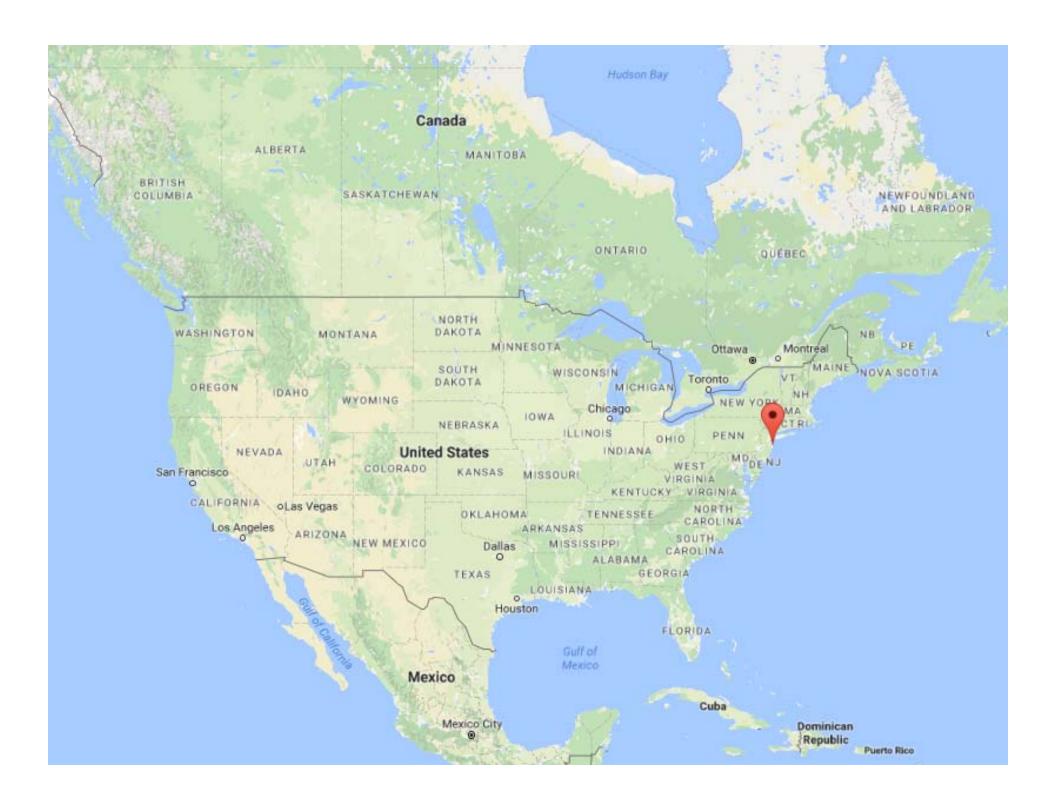
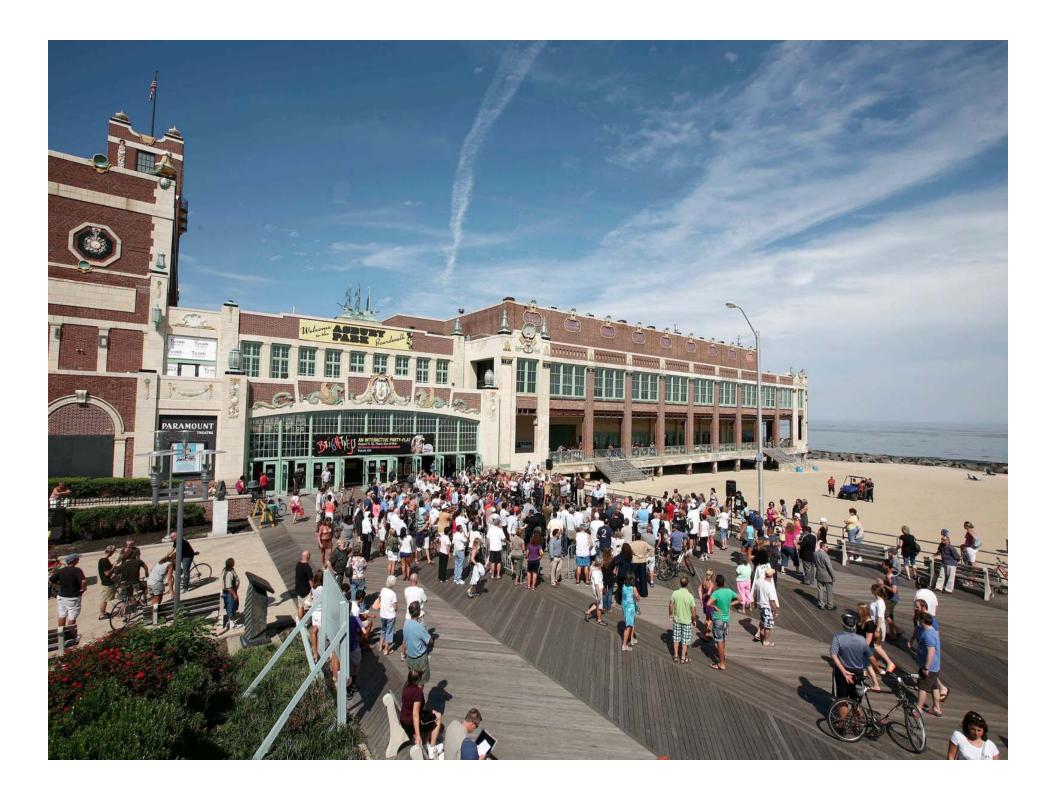


