

UV index in practice

Worksheet

Task 1.

Before lesson each student should collect data from <http://www.weatherlink.com/map.php>.

Chose 3 sites from one country from <http://www.weatherlink.com/map.php> (centre, north and south of the country), and follow the instruction to find UVI value. In the Excel prepare 4 columns: time, UVI from the centre, north and south (example from Poland below).

Time	UV Index value		
	Instytut Geofizyki PAN	IGF PAN Stary Wiec	Rybnik Orzepowice
9.00			
10.00			
11.00			
12.00			
1.00			
2.00			
3.00			
4.00			
5.00			

Check UVI every 1 hour between 9 am and 5 pm (local time) and write it down for chosen sites. Prepare graphs.

What can you tell looking at the graphs? Try to answer questions below:

- At which site UVI values were the greatest (centre, north or south of the country)?

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- What factors influenced UVI values?

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- What was the maximum value of UVI for the chosen site?

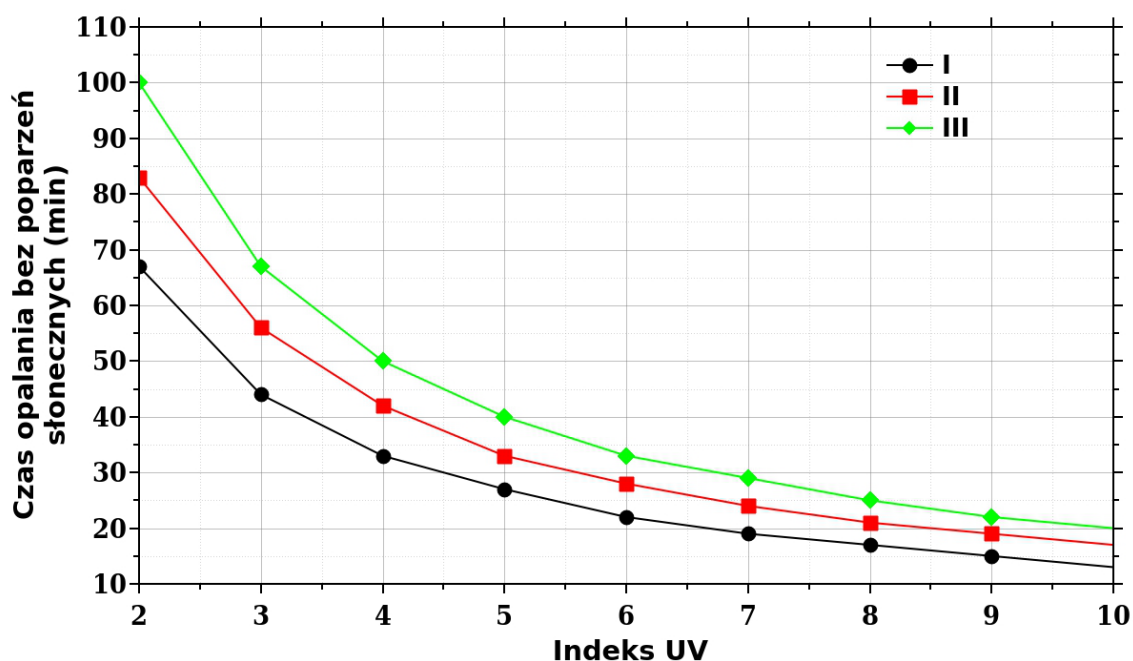
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Task 2.

This task will be carried out on the basis of aggregate data from the Geophysical Observatory of the Institute of Geophysics, Polish Academy of Sciences, in Belsk Duży (near Grójec). Search for the location of the observatory on the physical map of Poland.

<http://uvb.igf.edu.pl/archiwum/index.php?url=home.php&rok=2015&d=1463650154>

Read the maximum value of the index in the database and complete the table in task 2. Then, based on the graph, read the safe sun exposure time for a person with a skin phototype II.



Safe sun exposure time for a person with a skin phototype II:

Safe sun exposure time after applying a sunscreen (SPF15):