

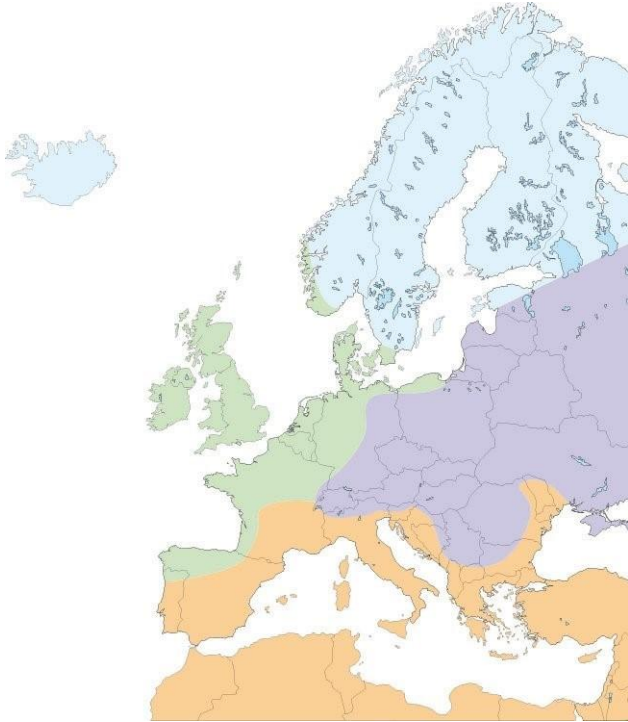


# solar study of the site . climate of Budapest

Tegt Lisa-Marie  
Testiere Inès  
Uçak Emel  
Weng Huichuan



# European Climate



Northern European areas  
Nordic climate: cold winters and mild humid summers

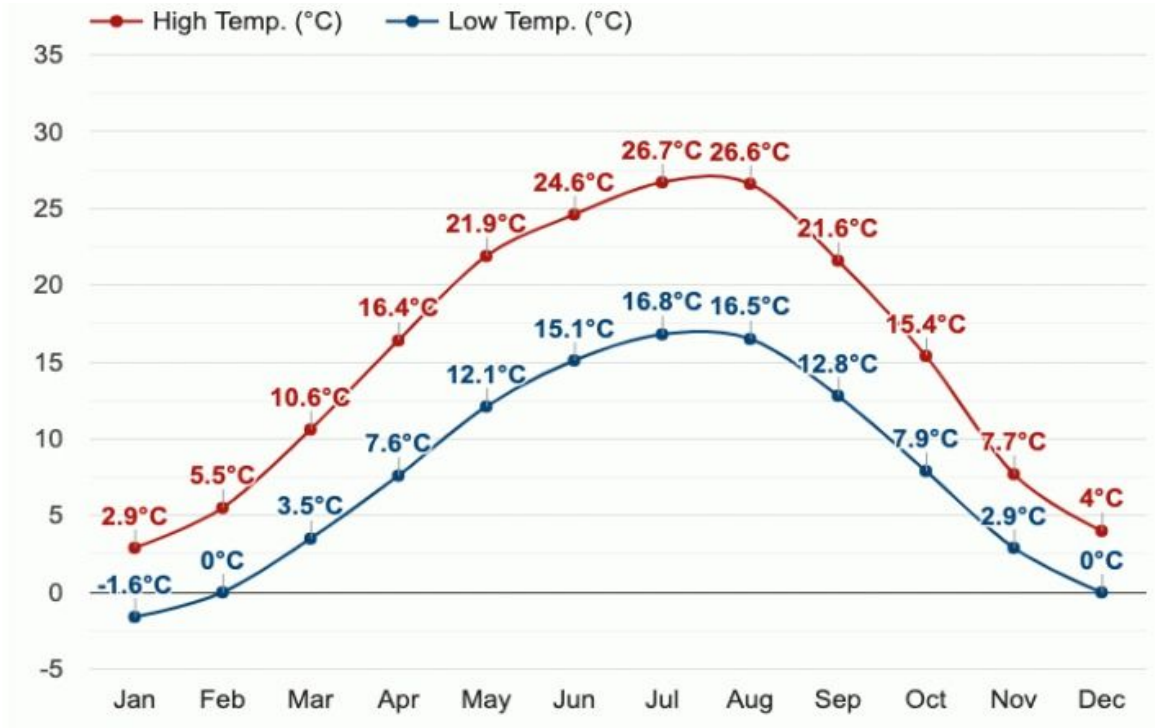
Western European areas  
Oceanic climate: mild winters and humid summers

