



# ARCHIVIO

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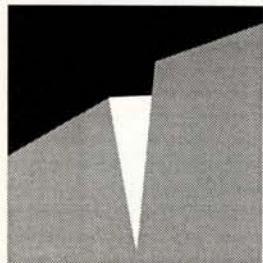
GRUPPO NAZIONALE GEOGRAFIA FISICA E GEOMORFOLOGIA  
*Sezione Glaciologia*

CATASTO DEI ROCK GLACIER DELLE ALPI ITALIANE  
ROCK GLACIER INVENTORY OF THE ITALIAN ALPS



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## CATASTO DEI ROCK GLACIER DELLE ALPI ITALIANE ROCK GLACIER INVENTORY OF THE ITALIAN ALPS

Mauro GUGLIELMIN and Claudio SMIRAGLIA - Editors

3

TORINO, 1997

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Although previously studied, in particular in the western Alps, the rock glaciers of the Italian Alps only really became the subject of numerous studies from the early 1980s onwards. The "Glaciology Section" of the National Group on Physical Geography and Germorphology of the National Research Council has played a propulsive role on this research. In the summer of 1985 a camp was set up, with the participation of researchers from various Italian universities, in order to study certain rock glaciers in Valfurva (Sondrio). This gave the impulse to a subsequent project aimed at providing a census of all Italian rock glaciers. This project was gradually carried out and some partial results have already been presented at congresses and published.

As a consequence, there began to form a small but determined group of researchers specializing in the more general themes of Alpine permafrost; empowered with new scientific knowledge, this group also began to forge a strong and healthy international network of researchers.

It is peculiar how the seed of an idea seems to fall at the right moment, finds favourable soil for its development, and spontaneously gives fruit. Thus the periglacial studies in Italy, which had suddenly given a new lease of life and have continued to grow vigorously over the last decade or so.

It is therefore with legitimate satisfaction that the Glaciology Section of GNGFG and the Italian Glaciology Committee witness, with the present volume, the coming to fruition of an inventory of rock glaciers in the Italian Alps which will also enrich the "Archivio" series published by the IGC. This series is itself a useful tool, given also its deliberately simple style, for those who want easy access to glaciological data and information.

The research on rock glaciers was funded by the CNR and MURST. The University of Bari, CNR and the ICG helped cover the printing costs of this volume.

Permafrost and its manifestations constitute an important sector in glaciology and new contributors to this field should dedicate themselves with fervour and perserverance. And so our gratitude goes to everyone who has contributed to the success of this first inventory and our most heart-felt encouragement to pursue further their studies on periglacial processes.

ALBERTO CARTON and CLAUDIO SMIRAGLIA

## INTRODUCTION

Interest in rock glaciers has a long-standing tradition in Italy. Hermann, Nangeroni and Capello pioneered work on this type of landform in the Western and Central Alps, starting from the mid 1920s; this work was continued until the end of the 1950s. After that time, in other countries indepth research continued and developed beyond the already completed descriptive phase, whereas in Italy specific research on this topic was no longer being done. It was only at the start of the 1980s that within the scope of work being done by the Glaciology Section of the Gruppo Nazionale Geografia Fisica e Geomorfologia (National Group on Physical Geography and Geomorphology) of the Consiglio Nazionale delle Ricerche (National Research Council), thanks to the efforts of G.B. Castiglioni, interest in these landforms so characteristic of the morphoclimatic periglacial and glacial domain, was renewed once again. This interest was then transformed into the energetic activity of all of the members of the Sector as regards the preparation of the inventory presented here.

Rock glaciers present a multitude of interesting aspects, both in terms of the particular characteristics of these landforms (geometry, the nature of the ice inside the accumulation, the mechanisms underlying their genesis, movement) and in terms of their paleoclimatic significance. Given that there exist both "active" rock glaciers and "inactive" rock glaciers and given that these landforms have complex topographical and genetic relationships with glacial morphogenesis (to be truthful, not yet clarified entirely), rock glaciers are taking on growing importance as climatic indicators in paleogeographical reconstructions of the Pleistocene and the Holocene. Interest of a practical and applicative nature, especially interest in geotechnical aspects, may also be added to the aspects of interest mentioned above.

These are all motivating elements that led the GNGFG Glaciology Section, co-ordinated first by G. Orombelli and then by G. Palmentola, to resume the old Italian tradition of rock glacier research, which has received financial support from the National Research Council.

One of the Section's main objectives was the preparation of an inventory of the rock glaciers existing in the Italian Alps. This task appeared to be quite complex from the very start and completion of the inventory has required almost a decade of work. Coordination of the research work was assigned by the "Glaciology" Section to A. Carton and C. Smiraglia, and at a later date, M. Guglielmin also joined them in these efforts, editing most of the work presented here.

Then there are numerous colleagues who time and again, offered their contributions, varying in scope and manner, for the completion of this project.

More specifically, the data sheets on the individual rock glaciers were compiled by:

- C. Baroni (*Rhaetian Alps*)
- N. Cannone (*Rhaetian Alps*)
- A. Carton (*Rhaetian Alps, Dolomite Alps*)
- G.B. Castiglioni (*Atesine Alps, Dolomite Alps*)
- M. Guglielmin (*Cottian Alps, Graian Alps, Pennine Alps, Lepontine Alps, Rhaetian Alps, Carnic Alps*)
- V. Maggi (*Rhaetian Alps*)
- G. Mastronuzzi (*Atesine Alps*)

- U. Mattana (*Atesine Alps*)
- M. Meneghel (*Dolomite Alps, Carnic Alps*)
- M. Onorati (*Cottian Alps*)
- C. Ottone (*Pennine Alps*)
- G. Palmentola (*Atesine Alps*)
- B. Parisi (*Rhaetian Alps*)
- M. Pelfini (*Rhaetian Alps*)
- G.B. Pellegrini (*Dolomite Alps*)
- M. Petruzzelli (*Atesine Alps*)
- A. Ribolini (*Maritime Alps*)
- P. Sansò (*Atesine Alps*)
- U. Sauro (*Dolomite Alps*)
- C. Smiraglia (*Graian Alps*)
- C. Tellini (*Maritime Alps, Rhaetian Alps*)
- V. Toniello (*Dolomite Alps*)
- C. Vanuzzo (*Graian Alps*)
- C. Voltolini (*Graian Alps, Dolomite Alps*)

The data sheets were edited by G. Diolaiuti and A. Radini, who entered the data in the computer files with the assistance of J. Pasotti, and together with C. D'Agata, supervised the preparation of the maps.

