

Supplemental material for

“Boost in Visitor Numbers Post COVID-19 Shutdown: Consequences for an Alpine National Park”, by Sonja Wipf, Annina H. Michel, Diego Walder, Felix Poelsma, Pia Anderwald, Sam S. Cruickshank, Francesca Jaroszynska, Christian Rossi, and Norman Backhaus, published in *Mountain Research and Development* 43(2), 2023. (See <https://bioone.org/toc/mred/43/2>)

APPENDIX S1 Questionnaire (English version).

(See next page.)

Visitor survey of the Swiss National Park 2020

The Swiss National Park would like to assess the needs and the wishes of its visitors. For this reason, we kindly ask you to fill in this questionnaire. Thank you for your cooperation!

National Park visit

What were the main reasons for your visit to the Swiss National Park (SNP)?
(multiple options possible)

- | | | |
|---|---|---------------------------------|
| <input type="checkbox"/> Hiking | <input type="checkbox"/> Intact landscape | <input type="checkbox"/> Plants |
| <input type="checkbox"/> Nothing in particular | <input type="checkbox"/> Other: | |
| <input type="checkbox"/> Animals: which ones? | | |

Did you see any animals?

- | | | |
|---|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| If yes, which ones? (multiple options possible) | | |
| <input type="checkbox"/> Bearded vulture | <input type="checkbox"/> Red deer | <input type="checkbox"/> Roe deer |
| <input type="checkbox"/> Chamois | <input type="checkbox"/> Ibex | <input type="checkbox"/> Marmot |
| <input type="checkbox"/> Other: | | |

Have your expectations regarding your visit of the SNP been fulfilled?

- | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|
| Completely | Mostly | Partially | Not at all |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

What did you appreciate in particular during your visit of the SNP?

.....

What annoyed you during your visit of the SNP?

.....

What do you think about the rules of the SNP?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Way too lax | Too lax | Appropriate | Too strict | Way too strict |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Did the high protection status of the SNP play a role in your decision to visit it?

- Yes No

Are you visiting the SNP...

- alone as a couple in a group
 with your family with an organized tour

How did you reach the SNP?

- By train/post bus By car By coach
 By motorcycle By bike/e-bike On foot

How often have you visited the SNP in the last ten years?

- Never Once Twice Three times

Did you visit the National Park Centre in Zernez?

- Yes: if more than once: how many times?

If yes: Have your expectations regarding your visit of the National Park Centre been fulfilled?

- Completely Mostly Partially Not at all

What did you appreciate especially about the National Park Centre?

.....

Was there anything you did not like about the National Park Centre?

.....

- No: Are you going to visit the National Park Centre? Yes No

Where did you gather information about the SNP before and during your visit?

	Before the holidays	During the holidays	During the visit of the SNP	Are you satisfied?
				😊😊😊 😞 😞 😞 😞
SNP information flyer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SNP printed hiking guide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Information panels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Website nationalpark.ch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SNP Facebook page	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
App iWebpark	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
National Park Centre, phone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Guided walks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Park rangers/SNP employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Swiss National Park and region

Where did you start your visit from?

- Domicile Journey through Holiday place: Where?

Where are you staying?

- Hotel Own holiday flat Rented flat
 Youth hostel At friends' Camping

How long are you staying in the region?

Number of overnight stays:

Where do you usually spend your summer holidays?

- Almost always in Switzerland Mostly in Switzerland Mostly abroad Almost always abroad

If you usually spend your holidays abroad, is this mostly...

- nearby in the Alpine region/Europe
 in "farther" Europe/outside Europe

What were the crucial factors that made you come to the SNP region?

	Strongly	Somewhat	Weakly	Not at all
Swiss National Park	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biosphere reserve Engiadina Val Müstair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regional nature park Biosfera Val Müstair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Untouched nature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chance to see wild animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Destination in Switzerland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consequence of the COVID-19 pandemic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accessibility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intact landscape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opportunities for doing sports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Museums	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Peace, isolation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bogn Engiadina Scuol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Events	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pleasant climate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Would you have come to the region without the existence of the SNP?

- Yes No

Would you have come to the region without the crisis due to the COVID-19 pandemic?

- Yes No

Why are you practicing outdoor activities?

	Corresponds totally	Corresponds mostly	Corresponds partially	Does not correspond
To get away from everyday life	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To experience myself as active	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To enjoy the landscape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To stay by myself	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To enjoy nature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To experience risk and adventure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To stay with my family/friends	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To rest and relax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To forget about space and time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To be happy and have fun	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To save money	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To do something for my health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To see wild animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To get away from home-working	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Demographic information

Where do you live?

- Switzerland Germany Austria Italy

What is the postal/ZIP code of your domicile?