Southern European areas and the Middle East  
Mediterranean climate: hot dry summers and mild winters with hardly any frost

Central and Eastern European areas:  
Eastern-continental climate: cold winters and hot, dry summers

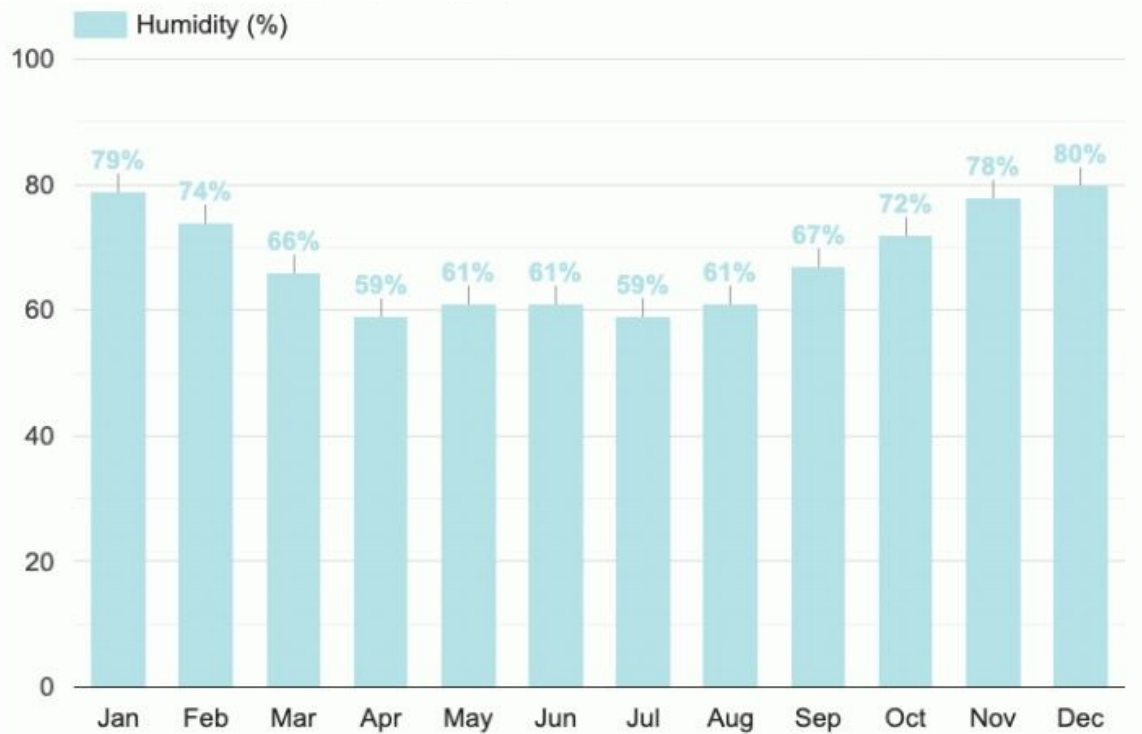
Climate in Hungary: warm, dry summers and fairly cold winters

# Average Temperature Budapest



- daytime temperatures 20-25°C, sometimes higher 30°C or more
- July is the warmest month average temperature of 22 °C
- cold, January coldest month: daytime around zero °C