In conclusion, M. Guglielmin provided for the processing of the data contained on the sheets.

The identification of the individual forms to be included on the data sheets was carried out by the examination of color and black and white aerial photographs at various scales. The rock glaciers identified were then reproduced on large-scale (25,000-10,000) official regional and national maps. This made it possible to compute the various morphometric parameters for these forms. The data collected were then entered on specially designed data sheets, which were gradually adapted according to the work in progress and the various needs, regarding the data sheets, which became clear as the work was being done. It should also be noted that numerous field checks were made on the sample, to check the data obtained from the aerial photographs.

The most recent update of the data sheets is attached here.

As regards the typology of the data collected on the data sheets, several small changes were made for publication purposes .

The rock glaciers identified (almost 1600) were grouped according to the traditional division of the Italian Alps into sectors. There was a preliminary data processing stage for each sector, carried out by M. Guglielmin. This was followed by another data processing stage for the Italian Alps as a group and which offers an overview of the characteristics of the rock glaciers in the Italian Alps.

The inventory is thus structured as follows: a brief *Introduction*, followed by the collection of data subdivided by geographical sector, and a brief *Conclusion*. These are followed by a set of schematic maps showing the distribution of the rock glaciers.

The work performed for data collection and the editing of the data was actually quite difficult and involved, especially because of the necessity to render the data collected homogeneous , keeping in mind that these data were collected by a large number of surveyors in different periods of time. The outcome is certainly not perfect and the list is definitely not complete. However, as a first attempt, we believe that the inventory overall does offer valid information on the main characteristics and

distribution of rock glaciers in the Italian Alps. Moreover, we hope that this work shall constitute a useful contribution and valuable service to those who intend to continue to deal with the numerous issues still unresolved in connection with one of the most interesting landforms existing in the Alpine environment.

In addition to the inventory, the efforts of the Section members were also aimed at an indepth analysis of the most interesting and significant rock glaciers, through survey work conducted in the field with the objective of gathering information on their structural and dynamic aspects, as well as on their evolution, and above all, their relations with the morphogenetic systems of the Alpine environment. Seminars and workshops were thus organized starting from 1985, on the three Alpine sectors in Valtellina, Valle d'Aosta and the Dolomites. Most of the members of the "Glaciology" Section participated. The aims of these workshops were to share and discuss research work and develop common work methodologies. Smaller groups or individual researchers then continued with more detailed work which led to the collection of data on the surface movement of these landforms, surface temperatures, the sedimentology of the deposits, the chronology of their deposition, their structure and the characteristics of the ice inside, not only regarding the Alpine rock glaciers, but also the rock glaciers in the Apennines. For these purposes, and also in collaboration with foreign researchers, mainly French, geophysical techniques were utilized, especially electrical-resistivity sounding and BTS techniques. Moreover, phytosociological surveys were conducted on the vegetation cover on several rock glaciers and data on the presence and state of preservation of the inner permafrost were collected. This research led to numerous publications and reports presented at congresses, including international congresses. A list of these publications is included in the bibliography attached here and represents the works on rock glaciers by Italian researchers that have been published to date.

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## Data sheet

Number	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Name of the main ..... location near the r.g.	
	100.000		
Lat.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
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<b>Classification</b>			
Active	<input type="checkbox"/> a	inactive	<input type="checkbox"/> i
		uncertain activity	<input type="checkbox"/> Un
			Complex <input type="checkbox"/> c
<b>Location</b>			
Valley bottom	<input type="checkbox"/> Vb	Cirque	<input type="checkbox"/> Cr
		Furrow	<input type="checkbox"/> Fu
		Slope	<input type="checkbox"/> SI
		Other	<input type="checkbox"/> Ot (Specify)
<b>Lithology of the feeding basin</b>			
Metamorph. rocks	<input type="checkbox"/> ME	Plutonites	<input type="checkbox"/> PL
		Vulcanites	<input type="checkbox"/> VU
Carbonatic rocks	<input type="checkbox"/> RC	Other sedim.rocks	<input type="checkbox"/> RS
		Layering, foliation or fracturing planes	<input type="checkbox"/> Ly
<b>Relationships with Glacial forms</b>			
Glaciers	<input type="checkbox"/> GL	Glacierets	<input type="checkbox"/> GT
		Snow Banks	<input type="checkbox"/> SB
		morainic forms	<input type="checkbox"/> MF
<b>Relationships with Vegetation</b>			
Absent	<input type="checkbox"/> AA	Continuous meadows	<input type="checkbox"/> CM
		Continuous arboreous	<input type="checkbox"/> CA
		Discontinuous meadows	<input type="checkbox"/> DM
		Discontinuous arboreous	<input type="checkbox"/> DA
<b>Front position towards local vegetation boundaries</b>			
above	<input type="checkbox"/> Ab	below tree line	<input type="checkbox"/> Bt
		below continuous meadows	<input type="checkbox"/> Bm
Surficial texute	<input type="checkbox"/> meandering ridges <input type="checkbox"/> Mr	transverse ridges <input type="checkbox"/> Tr	Steep front <input type="checkbox"/> SF
		well developed tongue <input type="checkbox"/> Ts	Swollen body <input type="checkbox"/> Sb
			Hollow <input type="checkbox"/> Ho
		Conical pits <input type="checkbox"/> Cp	Other <input type="checkbox"/> Ot
<b>AERIAL PHOTOS</b>			
Date	.....	Flight	.....
Photo n.	.....	Scale	.....

