



3S Symphonia

Soil Soul Sync

Akrata, Greece.



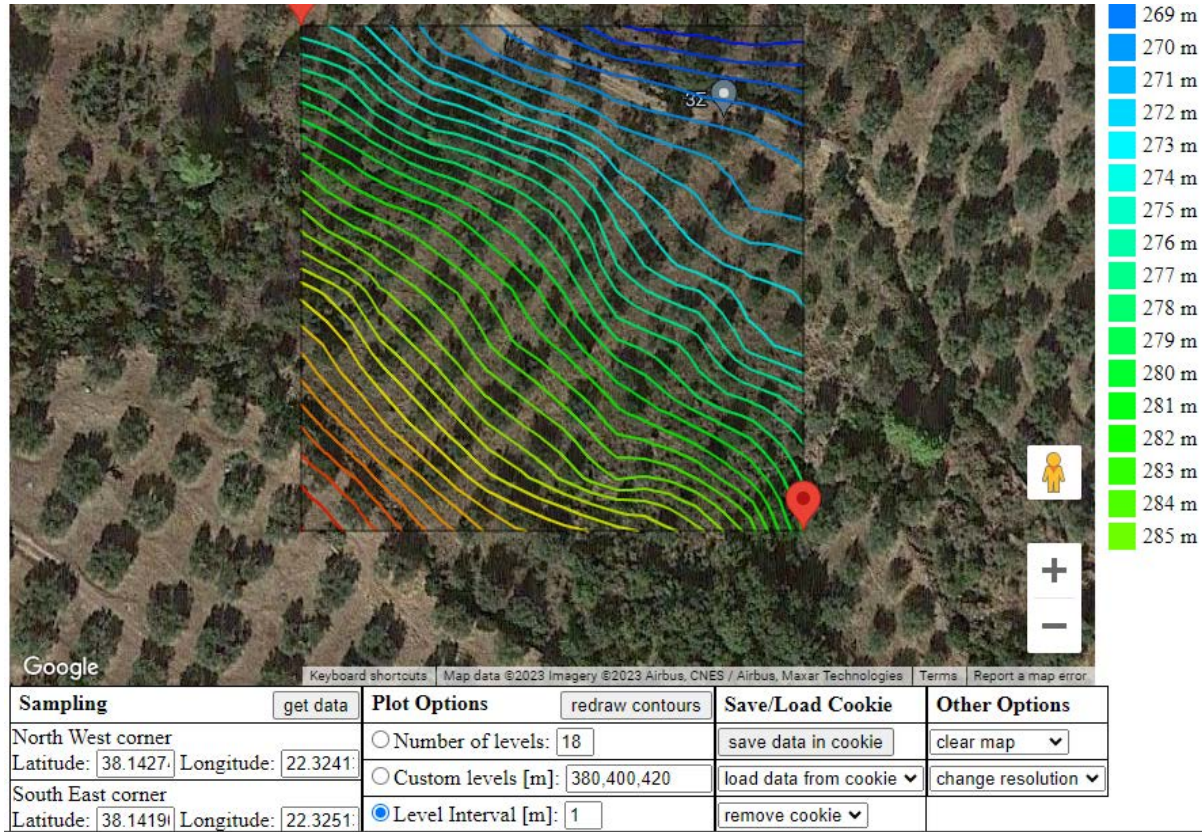
When Soil and Soul meet, Sync happens.

Philosophy: Symphonia means 'agreement' in Greek.

Vision: A transformational shift for land and humanity, in Symphonia.

