

FAIRNESS Summer School

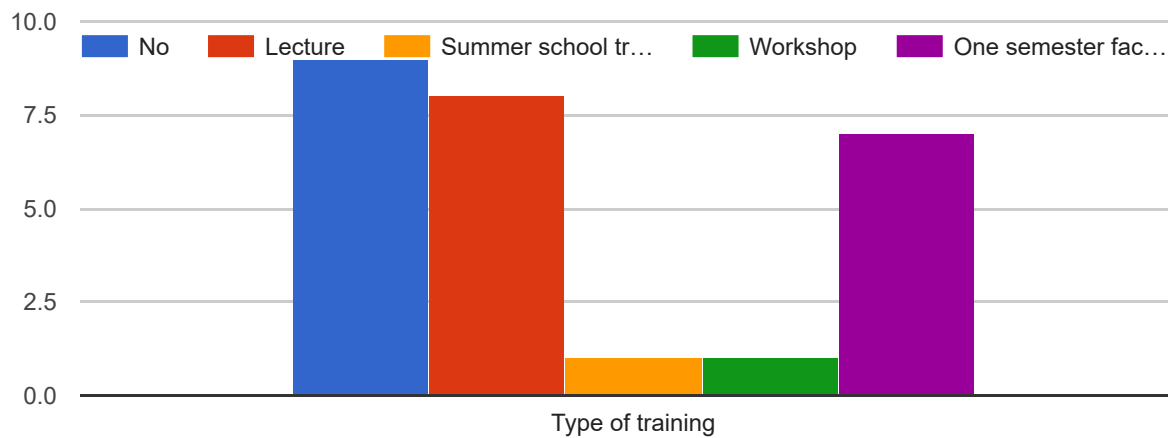
23 responses

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Introduction to Measurement Principles

Do you have background training on meteorological instruments?

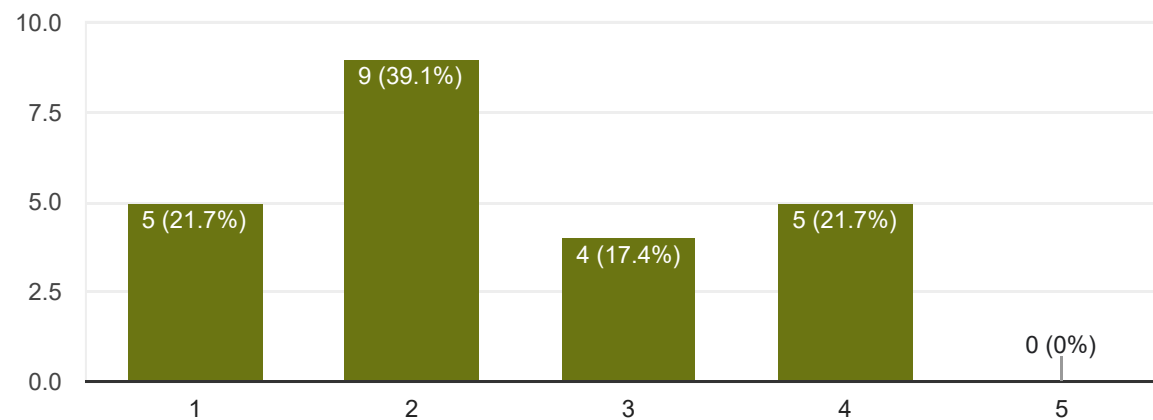
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Evaluate your knowledge in the technical features of the measurement systems used in micrometeorological studies.



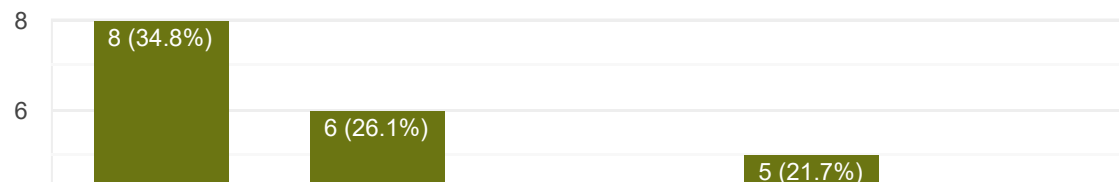
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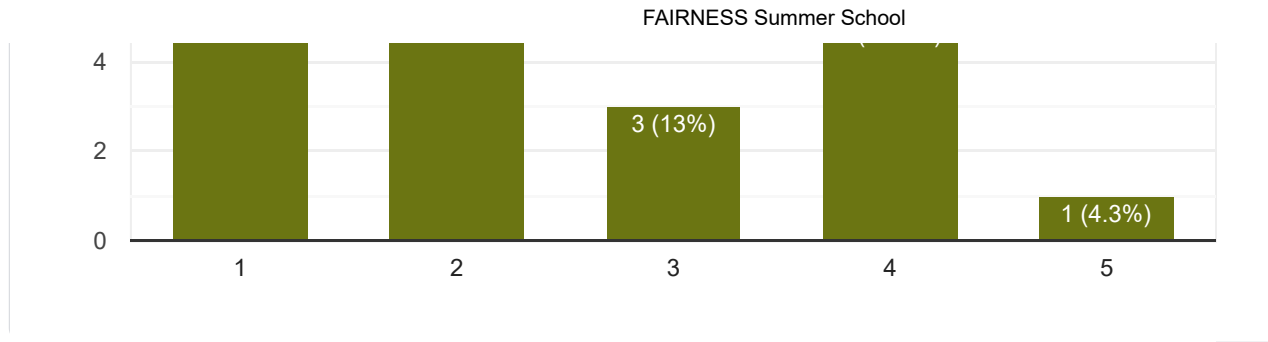


Evaluate your knowledge in the installation of an automatic weather station or a micrometeorological system.