MAURO GUGLIELMIN

## GUIDE TO THE INVENTORY AND PRELIMINARY STATISTICAL ANALYSES

To facilitate an interpretation of the characteristics obtained from the 1594 data sheets for the rock glaciers identified in the Italian Alpine region, the data have been subdivided starting from the western Sector moving eastward over the nine traditional geographical sectors: Alpi Marittime (Maritime Alps), Alpi Cozie (Cottian Alps), Alpi Graie (Graian Alps), Alpi Pennine (Pennine Alps), Alpi Lepontine (Lepontine Alps), Alpi Retiche (Rhaetian Alps), Alpi Atesine (Atesine Alps), Alpi Dolomitiche (Dolomite Alps), Alpi Carniche (Carnic Alps). Each rock glacier is identified by a single row subdivided into 26 columns. The first six columns starting from the left, permit a geographical identification of the rock glacier. In fact, the location is specified according to official Italian I.G.M. maps in the first three columns. The following are indicated in the same order in which they are presented here: the sheet number, the "quadrant" number (in Arabic numerals, rather than Roman numerals) and lastly, the orientation (NW, NE, SW, SE). The fourth column lists the assigned identification number. The fifth and sixth columns list latitude and longitude, respectively, and they have been calculated with respect to the international Greenwich meridian (E.D., 1950). The numbered identification follows an order starting from Colle di Cadibona to Sella di Camporosso, along the Alpine arc and in accordance with the subdivision by type (sheet, quadrant, orientation) used on official maps and thus starting from sheet 91 to sheet 13.

Within the individual Alpine sectors, a clockwise direction was followed (for example, in the Maritime Alps, sheets 91-90-78-79). Numbering within the individual orientation maps was done in the same manner, in an attempt to follow a course typical of the orography of the area.

The identification of the geographical location was completed by the indication of the place-name listed in the seventh column. The place-name consists of the peak or the locality nearest to the rock glacier as reported by the official maps. In cases in which no place-names are reported in the immediate vicinity, sometimes the topographical altitude of the peak nearest to the rock glacier was listed. In many cases, the surveyors preferred not to indicate any place-name.

The morphometry and the main morphological data for the rock glaciers identified are reported in the eighth through to the nineteenth column. The eighth and ninth columns list the minimum altitude (at the foot of the front) and the maximum altitude of the rock glacier, respectively, and expressed in meters above sea level. The maximum altitude is often lacking due to difficulties encountered during the surveying process.

The next column (the tenth) indicates the mean slope of the rock glacier surface, computed by trigonometric calculation as the tangent of the ratio of the difference in height (maximum altitude minus the minimum altitude) to the maximum length of the rock glacier.

The eleventh column lists the area in square meters, computed as the product of the length multiplied by the width. The resulting value, which is merely indicative, is difficult to obtain due to the often transient passage occurring in the upper sectors of rock glaciers with scree slopes or glacial deposits which feed the rock glacier itself.

The next column (the twelfth) concerns exposure and it lists the mean orientation of the rock glacier with respect to North. Values are indicated with the initials of the sectors considered (12 sectors from N to NNW).

Then the values referring to maximum width (thirteenth column) and maximum length (fourteenth column) are listed. Both of these parameters are expressed in meters and were measured in a normal direction and parallel to the direction of main

the flow of the rock glacier, respectively. Measurements of the maximum length sometimes reflect difficulties encountered in determining the upper limits of the rock glaciers.

The fifteenth column concerns the morphodynamic classification of the rock glaciers as evaluated from the aerial photographs. The classification comprises four cases: active, inactive, of uncertain activity and complex. More specifically, forms without any vegetation or with a discontinuous grass cover, a steep front and generally with a turgid and swollen morphology were classified as active. Inactive forms included the rock glaciers that presented a continuous grassy, shrub- or tree-cover with a longitudinal profile that was generally concave or with conical pits within the mass of the rock glacier and a front that was not particularly steep. Forms classified as uncertain or of uncertain activity generally presented a discontinuous grassy cover or none at all, but which possessed the morphological features typical of inactive forms. Lastly, all forms with a lower inactive sector and an active upper sector were classified as complex rock glaciers.

The next column (sixteenth) lists the topographical location of the rock glacier examined: cirque, slope, furrow or valley, which can represent a preliminary indication of the genetic type or in any case, provide a general idea of the morphodynamic environment in which the form is located.

Following these columns, the seventeenth column indicates which rock type group is reported in the official Italian geological maps for the rock glacier accumulation areas (metamorphic, plutonic, extrusive volcanic, carbonate rocks or other types of sedimentaries).

The eighteenth column lists any existing relationships with glacial masses or forms such as glaciers, glacierets, semi-permanent snow banks or moraines located slightly above or adjacent to the rock glacier being examined and present in the aerial photograph observed or reported in the national inventory of glaciers. In the event of relationships with more than one glacier structure, the one held to be most important by the surveyor (if indicated on the data sheet) or the most significant element in terms of present-day glaciation (in the following order of importance: glacier, glacierets, snow banks and lastly, moraines), was listed in this column.

The nineteenth column indicates the location of the rock glacier in relation to the upper altitude limit of the tree or grassy vegetation. More specifically, if the rock glacier proved to be above the upper limit of the grassy vegetation, "above" was listed. If it was located below that limit but above the tree line, "below meadows line" was indicated and lastly, if it was located below the maximum limit of the tree line, "below tree line" was reported.

In conclusion, the remaining columns, starting from the twentieth column, list the main characteristics of the surface morphology (meandering ridges and furrows, transverse ridges and furrows, conical pits) or the general morphological features of the rock glacier (steep front, tongue shape). These elements were recorded using a binary system reporting the presence (1) or absence (0) of the element and thus more than one element may be present on any given rock glacier examined.

At the end of the chart reporting the data for the rock glaciers in each sector of the Italian Alps, the results of the preliminary analyses are presented with some brief comments.

The density of the rock glaciers identified on maps at a scale of 1:250,000 was calculated for each sector, considering only the area analyzed within the separate sectors (thus not considering the IGM maps not examined), but excluding the areas situated below an altitude of 1000 m a.s.l. Then the statistical parameters were

calculated (mean, median, mode, etc.) for the distribution of the various parameters as a function of the frequency intervals chosen. The diagrams and comments refer solely to mean values or to the percentages of the various frequency intervals. The ratio of maximum length to maximum width was also calculated to permit classification of the rock glaciers in terms of morphology. More specifically, *tongue rock glacier* was used as a classification of those forms for which the ratio was greater than 1 and *lobate rock glacier* was used for those for which the ratio was lower or equal to 1.

