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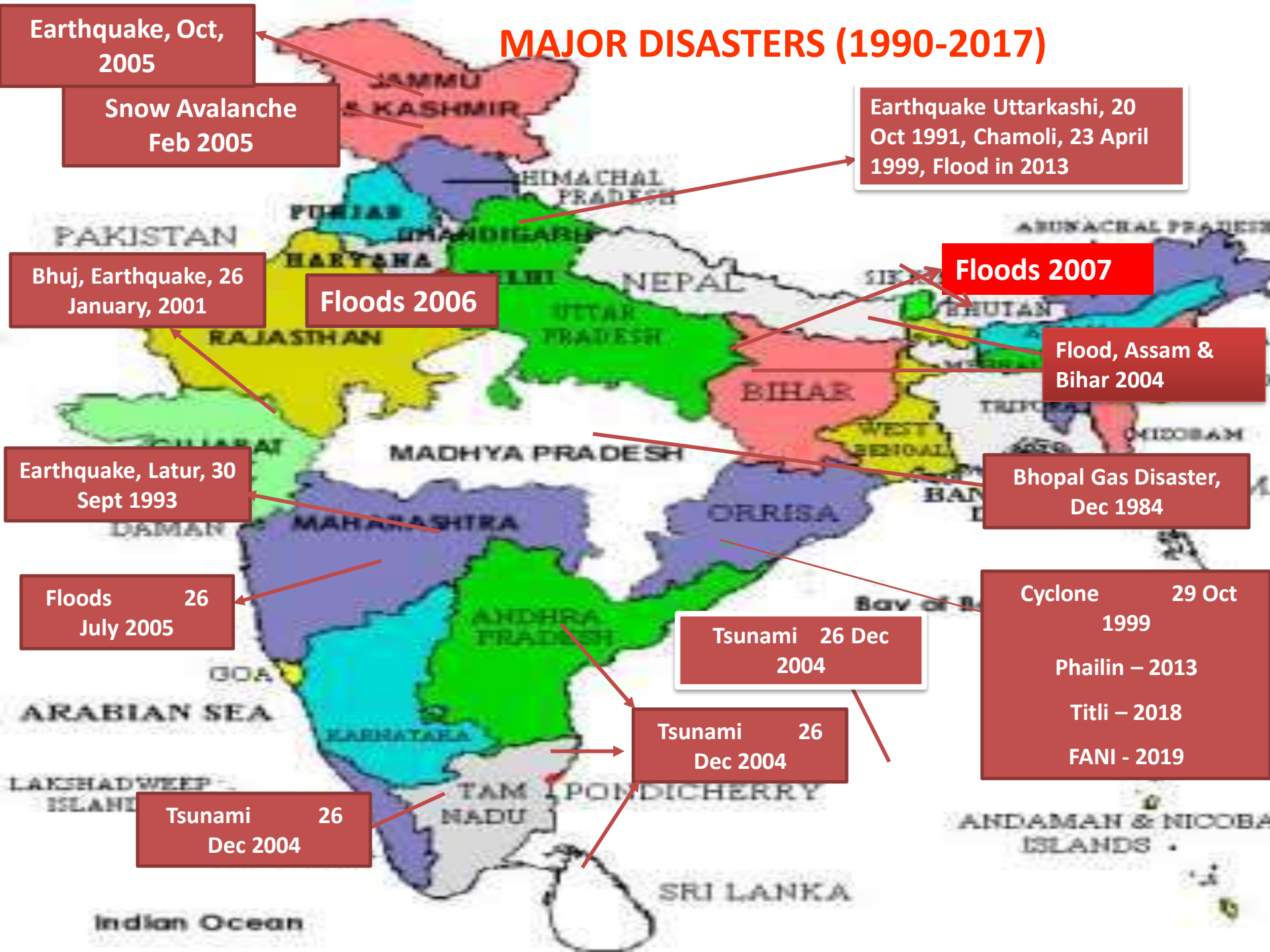
History of Disasters

Learn from the Past Events/Experiences

Utilize the knowledge at present

Get prepared for the Future

MAJOR DISASTERS (1990-2017)



