

User Manual – Snow profile

This User Manual was created by the Austrian Avalanche Warning Services. For inquiries and reactions, please write to us at lawis.cartography@univie.ac.at and lawine@tirol.gv.at.

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LAWIS ...

...is a tool to record and store meteorological measurements, avalanche events and snow profiles. It is made available by the Austrian Avalanche Warning Services in cooperation with the Institute of Geographical and Regional Research of the University of Vienna. The data which have been recorded are graphically presented and are freely accessible on LAWIS. The wide-ranging data network can be easily and intuitively used with various search and filter options, as well as topographical maps.

Data base of profiles

The data base of profiles serves as a collection of information and work of reference. It provides to a wide audience insights into the development of the snow cover as it unfolds over time. The category Profiles is a fundamental category of LAWIS. Thus, it is coordinated both visually and technically to the two other categories, Events and Stations. LAWIS offers the opportunity to sort and record snow profiles. If you have made a snow profile, you can enter the collected data in LAWIS as a contribution to the completeness of the profile data base. All data are additionally controlled by the authorised Avalanche Warning Service.

Here's how to reach LAWIS-Profile

LAWIS: <https://www.lawis.at/profile/>

EAWS: <https://www.lawis.at/profile/index.php>

Avalanche Warning Service Tirol: <https://lawine.tirol.gv.at/schnee-lawineninfo/schneeprofile/>

Avalanche Warning Service Styria: <http://www.lawine-steiermark.at/wetter/stationsdaten-lawis/>

Avalanche Warning Service Upper Austria: https://www.land-oberoesterreich.gv.at/was_inw_schneeprofile.htm

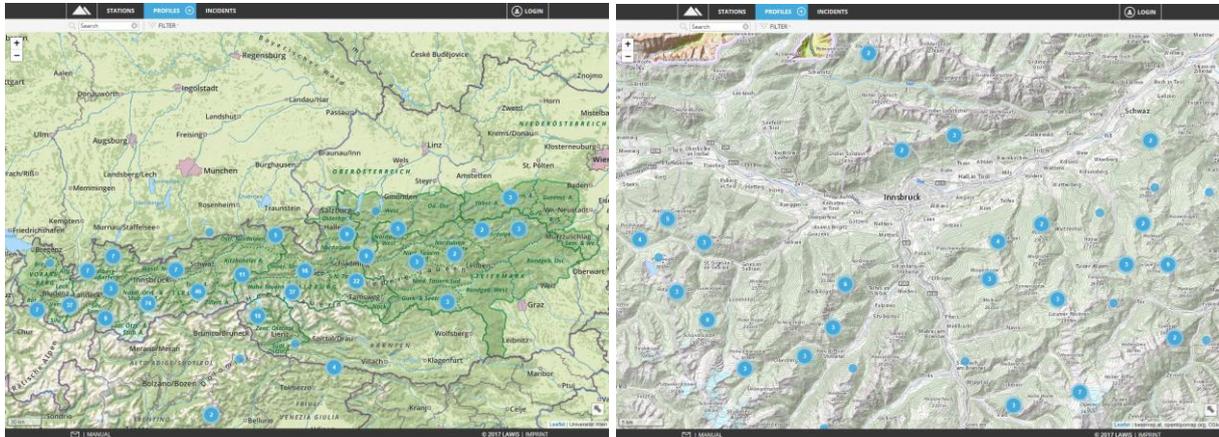
Avalanche Warning Service Carinthia:
http://www.lawine.ktn.gv.at/144600_DE%2dLawinenwarndienst%5fKaernten%2dSchneeprofil%5f%2d%5fArchiv

Avalanche Warning Service Salzburg: <http://www.lawine.salzburg.at/cmsnew/daten.php?daten=2>

Avalanche Warning Service Vorarlberg: <http://warndienste.cnv.at/dibos/lawine/>

1. Finding profiles

A profile can be located and pinpointed by scrolling or clicking the coloured circles which are numbered in the calendar depiction. To start with, any circle can be selected. The illustrations display various depictions of the search as it is being carried out.