Job: **Gender:**

Age:

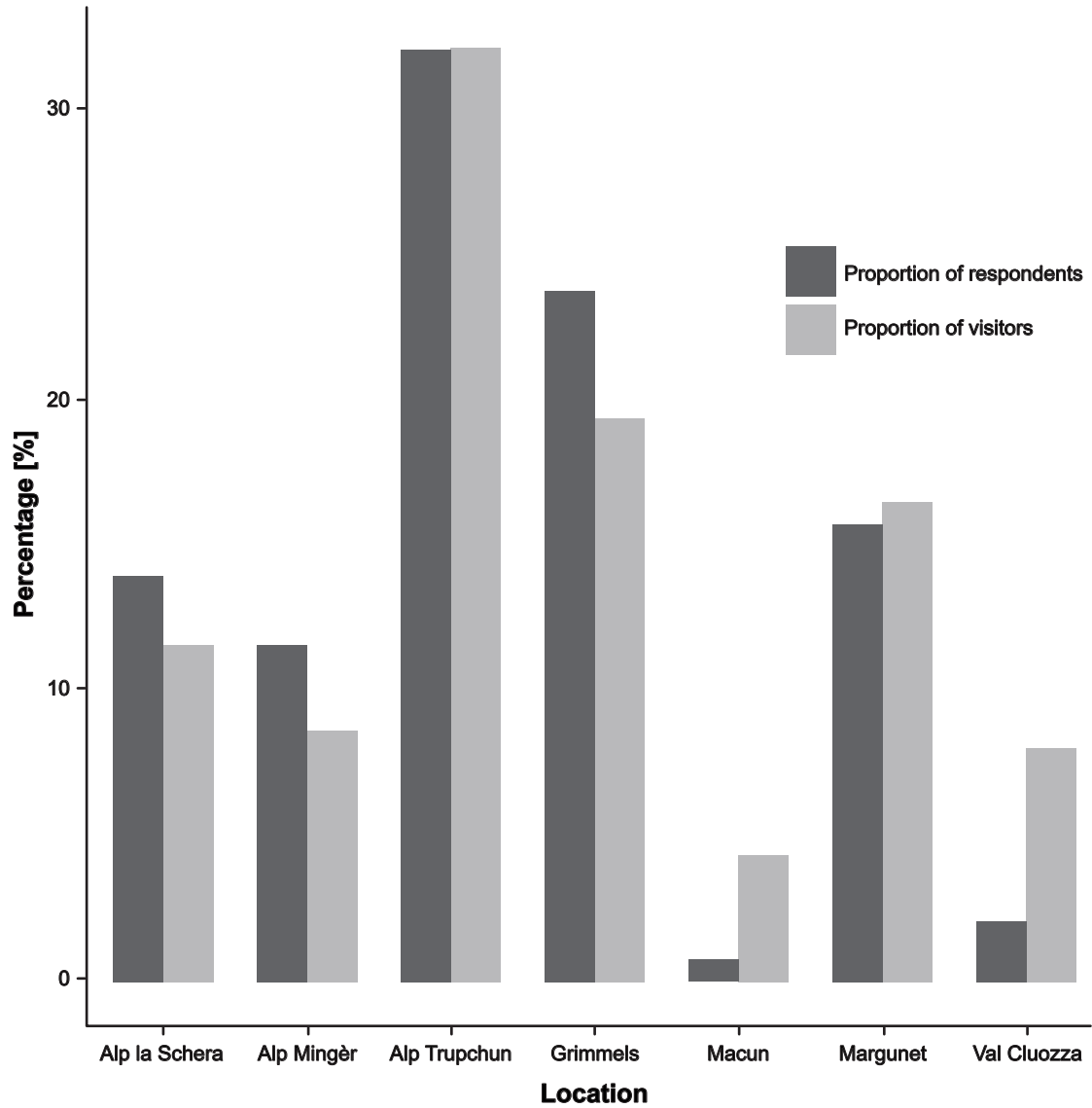
Would you be willing to participate to an in-depth interview (30-45 minutes) about your stay in the SNP region?

If yes, please leave us your contact data. We will treat them strictly confidentially and use them only to get in touch with you.

Email address or phone number:

Thank you for your cooperation!

APPENDIX S2 Distribution of visitors as the percentage of visitors recorded at counting stations, and respondents as the percentage of respondents at different places where surveys were distributed. Visitors to Alp la Schera and Grimmels were slightly overrepresented, and to Macun and Val Cluozza underrepresented.



APPENDIX S3 Levene's test for equality of variances.

Factor	F	Sig.	
Landscape/nature	27.513	0.000	Equal variances not assumed
Events and activities	0.012	0.911	Equal variances assumed
Labels	0.114	0.736	Equal variances assumed
National park	11.981	0.001	Equal variances not assumed
COVID-19	0.054	0.816	Equal variances assumed
Amenities	6.341	0.012	Equal variances not assumed