Parameters not considered in the processing of the data, included "maximum altitude" and "relationships between the rock glacier front and the vegetation limits". Not all of the parameters were surveyed for all of the rock glaciers. The statistical analyses regard only the group of rock glaciers for which the data were available. As regards relationships with glacier masses, the percentages reported in the diagrams refer to the total number of rock glaciers that were related to the glacier masses themselves.

At the end of the inventory, there is also a presentation of a preliminary analysis of all the data and a table summarizing several main characteristics regarding the distribution of the rock glaciers.

The rock glaciers are located on the attached maps according to their geographic coordinates and represented according to the subdivision already mentioned, as *active rock glaciers* (squares), *inactive rock glaciers* (triangles), *rock glaciers of uncertain activity* (empty circle), and *complex rock glaciers* (solid circle). It was not possible to indicate the numbering as well, due to printing limitations. However, the identification can be found by means of the geographic grid, the coordinates of which are provided.

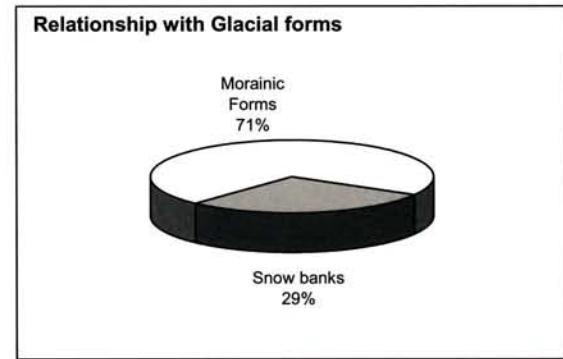
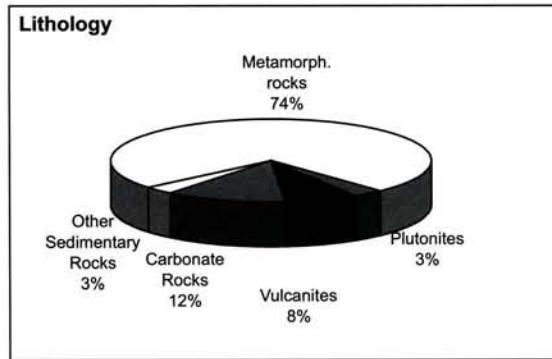
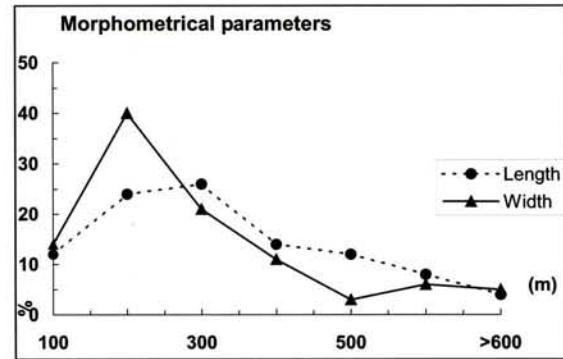
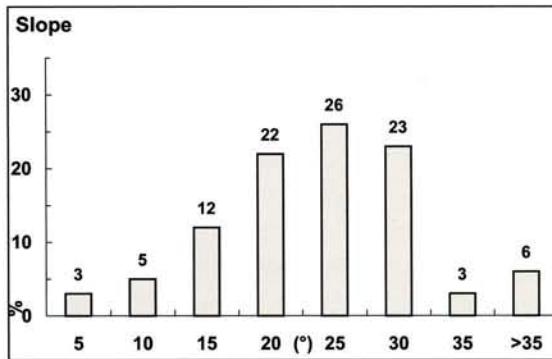
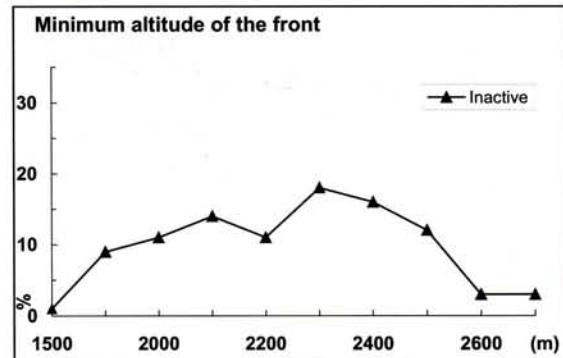
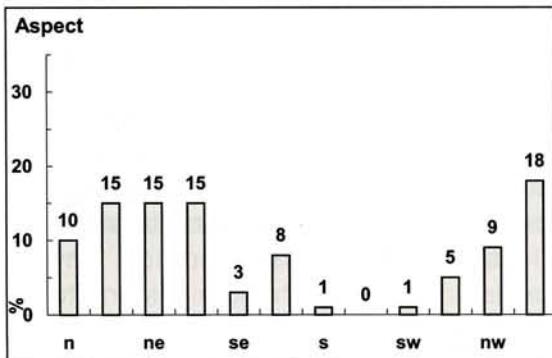
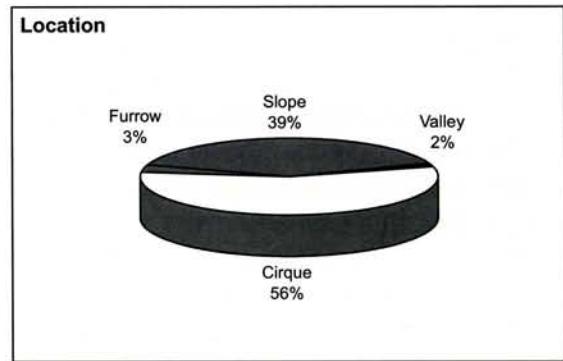
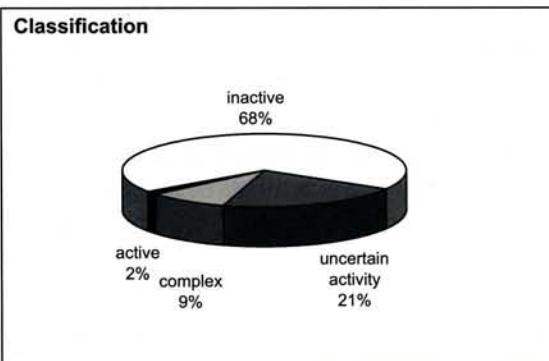
## MARITIME ALPS (FROM COLLE DI CADIBONA TO COLLE DELLA MADDALENA)