In the view below, various tools are available for your use to make locating the desired profile easier and quicker. It is utterly up to you whether you use a list, map, search or filter to find what you seek. How the search functions with the various tools is explained on the following pages.

STATIONS
PROFILES
INCIDENTS
LOGIN

FILTER

Glonzezer Bereich Tulflein
Snowprofile: Glonzezer Bereich Tulflein

Name: Paul Döbesberger		e-mail: paul.dobesberger@gmail.com		Observation date: 29. Dec. 2017 15:00	
Location: Glonzezer Bereich Tulflein		Elevation: 2040 m		Air temperature: -2.7°C	
Subregion: Tuxer Alpen		Incline: 7° 30'		Precipitation: Snow	
Region: Tirol		Aspect: NE		Intensity: Light	
Country: Österreich		Wind speed: Calm (0 km/h)		Sky conditions: Overcast (8/8)	
Lat/Long: 47.2272° / 11.5311°		Wind direction:		Profile-class: not classified	

Time	RNH	100	1000	500	800	700	600	500	400	300	200	100	0	10	20	30	40	50	60	70	80	90	100
17:00	100	1000	500	800	700	600	500	400	300	200	100	0	10	20	30	40	50	60	70	80	90	100	

Comments:
 Profil in einer eingewechte Mulde
 ECTP 2011:2.0cm: propagation (P) (whole block)

Date	Time	Name	Country	Elevation	Direction
2017-12-27	16:30	Krkonoše - Mala kotelní jama	Ceská Republika	1292m	E
2017-12-27	15:00	Glonzezer Bereich Tulflein	Tirol	2040m	NE
2017-12-27	13:38	Westendorf/Gampen Süd-West	Tirol	1821m	SW
2017-12-27	13:30	Wildalm / Steinkar	Salzburg	2240m	N
2017-12-27	13:20	Seblasspitze-Brandstättalm	Tirol	2090m	E
2017-12-27	13:00	Berger Kogel	Tirol	2030m	NE
2017-12-27	11:55	Seblasspitze	Tirol	2180m	NW
2017-12-27	11:50	Weissbachalm-Mitterleger	Tirol	2000m	NW
2017-12-27	11:30	Oberhalb Loipe St. Christoph	Tirol	1923m	S
2017-12-27	09:18	Zauchensee Gamskogel	Salzburg	1850m	N
2017-12-26	14:00	Vordere Grube, Gleirschtal	Tirol	2410m	NE
2017-12-26	12:30	Defreggerhaus	Tirol	2975m	S
2017-12-26	11:10	Lawenstein	Steiermark	2m	E

452 selected (455 total)

MANUAL
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1.1. Locating profiles with a map

STATIONS
PROFILES
INCIDENTS
LOGIN

FILTER
3 months

Seblasspitze-Brandstättalm

Schneeprofil: Seblasspitze-Brandstättalm

Name: Nairz, Goschossmann, Ungener E-Mail: lawine@tirol.gv.at Aufnahmezeitpunkt: 27. Dez. 2017 13:20

Ort: Seblasspitze-Brandstättalm Seehöhe: 2090 m Lufttemperatur: -2,0°C

Subregion: Nordl. Ötztal- u. Stubai-er Alpen Hangneigung TP: 32° Niederschlag: Schnee

Region: Tirol Exposition: O Intensität: mittel

Land: Österreich Windgeschw.: stürmisch (60-100 km/h) Bewältigung: bedeckt (B/B)

Lat/Long: 47.1048° / 11.2515° Windrichtung: 5 Schneeprofilmasse: not classified

+	Neuschnee	●	Rundkörnig	▲	Tiefenerf	○	Schmelzform	◻	kaum abgerundete	⊗	Schneebürste
+	Fläger Schnee	◻	Kantigkörnig	▼	Oberflächenreif	◻	Eisrinne	◻	Graupel		
TP	100	18	16	14	12	10	8	6	4	2	0
RNH	1000	900	800	700	600	500	400	300	200	100	0

