

Gletschertourismus im Treibhaus



Dr. Bruno Abegg
Geographie Uni Zürich / CIPRA International

Glaciers and Tourism

Overview

Impacts

- *Mountain aesthetics*
- *Skiing*
- *Glacier-based attractions*

Climate Change Mitigation



Mountain Aesthetics



Grosser Aletschgletscher © Jürg Alean (www.swisseduc.ch/glaciers)

Mountain Aesthetics

Impacts of climatic and environmental change for mountain summer tourism; examples from North America:

- *Glacier Retreat*
- *Temperature & Precipitation Change*
- *Environmental Change*

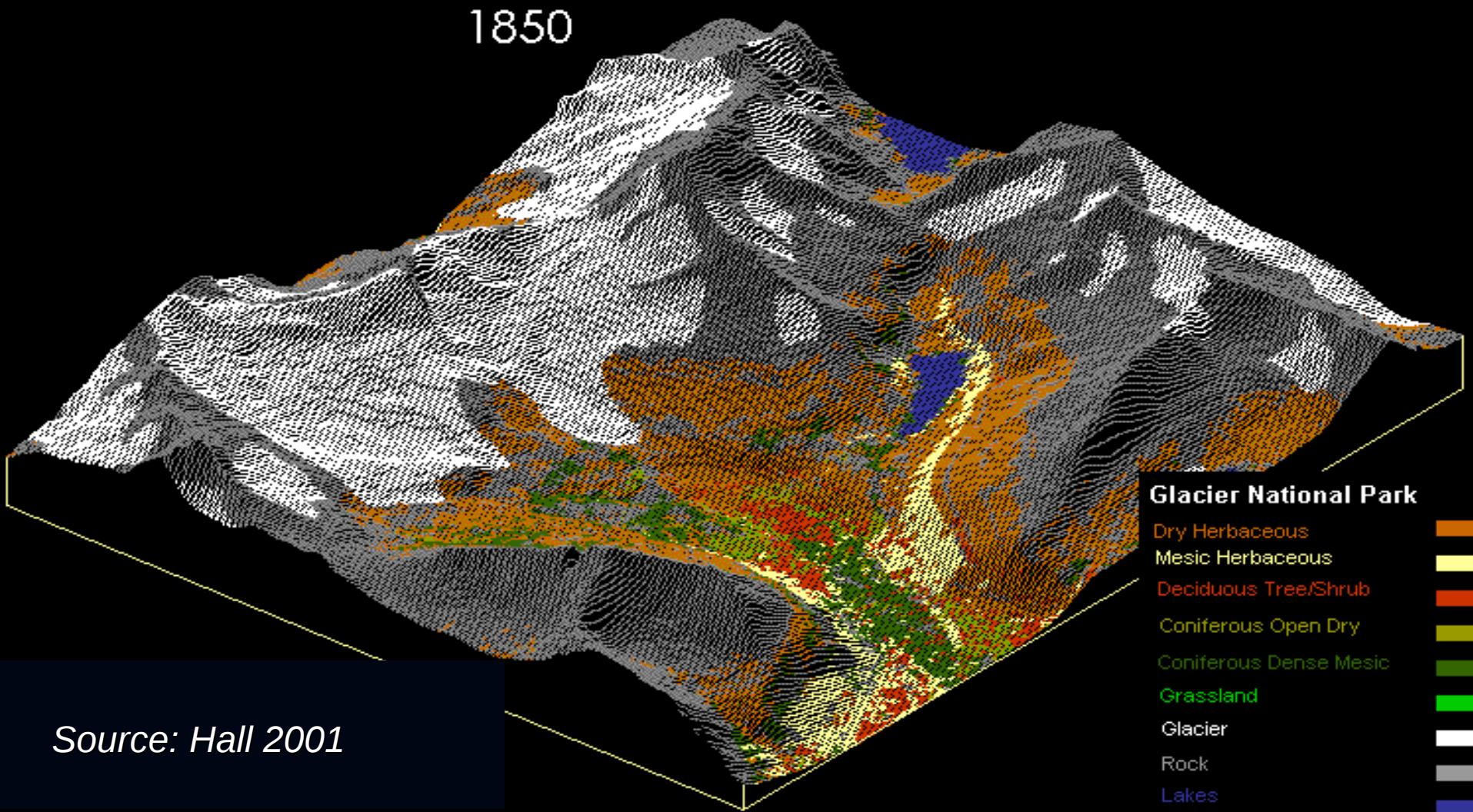
Mountain Aesthetics

Visitation to parks under climate change scenarios

Park	2020s	2050s	2080s
Banff National Park	+4 to 6%	+8 to 23%	+10 to 41%
Waterton Lakes National Park	+10 to 19%	+18 to 65%	+21 to 107%