Earthquake, Oct, 2005

Snow Avalanche
Feb 2005

Earthquake Uttarkashi, 20 Oct 1991, Chamoli, 23 April 1999, Flood in 2013

Bhuj, Earthquake, 26 January, 2001

Floods 2006

Floods 2007

Flood, Assam & Bihar 2004

Bhopal Gas Disaster, Dec 1984

Earthquake, Latur, 30 Sept 1993

Floods 26 July 2005

Tsunami 26 Dec 2004

Cyclone 29 Oct 1999
Phailin – 2013
Titli – 2018
FANI - 2019

Tsunami 26 Dec 2004

Tsunami 26 Dec 2004



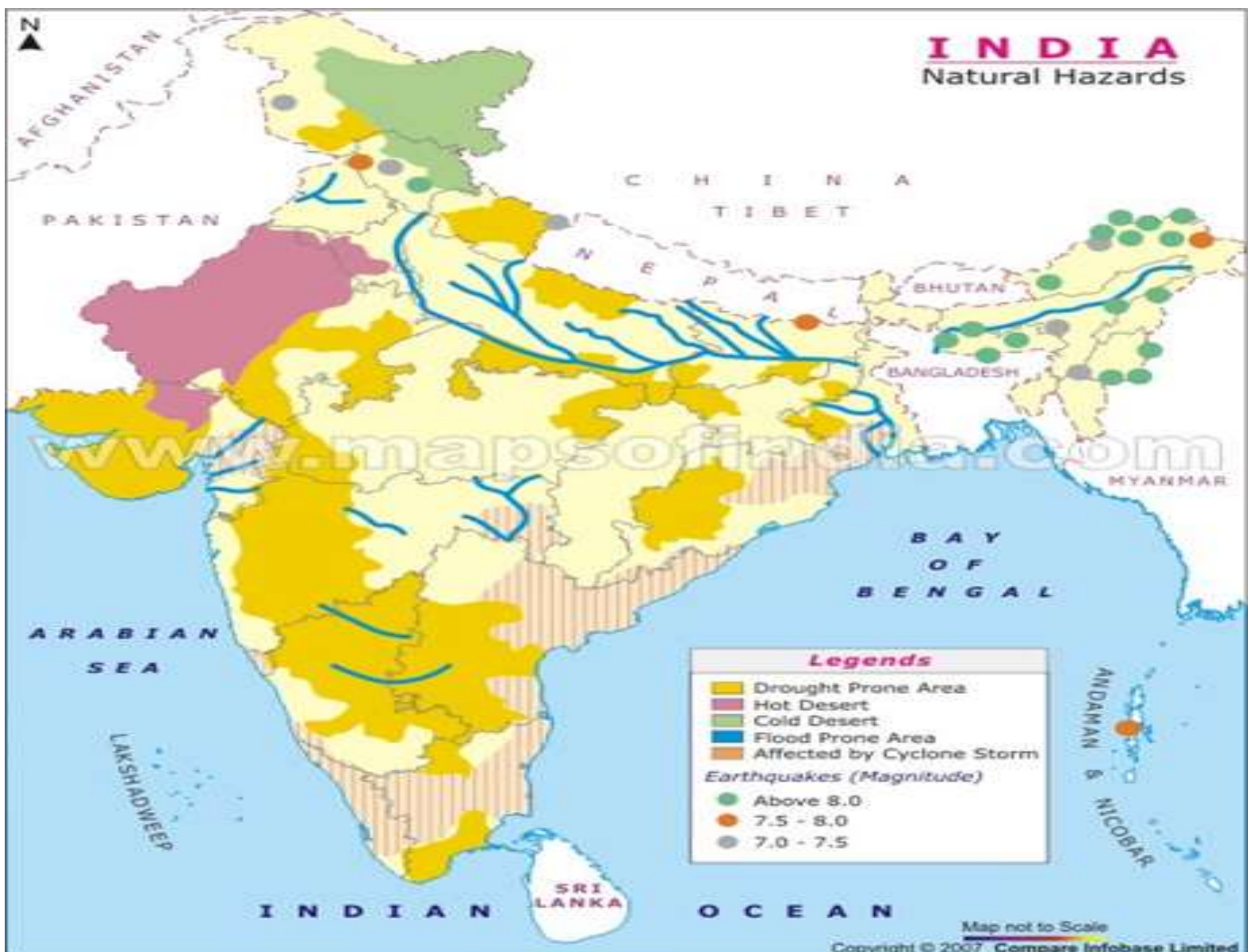
Major Disasters in Known History of India