Bemerkungen:
ECTN 18@97.0cm: Teilbruch (N)
ECTN 24@97.0cm: Teilbruch (N)
ECTN 28@24.0cm: Teilbruch (N)
Schicht 24-23cm: mit Kanälen

2017-12-27 16:30	Krkonoše - Mala kotelní jama	Ceská Republika	1292m	E
2017-12-27 15:00	Glungezer Bereich Tulfein	Tirol	2040m	NE
2017-12-27 13:38	Westendorf/Gampen Süd-West	Tirol	1821m	SW
2017-12-27 13:30	Wildalm / Steinkar	Salzburg	2240m	N
2017-12-27 13:20	Seblasspitze-Brandstättalm	Tirol	2090m	E
2017-12-27 13:00	Bergerkogel	Tirol	2030m	NE
2017-12-27 11:55	Seblasspitze	Tirol	2180m	NW
2017-12-27 11:50	Weissbachalm-Mitterleger	Tirol	2000m	NW
2017-12-27 11:30	Oberhalb Loipe St. Christoph	Tirol	1923m	S
2017-12-27 09:18	Zauchensee Gamskogel	Salzburg	1850m	N
2017-12-26 14:00	Vordere Grube, Gleirschtal	Tirol	2410m	NE
2017-12-26 12:30	Defreggerhaus	Tirol	2975m	S
2017-12-26 11:10	Lawinenstein	Steiermark	2m	E

452 selected (455 total)

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After selecting the filter, a gray-marked area opens in the right margin. Here you can specify the time window, region, altitude and aspect. By selecting the "update" space, the selected filter criteria are carried out. Only those events are shown which fulfil the selected criteria.

Date	Name	Location	Altitude	Direction
2017-12-27 16:35	Kirchtonn - Mals Koblitz Jemel	Tirol	2522m	E
2017-12-27 15:00	Glungezer Bereich Tuffen	Tirol	2040m	NE
2017-12-27 13:38	Wentendorf/Tampfen Süd-West	Tirol	1821m	SW
2017-12-27 13:30	Wildalm / Steinkar	Salzburg	2240m	N
2017-12-27 13:20	Selbianspitze Brandstättalm	Tirol	2090m	E
2017-12-27 13:00	Berger Kogel	Tirol	2030m	NE
2017-12-27 11:55	Selbianspitze	Tirol	2130m	NW
2017-12-27 11:50	Weissbachtalm-Mitterlegger	Tirol	2000m	NW
2017-12-27 11:20	Oberhalb Loipe St. Christoph	Tirol	1923m	S
2017-12-27 09:18	Zauchensee Gamskogel	Salzburg	1850m	N
2017-12-26 14:09	Vordere Grube, Gieirschtal	Tirol	2410m	NE
2017-12-26 12:30	Defreggerfladn	Tirol	2975m	S
2017-12-26 11:10	Lauernstein	Steiermark	21m	E

As soon as you have selected your filter criteria, you can see the selected filter criteria above the graph. They are marked in gray.

If the event you are seeking is not found among the selected criteria, you can remove the individual filter criteria with one click on x (to the left of each criterium).

1.3. Locating profiles with a list

By clicking the icons between the depiction and the list, you can sort the searched-for results according to date, town, province, region, altitude, aspect, danger level in either ascending or descending sequence.



By scrolling up or down it is possible to view the overall contents of the list. In the pale gray-marked space beneath the list you can see whether the entire data base is contained in the list or only a reduced amount of data was selected. **9 selected (455 total)**

The profile is selected by clicking on it. The corresponding profile then appears to the right of the map and list.