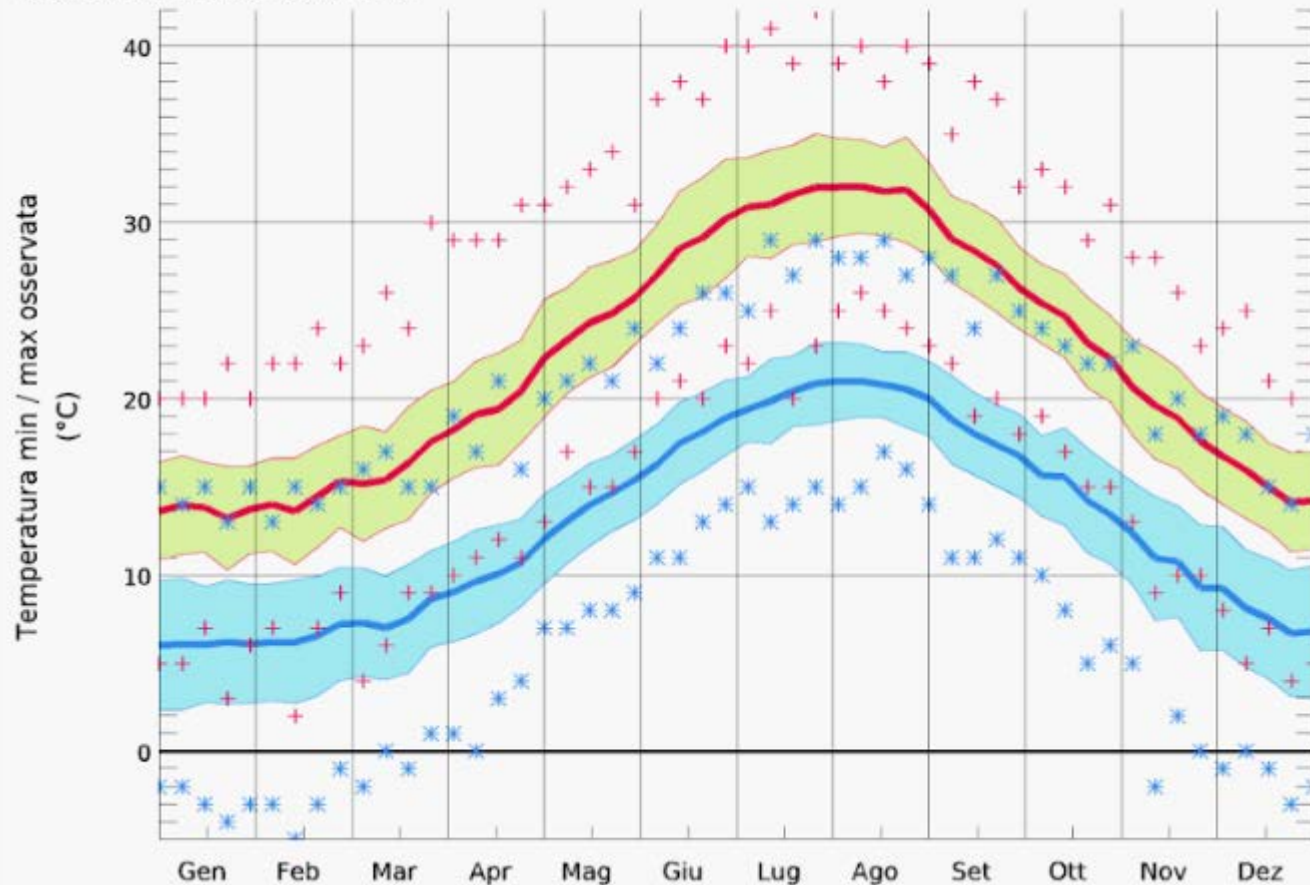
Mission: a sustainable healing shelters for people in symphony with an eco permanent garden and a food forest that follows principles of permaculture.

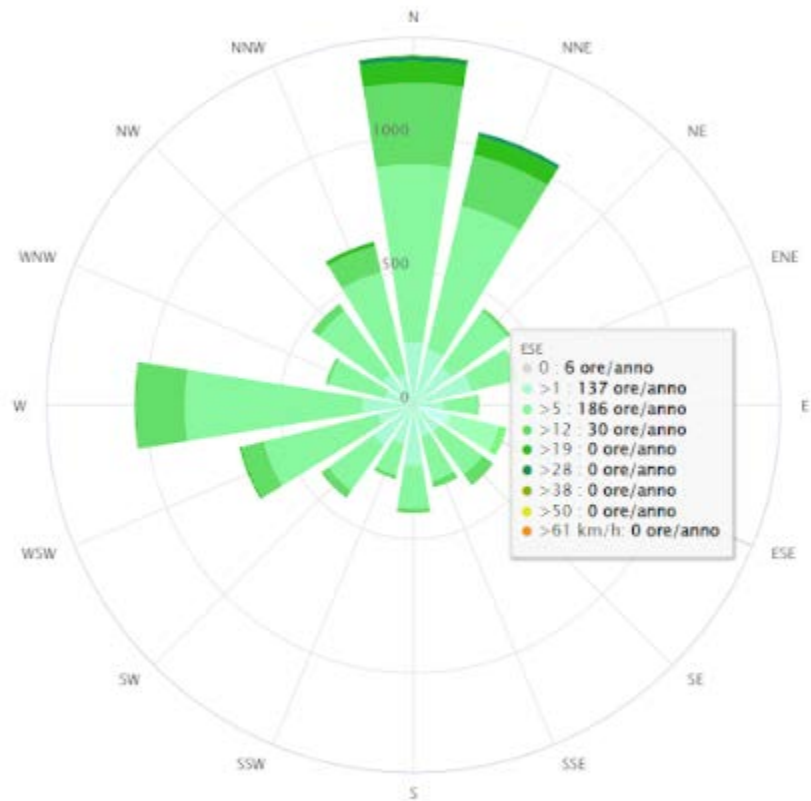
TOPOGRAPHY OF THE PLACE



ARAXOS (AIRPORT) 38.15°N / 21.42°E (12m slm)

