**Rutgers Snow Lab**

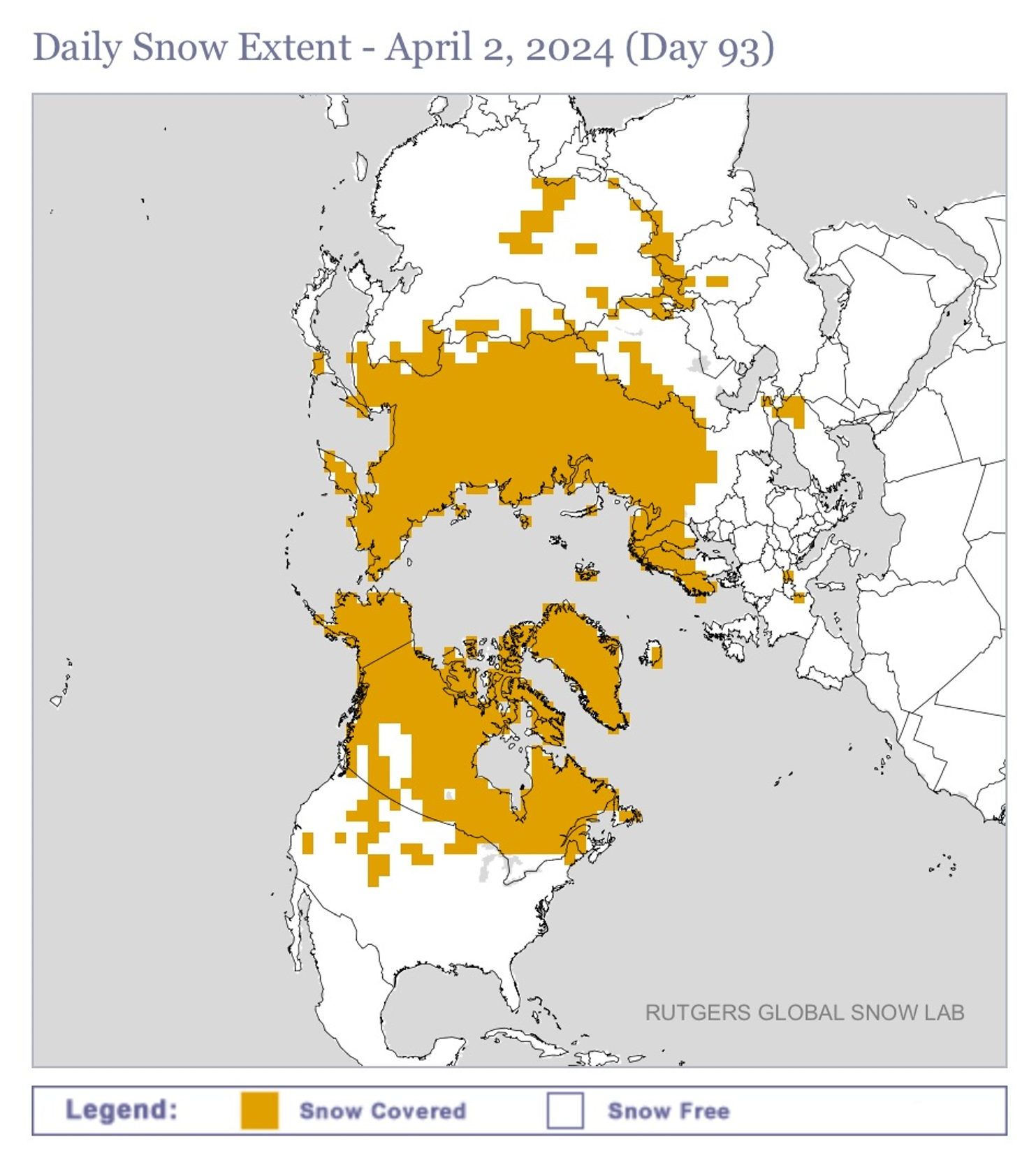
**Av Espen Andre Røinaas, Lektor**

**Rutgers Snow Lab er et bemerkelsesverdig forskningsmiljø som utforsker snø og is på en dyp og fascinerende måte. La oss ta en titt på hva som gjør dette laboratoriet så spesielt:**

