

CLIMATE CHANGE RISKS & COASTAL CITIES IN LEBANON: PROFILING THE CITY OF BATROUN

CLIMATE CHANGE RISKS IN URBAN SETTINGS



Rising Sea Levels & Storm Surges



Extreme Precipitation



Water Scarcity



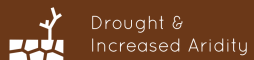
Inland & Coastal Flooding



Heat Stress



Landslides



Drought & Increased Aridity

CLIMATE CHANGE PROJECTIONS FOR LEBANON

RCP

4.5

8.5



Temperatures

+1.2°C

+1.7°C

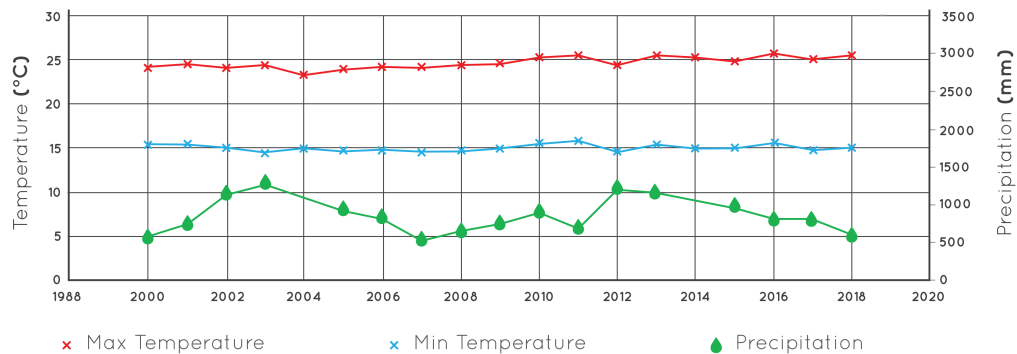


Precipitation

-4%

-11%

TEMPERATURE AND PRECIPITATION TRENDS IN BATROUN (1999-2018)



MAP LEGEND

- Beaches
- Agricultural Land
- Wooded Surface
- Highway
- Port
- River
- Scrubland
- Urban Fabric
- Industrial or Commercial Areas
- Green Urban Areas



WATER RESOURCES
Nahr El Joz



ENERGY SUPPLY
Qadisha substation, generators during outages, 2% renewable energy on a district level



SANITATION & DRAINAGE
Basbina W/WTP
95% of households connected to sewage system



TRANSPORT
Total length of international and secondary roads is 49km.



TELECOMMUNICATION POLES
Located above & underground.
3 Fixed fiber optic telephone links providing the city with telecom services



HEALTH CARE & EMERGENCY SERVICES
1 Hospital
1 Red Cross center
1 Civil defense station
1 Emergency center
1 Military infirmary



BUILT ENVIRONMENT
44% of the city's area is built-up area residential, commercial or industrial
30% Agricultural areas
3 Archeological/ Historical sites: Phoenician wall, Phoenician castle and the old souk



ECOSYSTEM SERVICES
No natural reserve areas. Vermittid reefs form an intertidal platform with a width of 170m. Macroalgae make up the highest % of these reefs.



FISHERIES
20 professional fishermen 1 port