23 responses

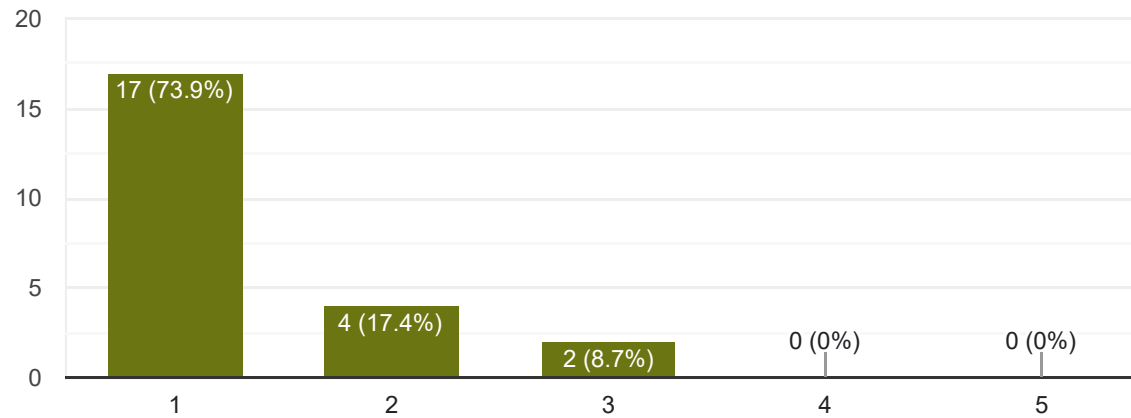




Evaluate your knowledge in writing program for datalogger using its software.



23 responses



Do you have application experience with low-cost sensors incl. data logging systems?



23 responses



If yes, which one (Company name and type of sensor)?

8 responses

ADL Optin

The instrumentation set up and programming the loggers was done by other scientist in our group, I have done some programming for Campbell CR1000 data logger

EMS BRNO (Czech Republic) - Seller of the products. They use Campbell scientific sensors and Minikin dataloggers

Scienact Greek company Tero 10 soil moisture sensors but it's not low cost

Ahlborn

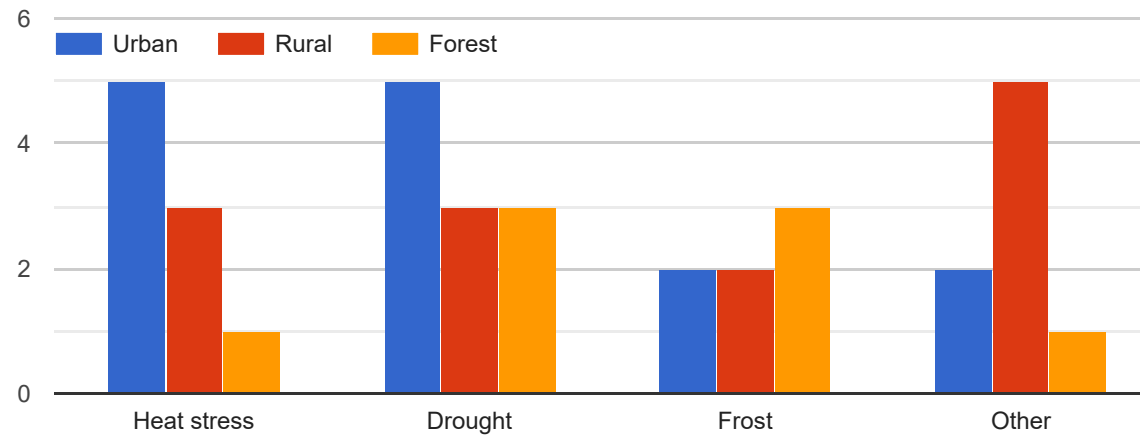
LogTag, Davis, WS 2318, Nexus, Tehnoline an etc.

i dont know the company, typical temp, co2, humidity, aerosols:API-TOF, CIC (Cluster Ion Counte), PSM (A11 nCNC-system), Radon, passive collector for SO2 and NO2