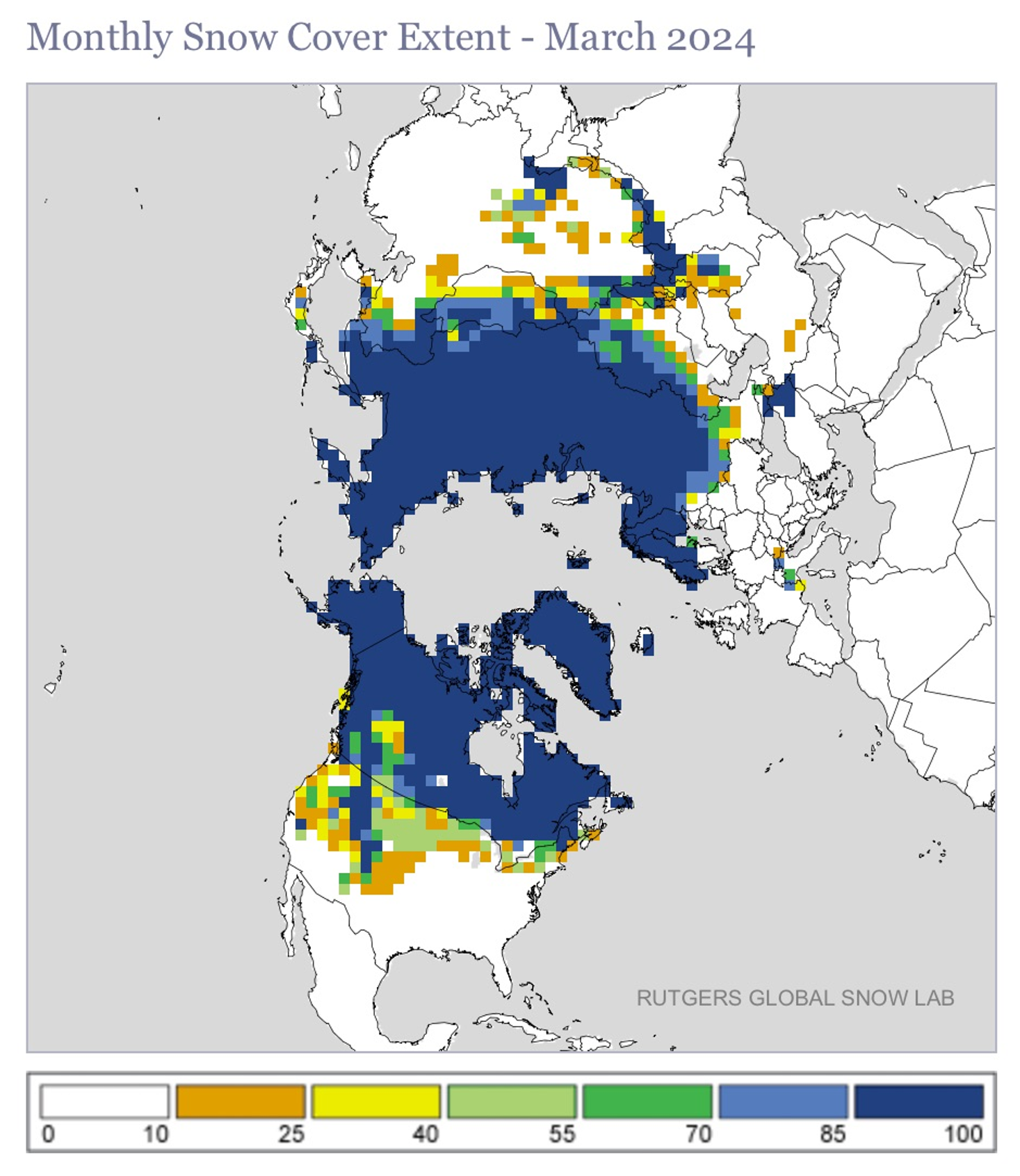
1. **Historie og opprinnelse:**
   * **Rutgers Snow Lab ble grunnlagt ved Rutgers University i New Jersey, USA. Siden starten har det vært et senter for studier av snødekket, iskappen og klimaendringer.**
   * **Laboratoriet ble etablert for å forstå de komplekse prosessene som foregår i snø og is, og hvordan de påvirker jordens klima.**
2. **Forskning og eksperimenter:**
   * **Snøkrystallstudier: Forskerne ved Rutgers Snow Lab har viet mye tid til å studere snøkrystallenes struktur og vekst. De bruker sofistikerte instrumenter og mikroskoper for å avdekke de skjulte hemmelighetene bak disse vakre isformasjonene.**
   * **Iskjernestudier: Laboratoriet har også fokusert på å trekke ut iskjerner fra isbreer og polare områder. Disse iskjernene gir verdifull informasjon om klimaendringer gjennom historien.**
   * **Snøalbedo: Forskerne analyserer hvordan snøens refleksjonsevne (albedo) påvirker jordens energibalanse og klima.**
3. **Teknologi og samarbeid:**
   * **Avansert utstyr: Rutgers Snow Lab har tilgang til høyteknologisk utstyr, inkludert satellitter, droner og sensorer. Dette gjør det mulig å overvåke snø- og isforhold over store områder.**
   * **Internasjonalt samarbeid: Laboratoriet samarbeider med andre forskningsinstitusjoner og organisasjoner over hele verden. Dette gjør det mulig å dele data og innsikt for å forstå globale klimaendringer bedre.**
4. **Betydning og fremtid:**
   * **Klimaendringer: Forskningen ved Rutgers Snow Lab gir verdifull innsikt i hvordan snø og is reagerer på klimaendringer. Dette har stor betydning for å forstå og forutsi fremtidige endringer i jordens klima.**
   * **Utdanning og bevissthet: Laboratoriet er også engasjert i å utdanne studenter og allmennheten om viktigheten av snø- og isforskning.**