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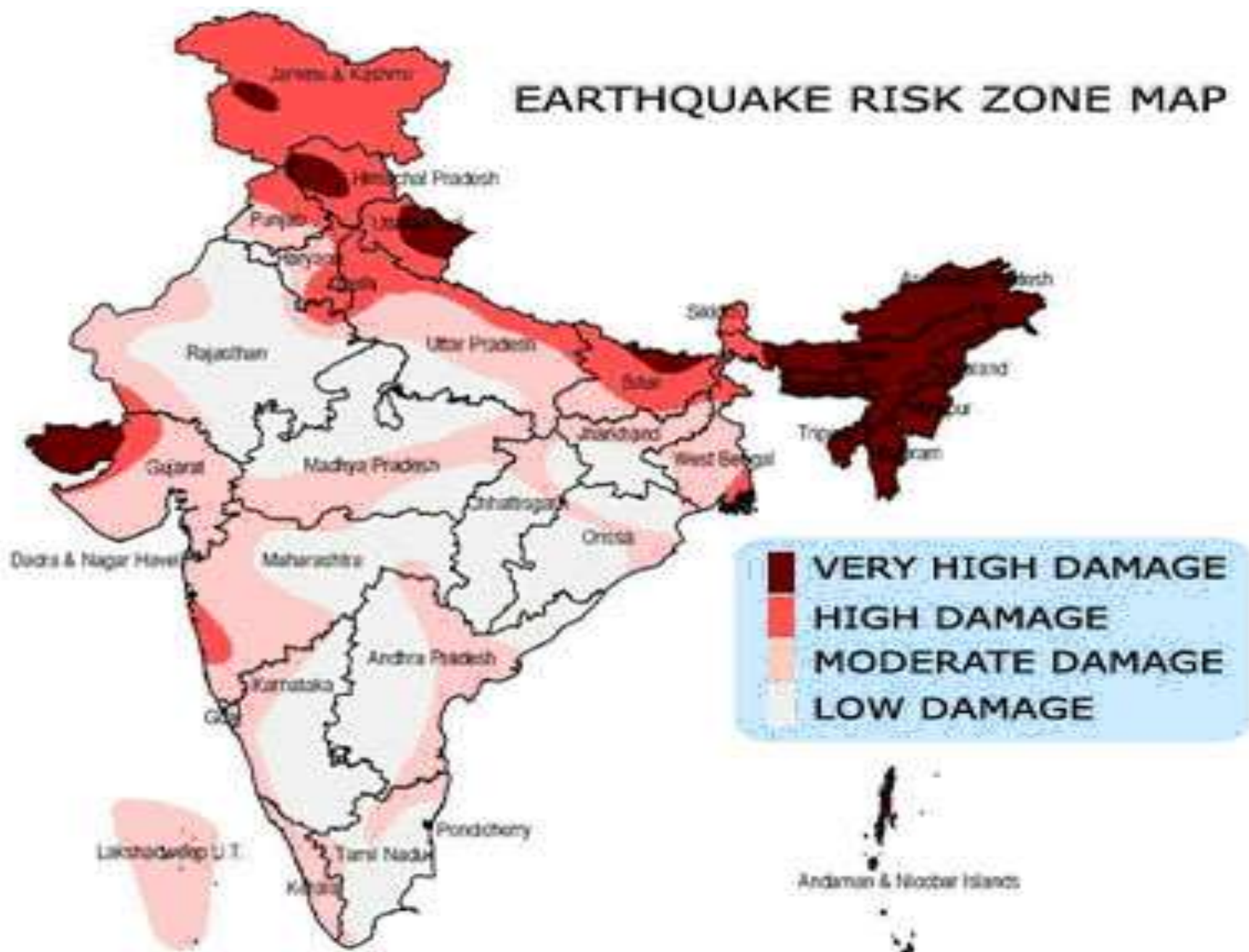
NO.	Name of Event	Year	Fatalities
1.	Bengal Earthquake	1737	300,000
2.	Bengal Cyclone	1864	60,000
3.	The Great Famine of Southern India	1876-1878	5.5 million
4.	Maharashtra Cyclone	1882	100,000
5.	The Great Indian famine	1896-1897	1.25 million to 10 million
6.	Bihar Earthquake	1934	6,000
7.	Bengal Cyclone	1970	500,000 (include Pakistan & Bangladesh)
8.	Drought	1972	200 million people affected
9.	Andhra Pradesh Cyclone	1977	10,000
10.	Latur Earthquake	1993	7,928 death and 30,000 injured
11.	Orissa Super Cyclone	1999	10,000
12.	Gujarat Earthquake	2001	25,000
13.	Indian Ocean Tsunami	2004	10,749 deaths 5,640 persons missing
14.	Kashmir Earthquake	2005	86000 deaths (include Kashmir & Pakistan)