Pessl, Watermarks

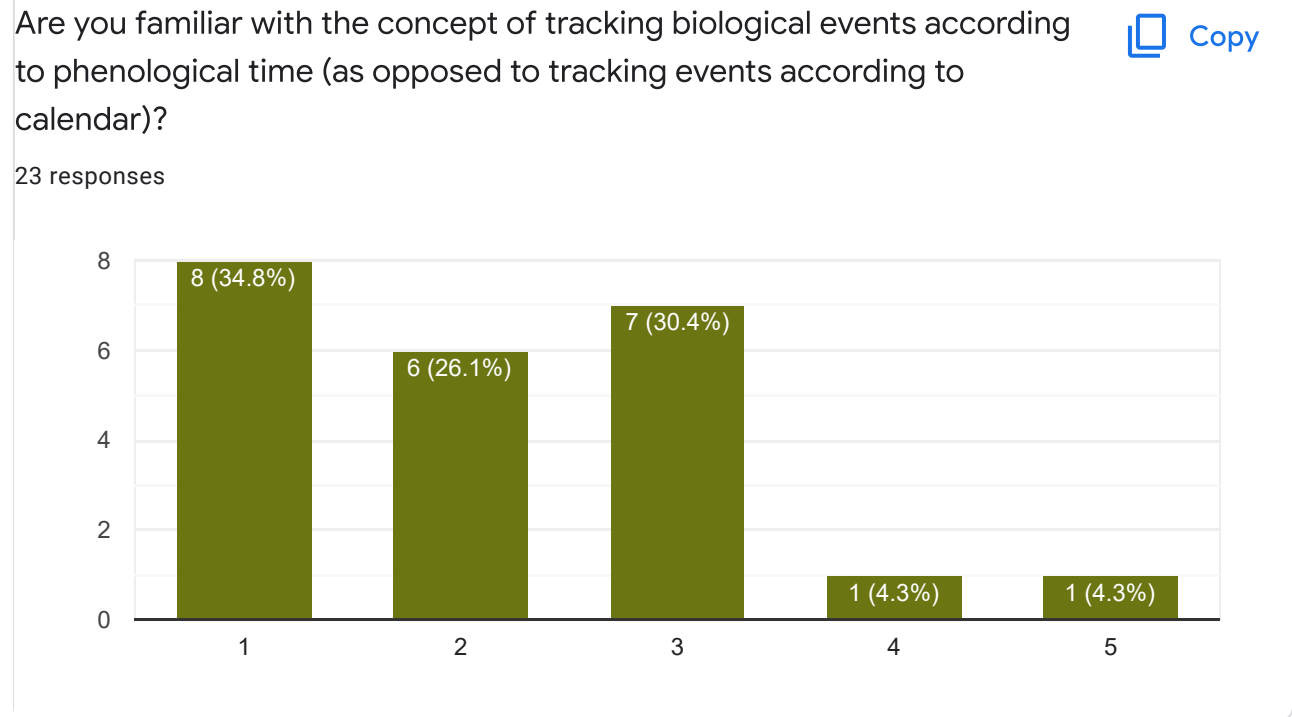


For analysis of which phenomena (e.g. heat stress, frost, drought etc.) and topic (i.e. urban, rural, forestry) did you apply low-cost systems?



Use of weather time series from different sources; Bio-met measurements and observations





Can you (simply) describe the relation between micrometeorological measurements in canopy and pest control timing?

10 responses

I have no experience in this topic.

I can describe the relation between meteorological measurements and fog. We use a variety of temperature, humidity and wind speed sensors, We use CSAT 3 dimensional sonic and GILL wind master pro sonic anemometers as well as EC150 gas analyzer with the CSAT sonic anemometer,. For making maps I use python 3.8 and cartopy and xarray libraries. I am not familiar with remote sensing softwares, but have attended a theoretical course about Digital Elevation Modelling

Pests that belong to the class of insects are ectotherms and their life activity mostly depends on temperature. Pathogens are highly dependent on environmental conditions.

Spraying is not performed at temperatures higher than 30°C and wind speeds higher than 3 m/s.

n/a

I suppose the sensitivity of the vegetation to the pest depends on phenological time. Pest has its own life-cycle and it is more harmful during certain period. Therefore it is necessary to know both of these periods/intervals - phenological phases and the life-cycle of the pest.



The amount of pests negatively affects the measurements, therefore we can get more accurate results with pest estimation.

I assume the influencing factors for timing pest control are air temperature (only cooler parts of the day are suitable) and wetness. The micrometeorological measurements can improve the efficiency of the pest control.

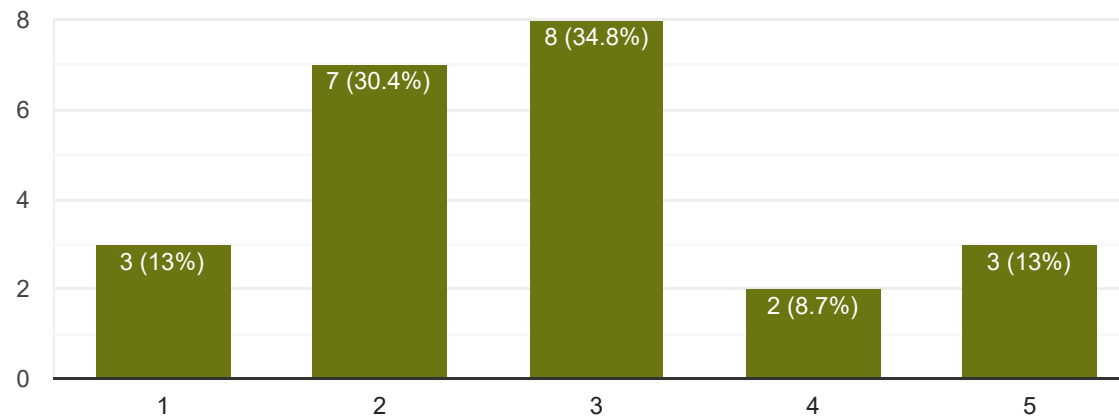
Sorry, no

no idea

Are you aware of the concepts of biological and economic thresholds?



23 responses



Do you know any unconventional agricultural meteorological datasets?