The Norwegian Mindset for Loving Winter

Kari Leibowitz Stanford University



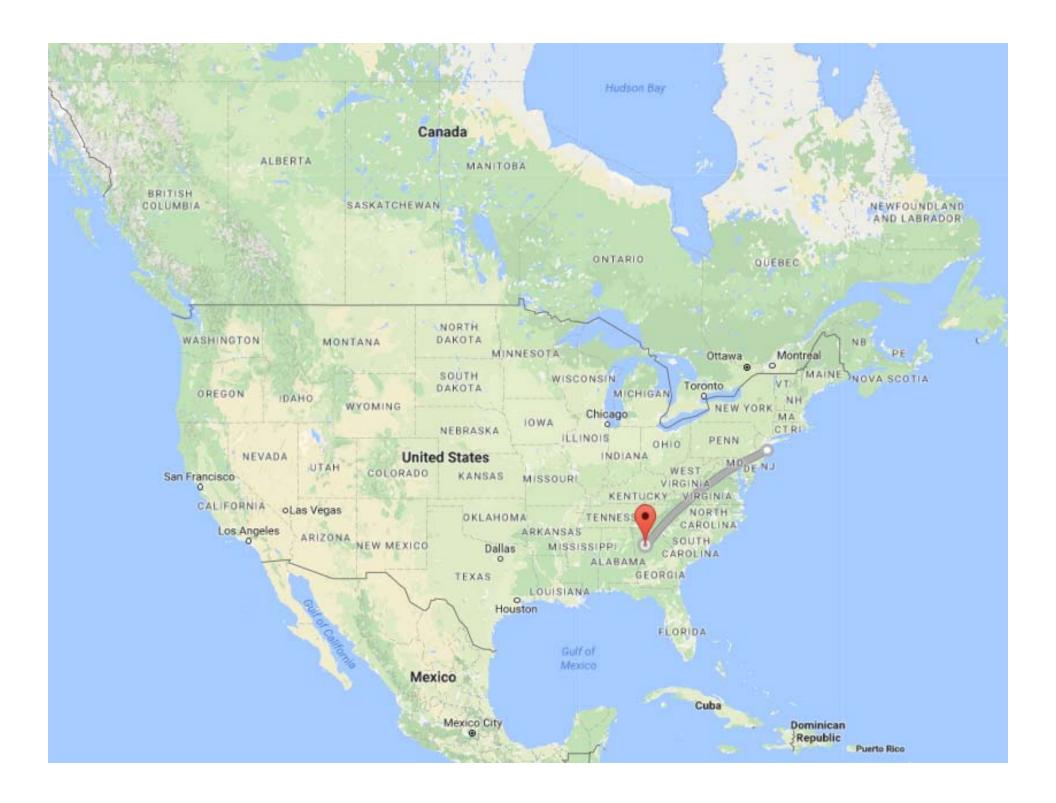










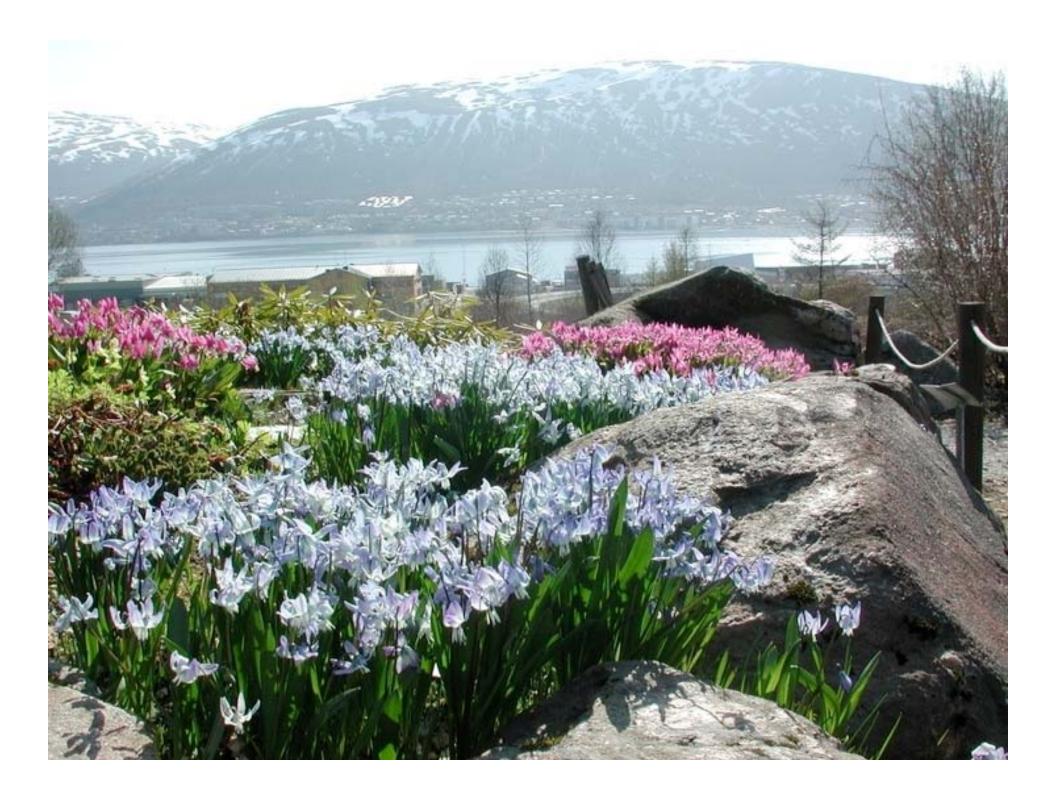


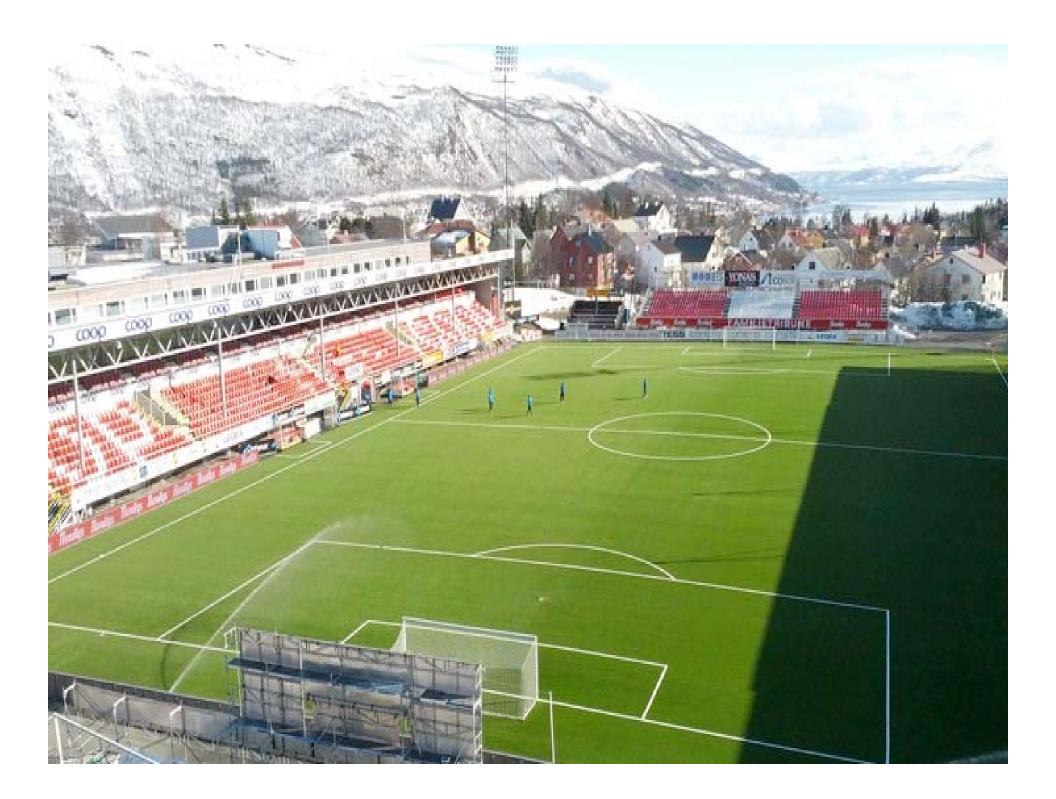




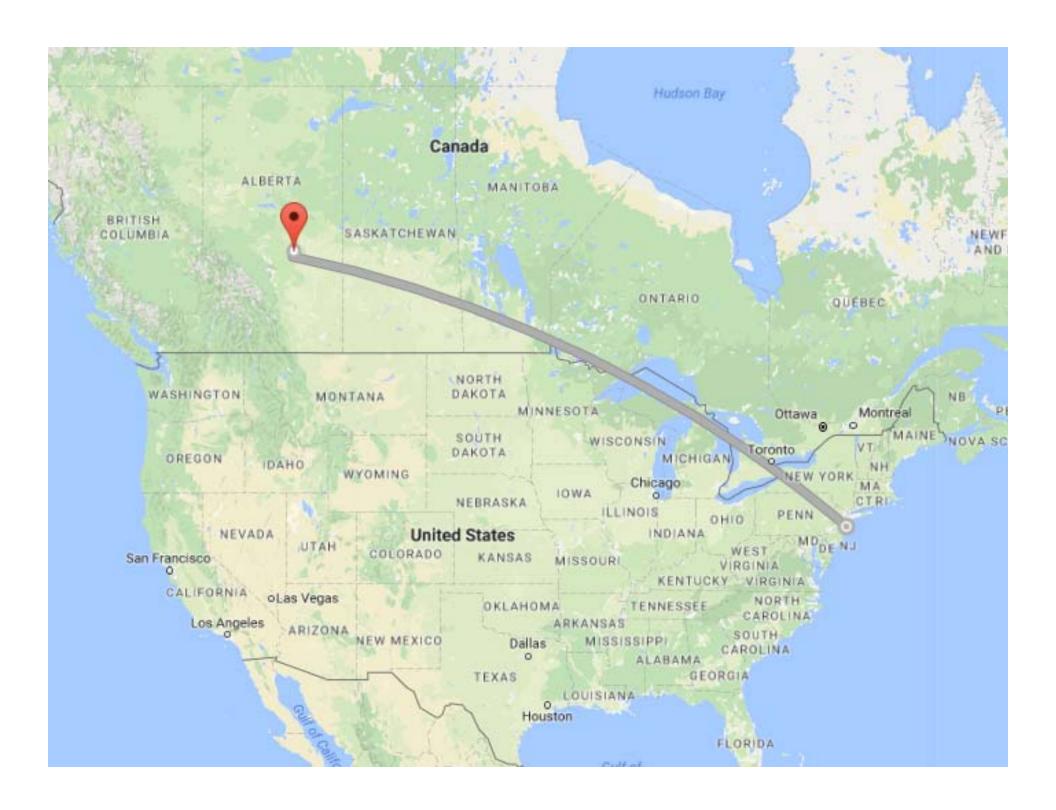


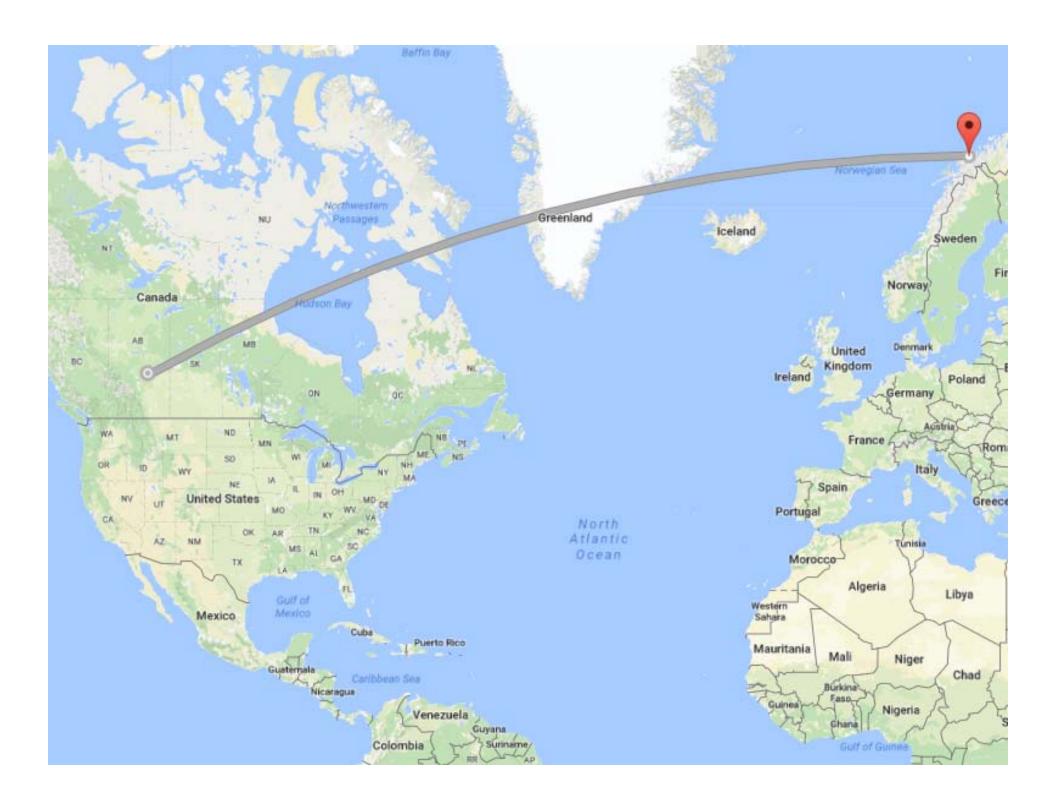












Tromsø



TEMPERATURE

REALFEEL®

PRECIPITATION

Intermittent clouds

09

10

11

SATURDAY

NOON

