

ÅRSTIDER I FORANDRING? SEASONS IN TRANSITION

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Årstider i forandring?

I december 2010 holdt jeg juleferie på min barndomsegn i Østhimmerland. Dette år var der koldt, og landskabet var klædt i et fint, tyndt lag sne.

Sneen lyser op, og de mørke decemberdage trænges lidt tilbage. Datoen fortæller os, at nu er det vintersolhverv, og at vi igen går mod lysere tider.

Vinter – en af årets fire årstider. Vi har ofte en tendens til at benytte årstiderne som begreber om vejrliget; ”Sommeren kommer sent i år”.

Men faktisk er årstiderne astronomisk bestemte perioder. Temperaturen er den afgørende faktor i opdelingen i de fire årstider i Danmark. Og temperaturen afhænger af, hvor intensiv solskinnet er fra Solen.

Jordens omdrejningsakse hælder i forhold til Jordens bane. Denne hældning forårsager,

at vi får sommer, når Nordpolen hælder ind mod Solen. Ved vintersolhverv hælder Nordpolen bort fra Solen, og vi får mindre sol og køligere vejr.

Det betyder igen, at året normalt i Danmark inddeles i de fire årstider. Foråret omfatter månederne marts, april og maj. Sommeren omfatter juni, juli og august. Efteråret omfatter september, oktober og november og endelig omfatter vinteren månederne december, januar og februar.

I disse år oplever vi allerede klimaforandringerne. I fremtiden kan disse forandringer få stor indvirkning på vores årstider. Amerikanske forskere vurderede i år 2021 i en artikel i Geophysical Research Letters, at sommeren i år 2100 i vores område vil strække sig over et halvt år med fatale konsekvenser for menneskeheden.

Seasons in transition?

In December 2010, I spent a Christmas vacation in my childhood region of East Himmerland. That year, it was cold, and the landscape was dressed in a fine, thin layer of snow.

The snow brightens the surroundings, pushing back the dark December days. The date tells us that it is now the winter solstice and that we are once again moving toward brighter days.

Winter – one of the four seasons of the year. We often tend to use the seasons as concepts for describing the weather; “*Summer is late this year.*” But in fact, the seasons are astronomically determined periods. In Denmark, temperature is the determining factor in dividing the year into four seasons. Temperature depends on the intensity of sunlight from the Sun.

The Earth’s axis of rotation is tilted relative to its orbit. This tilt causes us to experience

summer when the North Pole leans toward the Sun. During the winter solstice, the North Pole tilts away from the Sun, giving us less sunlight and cooler weather.

This means that the year is normally divided into four seasons in Denmark. Spring includes March, April, and May. Summer includes June, July, and August. Autumn includes September, October, and November. Finally, winter encompasses December, January, and February.

In recent years, we have already experienced the effects of climate change. In the future, these changes could have a significantly impact on our seasons. In a 2021 article in Geophysical Research Letters, American researchers estimated that by 2100, summer in our region could extend over half the year, with fatal consequences for humanity.



Østhimmerland, december 2010

East Himmerland, December 2010



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Østhimmerland, januar 2011

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Østhimmerland, december 2010

East Himmerland, December 2010



Østhimmerland, januar 2011

East Himmerland, January 2011

KOLOFON

Ugens foto: Årstider i forandring?
Af Keld Jensen

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COLOPHON

Photo of the week: Seasons in transition?
By Keld Jensen

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