The distribution of the rock glaciers in this sector of the Alpine arc is prevalently concentrated around the Mt. Argentera massif (3297 m) and above all, in the upper Valle Corsaglia and the Valle dell'Ellero, around Mt. Mongioie (2630 m). There is also a fairly substantial density of rock glaciers in Upper Val Vermegnaga. Overall, 66 rock glaciers were surveyed, corresponding to 4.1% of the inventory total. Only one of the 66 rock glaciers is active, whereas the rest are predominantly inactive (68%). The density of the rock glaciers is 0.067 rg/km<sup>2</sup>. These landforms are prevalently located in cirques (56%), although a fair number are located on slopes (39%). The rock glaciers are almost nonexistent in the southern sectors (13%) and are more frequently found in eastern sectors, rather than western sectors.

Considering altitudes, the rock glacier fronts in this area reach minimum altitudes that are distributed rather homogeneously between 2000 and 2400 m in altitude, with a mean of 2187 m. Among the inactive forms, the front altitudes vary from a minimum of 1475 to a maximum of 2500 m, with a mean of 2127 m. The one active rock glacier reaches a minimum altitude of 2230 m.

As concerns the morphology, tongue-shaped rock glaciers prevail (62%). Lengths mainly fall within a 100-400 m range, with a mean of 307 m, whereas the width range is from 100 to 300 m with a mean of 267 m.. The surface area proved to be between 1 and 7.5 ha and the total area is about 419 ha. The slope ranges between 15° and 30°, with a mean of 21°. Seventy-four per cent of these rock glaciers are located in areas with metamorphic bedrock and only 12% are located on carbonate bedrock. Any relationships with glaciation (only in 53% of the cases) are solely with moraines and to a lesser extent, with semi-permanent snow banks.

## MARITIME ALPS



## COTTIAN ALPS (FROM COLLE DELLA MADDALENA TO COLLE DEL MONCENISIO)

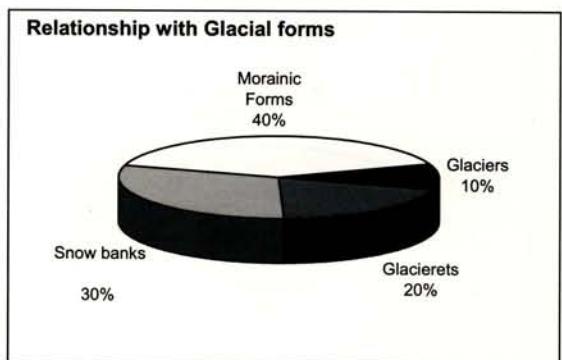
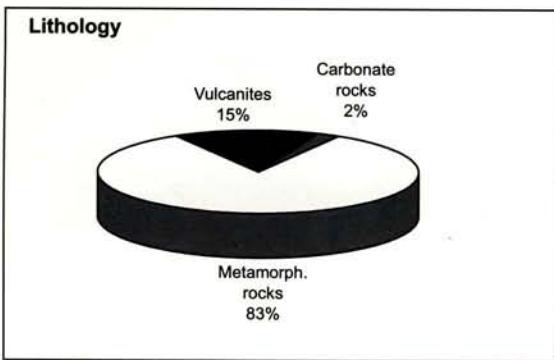
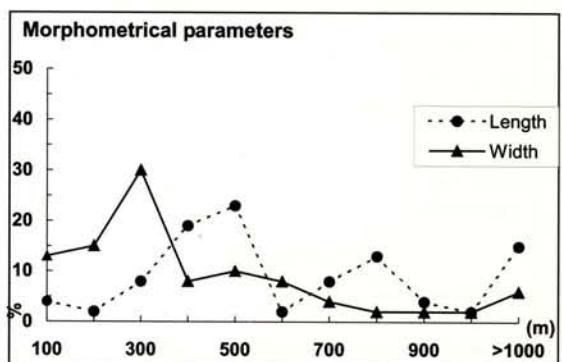
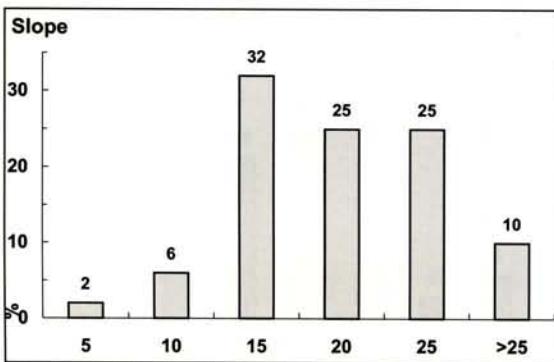
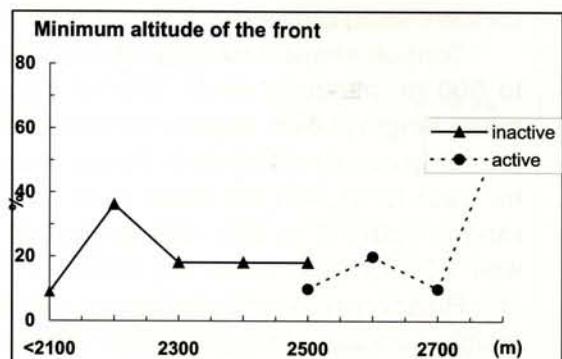
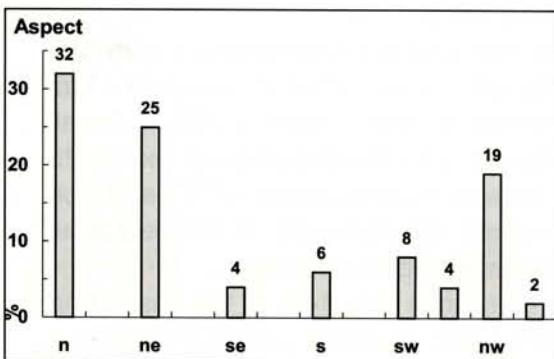
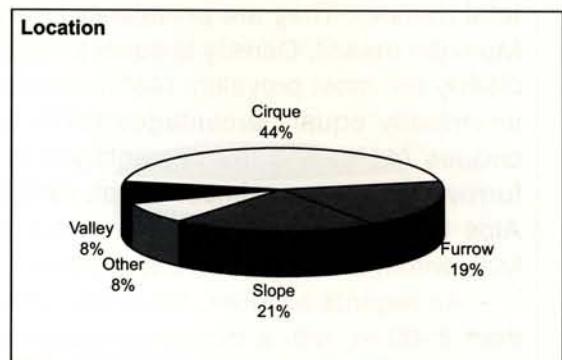
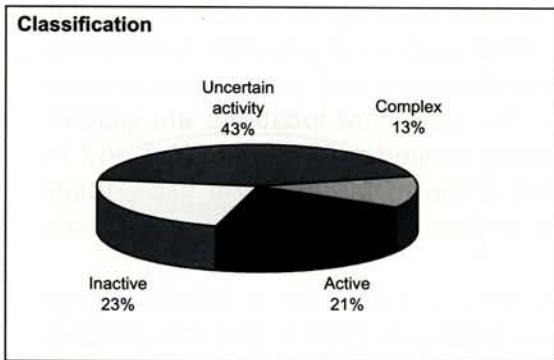
Forty-eight rock glaciers were identified in the Cottian Alps, making up 3% of the total number. They are prevalently concentrated in Valle Germagnasca and around the Monviso massif. Density is equal to 0.025 rg/km<sup>2</sup>. Rock glaciers of uncertain activity are clearly the most prevalent (43%), whereas active and inactive rock glaciers are present in virtually equal percentages (21% and 23%). The dominant locations are glacier cirques (44%) and the percentages of rock glaciers located on slopes (21%) and in furrows (19%) are almost equal. Almost one-third of the rock glaciers in the Cottian Alps have northern exposures and a good 78% of these landforms have exposures lying within the NW and NE quadrants.