INDIA

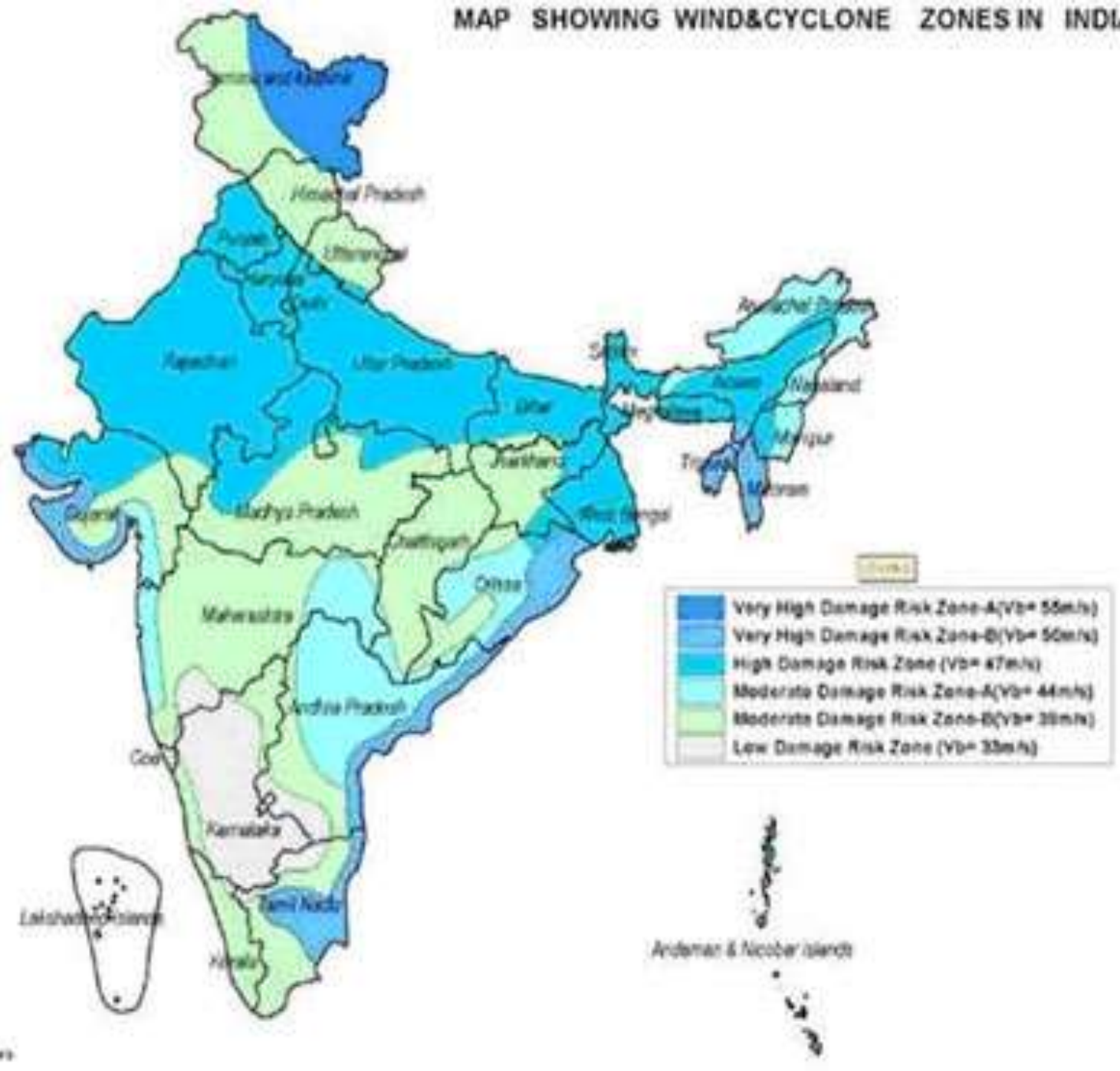
Natural Hazards



EARTHQUAKE RISK ZONE MAP



MAP SHOWING WIND & CYCLONE ZONES IN INDIA