**Rutgers Snow Lab er et eksempel på hvordan vitenskap kan avdekke naturens mysterier**

**Ulike grafer om snødekning**



**Grafen viser snødekningen på landområder i den nordlige halvkule den 2. april 2024. Du kan også utforske snødekket for hver dag tilbake til 1. november 1998 ved å trykke deg tilbake i tid.**



**Grafen viser snødekningen på landområder i den nordlige halvkule i mars 2024. Du kan også utforske snødekket for hver måned tilbake til november 1966 ved å trykke deg tilbake i tid.**

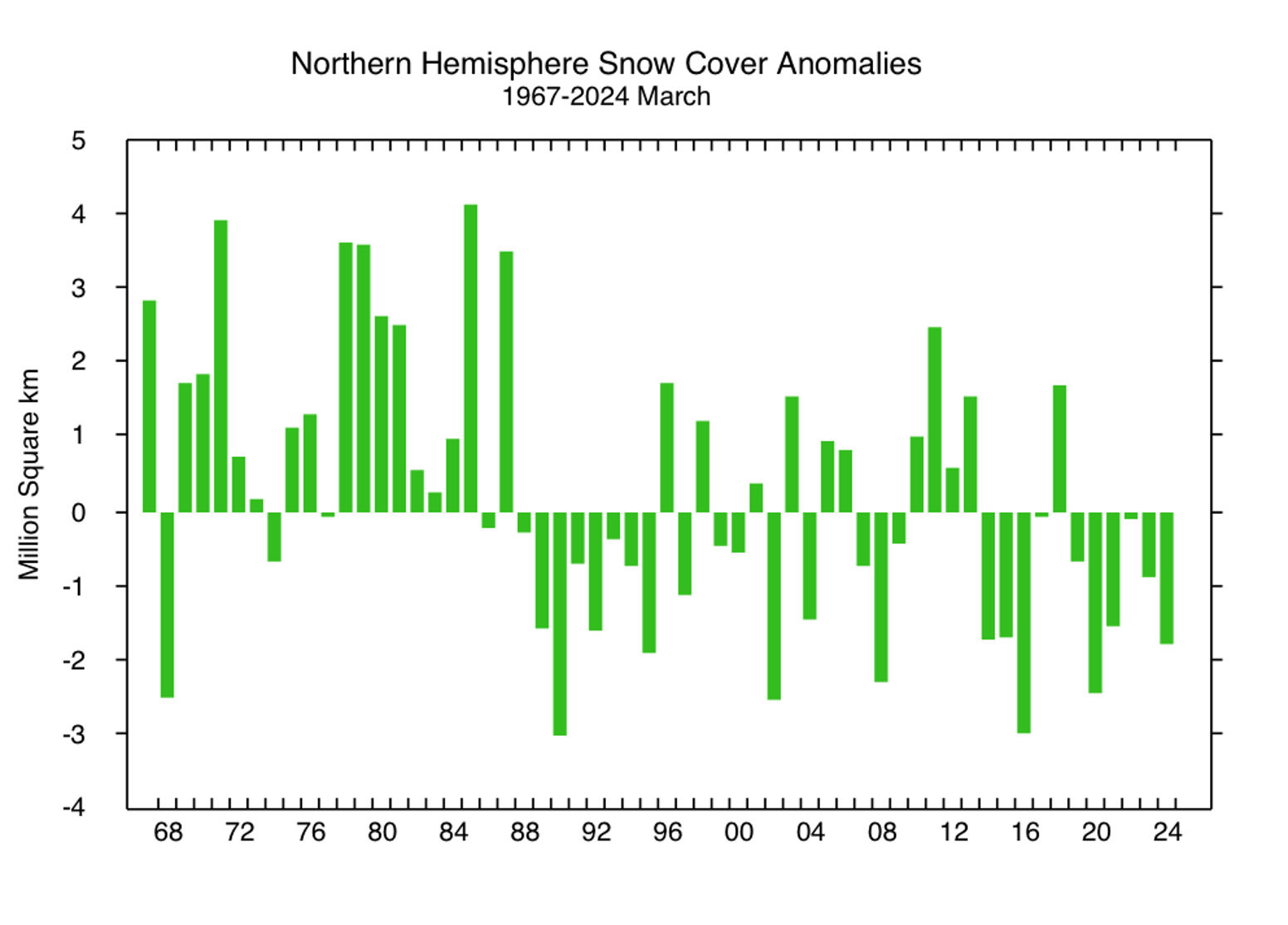
**Fargene viser ulik dekning i prosent.**