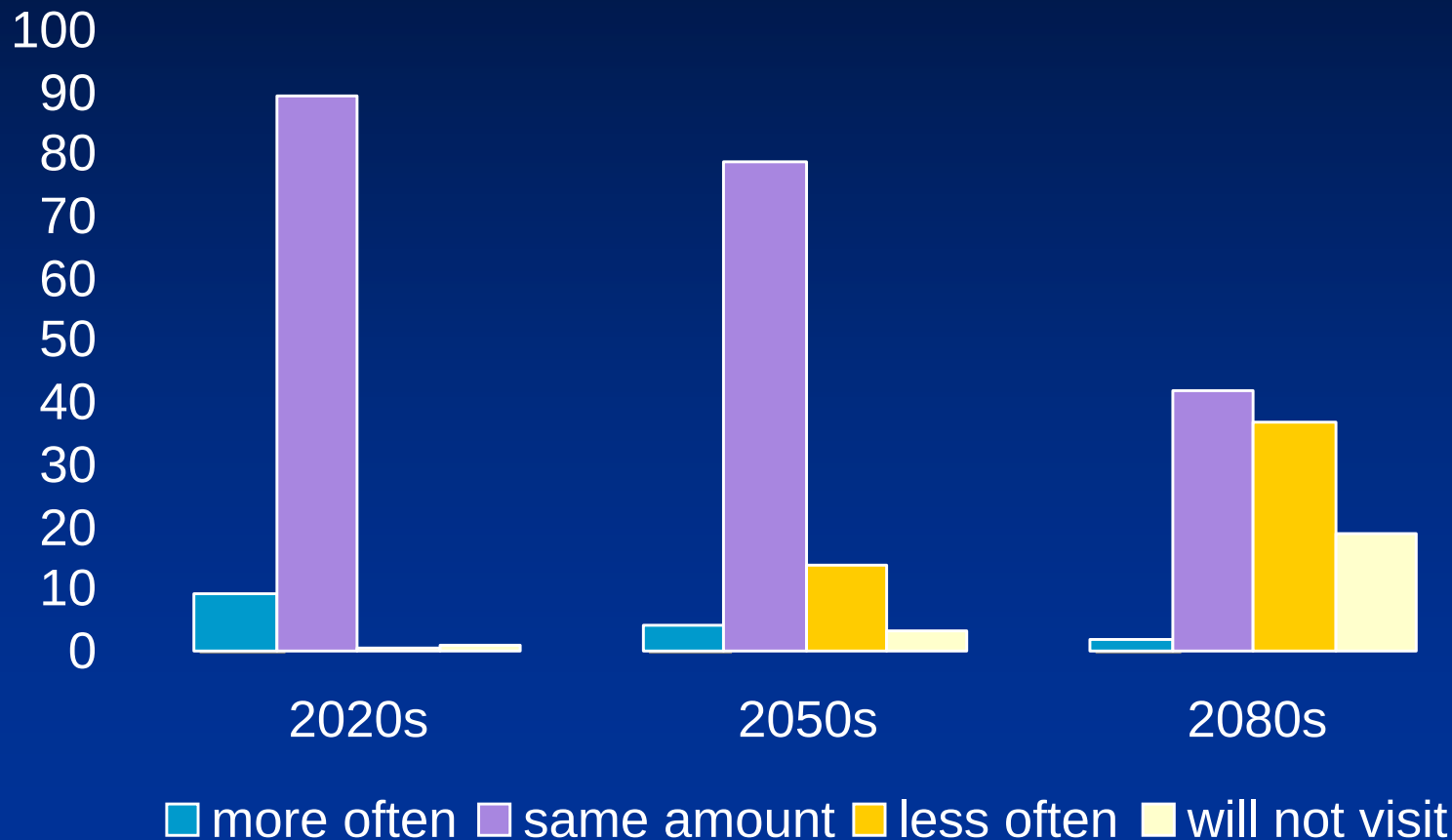
Source: Scott 2006

Mountain Aesthetics



Mountain Aesthetics

Impact of environmental change on visitation to Glacier-Waterton Lakes International Peace Park