As regards altitudes, the fronts of the inactive forms are all found at altitudes lower than 2500 m, with a frequency maximum between 2100 and 2200 m (the mean being 2127 m). The active rock glacier front altitudes range from 2500 to 2800 m, with a large concentration between 2700 and 2800 m and a mean of 2631 m.

Tongue-shaped rock glaciers (79%) prevail in this sector. Lengths range from 300 to 500 m, although about 15% of these rock glaciers exceed 1500 m in length. The mean length is 628. Widths vary between 100 and 500 m, with a mean of 395 m. Areas are fairly evenly distributed among the various classes, with the exception of the 20-25 ha class (2%), and the mean is 26 ha. The total area is equal to about 1272 ha. Slope ranges from 10° to 25°, with a mean of 19°. As regards the rock-type, in this sector as well, 83% of these forms are located in areas with metamorphic bedrock.

Relationships with glaciers or glacier landforms exist in only 44% of the cases and mainly concern semi-permanent snow banks (30%) and moraines (40%). Twenty per cent show relationships with glacierets.

## COTTIAN ALPS



## GRAIAN ALPS (FROM COLLE DEL MONCENISIO TO COL FERRET)

The distribution of rock glaciers in the Graian Alps is characterized by a high concentration in inner massifs such as the Gran Paradiso and Mt. Emilius, so that the highest densities of rock glaciers are found in the upper Rheme, Cogne and Champorcher valleys. There is also a fair concentration in Val Grande as well. In this Alpine sector, 126 rock glaciers were identified, corresponding to 7.9% of the total number. In terms of morphodynamics, this area has the highest percentage of active rock glaciers (39%), but not the lowest percentage of inactive forms (30%). Rock glacier density is equal to 0.044 rg/km<sup>2</sup>.

