Extreme rainfall can induce massive floods

In 2000, heavy rainfall from four tropical cyclones in Mozambique. A massive flood wave resulted, causing record flooding. Poor early warning systems resulted in heavy loss of life and property.
The Challenge:
To map floods with existing global elevation data

Old GTOPO30 Data
(global coverage)

New SRTM Data
(global coverage)

Local LIDAR Data
(very limited coverage)

Local Channel Sections

Regional Channel Sections
Simulating Floods with Remotely Sensed Data