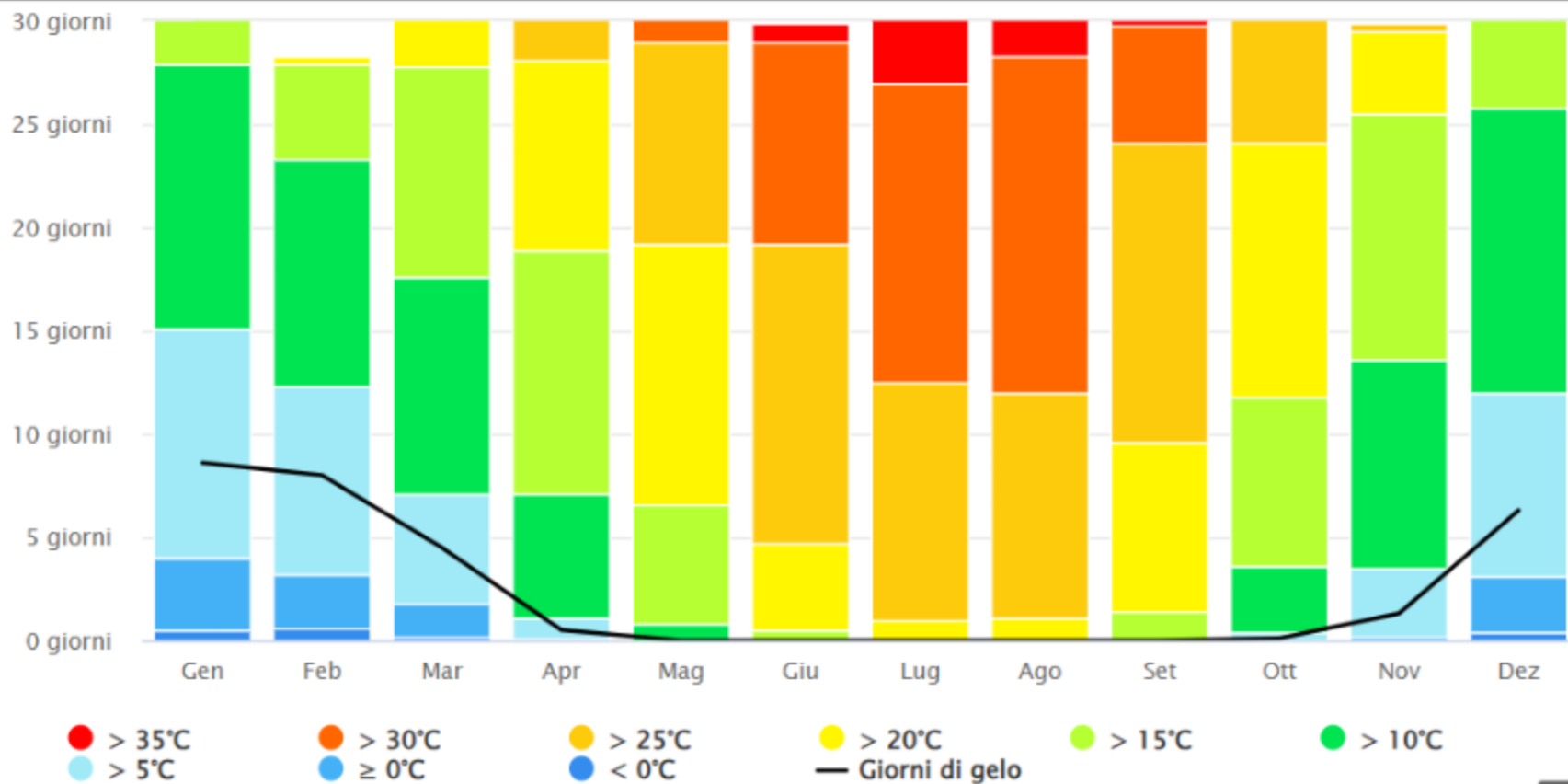
Distanza da Akráta (102m slm): 79 km



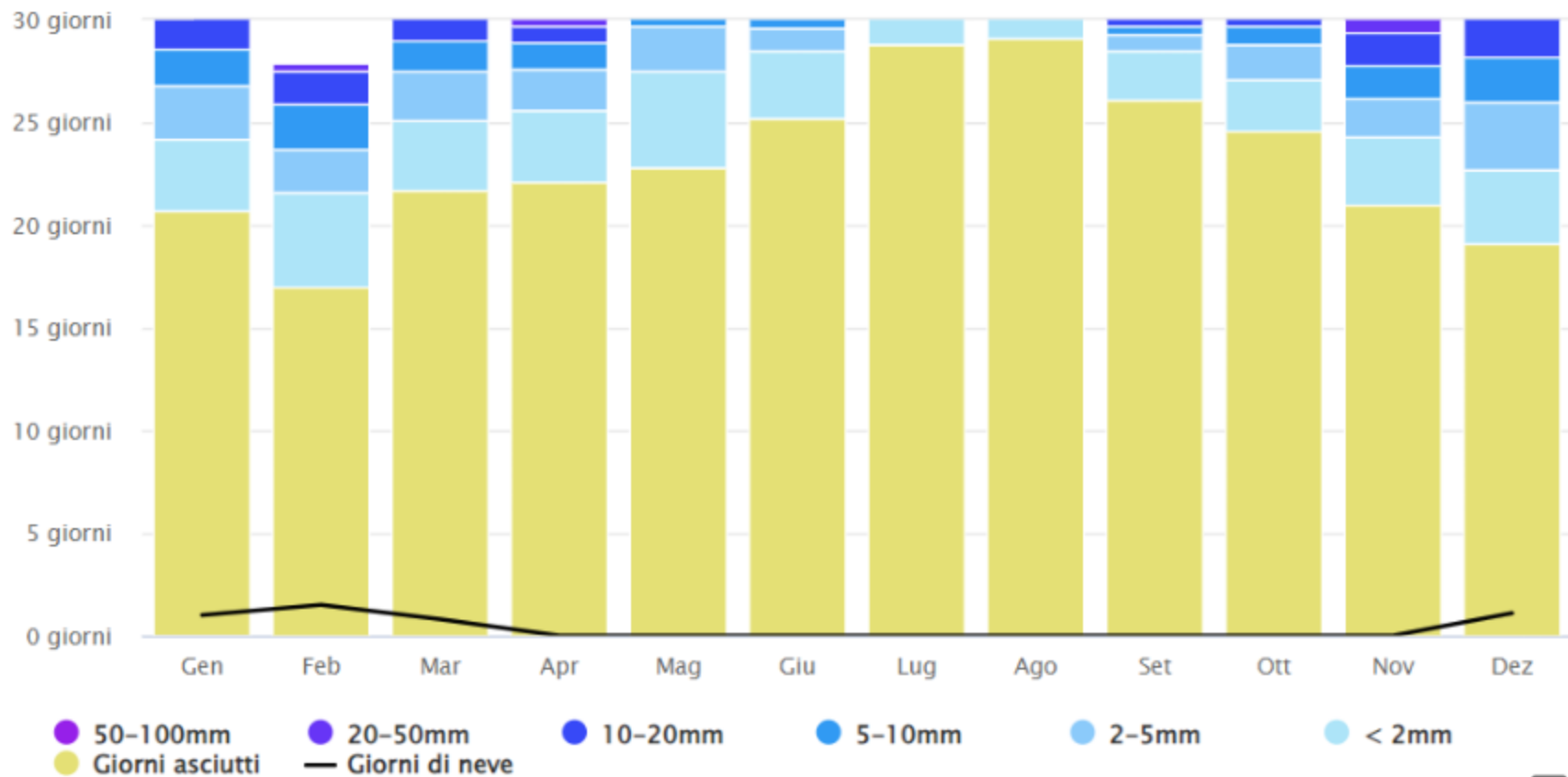


● 0
 ● >1
 ● >5
 ● >12
 ● >19
 ● >28
 ● >38
 ● >50
 ● >61 km/h

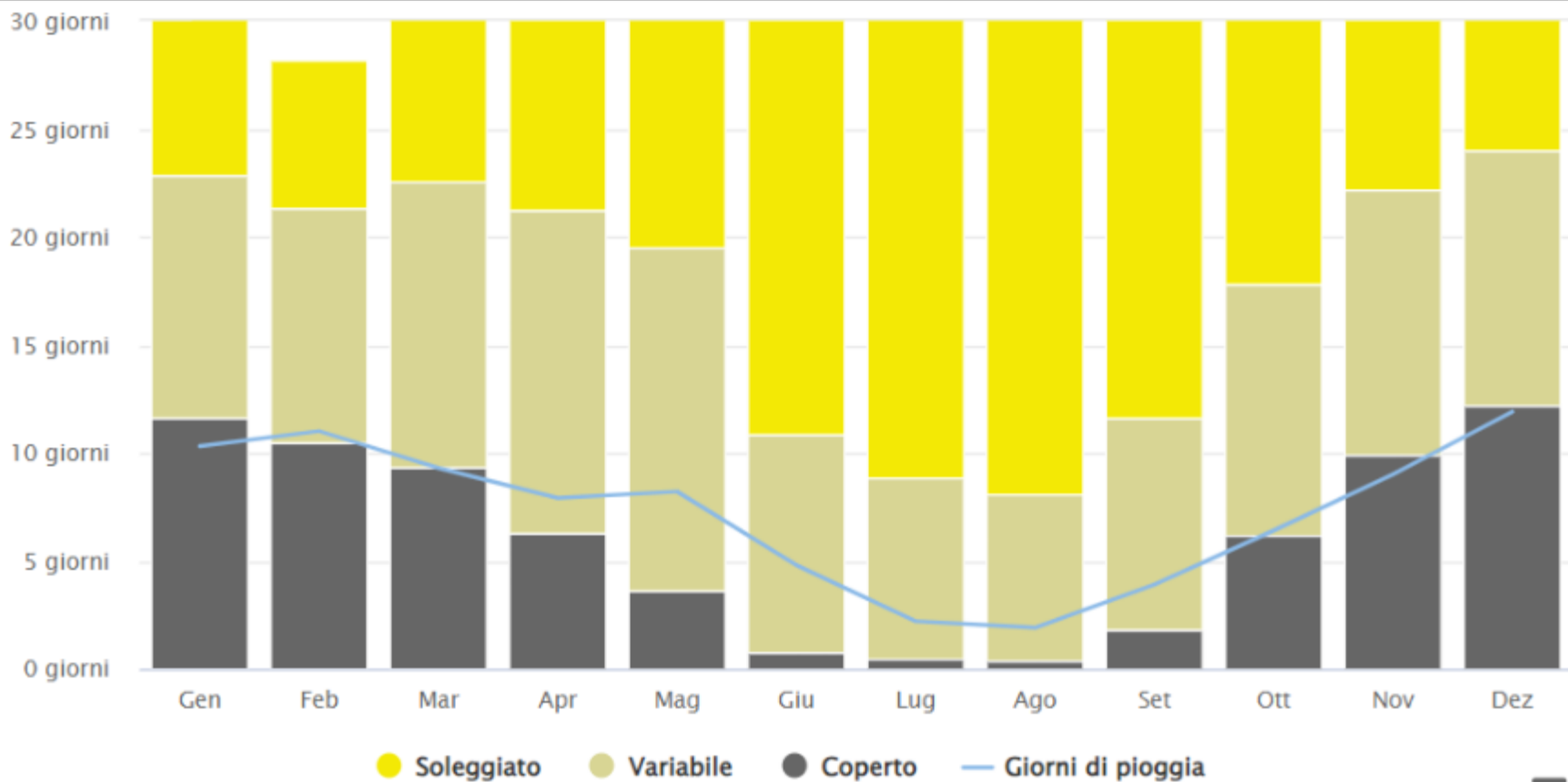
Temperature massime



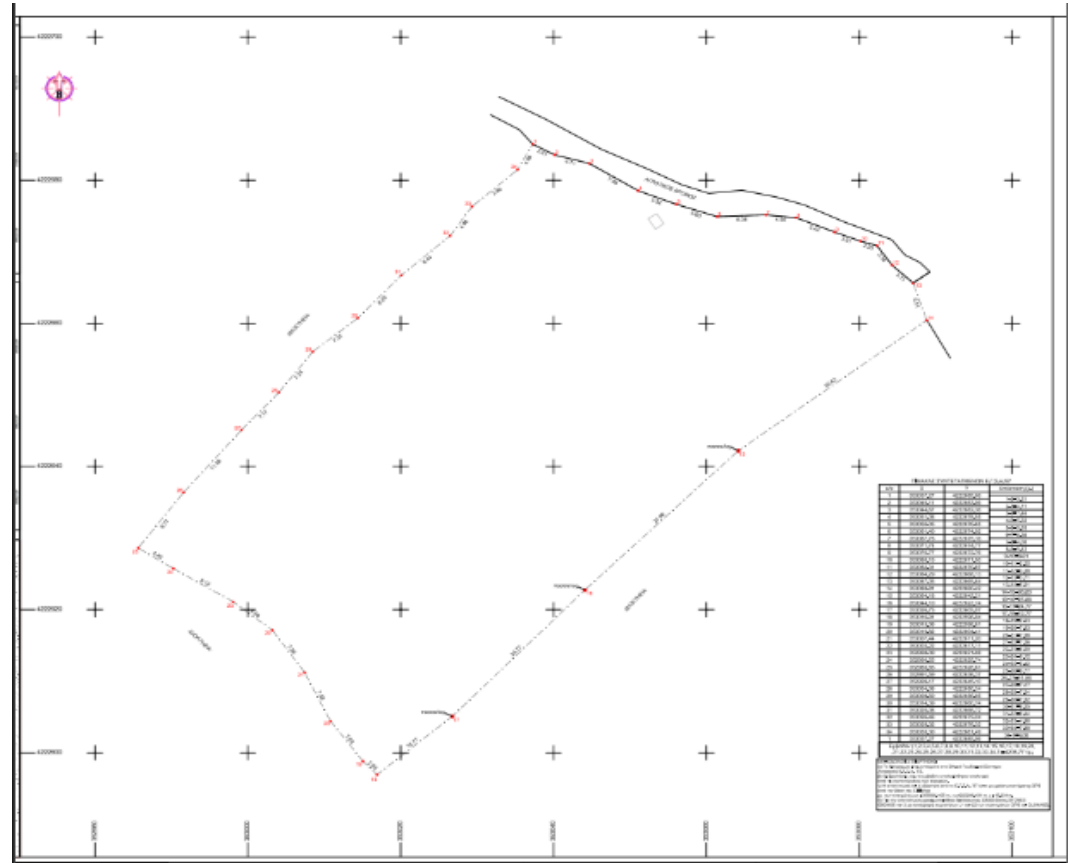
Precipitazioni (quantità)



Nuvoloso, soleggiato, e giorni di pioggia



SPACE AND SIZE



PEOPLE

Long term: 6 permanent people (living and working in the place).

Estimation of guest:

- 2 cabins for 2 people each = renting.
- Community house for six permanent inhabitants.
- Green kitchen for inside use and consume (and food sell).
- Parking place = 3 cars

Computation path of the sun for:

Akrata, GRC
21.Dec.2023 11:40 UTC+2 **LIVE**

Solar data for the selected location

Dawn:	07:13:36
Sunrise:	07:42:52
Culmination:	12:28:36
Sunset:	17:14:19
Dusk:	17:43:35
Daylight duration:	9h31m27s
Distance [km]:	147,172,736
Altitude:	27.40°
Azimuth:	167.44°
Shadow length [m]:	1.93
at an object level [m]:	<input type="text" value="1"/>

Geodata for the selected location

Height:	290m	<input type="button" value="Set Lat/Lon"/>
Lat:	N 38°8'33.54"	38.14265°
Lng:	E 22°19'29.93"	22.32498°
UTM:	34S 616107 4222472	
TZ:	Europe/Athens EET	



Our displ

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Computation path of the sun for:

Akrata, GRC

21 Jun.2023 11:40 UTC+3 **LIVE**

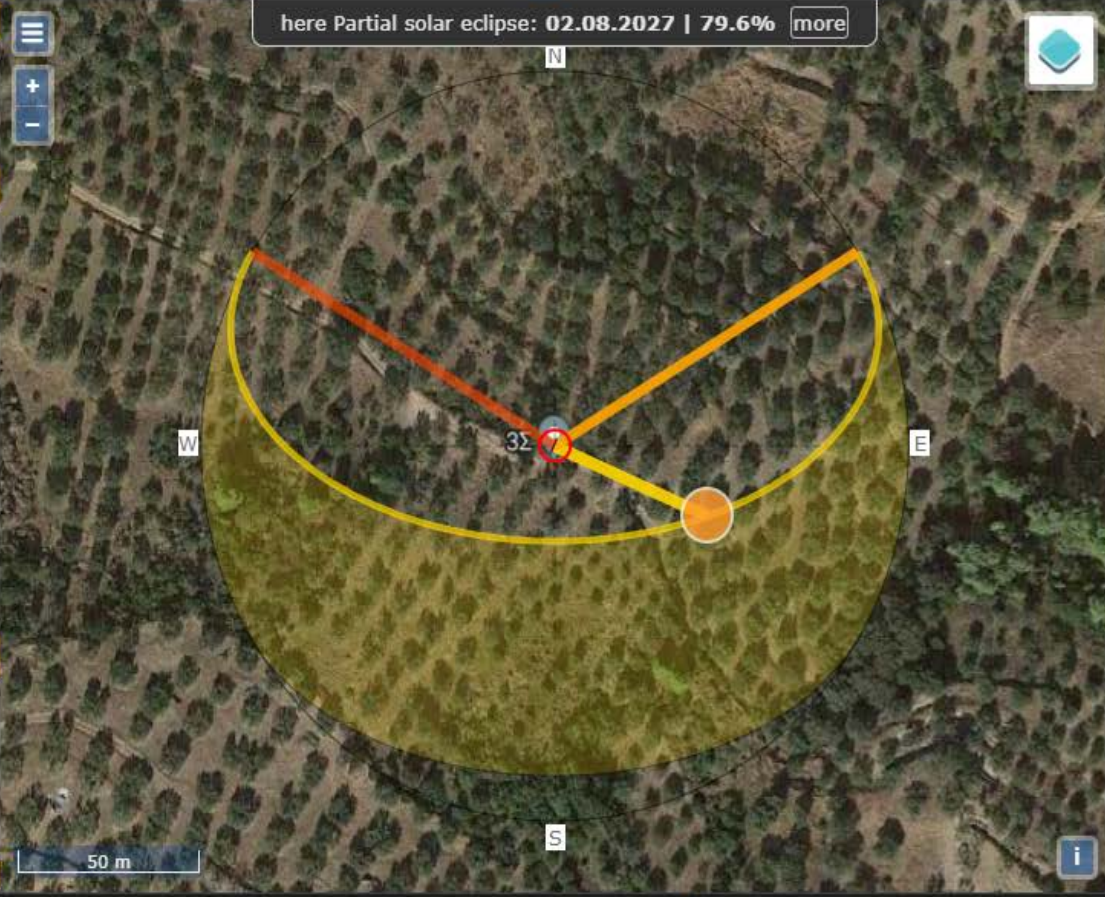
Solar data for the selected location

Dawn:	05:36:14
Sunrise:	06:07:28
Culmination:	13:32:26
Sunset:	20:57:25
Dusk:	21:28:39
Daylight duration:	14h49m57s
Distance [km]:	152,023,881
Altitude:	61.91°
Azimuth:	113.39°
Shadow length [m]:	0.53
at an object level [m]:	<input type="text" value="1"/>

Geodata for the selected location

Height:	290m	<input type="text" value="Set Lat/Lon"/>
Lat:	N 38°8'33.54"	38.14265°
Lng:	E 22°19'29.93"	22.32498°
UTM:	34S 616107 4222472	
TZ:	Europe/Athens DST EEST	

More solar data & Photovoltaic



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SunCalc.org ©Torst

00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00

Computation path of the sun for:

Akrata, GRC

21.Apr.2023

11:40 UTC+3

LIVE



Solar data for the selected location

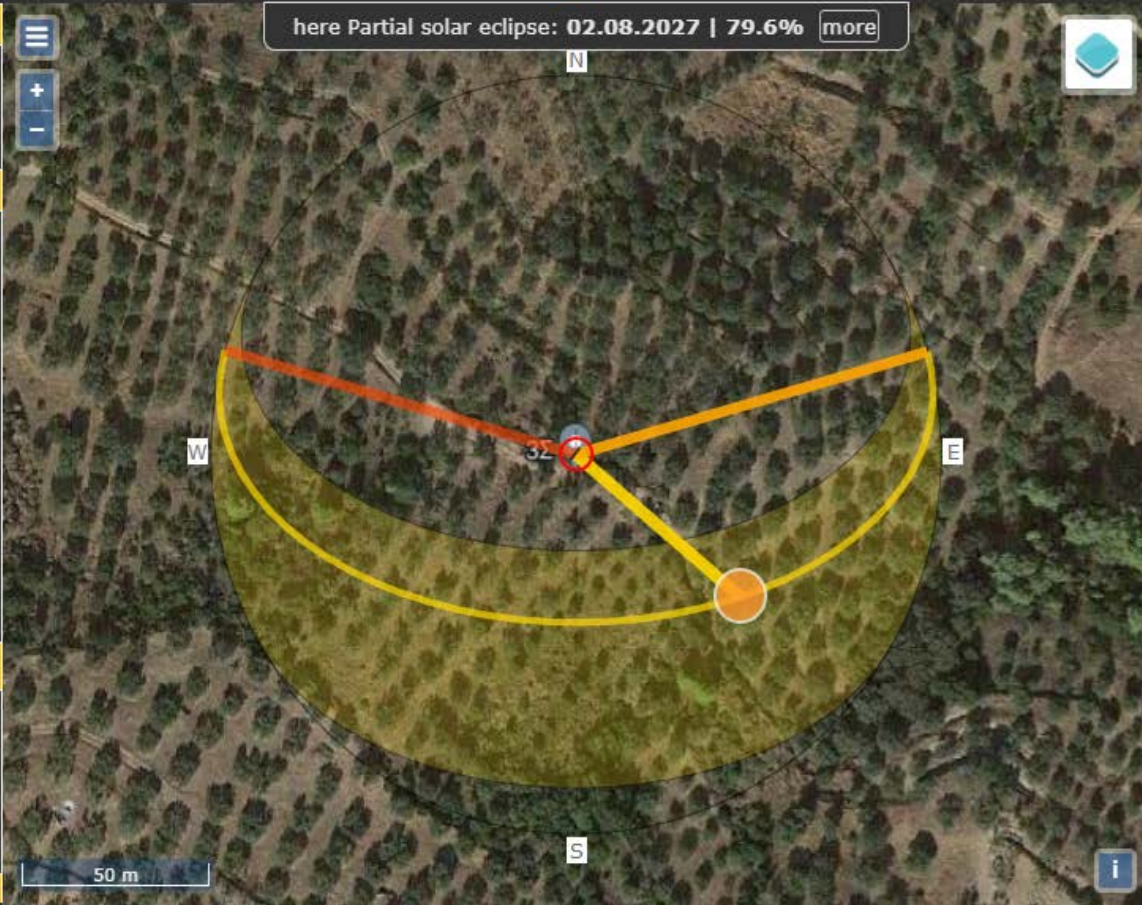
Dawn: 06:19:56
Sunrise: 06:47:12
Culmination: 13:29:28
Sunset: 20:12:22
Dusk: 20:39:44
Daylight duration: 13h25m10s
Distance [km]: 150,318,103
Altitude: 54.12°
Azimuth: 129.86°
Shadow length [m]: 0.72
at an object level [m]:

Geodata for the selected location

Height: 290m
Lat: N 38°8'33.54" 38.14265°
Lng: E 22°19'29.93" 22.32498°
UTM: 34S 616107 4222472
TZ: Europe/Athens DST EEST

More solar data & Photovoltaic

here Partial solar eclipse: 02.08.2027 | 79.6% [more](#)



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Man



SunCalc.org

Computation path of the sun for:

Akrata, GRC

21.Sep.2023 11:40 UTC+3 **LIVE**

Solar data for the selected location

Dawn: 06:50:48
Sunrise: 07:16:51
Culmination: 13:23:53
Sunset: 19:30:17
Dusk: 19:56:17
Daylight duration: 12h13m26s
Distance [km]: 150,214,763
Altitude: 45.66°
Azimuth: 141.21°
Shadow length [m]: 0.98
at an object level [m]:

Geodata for the selected location

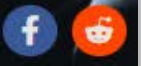
Height: 290m
Lat: N 38°8'33.54" 38.14265°
Lng: E 22°19'29.93" 22.32498°
UTM: 34S 616107 4222472
TZ: Europe/Athens DST EEST



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Origin of water and electricity