13



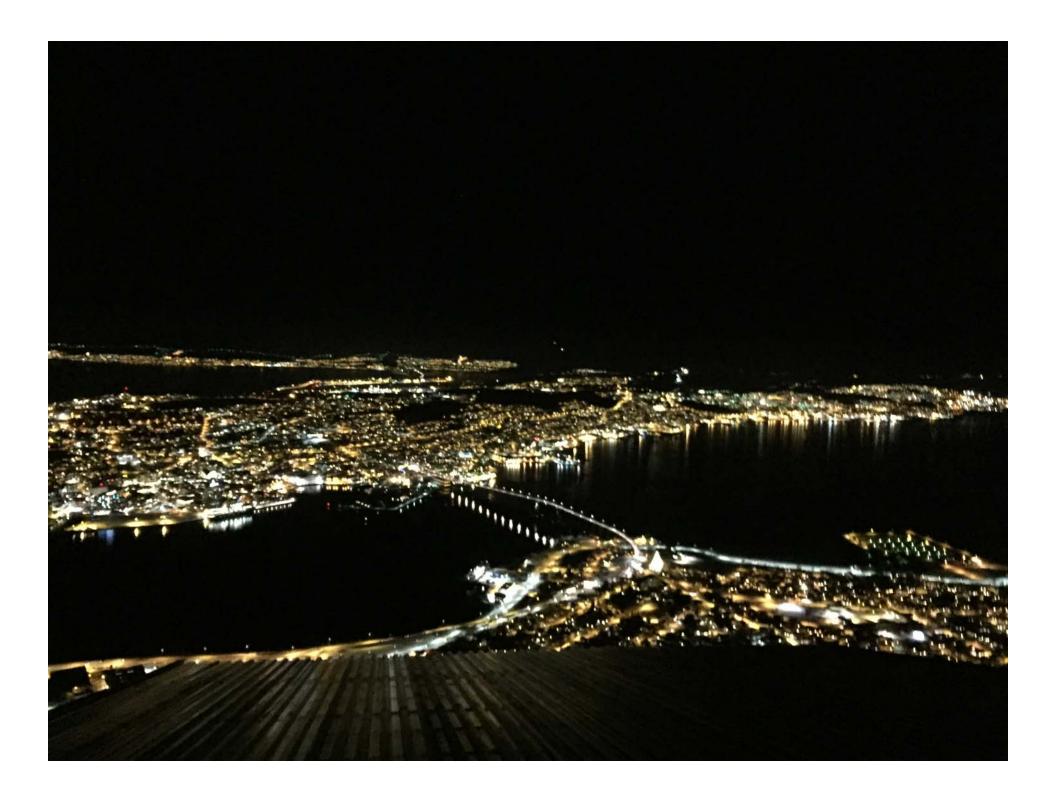






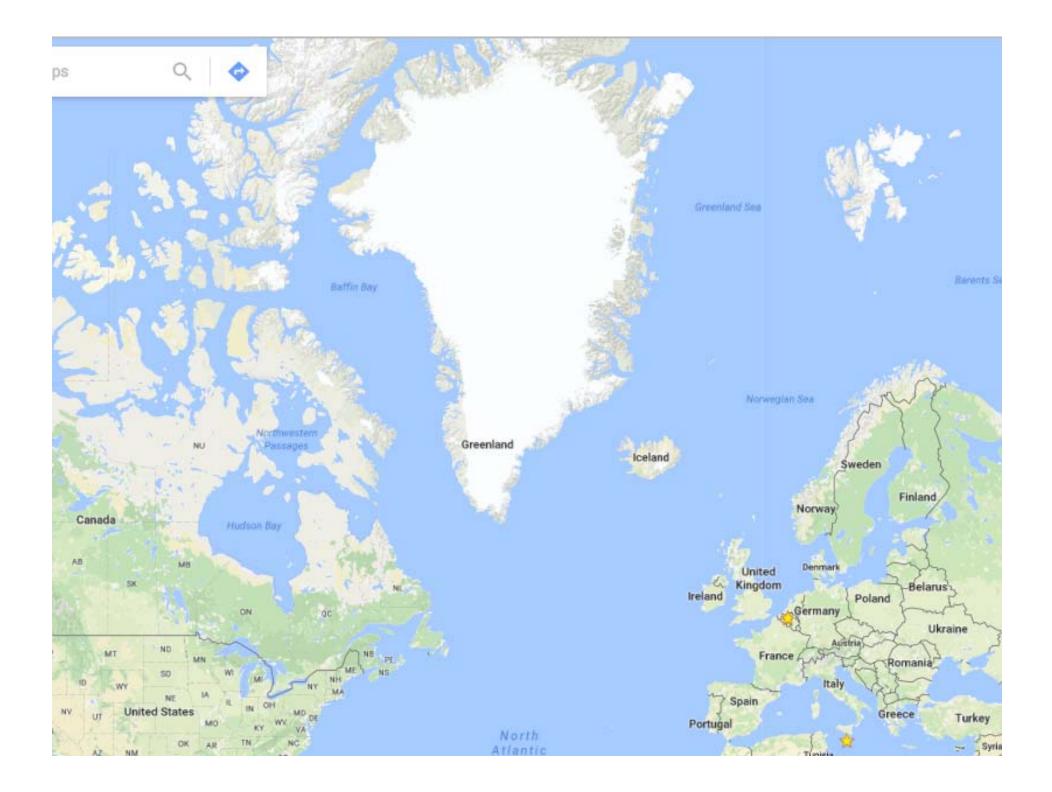




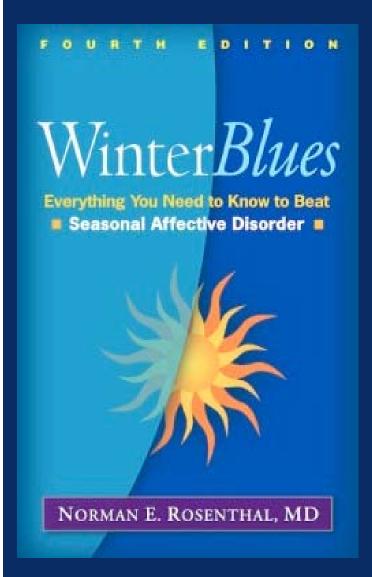








Seasonal Affective Disorder



- First systematically described by Norman Rosenthal in 1980s
- Clinical depression with a seasonal pattern



Kellogg's have made a light therapy Quiz: Col bowl so you can fight SAD Around 6% of U over breakfast

order?

the BMJ.