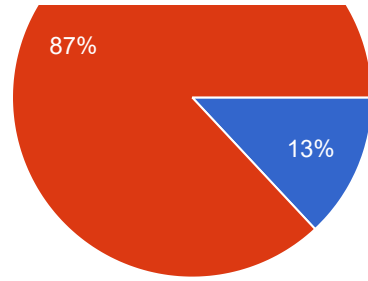


23 responses



- Yes
- No





If your question is Yes, please name at least one.

7 responses

NA

Only private one.

n/a

Drought,

plant development

but forest: SMEAR

personal weather station



Do you know how these could contribute to improve the availability of micrometeorological measurement?

8 responses

NA

It could contribute to very high-resolution observations which would enable better site-specific weather predictions.

n/a

a bigger network of stations(more data to analyze)

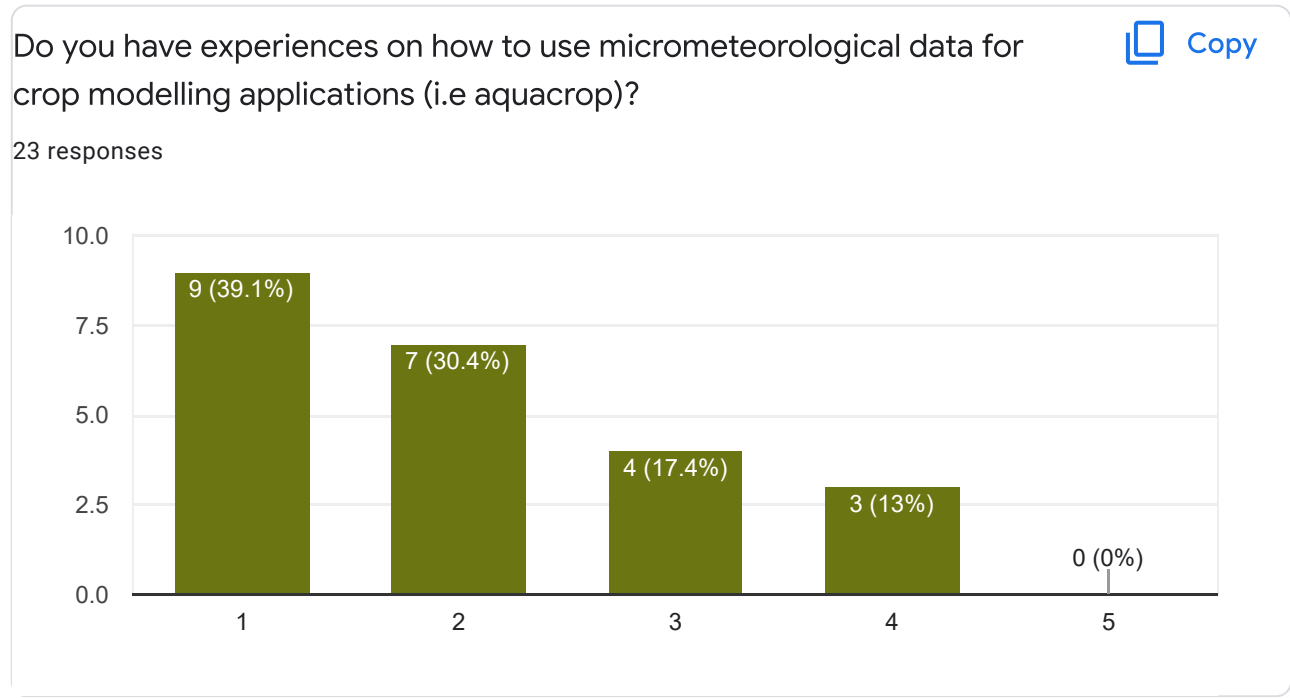
These datasets can be shared and easy to access for everybody interested in these topics, also allowing people to connect and share the experience and knowledge in solving similar issues.

To upgrade them

important in forest , measurements up to 110m

More and closer meteorological dataset



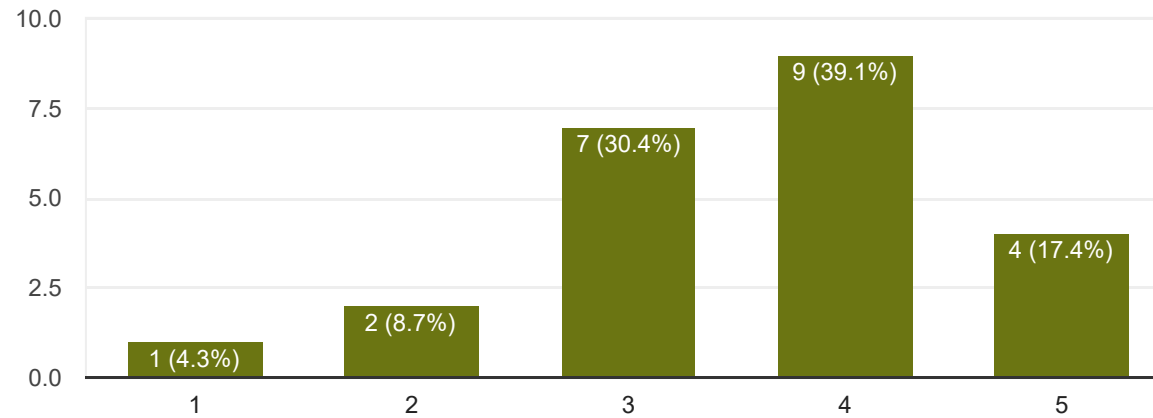


Local Climate Zones, Measurement methodologies for characterizing urban climate



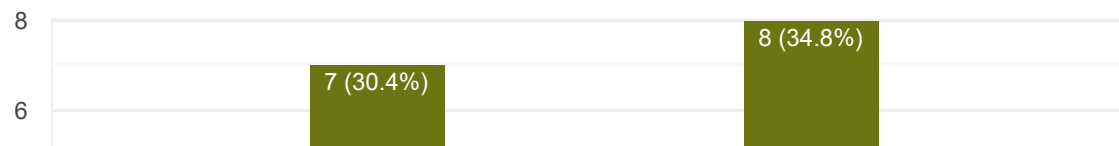
Are you aware of the importance of local climate zones in urban climate and urban heat island research? Copy