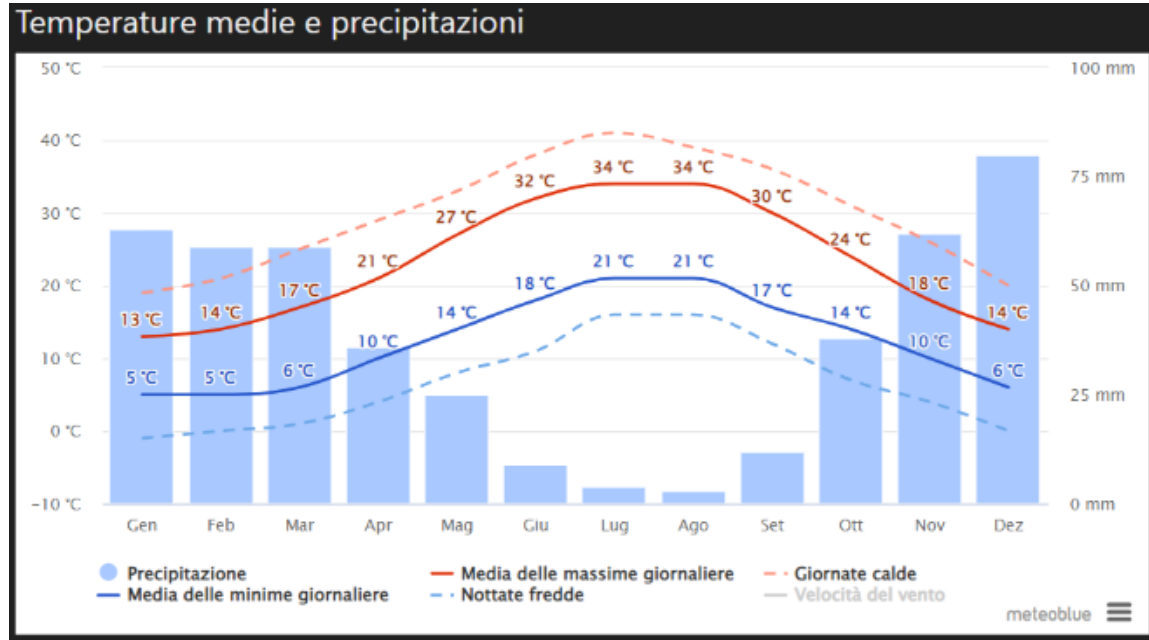
Step 1 > connecting to the electricity and water governmental system.

Step 2 > installation of solar panels and water tanks.

Step 3 > switch to energy self-sufficiency

Step 4 > net metering <3

WATER



WATER MANAGEMENT

Average water use per person in
a day= 50 l.per day

Daily n.of people = 10

HARVESTING WATER FROM THE ROOF

Roof size = 159 m² Amount of water per 4 (constructions)= 416 mm

Average amount of water during the year = 66.14 m³

Conservation inside “X” tanks.

GREY WATER USE

Estimation of amount of water to process = 350 l. per week per person / 10 500 l. per person per month/ 126 000 l. per year

Use for: greywater Mulch Basing Guilds -> garden and edible forest.

ELECTRICITY REQUIREMENTS

Electrodomestics to have:

Fridge = 1

Led spotlights = 20 -22

Stand by = 10 - 16 (cabins, house, green house, kitchen, bathrooms, showers)

Average electricity use per 8 - 10 people in a day= 5-6 kwh per day.

Average total use of the settlement = 2000 kwh per month

1 Solar Panel = 250 - 450 wph with 4.5 direct Sun hours a day.

Produce e.month= 13 500 kwh

8 - 10 people -> 5 - 6 kwh per day = 6 -10 solar panel.

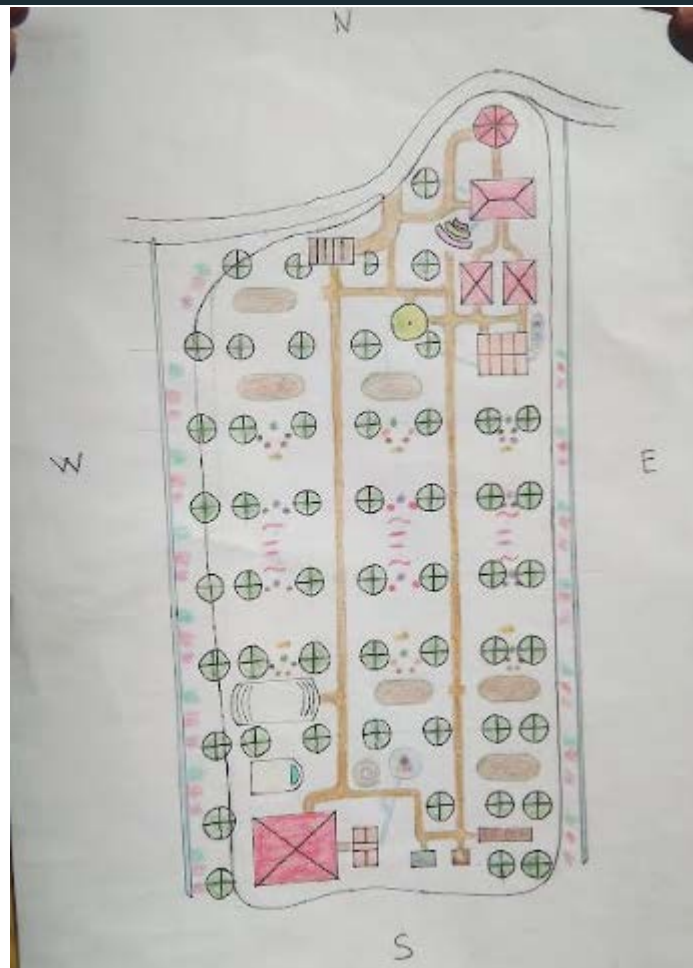
USEFUL MATERIAL AROUND

- **Rocks.**
- **Clay.**
- **Wood.**

What's there already:

bushes, olive trees, amazing view, road directly to the main entrance.





BUDGET

1.- Rock + clay + planted roof

$330 * 1 \text{ cabin} * 2 = 600$

2.- Connect to water

200

3.- Connect to electricity

1000

**TOTAL STARTING
PRICE**

1530

LONG RUN

80 000 - 100 000