The screenshot shows a web application interface with a top navigation bar containing 'STATIONS', 'PROFILES', and 'INCIDENTS'. Below the navigation bar is a search bar and a filter icon. The main content area is divided into a map on the left and a detailed profile view on the right. The map shows a topographic view of the Seblaspitze-Brandstättalm area with a red dot indicating the profile location. The profile view includes a table with columns for 'Name', 'E-Mail', 'Aufnahmedatum', 'Ort', 'Subregion', 'Region', 'Land', 'Lat/Long', 'Seehöhe', 'Hangneigung', 'Exposition', 'Windgeschw.', 'Windrichtung', 'Lufttemperatur', 'Niederschlag', 'Intensität', 'Bewölkung', and 'Schneeart'. Below the table is a legend and a detailed cross-section diagram of the profile. At the bottom of the list, it indicates '9 selected (455 total)'.

Name	E-Mail	Aufnahmedatum
Seblaspitze-Brandstättalm	lxwline@tirol.gv.at	27. Dez. 2017 13:20
Ort	Seehöhe: 2390 m	Lufttemperatur: -2,0°C
Subregion	Hangneigung: 32°	Niederschlag: Schnee
Region	Exposition: O	Intensität: mittel
Land	Windgeschw.: stürmisch (60-100 km/h)	Bewölkung: bedeckt (8/8)
Lat/Long	Windrichtung: S	Schneeart: not classified

1.4. Locating profiles with a search machine

The Search space is at the upper left.



If name, region or subregion of the searched-for event are known, the appropriate search word can be entered here. LAWIS filters all results and displays the list of objects found beneath the graph. The filters are automatically adapted.

The screenshot shows the LAWIS interface with a search bar at the top left containing 'Seblasspitze-Brandstättalm'. Below the search bar is a map of the Seblasspitze area with a red dot indicating the location. To the right of the map is a detailed profile view for 'Seblasspitze-Brandstättalm'.

Seblasspitze-Brandstättalm
Schneeprofil: Seblasspitze-Brandstättalm

Name: Nairz, Gschossmann, Ungerer | E-Mail: lwine@tirol.gv.at | Aufnahme datum: 27. Dez. 2017 13:20
 Ort: Seblasspitze-Brandstättalm | Seehöhe: 2090 m | Lufttemperatur: -2,0°C
 Subregion: Nordl. Ortstaler- u. Stubai-Alpen | Hangneigung TP: 32° | Niederschlag: Schnee
 Region: Tirol | Exposition: O | Intensität: mittel
 Land: Österreich | Windgeschw.: störmisch (60-100 km/h) | Bewältigung: bedeckt (S/B)
 Lat/Long: 47.1048° / 11.2515° | Windrichtung: S | Schneeprofilklasse: not classified

Legend: Neuschnee, Flager Schnee, Rundkörnig, Kanalgöring, Tiefenreif, Oberflächereif, Schmelzform, Eiskernse, samtig abgerundet, Gravel, Schmelzkruze

Remarks (Bemerkungen):
 ECTN 198@37.0cm: Teilbruch (N)
 ECTN 248@37.0cm: Teilbruch (N)
 ECTN 288@24.0cm: Teilbruch (N)
 Schutz 24-28cm: mit Karäker

Time	Location	Country	Altitude	Direction
2017-12-27 16:30	Krkonoše - Malá kotelná jama	Ceská Republika	1292m	E
2017-12-27 15:00	Glungezer Bereich Tulfein	Tirol	2040m	NE
2017-12-27 13:38	Westendorf/Gampen Süd-West	Tirol	1821m	SW
2017-12-27 13:30	Wildalm / Steinkar	Salzburg	2240m	N
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2017-12-27 11:55	Seblasspitze	Tirol	2180m	NW
2017-12-27 11:50	Weissbachalm-Mitterleger	Tirol	2000m	NW
2017-12-27 11:30	Oberhalb Loipe St. Christoph	Tirol	1923m	S
2017-12-27 09:18	Zauchensee Gamskogel	Salzburg	1850m	N
2017-12-26 14:00	Vordere Grube, Gleirschtal	Tirol	2410m	NE
2017-12-26 12:30	Defreggerhaus	Tirol	2975m	S
2017-12-26 11:10	Lawinestein	Steiermark	2m	E