0 100 200 Kilometers



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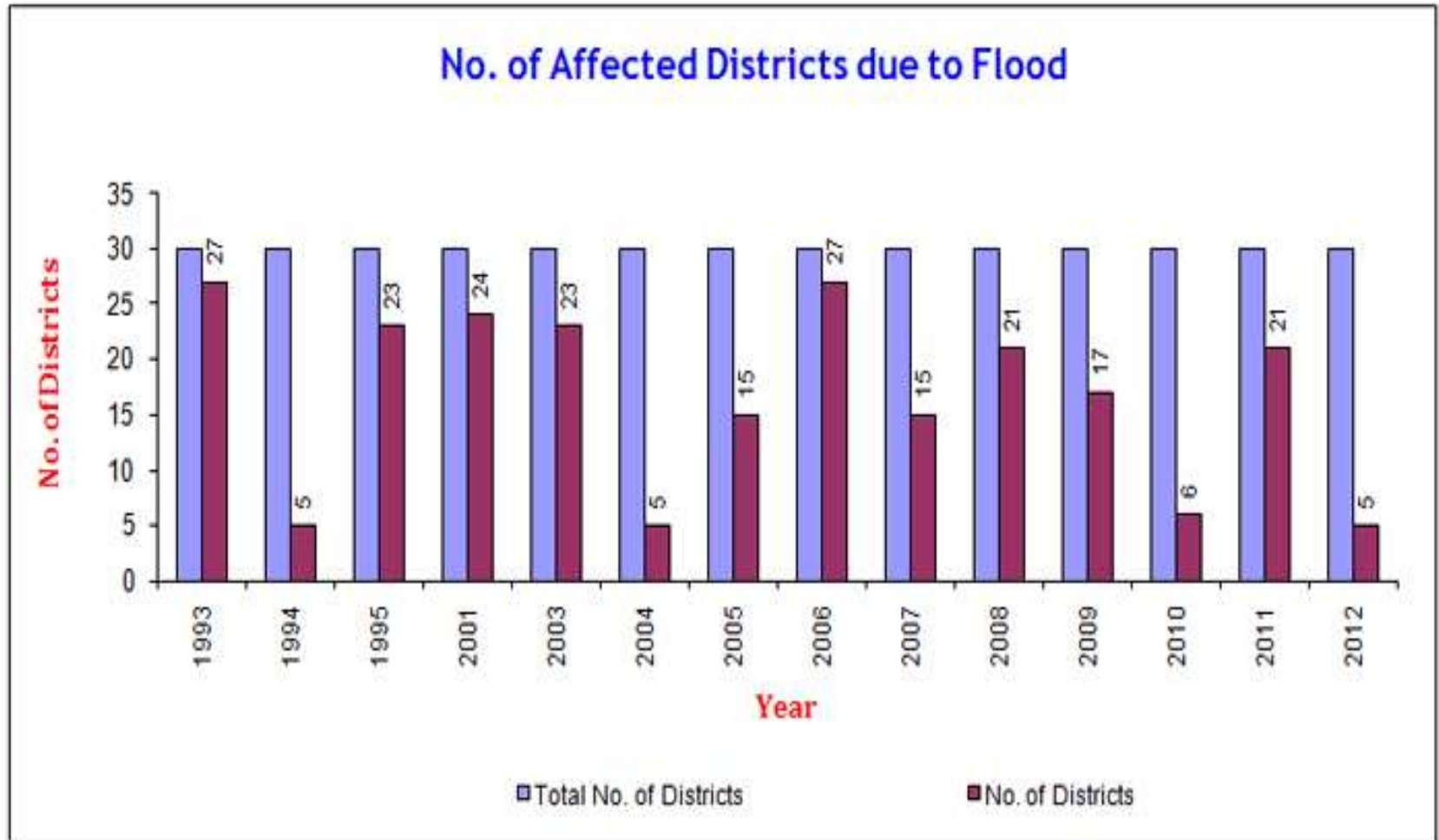
Tsunami affected Indian territory





