ATTEMPTING TO COMPARE THE VALENCIA FLOODS OF 2024 AND 1957

OCTOBER 2024

- Regional population: 5,300,000
- Urban population: 840,000
- Large urban impermeable development
- Ubiquitous automobile
- Fatalities: 200
- Duration of rainfall: 72 hours
- Rain accumulation: 112 mm
- Max rain, average: 4.2 / 1.5 mm/h
- Max wind: 26 knots (48 km/h, Beaufort 6/7)

OCTOBER 1957

- Regional population: 2,300,000
- Urban population: 506,000
- Large agricultural permeable environment
- Almost inexistent automobile
- Fatalities: 100

Note: rain accumulation in some recent hurricanes - Harvey (2017): 1538 mm; Lane (2018): 1473 mm; Imelda (2019): 1096 mm; Florence (2018): 912 mm; Helene (2024): 782 mm

OCTOBER 2024

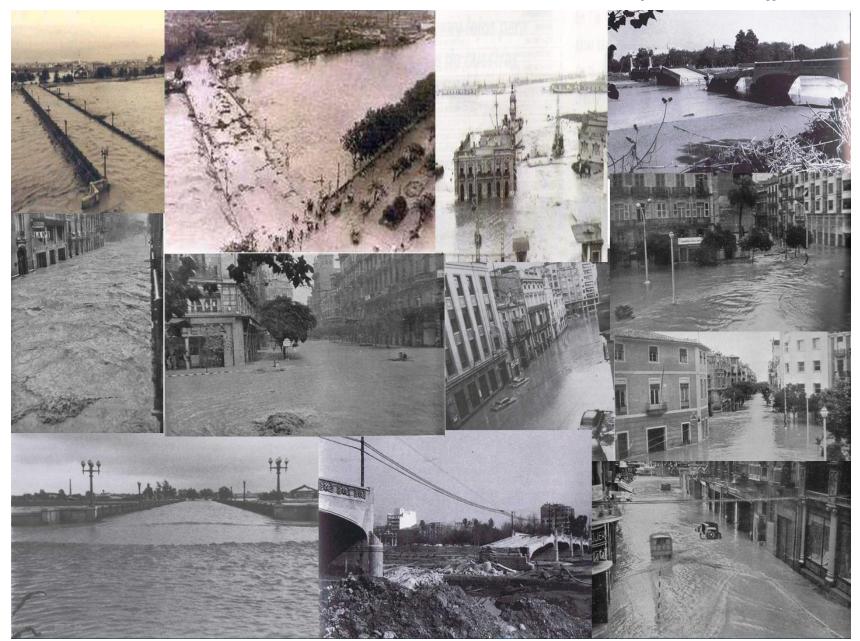


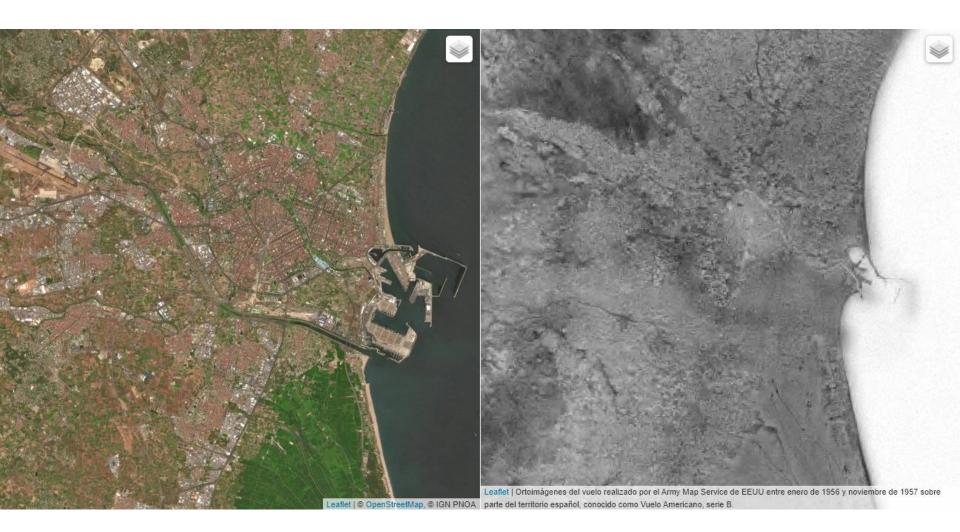
At Paiporta: 2 km SW of the 1960s runoff channel