452 selected (455 total)

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2. Profile details

Cutoff date: December 2017

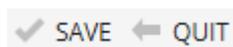
If you have dug and cut a snow profile, you can enter your collected data in LAWIS as a contribution to the completeness of the profile data base. The basis of this data base is a so-called crowdsourcing principle. All data is additionally controlled by the authorised Avalanche Warning Service.

In the top line next to the Profile space is an plus-sign in a circle. Select this by clicking on it to be transferred to Entry Modus.



Please fill out all spaces truthfully and accurately.

Once you have completed entering details of the profile, please click on the SAVE space above right to save the data. If you wish to interrupt the process and return to the general collection of events, please click on the space BACK.



3.1. Explanation of entry spaces

Name/ E-Mail: These are mandatory spaces, so that Avalanche Warning Services can contact observers if necessary.

Date of profile: The current date is displayed. Correct this if the profile was taken on another date.

Time of profile: The current time is displayed. By clicking on the time  the time is updated.

Location: This can be scree, a gully, a valley or a town name.

Air temperature: This is the measured air temperature. Try to measure the temperature at approximately 2 meters above the ground and at least 2 meters distant from warm objects, e.g. persons, tea, cigarettes.

Cloud cover: Please select from among the possible options. The cloud cover is displayed in eighths. Take into consideration the entire visible dome of the sky. For your observation please select a location which is without visual impediments. To determine the correct eighth, cloud cover density is irrelevant. Thus, it is possible for it to be a sunny day, yet with a completely closed (8/8) cloud cover (when cirrostratus clouds cover the sky).

0/8	no clouds visible
1/8	e.g. only isolated jet stream vapour trails of airplanes, from the vantage point of the observer one eighth of the sky is covered
5/8	more than 50% of the sky is covered with cloud
8/8	the entire sky is covered with cloud

Precipitation: Please select from among the possible options.

Land & Region & Subregion: Please select from among the possible options.



Lat/Long: If you do not know the coordinates of the event, a coordinate-calculator and interactive map are available in order to pinpoint the exact spot of the event.. Click on "Accept" above right to accept the spot you have selected as the location of the event.  

Altitude: Meters above sea level

Slope gradient: Slope gradient (angle) in degrees, at the fracture point of the avalanche

Aspect: Please select from among the possible options.

Wind strength:

Please select from among the possible options.

Comments:

Do you have other information for us which is not addressed in the regular questions? If so, please enter your comments here or write us an email.

3.2. Entering a snow profile

Profile			Snow Temperature				Stability Tests	
H_{max} [cm]	H_{min} [cm]	Θ	F ¹	F ²	D_{min} [mm]	D_{max} [mm]	K [N]	
50.0	40.0	1	•	•	0.50	0.50	2	

If you glide the mouse over the icon or abbreviation without clicking it, a space appears with a precise designation / explanation.

With    you can change your entry, delete it or begin a new line.

By clicking  you confirm your entry.

Please enter the individual snow layers from above-to-below.

Profile			Snow Temperature				Stability Tests	
H_{max} [cm]	H_{min} [cm]	Θ	F ¹	F ²	D_{min} [mm]	D_{max} [mm]	K [N]	
50.0	40.0	1	•	•	0.50	0.50	2	

After entering the upper/lower limits of the snowpack layers, the moisture, grain shape, diameter and hardness, by clicking on the green-highlighted check each individual layer is confirmed and saved. In order to ensure that each snowpack layer is saved it is advisable to click on [Show Profile](#) above the profile graph. The profile is then updated and drawn anew.

