

Vulnerability Assessment

Croatia

Task 2

The largest part of the Republic of Croatia belongs to the climate type C, a moderately warm rainy climate. Trends in air temperature show warming all over Croatia, annual temperature trends are positive and significant

Statistically significant decreases in precipitation during the recent 50-year period in mountain and coastal areas

Total inland area of the Republic of Croatia covers 56,594 km², while the total number of inhabitants in the Republic of Croatia is 4,284,889 of which nearly 52% live in urban and suburban areas

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Flood risk management

Floods types in Croatia:

- River flash floods
- Floods in karstic fields
- Inland water floods in lowland areas
- Icefloods
- Sea floods
- Artificial floods

Mostly the level of regulation and construction of protection systems is proportional to the size of watercourse, and priority is given to the multifunctional systems of regulation and water use

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Flood risk management

Recent experiences show that floods in areas where they are not expected and that there is occurrence of higher water levels than those systems were designed for

Consequently, in the future we can expect appearance of extreme air temperatures and heavy rain, as well as extremely dry periods with storms and destructive winds and high tidal waves in coastal areas

Flood Risk Management Plan is under construction and it will contain goals and measures for flood risk management which will include prevention, protection and preparedness measures as well as flood forecasting and warning systems

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High sea levels

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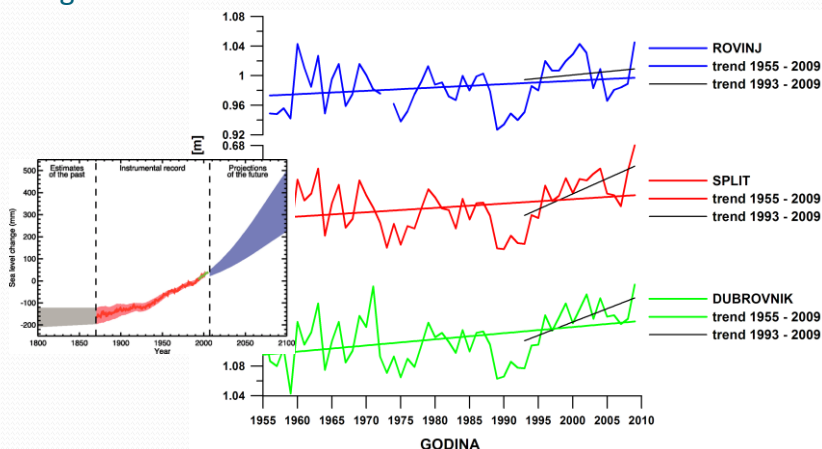
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High sea levels



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High sea levels

Tide gauge station	Trend (mm/y) (1955 – 2009)
Rovinj	0.45
Split	0.59
Dubrovnik	0.83

Tide gauge station	Trend (mm/y) (1993 – 2009)
Rovinj	0.91
Split	4.15
Dubrovnik	3.62

Results of the analysis of sea level measurements from tide gauge stations indicate a statistically significant positive trend which is in agreement with satellite measurements and predictions of IPCC for 100 year return period

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Drought risk assessment

For period 2000 – 2012 eight years were classified as warm years, and Croatia's dry months of the year are steadily increasing