Source:
Scott 2006

Skiing

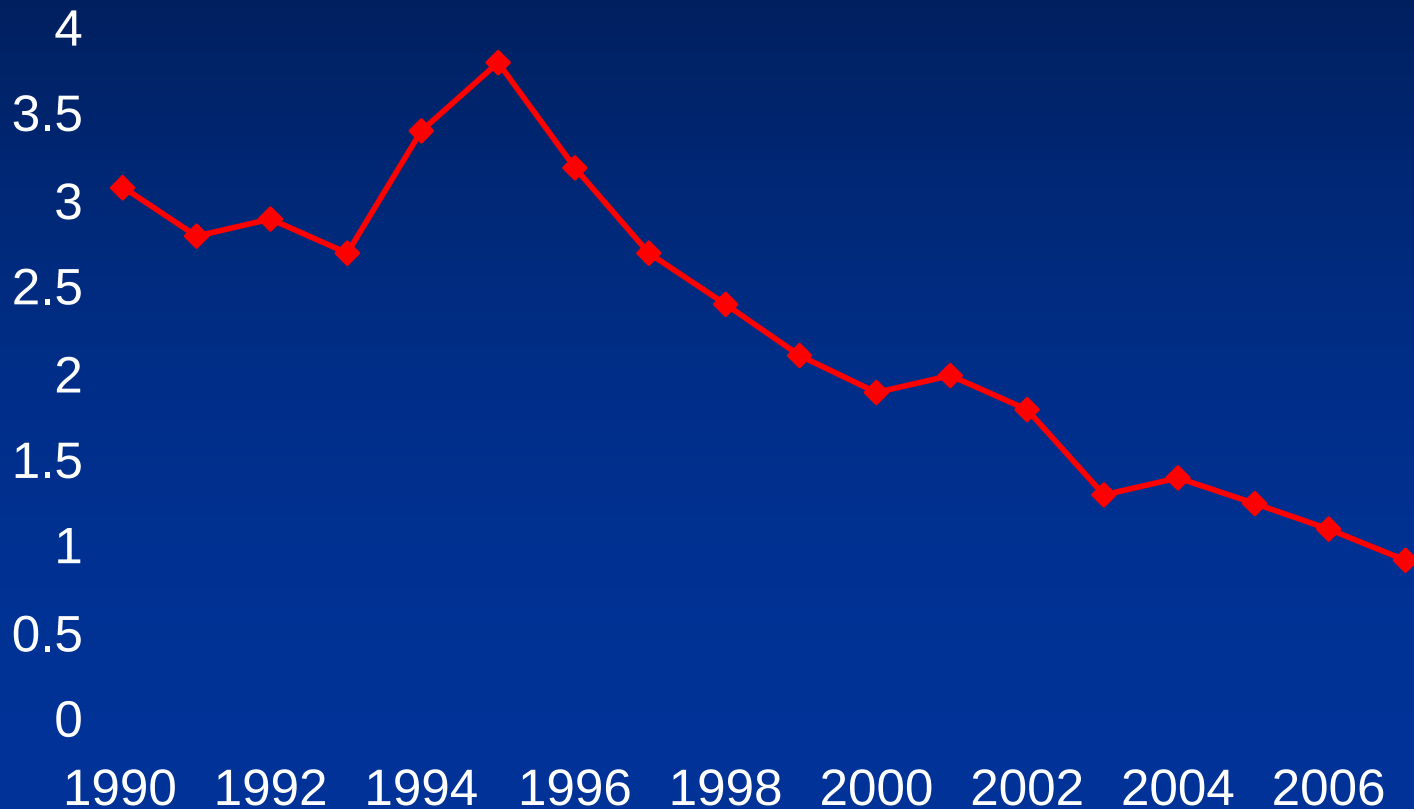


Glacier de Tsanfleuron © Jürg Alean (www.swisseduc.ch/glaciers)

Summer Skiing

Number of Summer Ski Areas in Switzerland
1970s: 10 today: 2

Number of transported Summer Skiers in South Tyrol in Mio



*Source: Amt
für Seilbahnen*

Winter Skiing

- *Trends*

- *“Going Up”: the ski areas are moving to high-mountain environments incl. glaciers*
- *Snowmaking: earlier, higher up, and more*
- *“Active Glacier Protection”*

Significance of glaciers for winter skiing ↑

Snowmaking on Pitztal Glacier



Source: Pitztaler Gletscherbahn 2009

Glacier-based Attractions



Eingang zur Gletschergrotte © Jürg Alean (www.swisseduc.ch/glaciers)

Glacier-based Attractions

- *“Sightseeing”*
- *Ice Caves (e.g. Rhonegletscher)*
- *Fun Parks (e.g. Gletscherpark Titlis)*
- *Themed Walks (e.g. Gletscherpfad Silvretta or Klimaweg Oberengadin)*
- *Glacier-related hazards*

Glacier-based Attractions

“Sightseeing”

*Grindelwald: Oberer
Grindelwaldgletscher*

*Very costly
to provide access:*

*Ladder (890 steps)
Suspension bridge*



Mountaineering

Possible Impacts

Increasing rock fall
Routes change/disappear
Limited accessibility etc.



Climate Change Mitigation

- *What can be done?*
 - *Pray (e.g. Fiesch)*
 - *Inform locals and guests*
 - *Provide climate-neutral offers*
 - *Pioneer in energy saving*
 - *Become energy self-sufficient etc.*

*Thank you
for your attention!*

Info: Dr. Bruno Abegg

Department of Geography

University of Zurich / Switzerland

E-Mail: bruno.abegg@geo.uzh.ch