23 responses

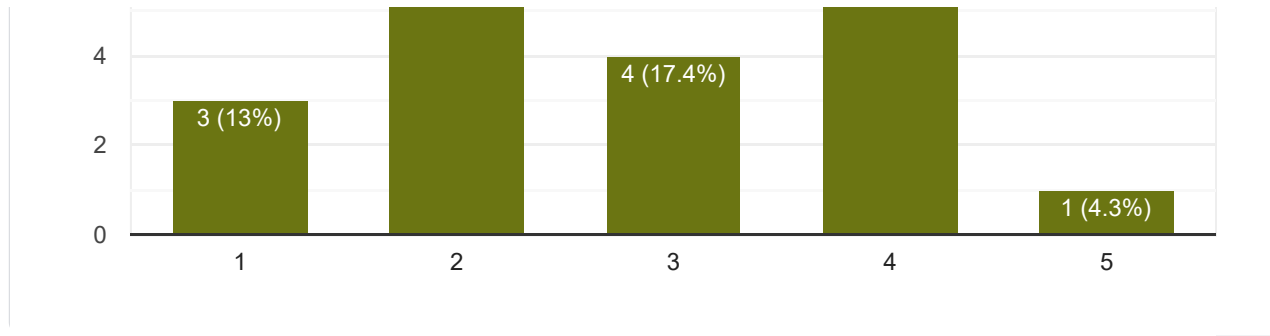


How knowledgeable are you about the importance and practicality of mobile meteorological instruments in monitoring the microclimate in cities? Copy

23 responses



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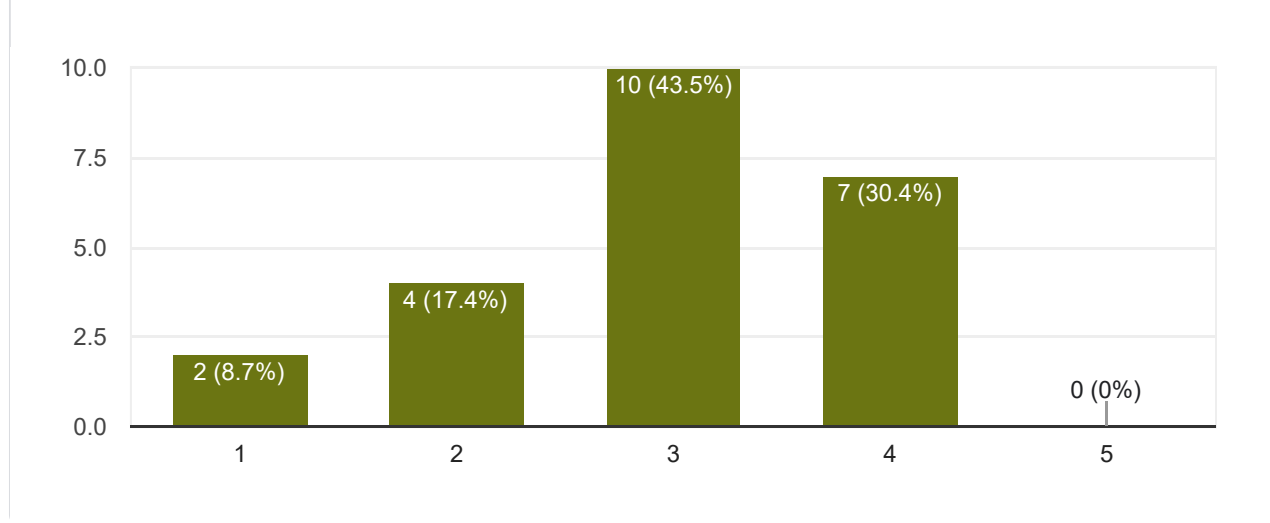


Remote sensing tools for micrometeorological applications

Evaluate your knowledge in remote sensing and what are the basic physical principles of it?



