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by Somo Somo

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Earth Science

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Earth Science**Question1**

According to the principles of albedo surface, the urban areas are expected to be warmer than the rural areas. In urban areas, there is a lot of building and construction that associates the urban areas. Large buildings and other structures painted with shiny surfaces that attract sunlight influences the reflection of sunlight in the areas. Furthermore, most of the surfaces in the urban areas are covered by iron sheets that reflect lights, forming a large proportion of high albedo surfaces (Jandaghian & Berardi 2020). On the other hand, in the rural area, many surfaces are covered by vegetation such as a tree. In other words, there are fewer shiny surfaces in the rural areas as compared to the urban areas. The presence of less shiny surfaces makes the rural areas have low albedo surfaces. Therefore, the rural areas are expected to have low albedo surfaces and less warm than the urban areas. In conclusion, the higher the albedo surfaces in an area, the warmer the area.

Question two

There is a relatively high temperature in Norfolk, VA, compared to the temperature in San Francisco despite them being located on the same latitude. The warmer temperatures in Norfolk are majorly affected by the nearness to the ocean the high temperature. The closeness to the ocean of the Norfolk region contributes to warmer temperatures in the region. This is because the region receives warmer ocean currents from the northern side. The Norfolk region receives warmer ocean currents hence facilitating warmer climates (Siegel, 2019). On the other hand, the closeness of San Francisco to the ocean makes the temperature of the area cooler compared to those in Norfolk because the region receives cooler oceanic currents. The presence of cooler

oceanic currents contributes to less warm temperature conditions in San Francisco than in Norfolk region despite them being on the same latitude.

References

Jandaghian, Z., & Berardi, U. (2020). Analysis of the cooling effects of higher albedo surfaces during heat waves coupling the Weather Research and Forecasting model with building energy models. *Energy and Buildings*, 207, 109627.

Siegel, F. R. (2019). *Adaptations of coastal cities to global warming, sea-level rise, climate change, and endemic hazards*. Springer.

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