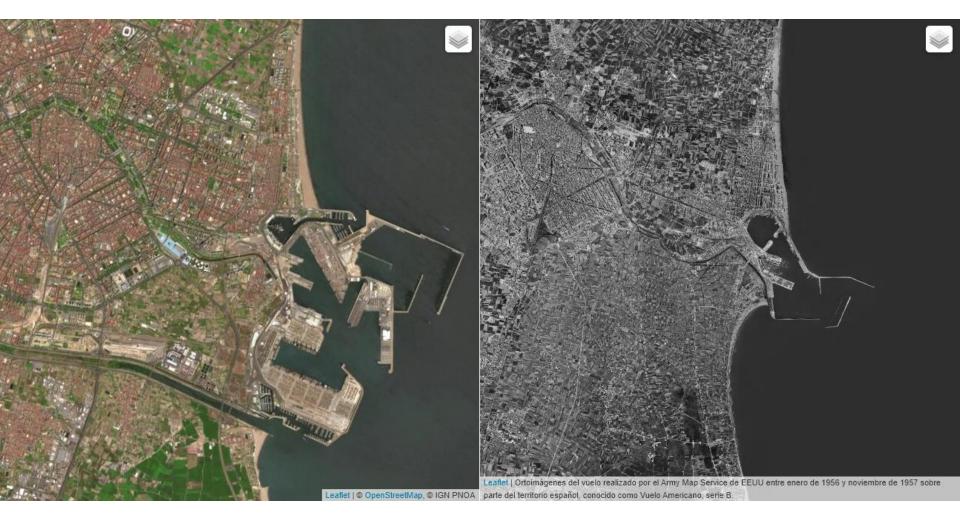




Downtown Valencia, north of the 1960s runoff channel

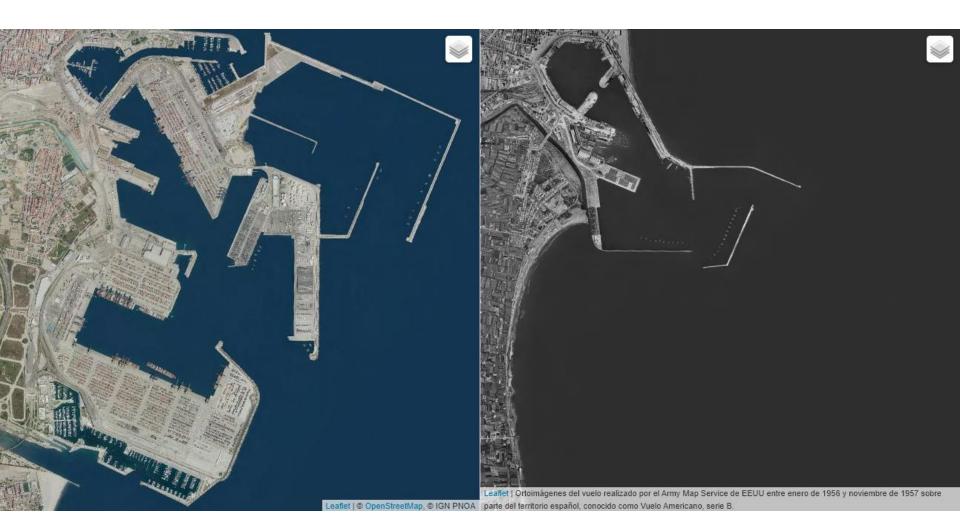






The Río Turia river bed had been diverted to the south of the city

The Río Turia river bed ran through the city



Exponential port expansion



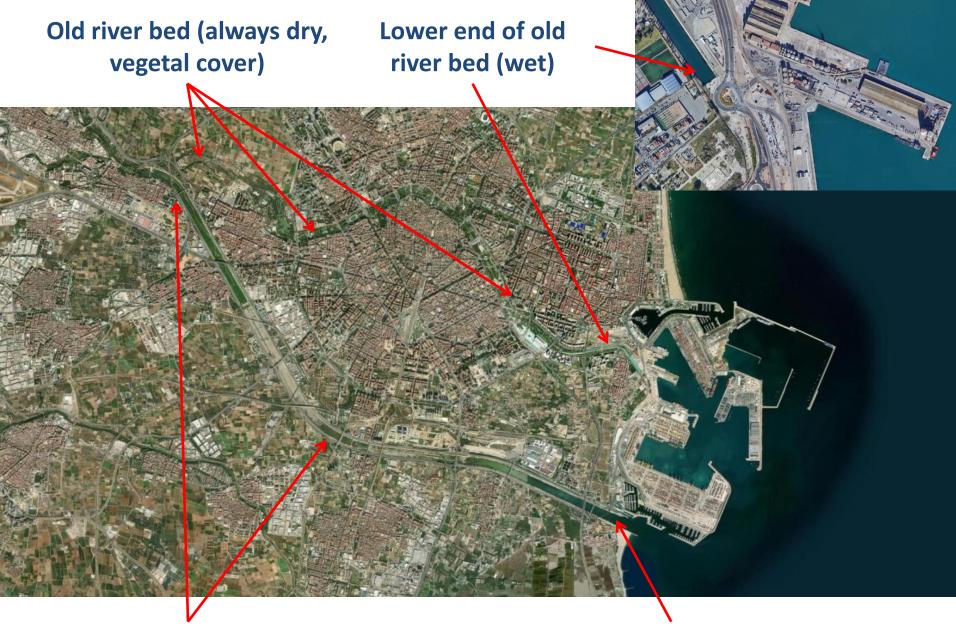
Urbanization and soil impermeabilization



