

harp.

Hope and resilience
in climate change
education

(Climate change) Emotions in Education

(Part 3/4)

Andrik Becht

Astrid Poorthuis

July 7th, 2026

Summer school



Emotions in the classroom



Topic emotions

Achievement emotions

Epistemic emotions

Incidental emotions & moods

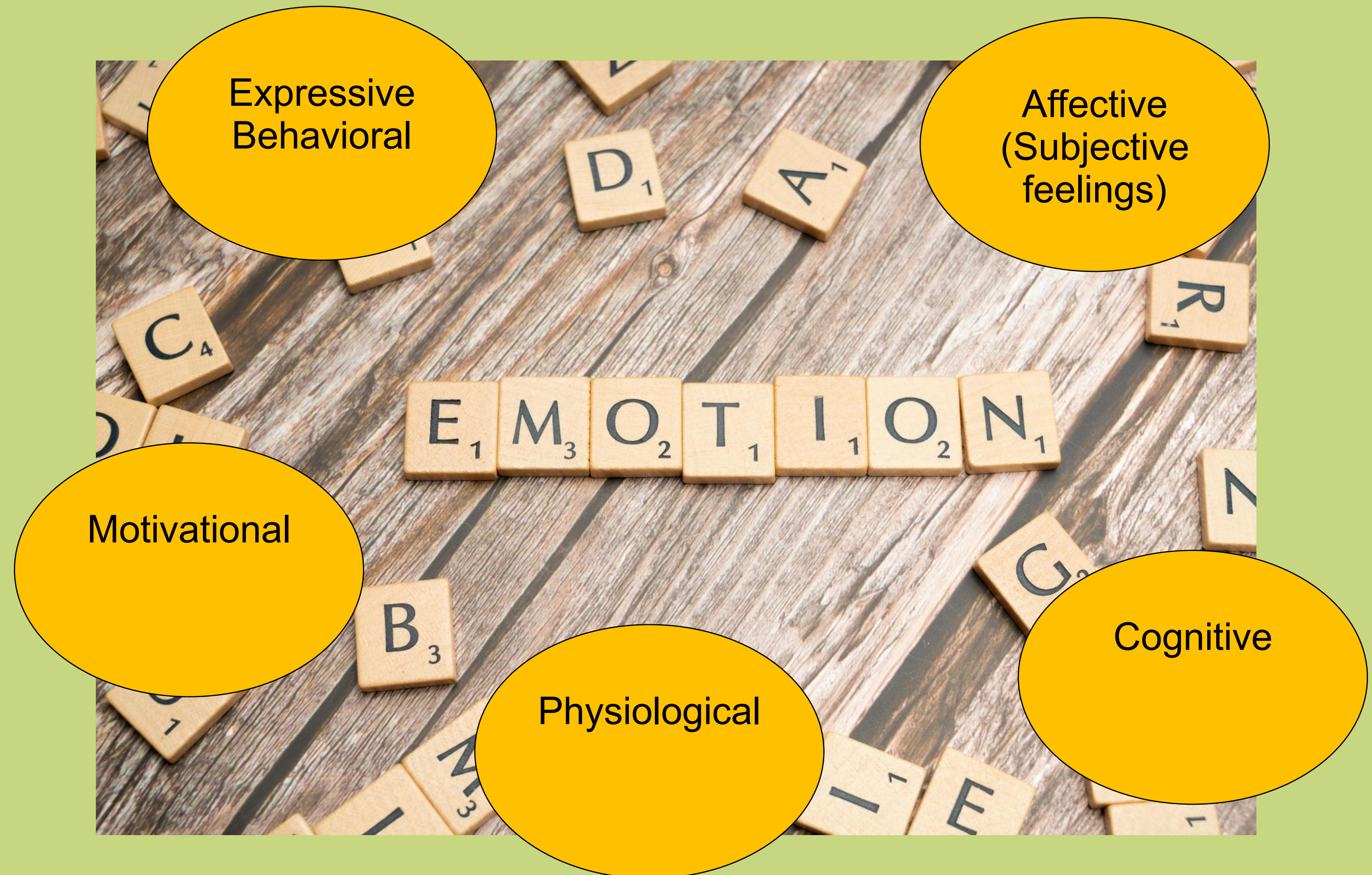
Social emotions

Emotions

exist of multiple components

have an event focus

are short lived



Emotions

exist of multiple components

have an event focus

are short lived

Mood

exist of multiple components

Lacks a specific referent

Lasts longer

Lower intensity emotions (or separate?)