One

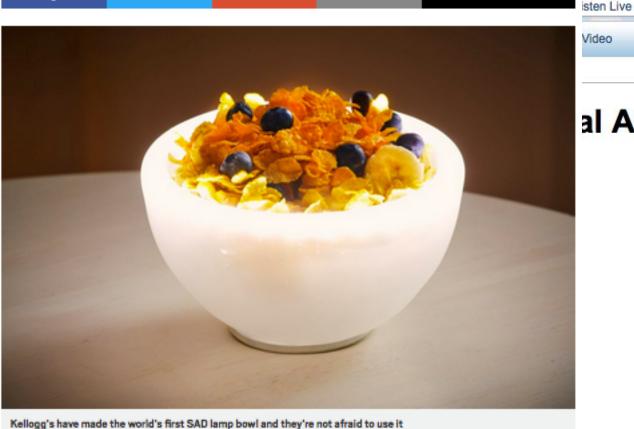
66

Toronto More Streams





A pilot project is giving



al Affective

radioo



- No evidence of higher rates of wintertime depression¹
- Same rates of self-reported depression in winter as in Maryland, USA at 39° and 41° north^{1,2,3}

¹Hansen et al., 1991; ²Kasper et al., 1989; ³Rosen et al., 1990

Tromsø



 No seasonal differences in reporting of mental distress among residents of Tromsø¹

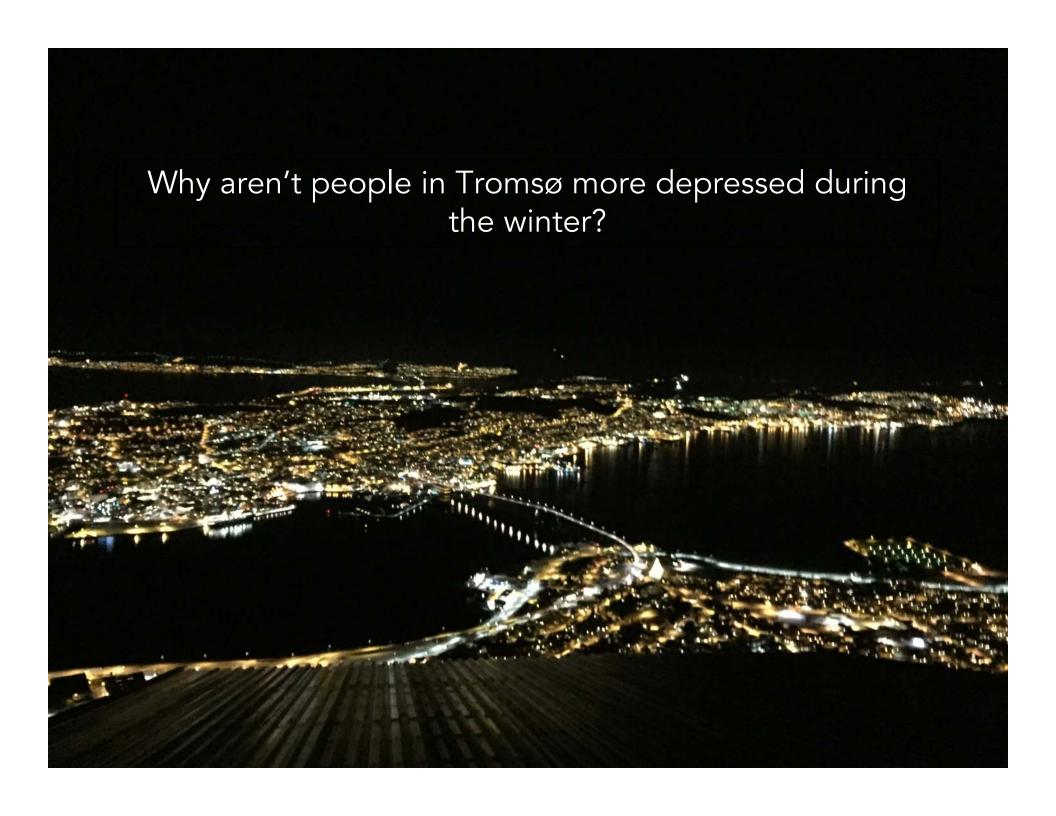
Tromsø Main Street

Tromsø



 Same rates of selfreported depression in winter as in USA at 39° and 41° north^{1,2,3}