Replacement of permeable agricultural land by hard construction

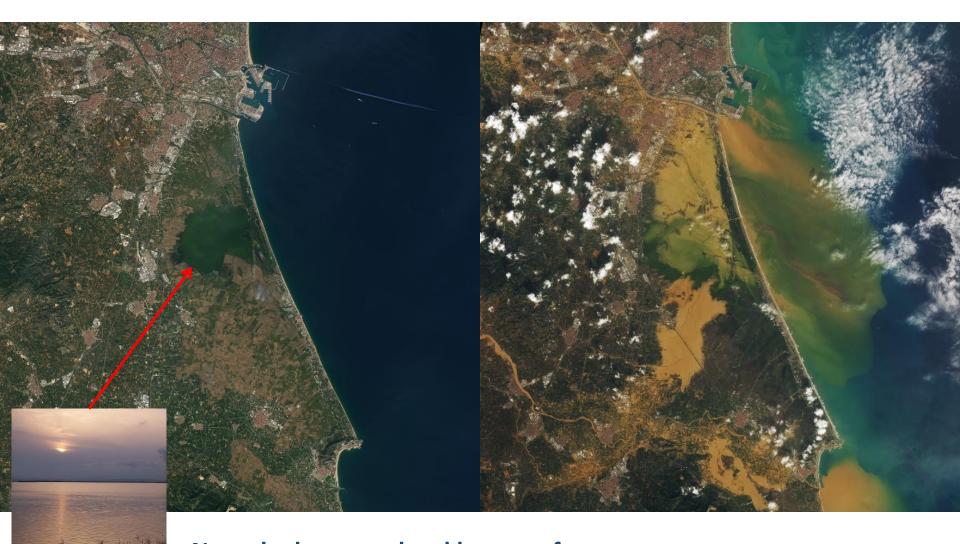
TOPOGRAPHIC MAPS



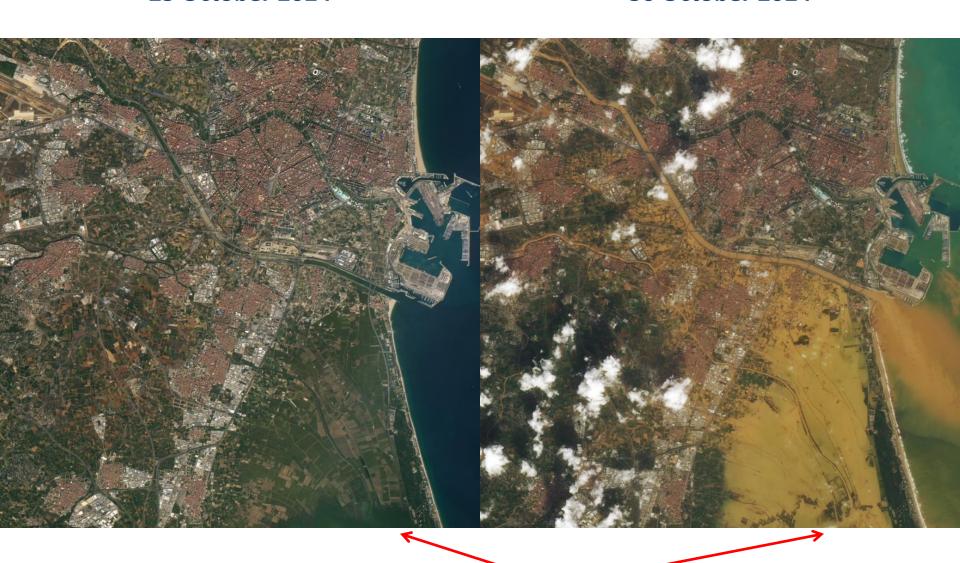


1960s storm runoff channel (usually dry, vegetal cover)

Lower end of the storm runoff channel (sea water)



Note the large sea level lagoon of the *Albufera* south of Valencia



The *Albufera* lagoon

The yellow circle shows the location of the pictures in slide 2

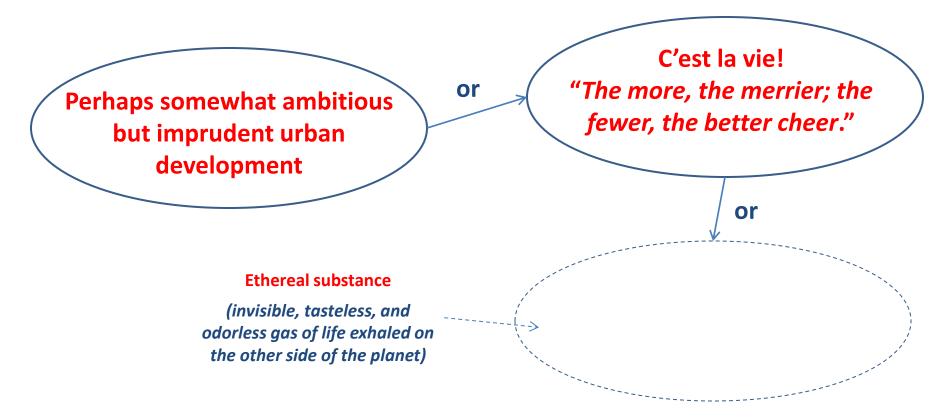
The 1957 flood affected mostly the old historic town north of the 1960s runoff channel



The 2024 flood affected mostly the urban developments south of the 1960s runoff channel

The runoff channel was built after 1957 to protect the historic town, which it seems to have accomplished

DETERMINING PROBABLE CAUSES AND REMEDIES



If in need of answers, try locating the local national equivalent to an Environmental Protection Agency. Please report your finding to this site ¹

¹ It appears that the Ministries for the "Protection of the Environment", per se, have disappeared from several European countries. In Spain the closest thing is now the Ministry for the Ecological Transition and the Demographic Challenge; in France the Ministry of Ecological Transition, Energy, Climate, and Risk Prevention. Among the plethoric epithets, the defining term seems to be "transition", or change, which appears to be quite the exact opposite of protection and conservation.