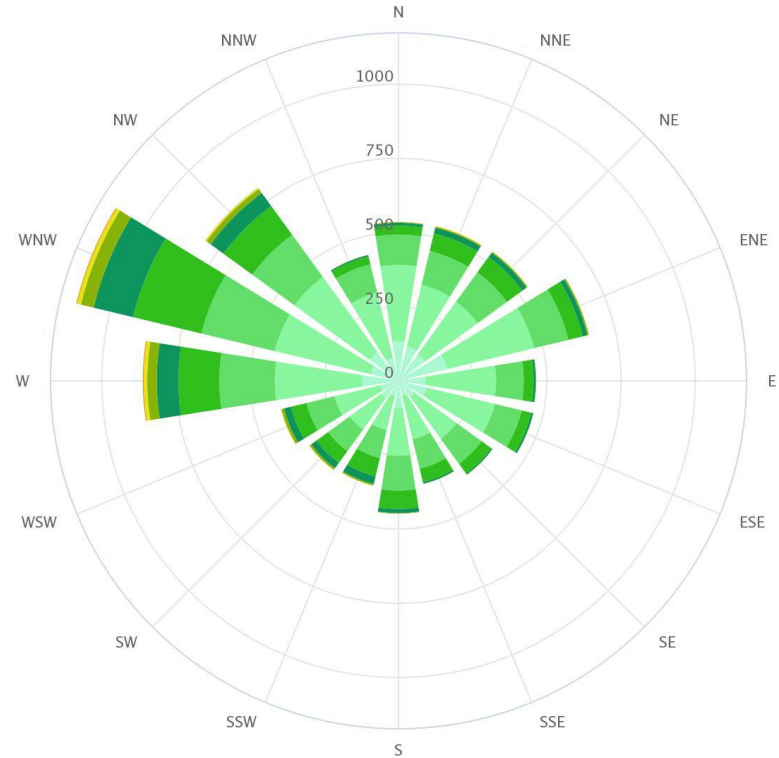
# Average Humidity Budapest



- rains more in spring than in summer
- annual precipitation: 400-600 mm in the lowland areas
- autumn and winter: wet, often foggy, sometimes snowy