![Et bilde som inneholder tekst, skjermbilde, Plottdiagram, diagram

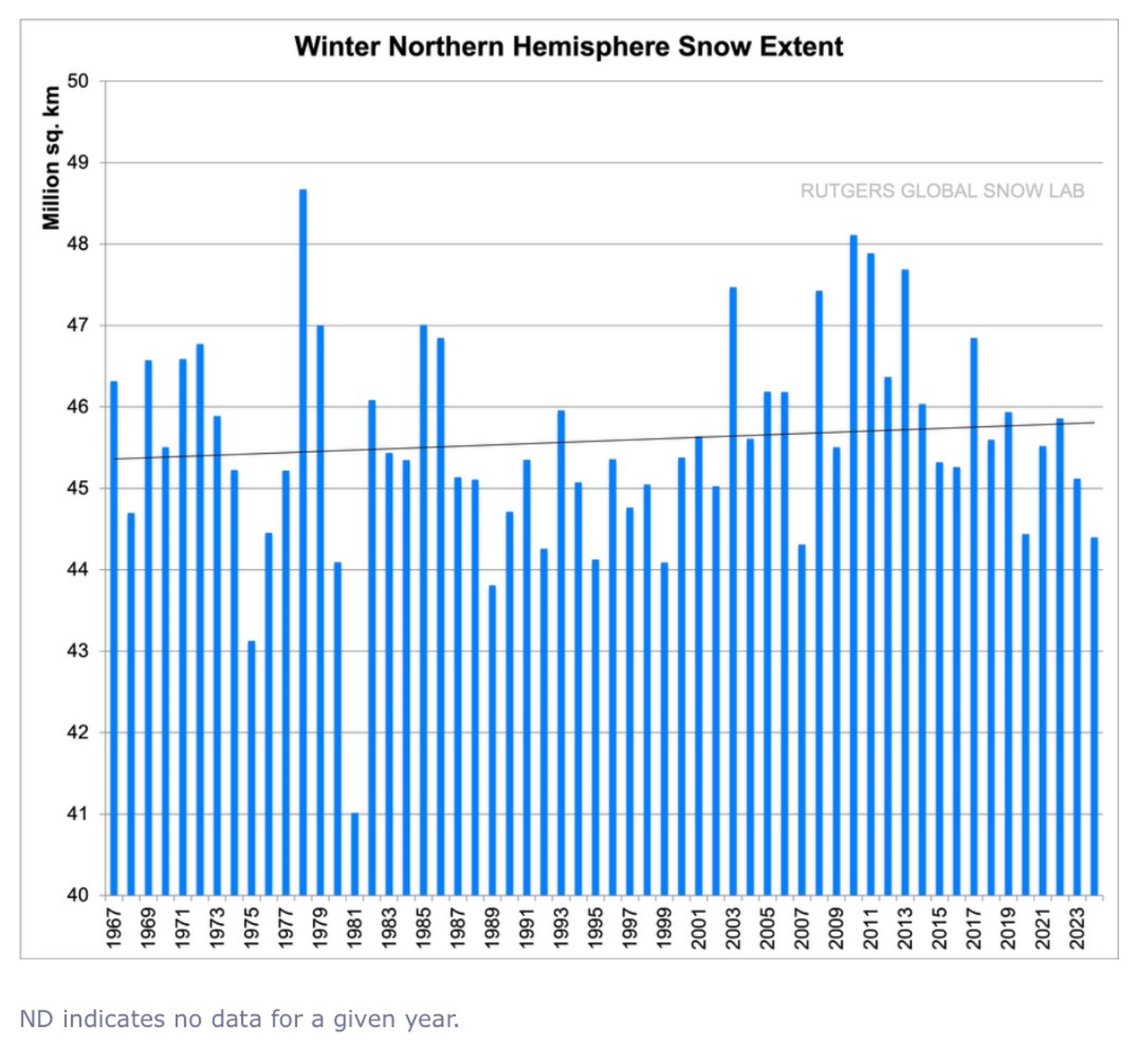
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NjM4NDwveG1wOkNyZWF0b3JUb29sPjx4bXA6Q3JlYXRlRGF0ZT4yMDI0LTA0LTA0VDIxOjExOjMyLjg4MzwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAg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**12-måneders løpende avvik for månedlig snøutbredelse er plottet på den 7. måneden ved hjelp av verdier beregnet fra november 1966 til desember 2022. De løpende avvikene er plottet på datoer fra mai 1967 til juli 2021. Dette gir oss innsikt i endringer i snødekning over tid.**