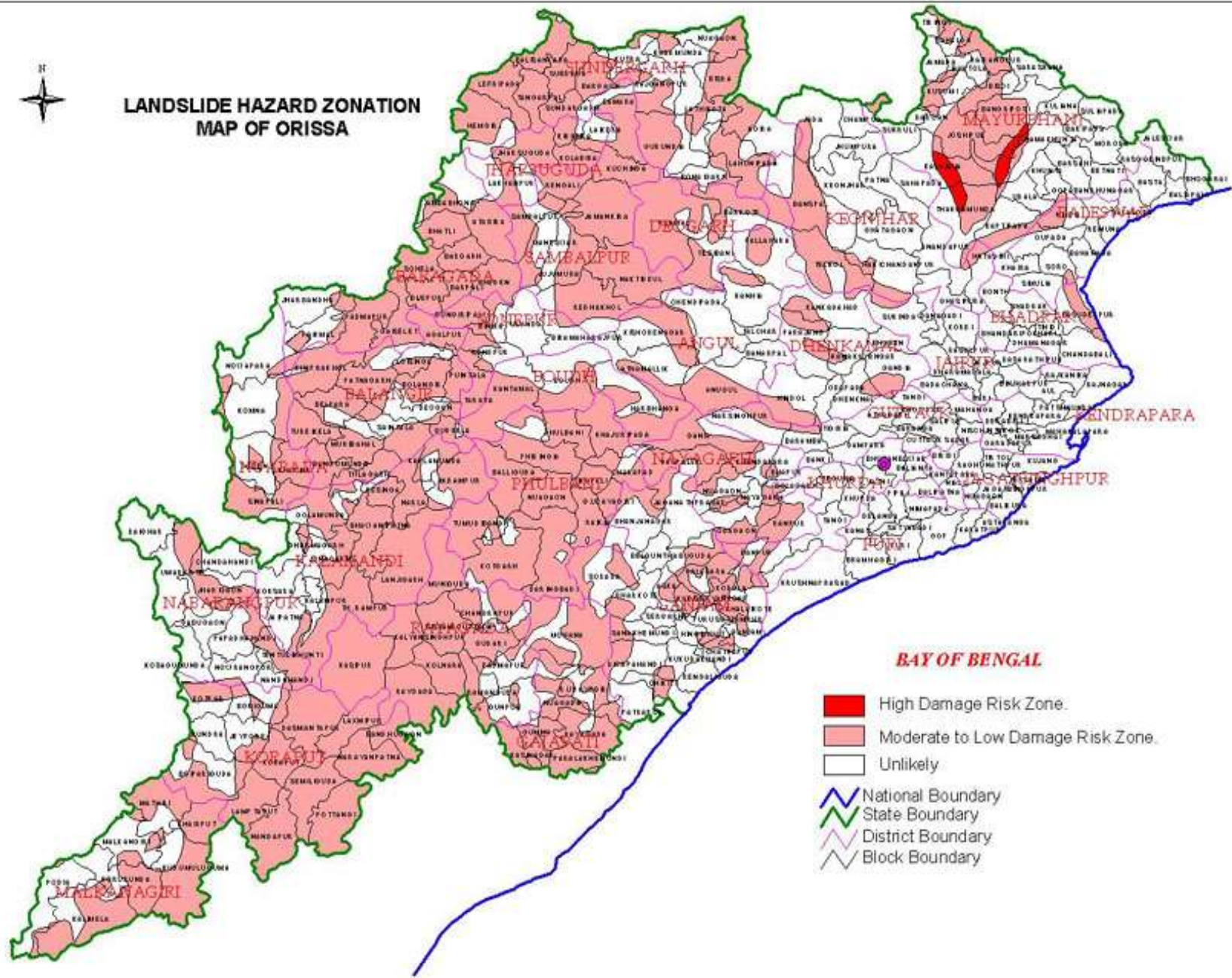
No of affected districts by flood in Odisha

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LANDSLIDE HAZARD ZONATION MAP OF ORISSA



WIND & CYCLONE ZONES OF ORISSA

0 20 40 80 120 160 km



LEGENDS

-  District Headquarter
-  District Boundary
-  Very High Damage Risk Zone - B (Vb = 50 m/s)
-  High Damage Risk Zone (Vb = 47 m/s)
-  Moderate Damage Risk Zone - A (Vb = 44 m/s)
-  Moderate Damage Risk Zone - B (Vb = 38 m/s)



THANK YOU