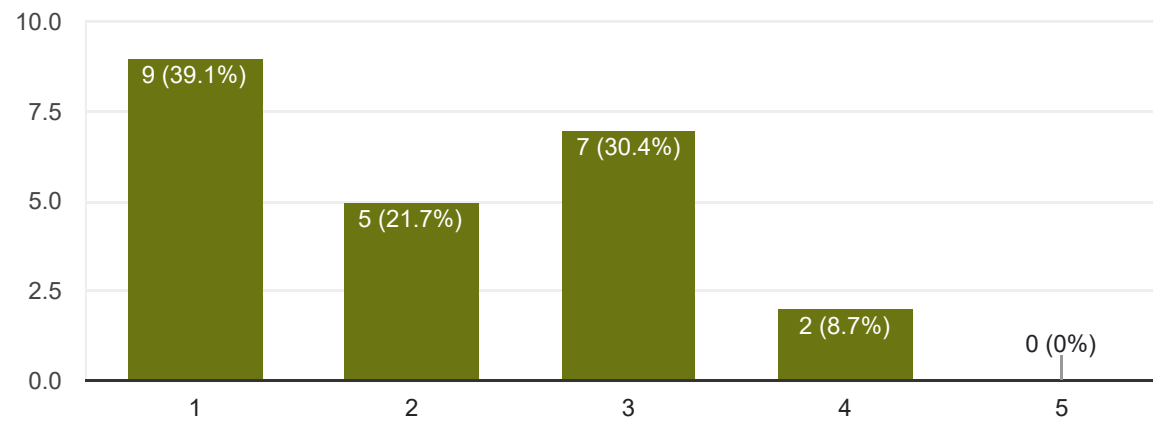
23 responses



Evaluate your knowledge in processing remote sensing products using ENVI and ARCMAP programs?



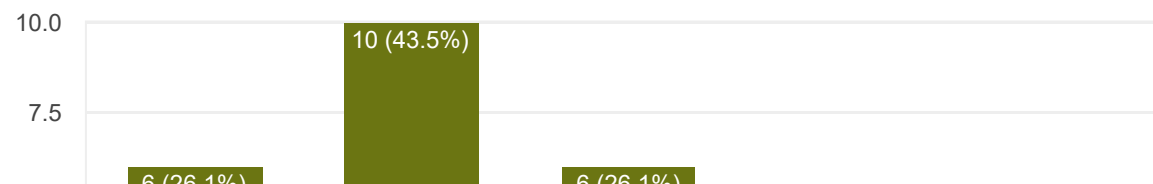
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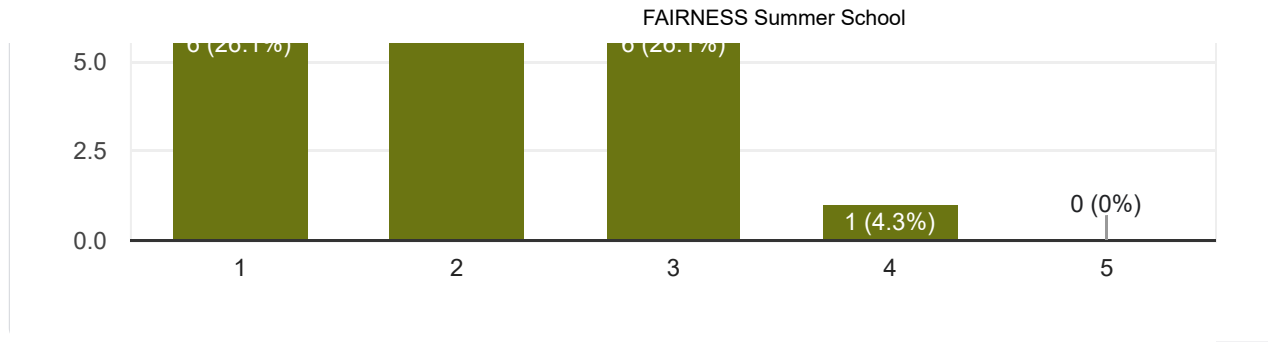


Evaluate your knowledge in use of remote sensing tools for micrometeorological applications?