3.3. Explanations of entry parameters of snow profile

Value	Possible entry	Explanation
H_{max} [cm] and H_{min} [cm]	0 to 1000	H_{max} → perpendicular distance from upper layer border to ground in cm H_{min} → perpendicular distance from lower layer border to ground in cm
θ	1 - 2 - 3 - 4 - 5	1 → dry snow below 0°C 2 → weak moist snow 0°C; sticky 3 → moist water can be seen ; no drain-off 4 → wet saturated; water drain-off 5 → very wet saturated with water
F^1 and F^2		Grain shapes: F^1 – predominant grain shape F^2 – subordinate grain shape <i>Comment 1:</i> if only one grain shape is present → $F^1 = F^2$ <i>Comment 2:</i> when entering a melt-freeze crust, F^1 is always the melt-freeze form. Beyond F^2 another grain shape can be entered.
D_{min} [mm] and D_{max} [mm]	0,25 - 0,5 - 1,0 - 1,5 - 2,0 2,5 etc.	Grain size: D_{min} → size of the smallest grains D_{max} → size of the largest grains Normal sizes: fresh snow: 1-3 mm fuzzy snow: 1-2 mm round grains: 0.25-0.5 mm faceted grains: 1-3 mm depth hoar: 2-5 mm surface hoar: 2-5+ mm melt-freeze shape: 1-5 mm faceted, rounded: 0,5-3 mm graupel: 0.5-3 mm
$K_{[N]}$	1 to 6	Snowpack hardness 1 → fist [FA] very soft 2 → 4 fingers [4F] soft 3 → 1 finger [1F] medium-hard 4 → pencil [B] hard 5 → knife [M] very hard 6 → ice [-] compacted

Please note: the rivets generated for each layer of snow (shown in the column on the right next to hardness K) serve to evaluate the borderline to each layer. The more rivets the borderline to a layer has, the more unfavourable is the assessment of this layer.

3.4. Entering snow temperature

Please enter here the measured snow temperatures (ideally, 10 cm apart). The air temperature has already been isolated and entered in the general data. You can omit the minus sign when entering the temperatures, since this is automatically generated.

Profile	Snow Temperature	Stability Tests
H [cm]	T [°C]	
50	-4	<input checked="" type="checkbox"/>

3.5. Entering stability tests

Please select the type of test which has been conducted: CT, ECT or RB. A brief description of the stability tests can be found in section 2.1 - Explanation of Stability Tests.

Profile	Snow Temperature	Stability Tests
Class	Step	H [cm] Result
ECT	13	40 no propagation (N)
		<input checked="" type="checkbox"/>

Compression Test (CT)

The CT serves primarily to diagnose a weak layer. It is one of the quickest tests to carry out. However, it is less “reliable” than the rutschblock test or the ECT, since it supplies no information about *fracture propagation*. Nevertheless, it enables us to determine whether there are weak layers inside the snowpack which additional loading could cause to collapse. For a CT, a 30 x 30-cm large cube or pillar of snow is removed. Weight/force is placed on it by a snow shovel (flat spade) in increasing degrees. The thrust from the wrist and the elbow comes when the hand is held flat, from the shoulder joint, then with the fist. The steepness of the relevant spot should be about 35°.