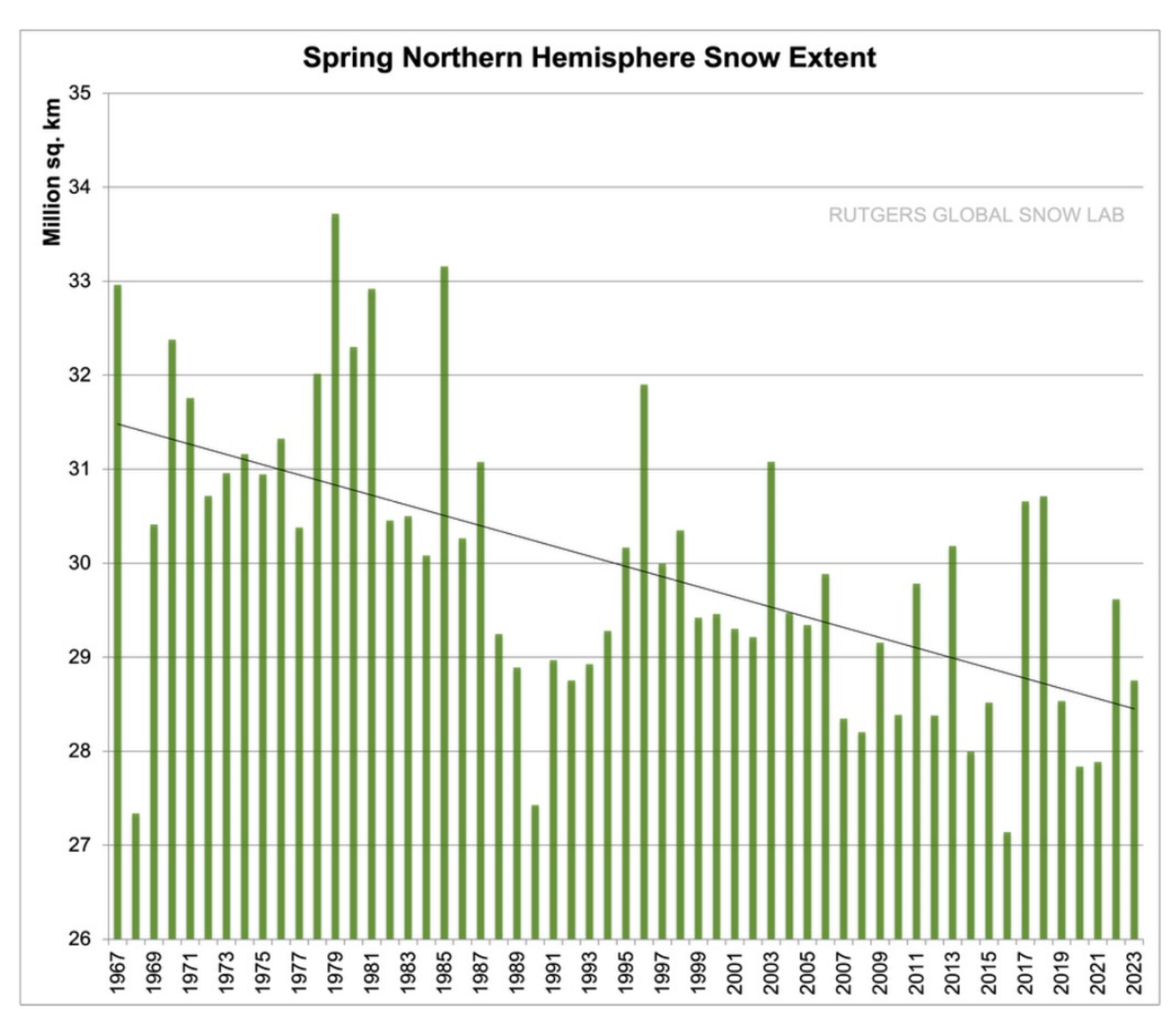
**NH-nordlige halvkule, EUR-Europa og nordlige deler av Asia, NA-Nord Amerika**