23 responses



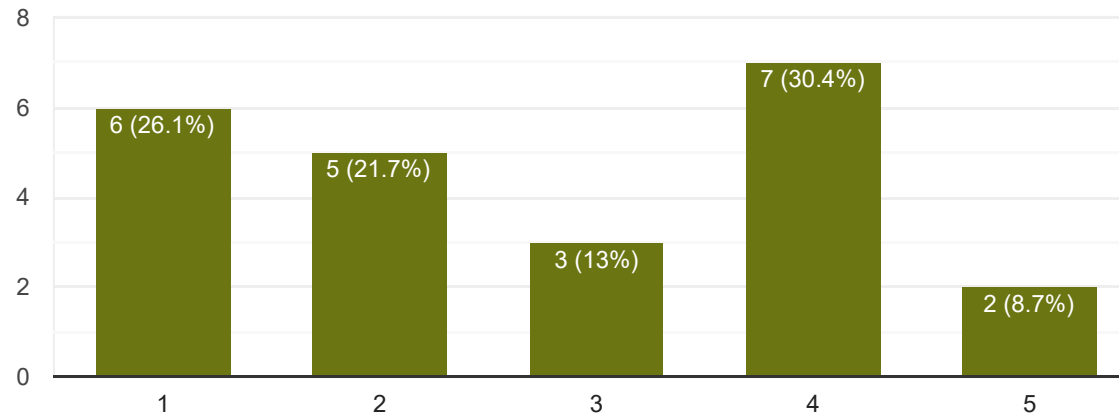


FAIRNESS principles

I know what is the meaning of FAIR acronym



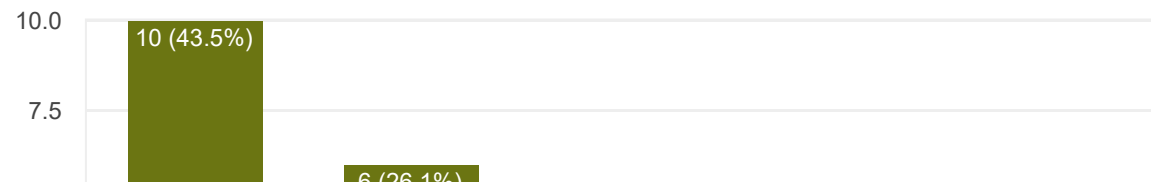
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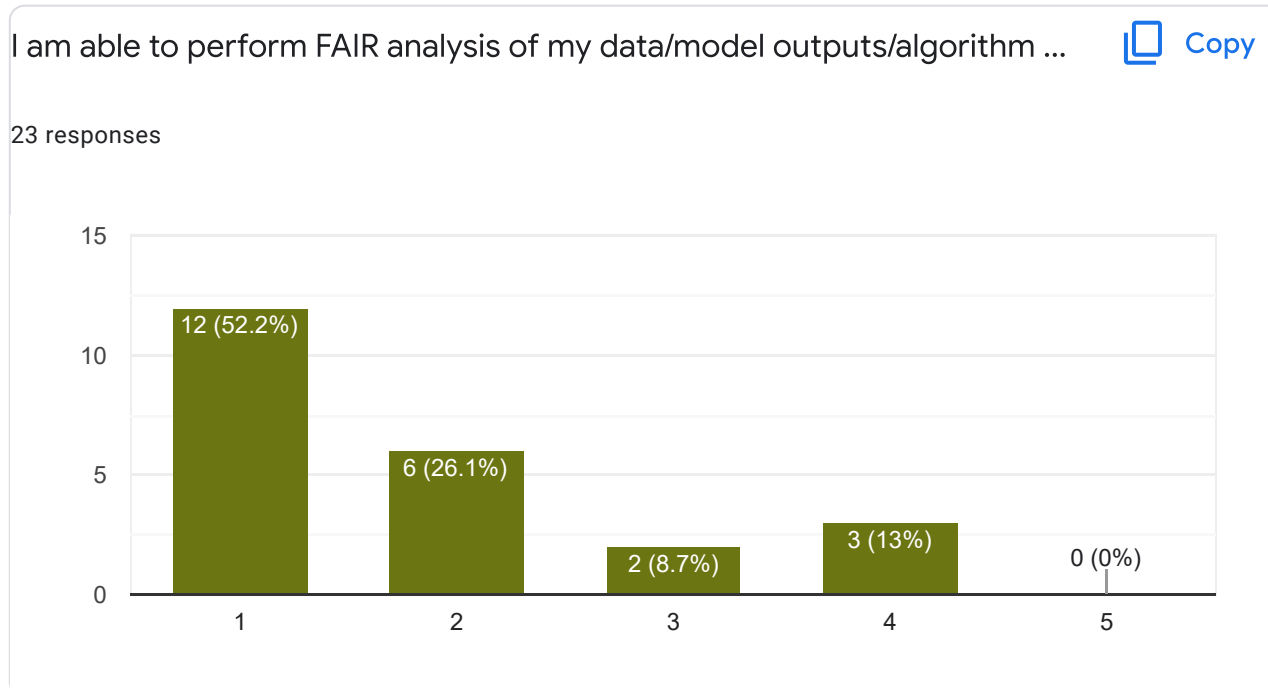
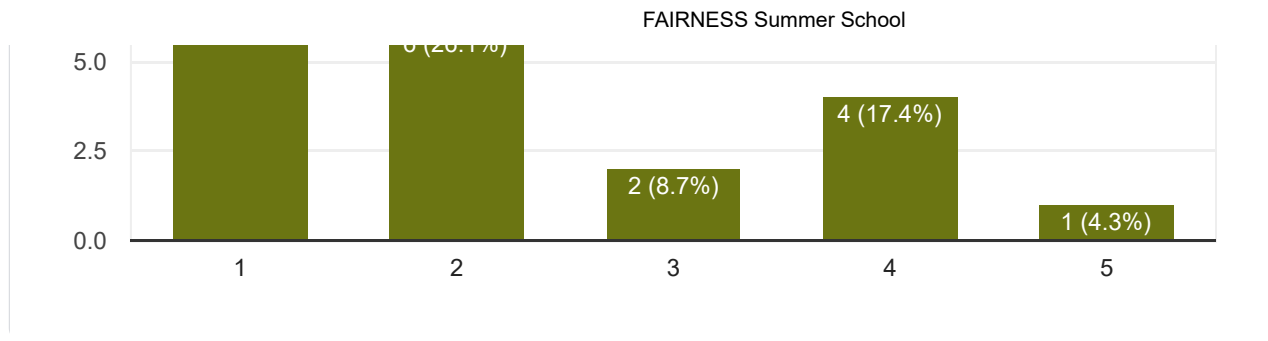