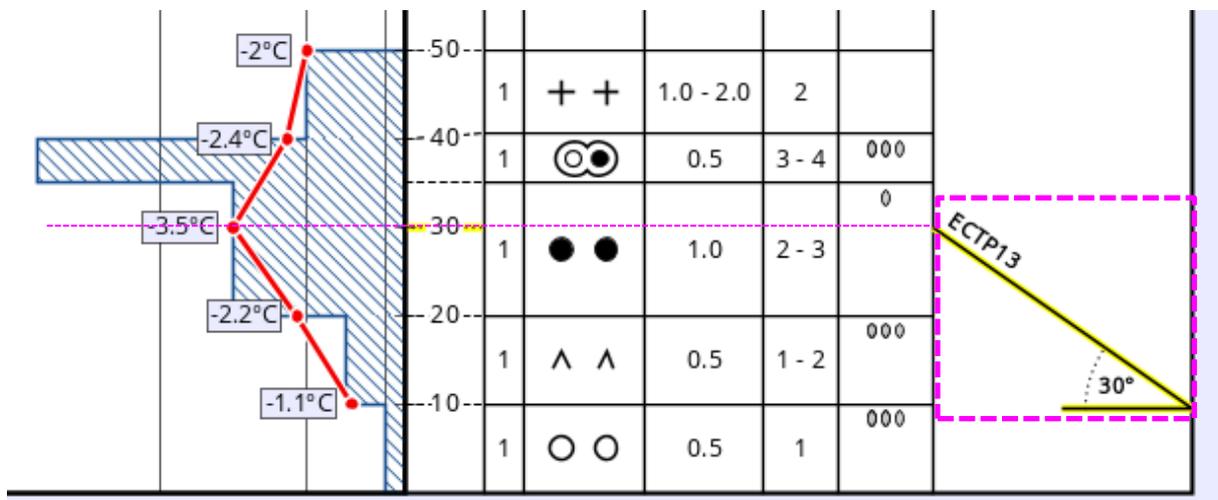
CT0@...	pillar fractures through digging or sawing
CT1-10@...	fracture at 1.-10. weight (from wrist)
CT11-20@...	fracture at 11.-20. weight (from elbow)
CT21-30@...	fracture at 21.-30. weight (from shoulder)
CT31...	no fracture, pillar remains stable

The number after the CT (=class) designates the level of weight/force (=level). The value after the @ designates at what height (=H_[cm]) inside the snowpack the fracture was initiated. In addition, please also record the type of fracture (=result), namely, whether it was a fracture with varying types of resistance (RP, RC, B), a sudden fracture with a smooth surface (SP) or a collapse (SC).

As before, the entry is confirmed by clicking the icon.

Profile	Snow Temperature	Stability Tests
Class	Step	H [cm]
CT		
Result		
<input checked="" type="checkbox"/>		
resistant break non-planar (B) resistant break planar (RP) resistant break prog. compression (P) sudden break collapse (SC) sudden break planar (SP)		

Example: CT23@81 means a fracture which was located 81 cm above the ground was triggered at the 23rd level of weight inside a weak layer.



Both for CT and for ECT, a fracture was initiated at the 23rd impulse (3rd degree of force from the shoulder joint). ECTP23 (P for propagating, expanding) shows us that the fracture could spread at the 23rd or 24th impulse.

Expanded Compression Test (ECT)

The ECT makes it possible to estimate the degree of fracture propagation inside the snowpack and thus, provides somewhat more information than the CT. For this, one removes a 90 x 30-cm large snow pillar. One places the blade of the shovel at its edge and in successive degrees, corresponding to the successive levels of weight/force of the CT, burdens it with a thrust. The entry of the ECT is much like that of the CT:

- ECTP#@...** **(Expanded Compression Test with propagation)**
Fracture spreads throughout the entire block upon strike no. # or the following strike; the strike # designated is the one at which the fracture occurs.
- ECTN#@...** **(Expanded Compression Test without propagation)**
Fracture occurs at strike no. # but does not spread even at the following strike. Fracture propagation could, yet need not necessarily, occur with additional strikes.
- ECT31...** Until the completion of the test, no fracture occurs.

In order to define whether it is an ECTP or an ECTN test, an appropriate selection must be entered in *Result*: either “sudden fracture” (P) or “partial fracture” (N).