Affect

Omnibus variable of several positive emotions (Positive affect)

Or several negative emotions (Negative Affect)

E.g., Poorthuis et al. (2015). *Journal of Educational Psychology*

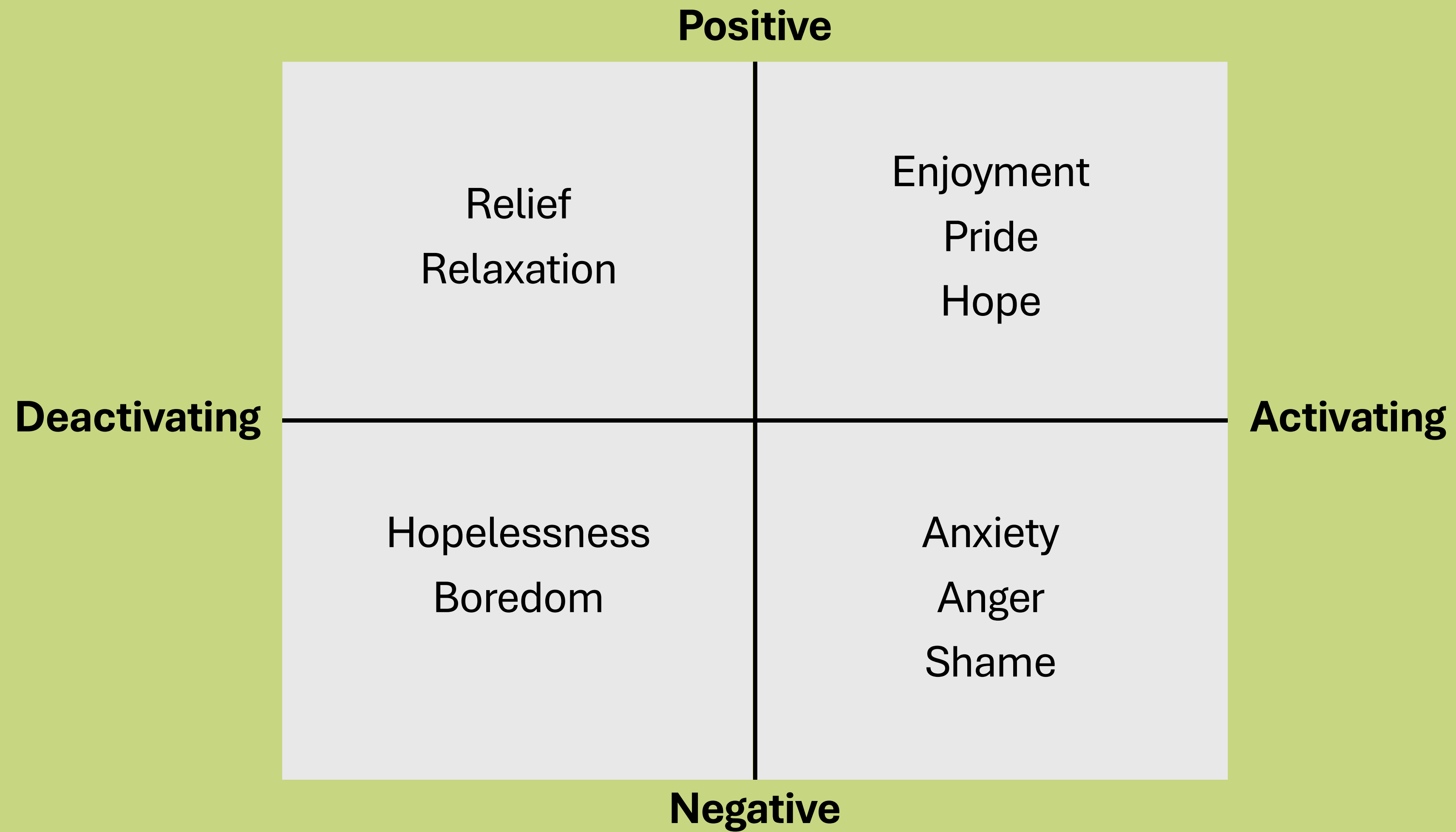
Trait emotions

- Stable interindividual differences
- A tendency to experience a mood or emotion

E.g., Test anxiety



2 x 2 Taxonomy of Emotions: Valence and Activation



Object focus of emotions – example for achievement emotions

Table 1
Three-Dimensional Taxonomy of Achievement Emotions

Object focus	Positive		Negative	
	Activating	Deactivating	Activating	Deactivating
Activity	Enjoyment Excitement	Relaxation	Anger Frustration	Boredom
Outcome–prospective	Hope Anticipatory joy	Assurance	Anxiety	Hopelessness
Outcome–retrospective	Pride Retrospective joy Gratitude	Relief Contentment	Shame/Guilt Anger	Disappointment Sadness

Note. Bold entries = emotions included in the empirical studies.

Pihkala's (2022) Taxonomy of Climate Emotions

A preliminary map of a complex emotional field

- Surprise-related emotions
- Threat-related emotions
- Sadness-related emotions
- Strong anxiety related feelings
- Strong depression related feelings
- Emotions closely related to guilt and shame
- Emotion related to indignation
- Disgust-related emotions
- Anger related emotions
- Envy related emotions
- Feelings of hostility
- Many kinds of positive emotions

Pihkala's (2022) Taxonomy of Climate Emotions

A preliminary map of a complex emotional field