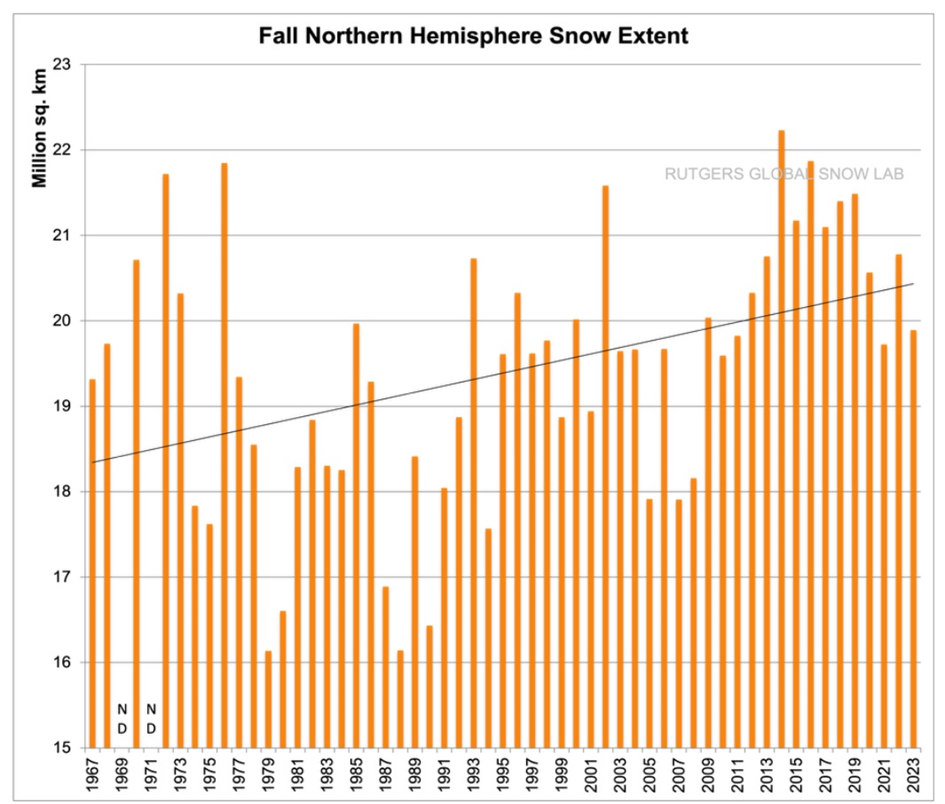
**Samme graf, men satt opp som stolpediagram for lettere å se endringer over tid.**



**Grafen viser et har vært en svak økning i snødekke på den nordlige halvkule siden 1967.**



**Grafen viser 10 prosent reduksjon i snødekke på våren i den nordlige halvkule siden 1967.**



**Grafen viser 10 prosent økning i snødekke på høsten i den nordlige halvkule siden 1967.**

**Årsakene til endringene i snødekning på våren og høsten i den nordlige halvkule siden 1967 kan være komplekse og multifaktorielle. Her er noen mulige faktorer som kan bidra til disse observasjonene:**

1. **Klimaendringer:**
   * **Global oppvarming kan ha påvirket snømønstre over tid. Økte gjennomsnittstemperaturer fører til smelting av snø tidligere på våren og senere snøfall om høsten.**
   * **Endringer i nedbørsmønstre kan også spille en rolle. Hvis det er mindre snøfall om våren, kan det skyldes mindre nedbør eller endringer i nedbørstidspunktet.**
2. **Naturlige variasjoner:**
   * **Årlige svingninger i været og klimaet kan føre til variasjoner i snødekning. Noen år kan være spesielt kalde eller varme, og dette påvirker snømengden.**
   * **Atmosfæriske sirkulasjonsmønstre, som for eksempel jetstrømmer, kan påvirke hvor snøen faller og hvor lenge den blir liggende.**
3. **Lokale og regionale faktorer:**
   * **Topografi: Snømengden kan variere betydelig avhengig av høyde og terreng. Noen områder kan være mer utsatt for snøfall enn andre.**
   * **Landbruk og urbanisering: Endringer i landbruk og byutvikling kan påvirke snødekningen. Urbanisering kan føre til økt smelting og mindre snøakkumulering.**
4. **Langsiktige klimatrender:**
   * **Observasjoner over flere tiår gir oss muligheten til å se langsiktige trender. Hvis disse trendene fortsetter, kan det gi oss mer innsikt i årsakene bak endringene.**
5. **Jordens helning (aksial tilt):**
   * **Jordens helning spiller også en viktig rolle i sesongvariasjoner. Om våren, når jorden heller slik at den nordlige halvkulen blir mer eksponert for sollys, fører dette til smelting av snø. Om høsten, når jorden heller motsatt vei, begynner snøen å falle igjen, og snødekningen øker.**

**Det er viktig å merke seg at flere faktorer kan samvirke, og det er nødvendig med grundig forskning for å forstå de spesifikke årsakene til disse endringene. Klimavitenskapen er et komplekst felt, og forskere jobber kontinuerlig med å forstå hvordan klimaet endrer seg og hvilke faktorer som påvirker det.**

**Kilde:**

* https://climate.rutgers.edu/snowcover/index.php