Profile			Snow Temperature		Stability Tests	
Class	Step	H [cm]	Result			
ECT	13	40	no propagation (N)			✓
			no propagation (N)			
			propagation (P) (whole block)			



Rutschblocktest (RB)

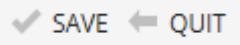
The Rutschblock test is the best, but also the most elaborate method to determine the stability of the snowpack. It is relatively easy to perform in practice, since it uses the body weight of the testing person to test the stability. For this, one removes a block 2 meters wide and 1.5 meters long (measured up the slope) from a slope which is relevant (about 35° gradient). Then the snow block is weighed upon in successive steps until it breaks:

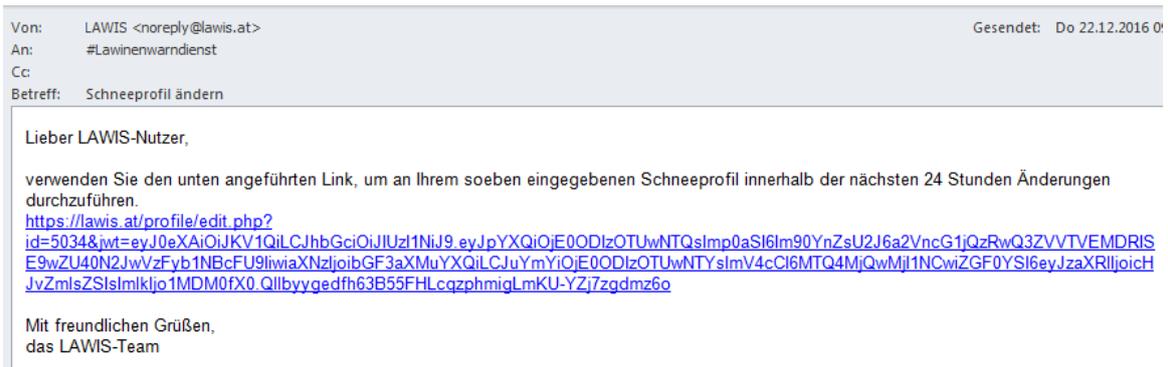
- RB 1@... Fracture while digging or sawing (naturally)
- RB 2@... Fracture while gently bearing down on it with skis
- RB 3@... Fracture from 3 teeterings on it, standing on skis
- RB 4@... Fracture of upper third at first jump on it
- RB 5@... Fracture of upper third at 2nd or 3rd jump
- RB 6@... Fracture of upper third at jump without skis
- RB 7 No fracture. Block remains stable.

if a fracture can be initiated, the snow profiler must record whether the entire block or only part of the block fractured.

Profile			Snow Temperature		Stability Tests	
Class	Step	H [cm]	Result			
RB			partial break			✓
			whole block			

3.6. Changing entered profiles

The SAVE space is located at the upper right.  By clicking on this space, your entire entry is uploaded and made visible and available to everyone. At the same time, you are sent an automatic email in which the link to making corrections to your entry is given to you. If you discover an error later, you can use this link to correct it within 24 hours of your entry. If you cannot or do not wish to make the correction yourself, please contact the LAWIS team by email or telephone.



4. Often asked questions

?◀ When I was entering the coordinates and confirming them by pressing the ENTER key, the SnoProfiler crashed and all the data was lost. Why?

We are aware of this problem, which occurs in Internet Explorer 9. We recommend using a new browser version or installing / using a different web browser, e.g. Firefox, Chrome, Opera.

?◀ When I was entering the temperature, the value I entered was not accepted. Why?

The problem lies in temperatures with commas: unfortunately only dots are supported. If a comma occurs in the number, the value is not accepted.

?◀ I made an error when making an entry and only realized it later. Can I later correct my own profile?

No. Changing or deleting profiles can only be done by the administrator. If necessary, please send a message via email to lawine@tirol.gv.at.

?◀ When I was entering the snowpack hardness, my entry was not accepted. What am I doing wrong?

For entering snowpack hardness, certain rules were built into the system in order to circumvent errors. Thus, for layers with only round-shaped grains, a hardness of 1 or 1-2 is not possible. Another example: layers with only fresh fallen snow and/or fuzzy snow can only have a hardness of 1 or 2.

5. Printing information – Partners



LAWIS - Lawinenwarndienst Informationssystem

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