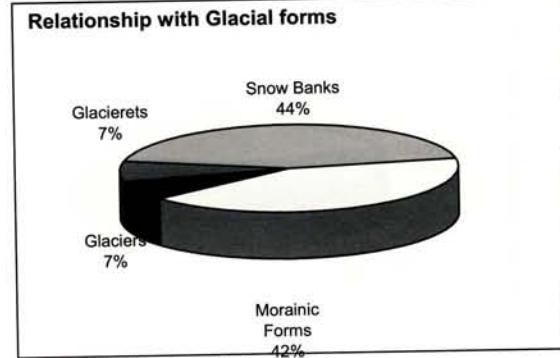
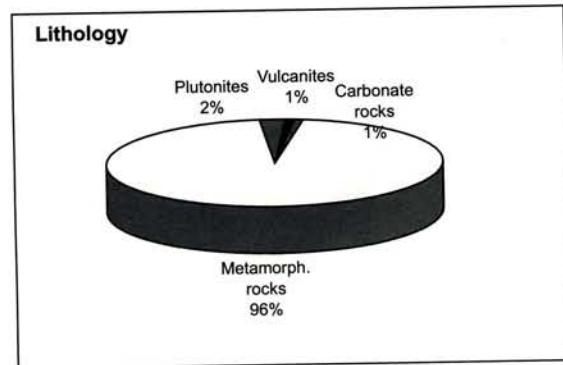
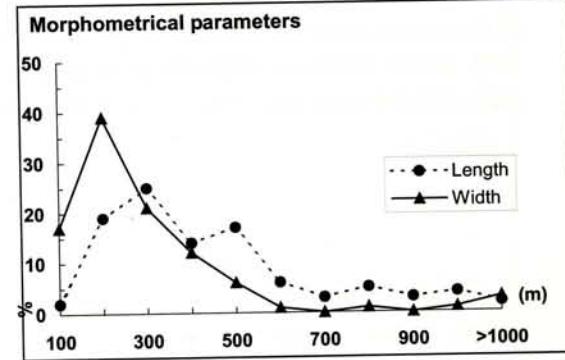
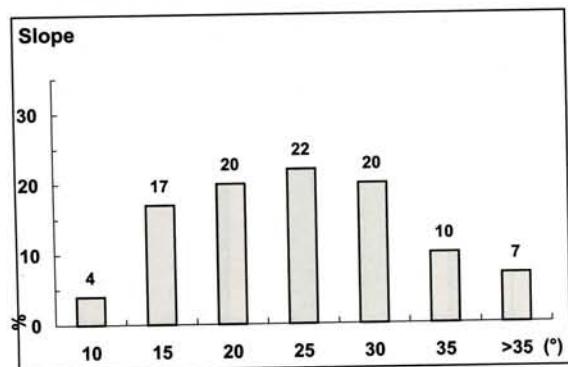
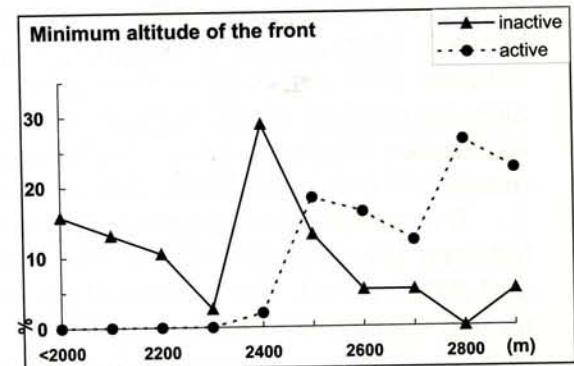
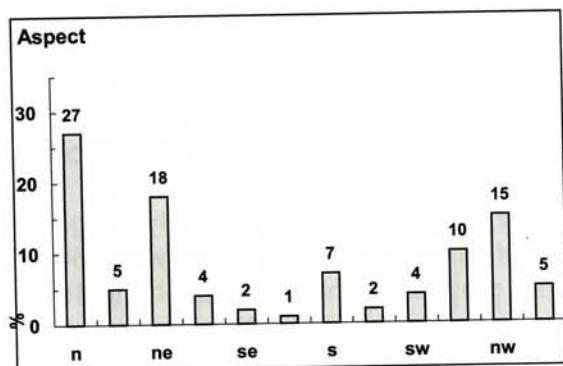
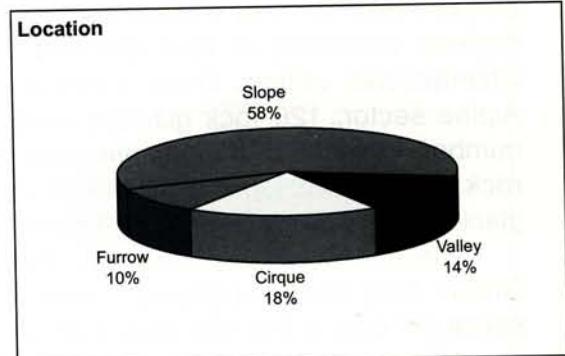
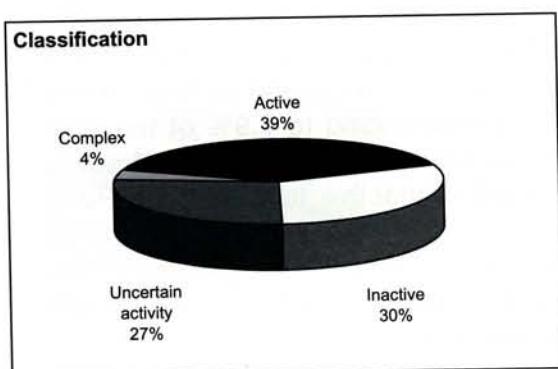
The prevalent location is on slopes (58%) and 70% of the rock glaciers in the Graian Alps have exposures towards the northern quadrants (NW to NE). Twenty-seven per cent of the rock glaciers have northern exposures.

Altitude distribution differs depending on whether the forms are inactive or active. In fact, the inactive rock glaciers show a distinct maximum in terms of percentages, between 2300 and 2400 m (28%), whereas the active forms showed two maximums between 2400 and 2500 m and between 2700 and 2800m. The mean for the minimum altitudes reached by the tongues of inactive forms is 2288 m compared to the 2679 m reached by the active forms. The difference of almost 400 m is the greatest difference resulting in the various Italian Alpine sectors.

Tongue-shaped rock glaciers predominate (77%) and lengths generally range between 100 and 500 m (75%), with a mean value of 418 m. Widths range between 50 and 300 m (77%), with a mean of 257 m. The area proved to range from 2.5 ha to 10 ha and the total area exceeds 1500 ha. Slope shows a range of 10° - 30°, with a mean of 22.5°. Ninety-six per cent of these forms are nourished by metamorphic rocks.

About one-third of these rock glaciers, which show relationships with glaciers (77% of the total), appear to be related to semi-permanent snow banks, whereas slightly over 10% show relations with glaciers and glacierets. A marked number of rock glaciers are also interrelated with moraines, often also beyond cirques.