Tromsø Main Street



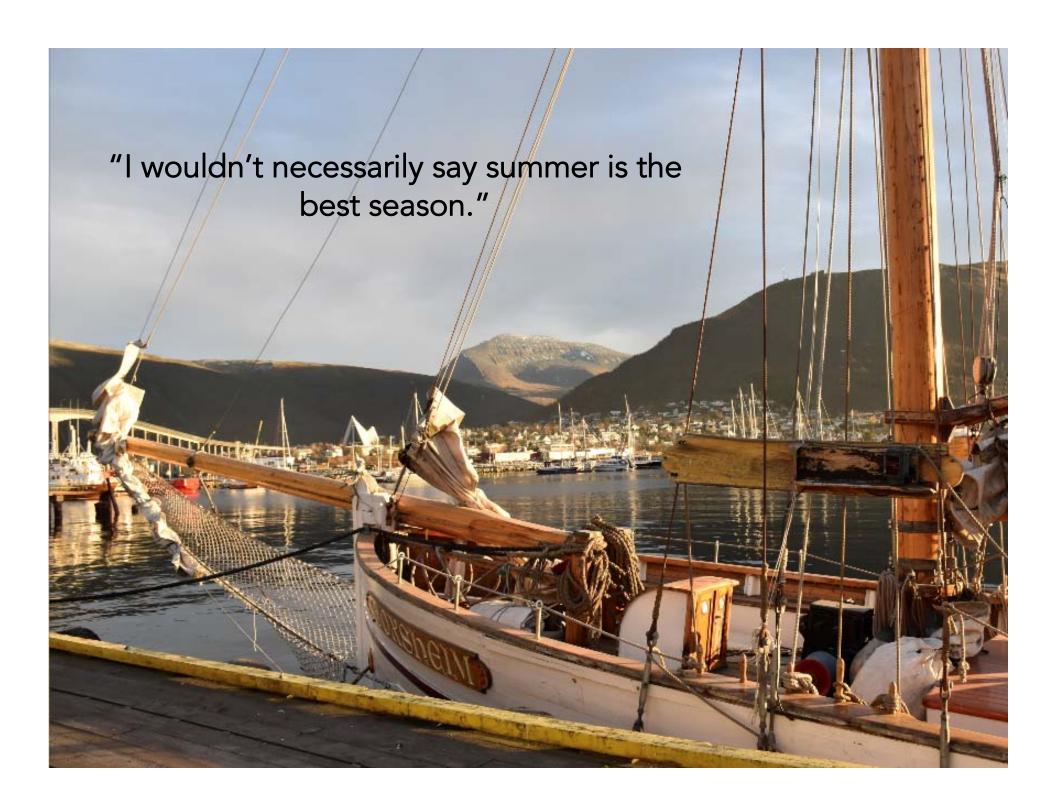


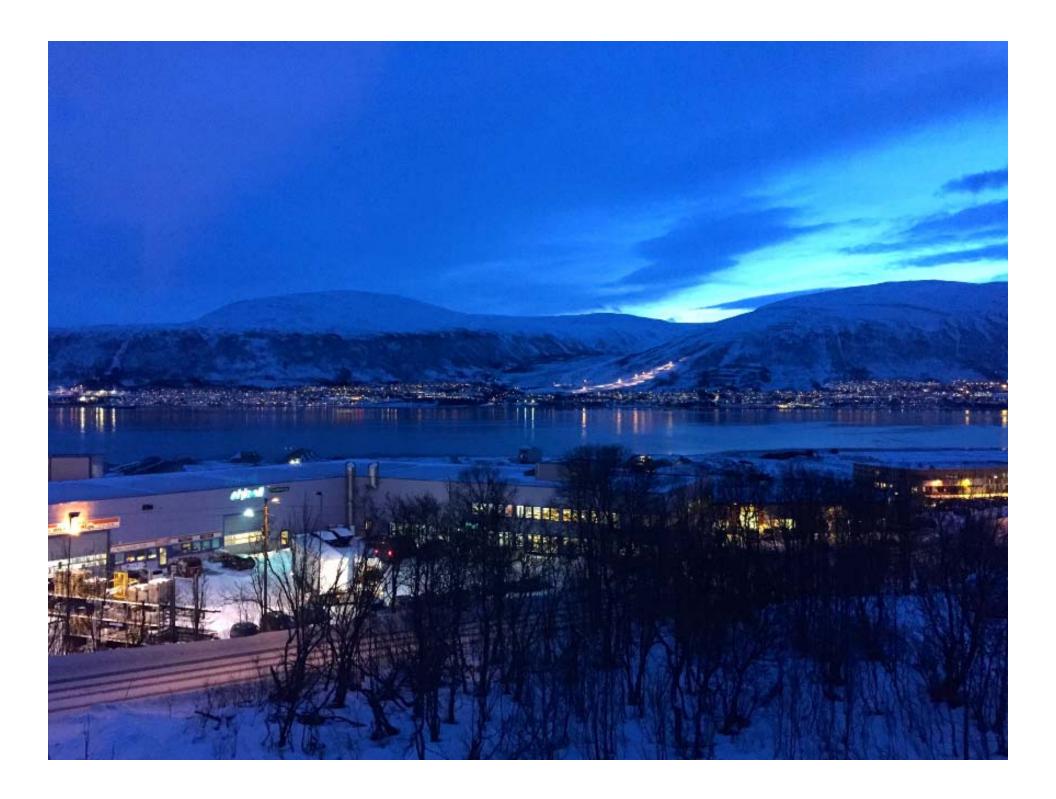










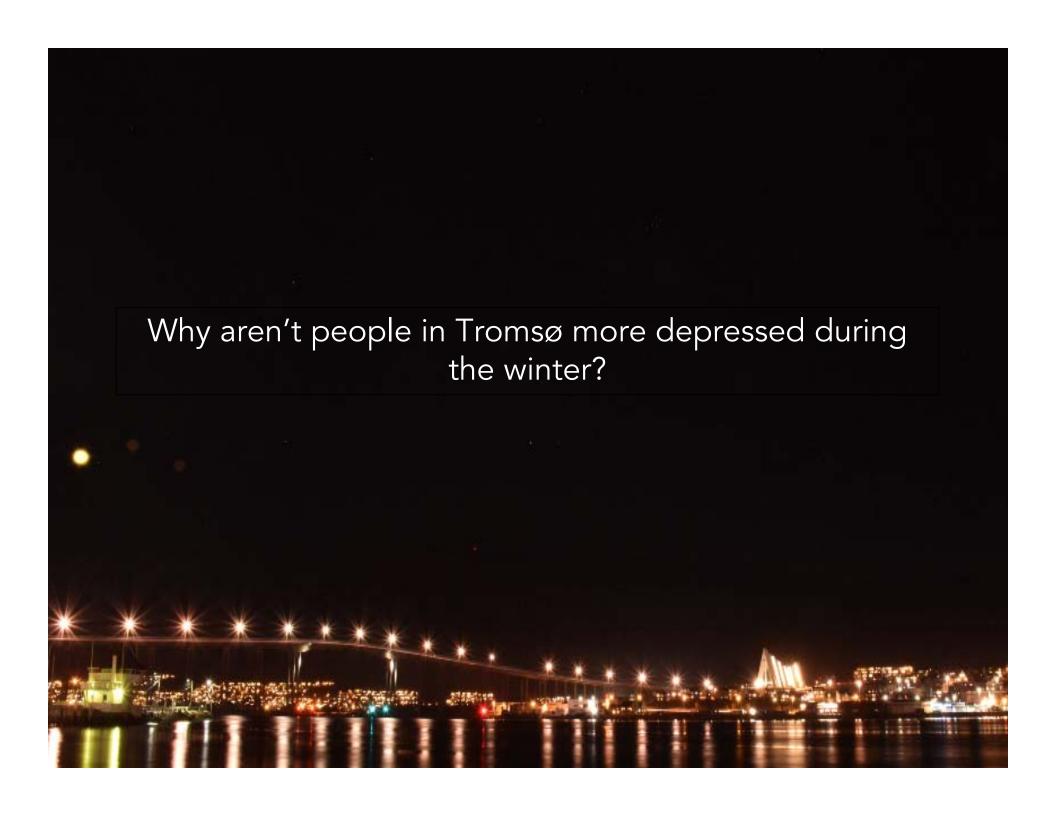


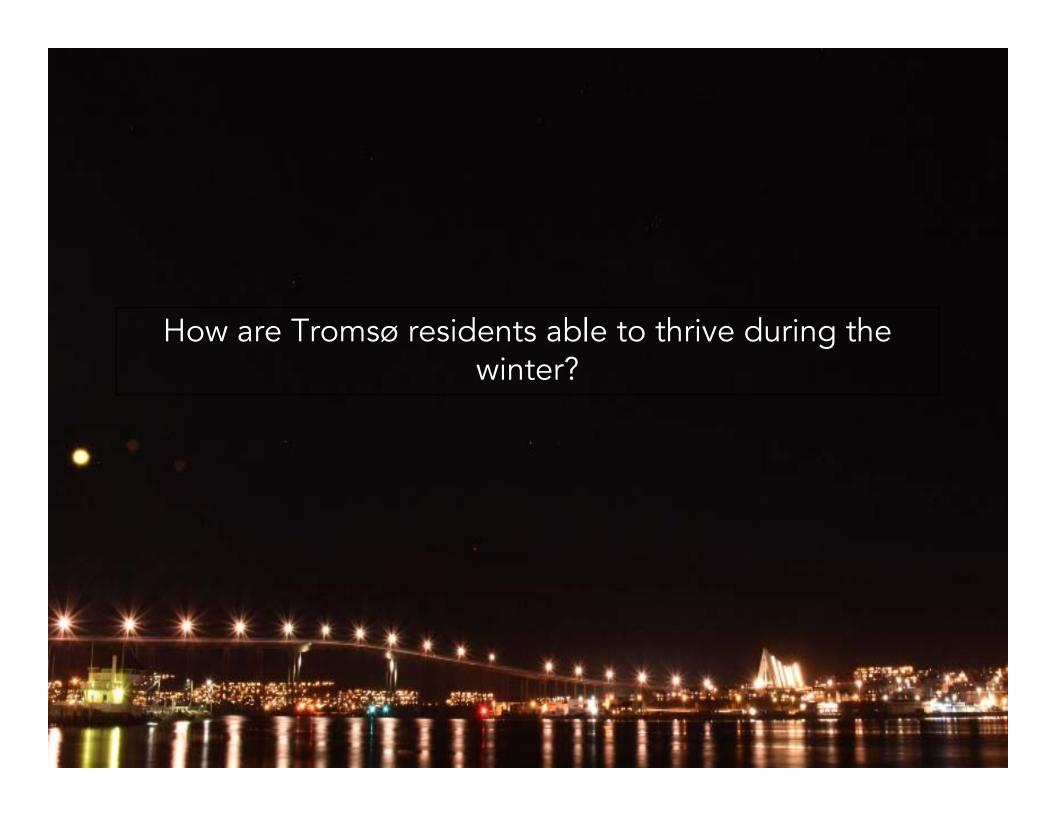












Survey Measures

Satisfaction with Life Scale (Diener et al., 1985)

Measures life satisfaction

Mental Health Continuum (Keyes, 2002)

Measures psychological flourishing

Personal Growth Composite (Vittersø, Oelmann, & Wang, 2009)

 Measures openness to and engagement with experiences and challenges that lead to personal growth

MINDSET:

The beliefs we use to understand and interpret the world





"Intelligence is fixed"



"Intelligence is malleable"

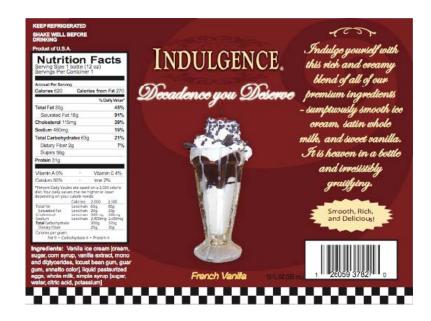


- Greater appreciation for academics
- More motivation to do well academically
- Improved performance after failures and setbacks
- Better GPA

"Shake is sensible"



"Shake is indulgent"



- Steeper decline in ghrelin (gut peptide that signals hunger)
- Greater physiological satiety

(Crum, Corbin, Brownell & Salovey, Health Psychology, 2011)

"Work is work"



"Work is exercise"



- Increased job satisfaction
- Lower systolic BP
- Weight loss

(Crum & Langer, Psychological Science, 2007)

"Stress is debilitating"

"Stress is enhancing"





- Fewer negative health symptoms
- Better work performance
- Improved life satisfaction

(Crum, Achor, & Salovey, 2013)

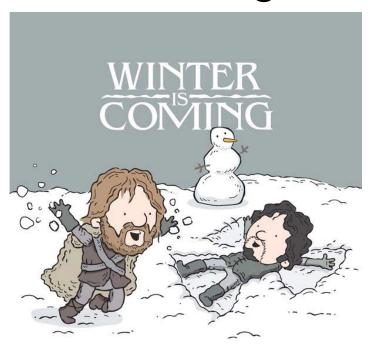
"Winter is dreadful"



- Winter is a limiting time of year
- Winter is boring
- There are many things to dislike about the winter

(Leibowitz & Vittersø, in preparation)

"Winter is delightful"



- Winter brings many wonderful seasonal changes
- Winter is fascinating
- There are many things to enjoy about the winter

How pervasive are negative wintertime mindsets?