# Wind Rose for Budapest

- Number of hours per year the wind blows
- Mainly from west



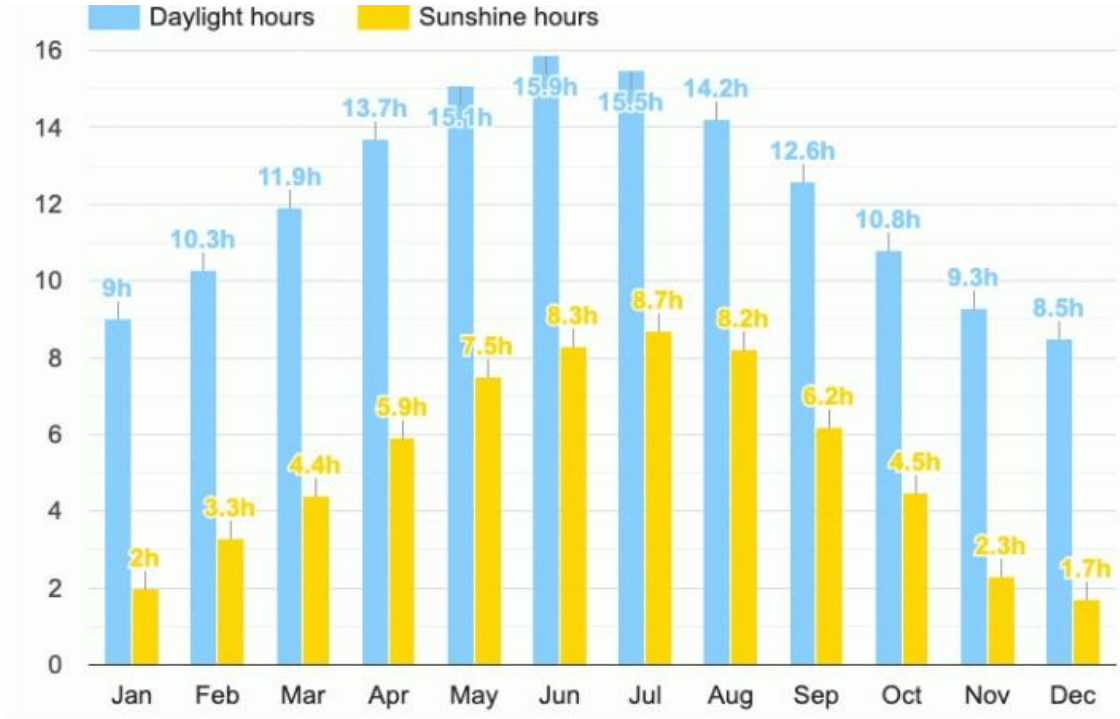
# Vegetation



- 20% forested
- fall foliage during autumn
- deciduous and mixed forests
- beech, oak and spruce forests predominate, as well as shrubs and herbs
- coniferous trees are mainly found at higher altitudes

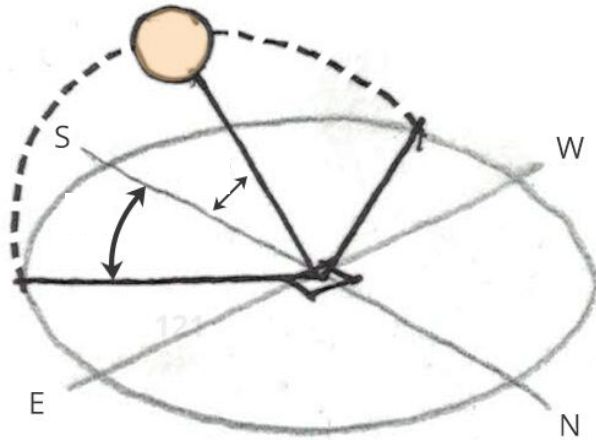
# Average Daylight / Average sunshine Budapest

Daylight hour | Sunshine hours - Budapest



- In December 8h of daylight.
- In Jun 16h of daylight.
- summer: most of the time dry, but sometimes heavy thunderstorms