I know difference between FAIR and Open Access (OA) concepts




23 responses



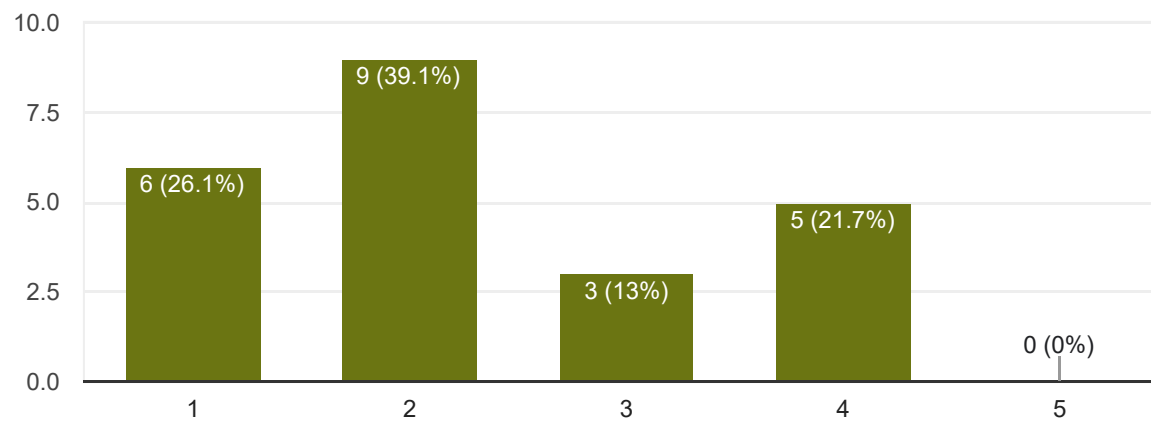



Gap filling, critical control, reanalysis data



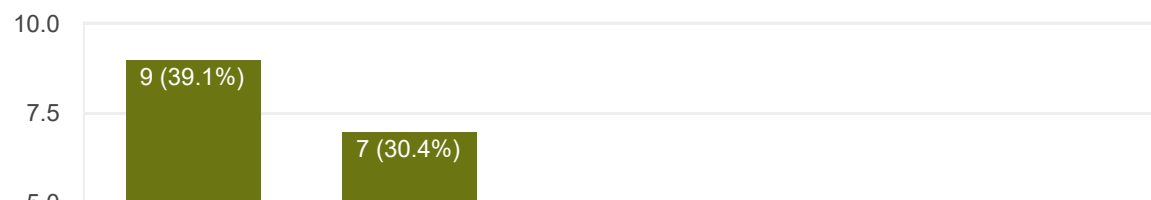
Are you aware of micrometeorological data gap filling methodologies and how to apply it in practice?  Copy

23 responses

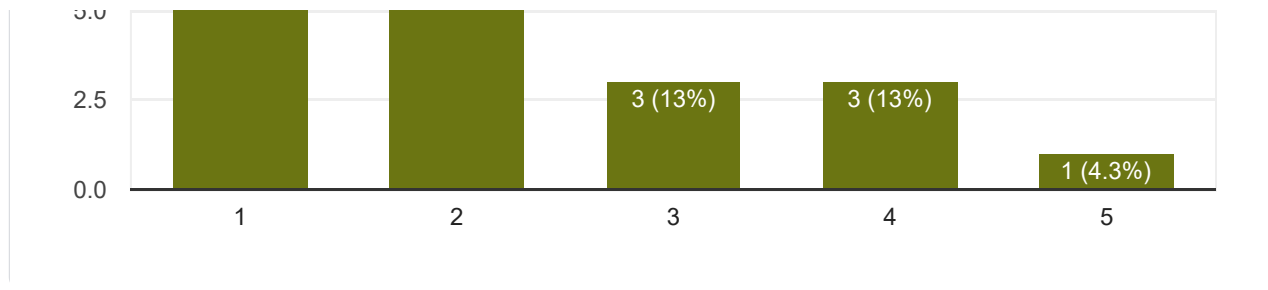


Do you know how reanalysis data are obtained, their advantages and disadvantages?  Copy

23 responses



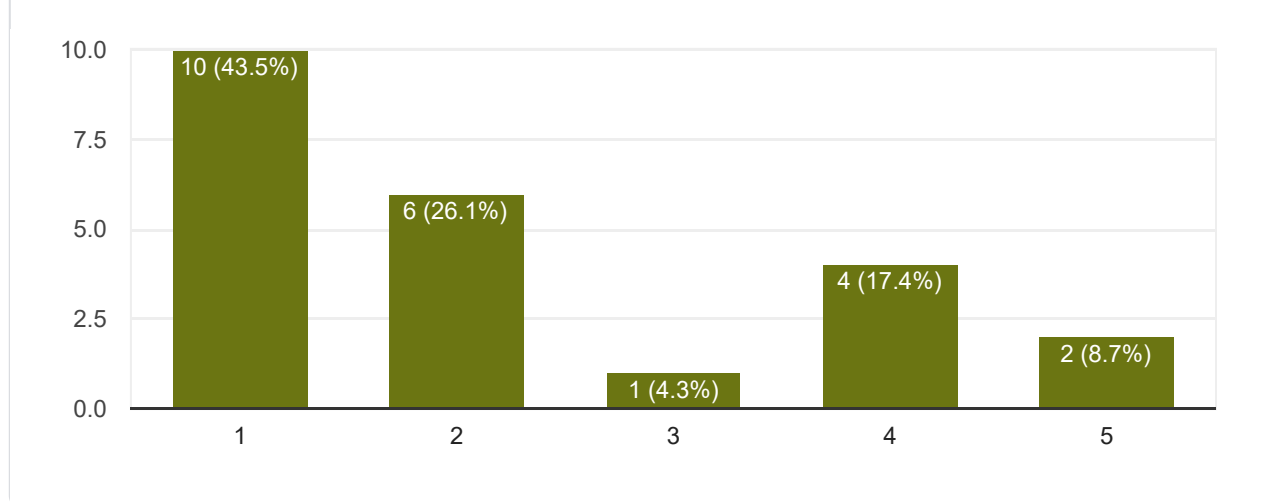
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Do know how to download reanalysis data for particular location?



23 responses



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