"In the winter, it is conceivable that their (the northern Norwegian investigators') low energy level did not provide them with the creativity or enthusiasm to undertake such a study." (Rosenthal, 1993; Hansen et al., 2008)



Wintertime Mindset



- There are many things to enjoy about the winter
- I love the coziness of the winter months
- Winter is my favorite season
- I find the winter months dark and depressing
- In the winter I often don't feel like doing anything at all

(Leibowitz & Vittsersø, in preparation)

Winter & Well-Being in Norway

Svalbard

78° north

Tromsø

69° north

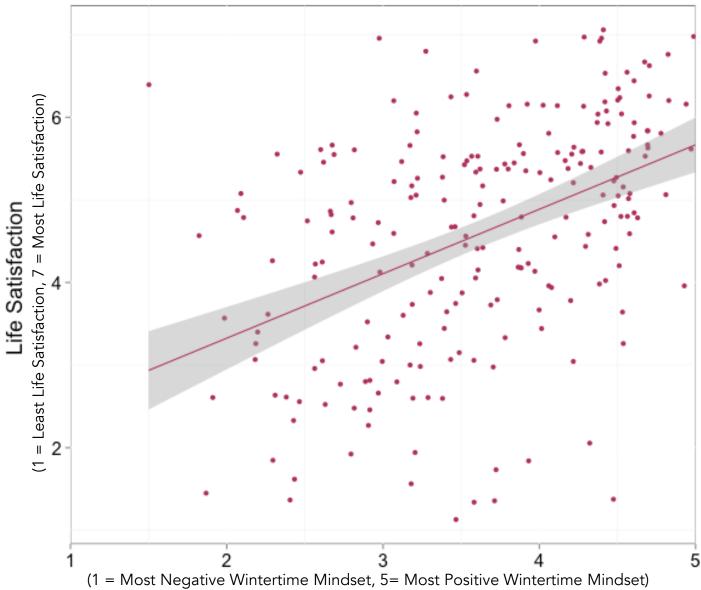
<u>Oslo</u>

60° north





Wintertime Mindset and Life Satisfaction

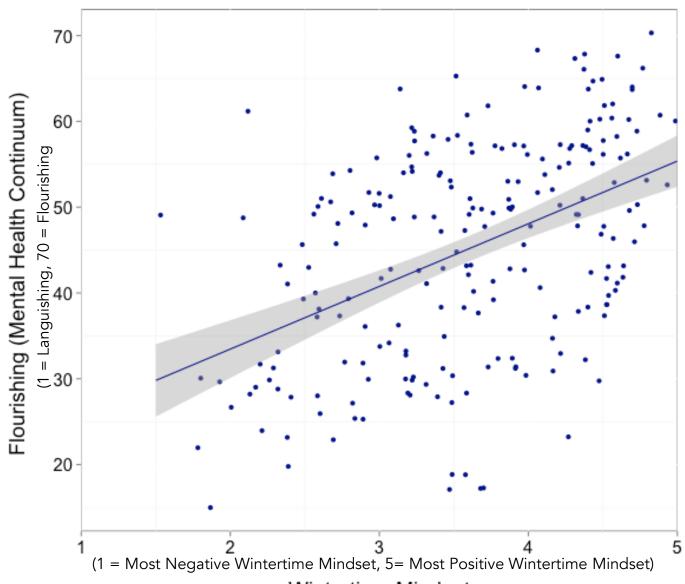


Wintertime Mindset

N= 224, r = .44, p< .001

(Leibowitz & Vittsersø, in preparation)

Wintertime Mindset and Flourishing

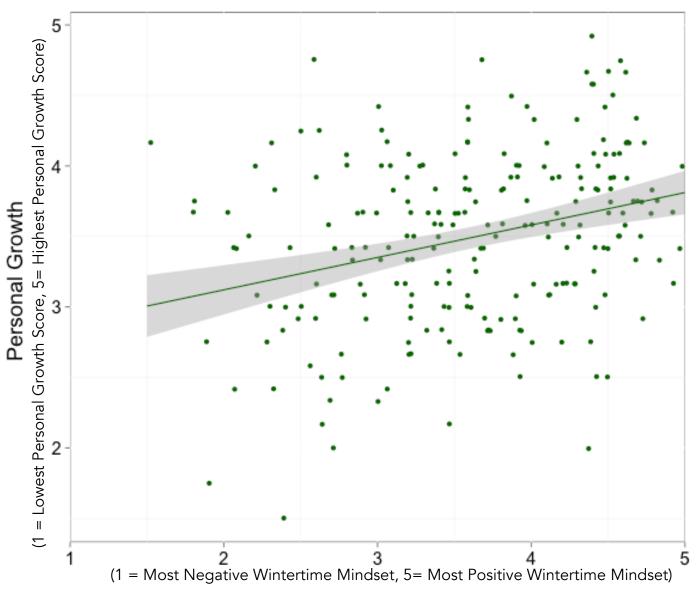


Wintertime Mindset

N= 224, r = .46, p< .001

(Leibowitz & Vittsersø, in preparation)

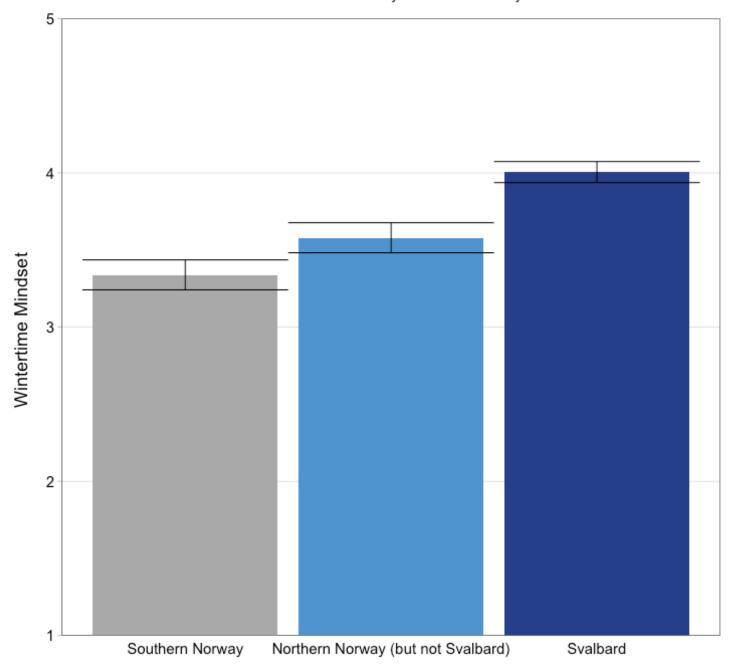
Wintertime Mindset and Personal Growth Composite



Wintertime Mindset

(Leibowitz & Vittsersø, in preparation)

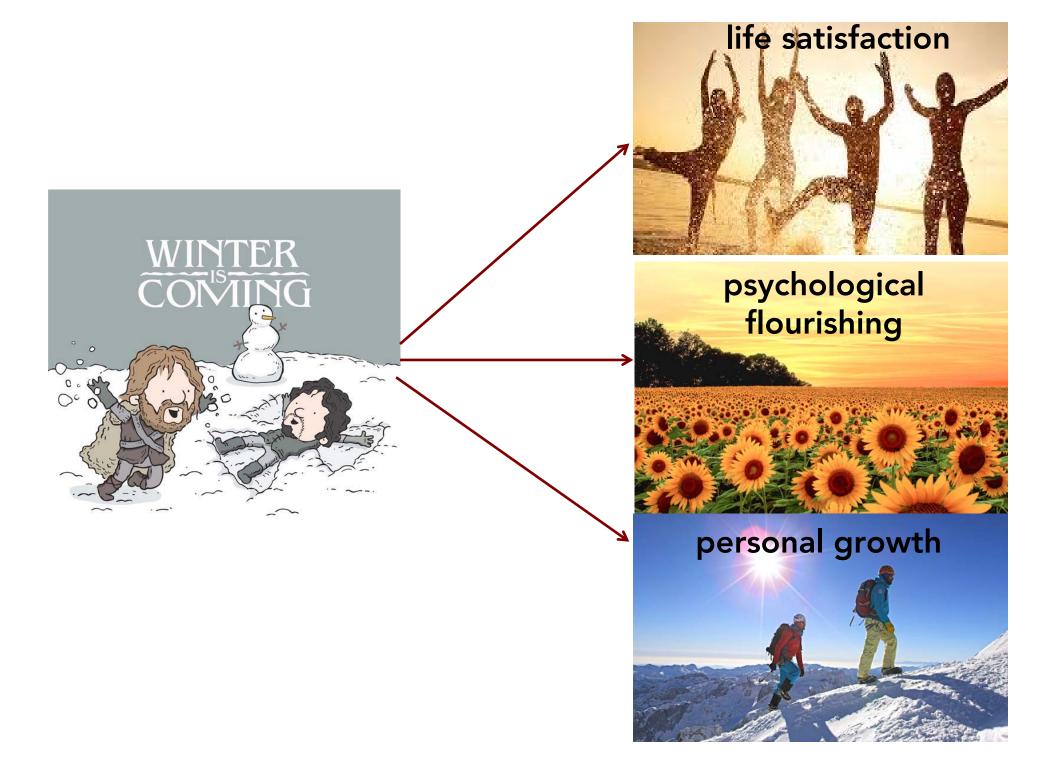
N= 227, r=.3, p<.001



Main take-aways

• In Norway, positive wintertime mindset was associated with latitude: the farther north you live, the more positive your wintertime mindset