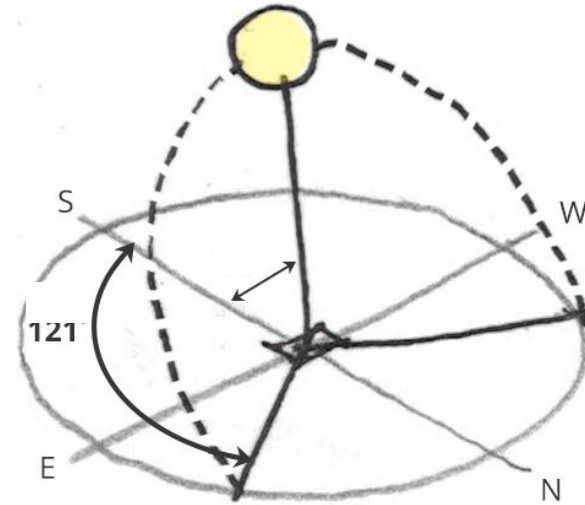
# Solar Position - Solar Race, Budapest



## WINTER

altitude:  $20^\circ$   
azimuth:  $60^\circ$

Solstice: 21 of december



## SUMMER

altitude:  $65^\circ$   
azimuth:  $120^\circ$

Solstice: 21 of june

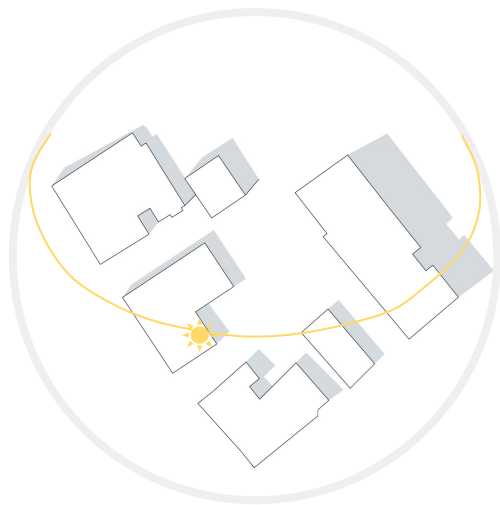


# Solar Study

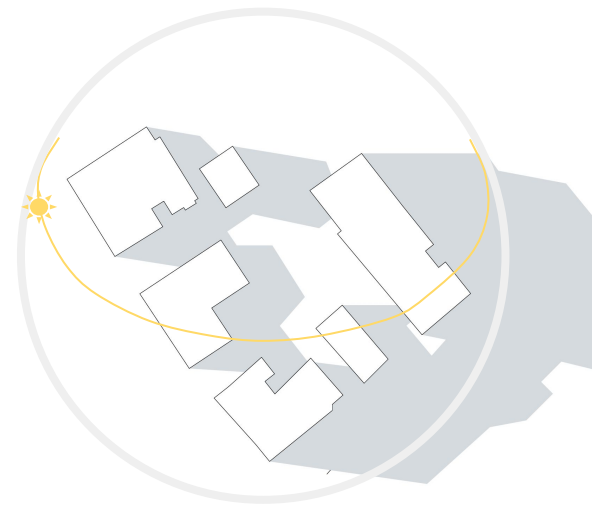
21. June, Budapest



10:00 AM



1:00 PM



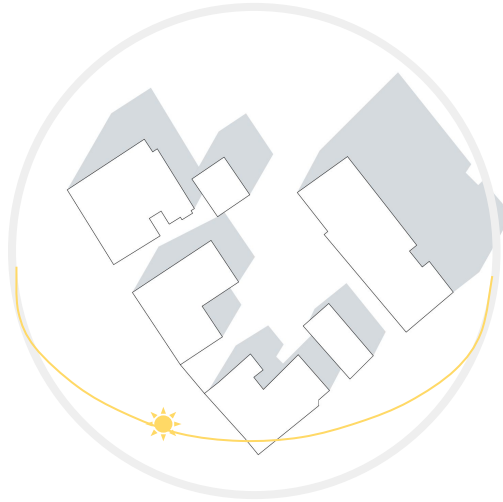
5:00 PM

# Solar Study

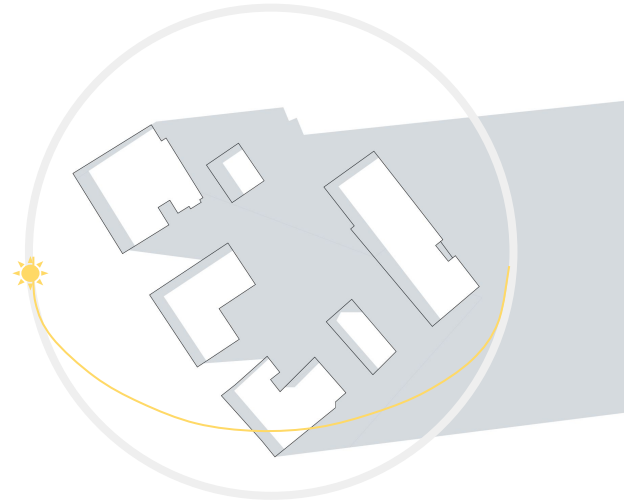
22. September, Budapest



10:00 AM



1:00 PM



5:00 PM

# Solar Study

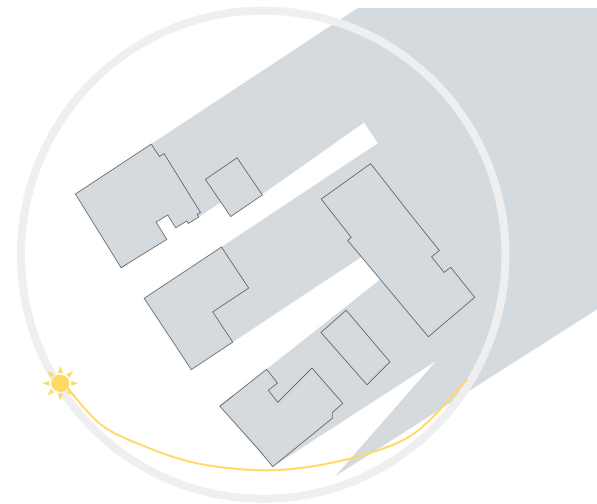
21. December, Budapest



10:00 AM



1:00 PM



5:00 PM

# Sun Position - The Site

Winter solar race



Summer solar race

