of basins intersected with governorate boundaries.

Ad Dali'

Raymah

Amran

Sana'a

Al Bayda

Al Mahwit

Shabwah

Hadramawt

Al Maharah

141

193

242

339

134

and these are either area-based or point-based. The area-

based method was used in this analysis to divide Yemen

into a series of watersheds, one for each stream section.

ArcGIS Pro was used to process and develop NASADEM

(Improved Digital Elevation Model with 30m spatial resolution)

as well as extract flow direction, flow accumulation, drainage

basins, and stream network. The derivation of the stream

network is based on a threshold accumulation value.

is an area of land that drains all the streams and

rainfall to a common outlet such as the outflow of

stream channel. Watersheds can be as small as a

footprint or large enough to encompass all the land

File: REACH_YEM_Map_Watershed_National_10May2020_A0_EN_V1 Contact: reach.mapping@impact-initiatives.org

a reservoir, mouth of a bay, or any point along a

that drains water into rivers.

Coordinate System: GCS WGS 1984

DEM: NASA JPL (2020). NASADEM Merged DEM Global 1 arc second

River(Wadi) Names: DIVA-GIS (http://www.diva-gis.org/) and HOTOSM

Note: Data, designations and boundaries contained on this map are

not warranted to be error-free and do not imply acceptance by the

REACH partners, associated, donors mentioned on this map.

V001 [Data set]. NASA EOSDIS Land Processes DAAC.

Resolution: 1 arc second (30m)

Administrative boundaries: OCHA