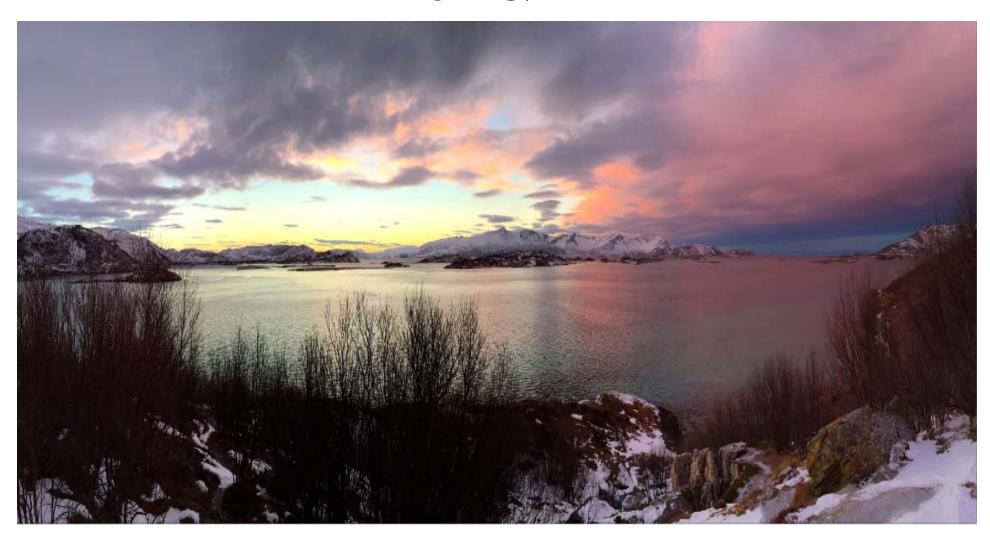


Limitations

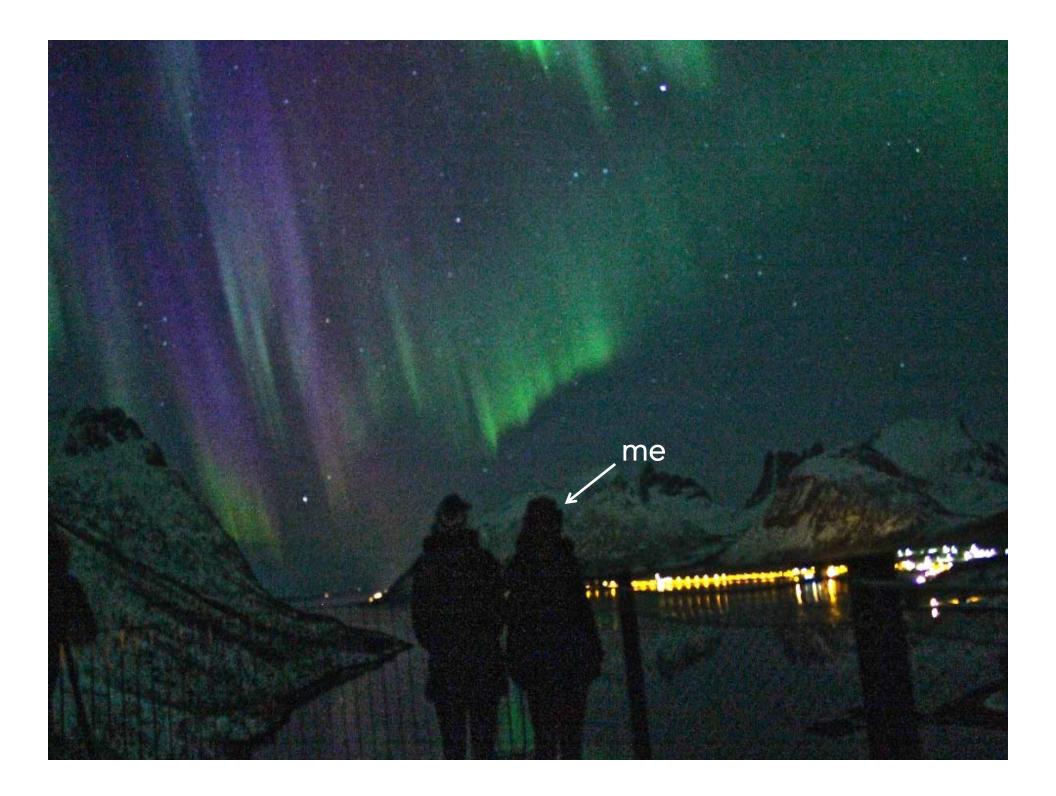
- Correlational study: correlation ≠ causation
- Study did not examine seasonal affective disorder
 - Important difference between clinical seasonal depression and winter blues; findings about wintertime mindset do not suggest that those suffering from clinical depression can just "snap out of it" by changing their mindsets
- Limitations of mindset



"If winter was a place, it would be Tromsø"







How pervasive are negative wintertime mindsets?

"In the winter, it is conceivable that their (the northern Norwegian investigators') low energy level did not provide them with the creativity or enthusiasm to undertake such a study." (Rosenthal, 1993; Hansen et al., 2008)





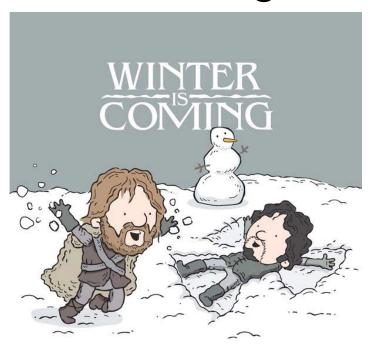
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"Winter is dreadful"



"Winter is delightful"



- Greater life satisfaction
- Greater mental flourishing
- Greater personal growth

(Leibowitz & Vittersø, in preparation)



What can we say?

 Mindset may be a previously unexplored factor in influencing winter well-being



How can we cultivate a positive wintertime mindset...



in ourselves? in our cities?

