### Title
Sustainability and Tourism in Protected Areas: Leaving Nothing Behind but Footprints?

### Author(s)
Schaller, Harald Josef

### Citation
第3回北海道大学サステナビリティ学生研究ポスターコンテスト = The Third Hokkaido University Sustainability Research Poster Contest. 平成23年10月25日（火）〜11月6日（日） 北海道大学学術交流会館 札幌市

### Issue Date
2011-10-25

### Doc URL
http://hdl.handle.net/2115/47371

### Type
conference presentation

### Note
Category 5: Natural Resource Management

### File Information
C5-1.pdf

---

*Hokkaido University Collection of Scholarly and Academic Papers: HUSCAP*
**Introduction**

“Nature is the Adventure!”, or “Inspired by Iceland” are slogans which promote travels to the wilderness of Iceland. In many other circumpolar countries, tourism has become a major industry and creates income in rural areas, but threaten its very fragile natural environment. Tourism areas are ‘fueled’ by their rich natural environment, but its not only footprints what tourists leave behind!

We use the natural environment as a resource in some form every day: space for living and education, natural services (fresh water, air, nutrients), income and occupation (farming, taxes, etc.), human wellbeing (recreation), or also as representation for our identity, spirituality and culture.

But tourism within natural environments is not only a driving force for economic development in rural areas. The physical impact of tourism in sensitive environments is also a threat to the prosperity of business and social wellbeing. Its impact degrades the environment and thus compromises rural development plans.

**Goal**

This research aims to support sustainable management of tourism within protected areas. Sound management decision with the consensus of stakeholders requires a solid base of knowledge. Thus, this research promotes a practical approach and focus on: 1) techniques how to acquire data needed for a well informed decision-making process, 2) the acknowledgment that a sustainable future of tourism is only within reach if management of protected areas opens towards many different stakeholders, and hence, 3) the empowerment of the public in a co-management process.

**The project – Outline**

The project shades light on the utilization of the natural environment from different perspectives, to get a better ‘picture’ of the aspects behind sustainable management of tourism. The research is therefore divided into four different phases: 1) literature study, 2) assessment of hiking trails, 3) socio-economic impacts of tourism in protected areas, and 4) management implications for sustainable tourism in protected areas.

**Preliminary Results**

Currently, the research projects is in phase 2, but already indicates some results. Nowadays, the management of protected areas faces the reality of public participation from both sides: demanded by the public and enabled by governments. This development marks modern protected area management that answers the need for a partnership in conservation and tourism to be able to face complex environmental problems, and balance environmental stability with current human use. The case studies in Iceland and Japan highlights areas sensitive to physical impact of tourism. The assessment is not completed yet, but indicate that attention has to be paid to environmental factors, defining the sensitivity to mitigate future environmental degradation.

Future research phases will combine interviews and surveys about current perceptions with analysis of tourism opportunities.

**Significance for the Future**

Each of the four phases focuses on a different aspect of sustainability and the impact of tourism on the natural and human environment. Though this research can not provide a complete picture of the situation form all aspects, it provides a snapshot of tourism within protected areas. The project helps forming sustainable tourism solutions in protected areas by:

- Collection of data about current state and use of the environment
- Identification of hot spots for further management action
- Promotion of shared responsibility among all levels of society and therefore safeguarding of resources for future generations by a informed decision-making framework

**Financial Support**

- Víni Vatnajökuls / Friends of Vatnajökull (03/11 – 08/11)
- Watanabe Trust Fund at the University of Iceland (08/11 – 04/12)
- University of Iceland – Travel Fund for Ph.D. students (2011)