1. Get outside



2. Make winter special



3. Appreciate winter



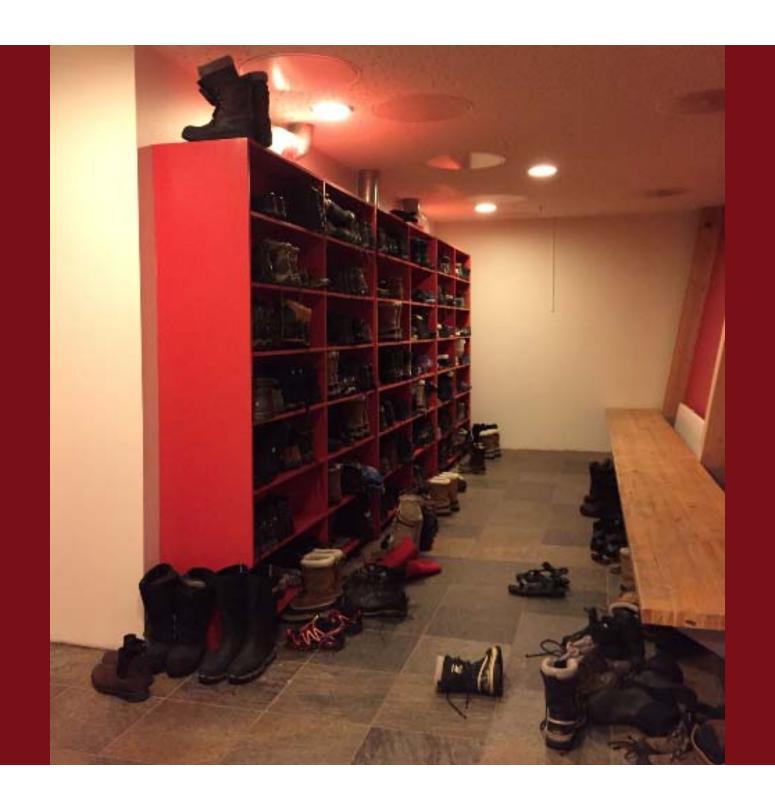




There's no such thing as bad weather,





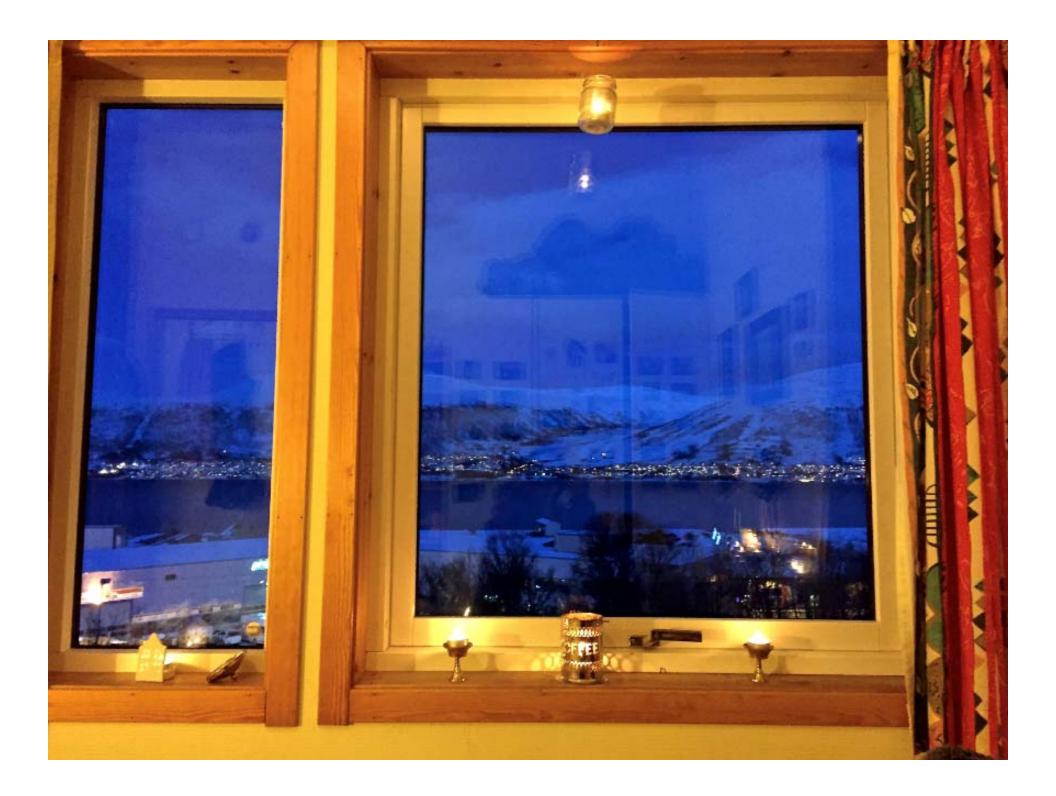


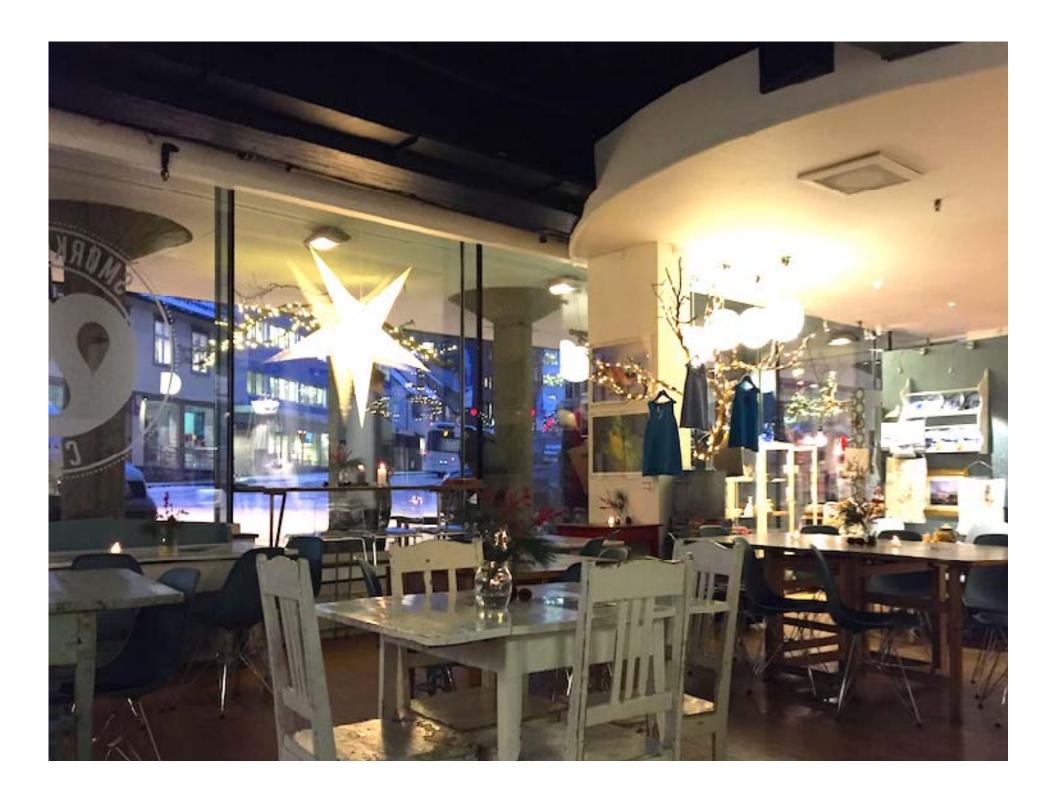












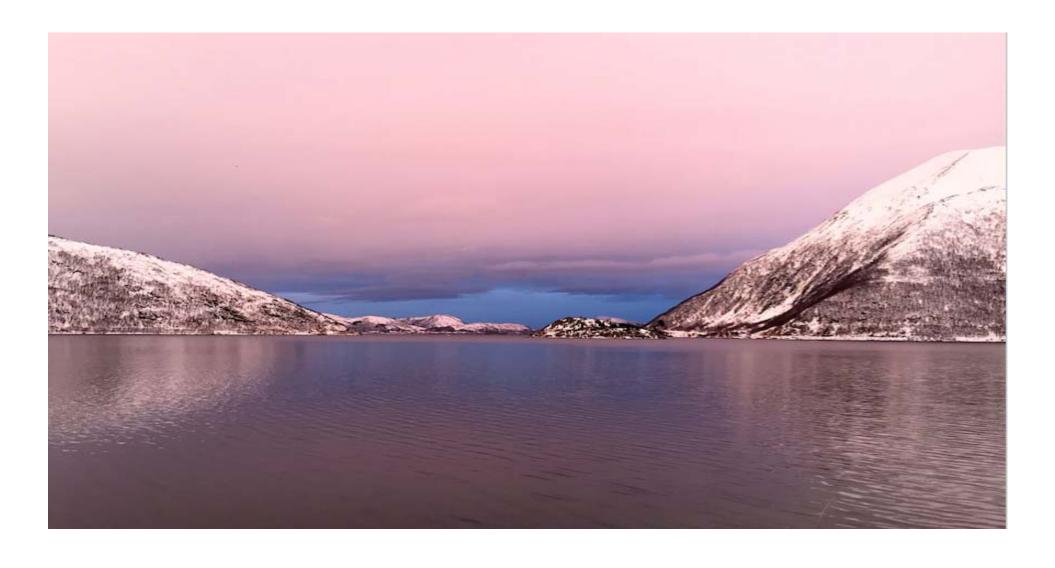






3. Appreciate winter – in our thoughts

I look forward to the winter because...



3. Appreciate winter - in our speech

Be a secret wintertime mindset ambassador

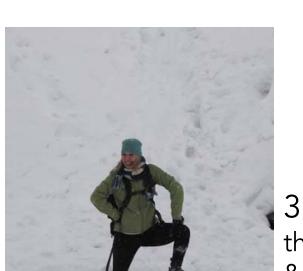
"I'm so sick of this winter we're having."



Create a positive wintertime mindset



1. Get outside: dress for winter, find winter activities to love, create infrastructure that encourages people to get outside



2. sp. pr. wi

2. Make winter special: make it cozy, promote cultural wintertime events

3. Cultivate winter appreciation: in your thoughts: focus on what you love about winter, & in your speech: participate in winter-positive talk







Thank you!

Joar Vittersø Alia Crum UIT

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