## GRAIAN ALPS



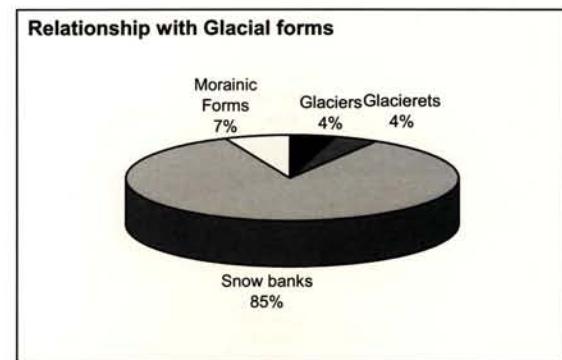
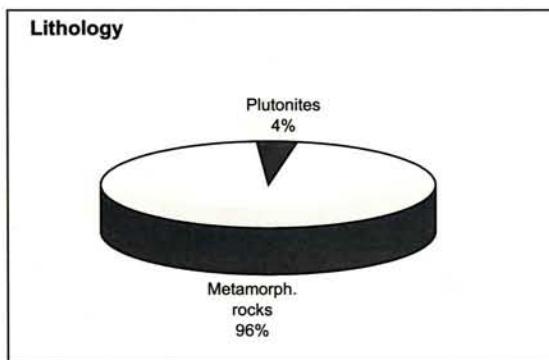
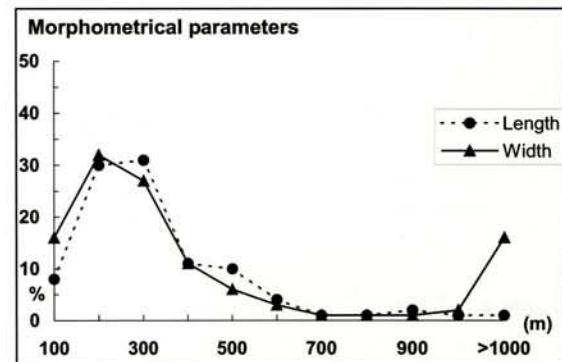
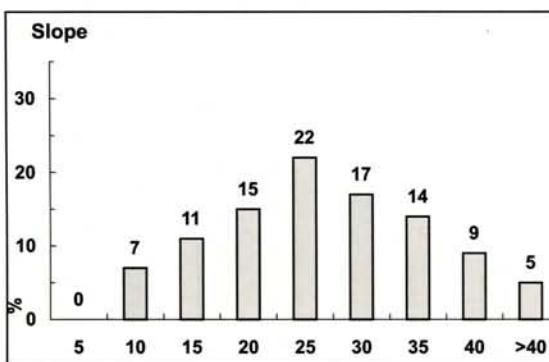
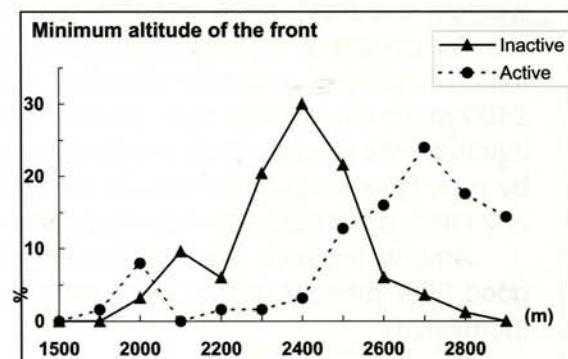
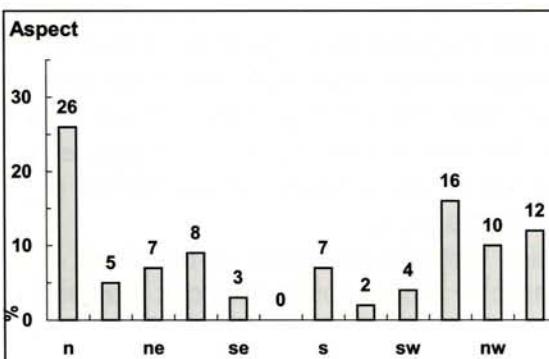
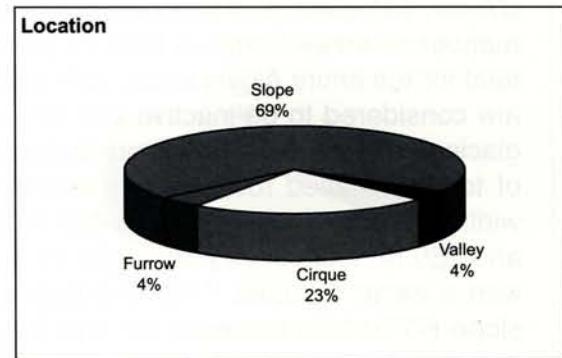
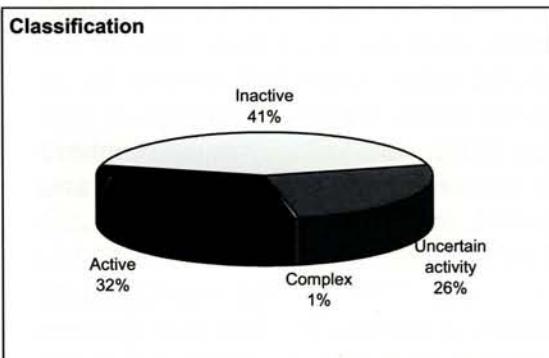
## **PENNINE ALPS (FROM COL FERRET TO PASSO DEL SEMPIOLE)**

The most plentiful areas in the Pennine Alps in terms of rock glaciers, are Val d'Ayas, Valpelline and Valtournanche. The eastern valleys of Monte Rosa show a lower number of these forms. A total of 199 rock glaciers were identified (over 10% of the total for the entire Alpine area), with a density of 0.084 rg/km<sup>2</sup>. Over 40% of these forms are considered to be inactive and 32% proved to be active. A high percentage of rock glaciers in the Pennine Alps are located on slopes (69%), with virtually equal numbers of tongue-shaped rock glaciers and lobate rock glaciers. In both cases, lengths and widths range between 100 and 400 m (73% and 86%, respectively) with means of 279 and 256 m, respectively. Areas for 77% of these rock glaciers range from 2.5 to 15 ha, with a mean of about 7 ha. The total area reaches over 1500 ha. The most frequent slope (77%) falls between 10° and 35°, with a mean of almost 25°. The rock glaciers are prevalently distributed within the northern quadrants (from NNW to NNE) and in the western quadrants (30% from SW to NW).

As concerns altitude, the rock glaciers in the Pennine Alps, be they active or inactive, yielded a clearly unimodal distribution with a maximum between 2300 and 2400 m for the inactive rock glaciers and between 2600 and 2700 m in the case of the active rock glaciers, with a difference of 233 m. The distribution is clearly conditioned by rock type, as a good 96% of these forms are fed by metamorphic rocks, which, in any case, are clearly the most frequent rock types in this area.

Among the rock glaciers showing relationships with glaciers (23% of the total), a good 85% present one or more semi-permanent snow banks above the rock glaciers themselves.

## PENNINE ALPS



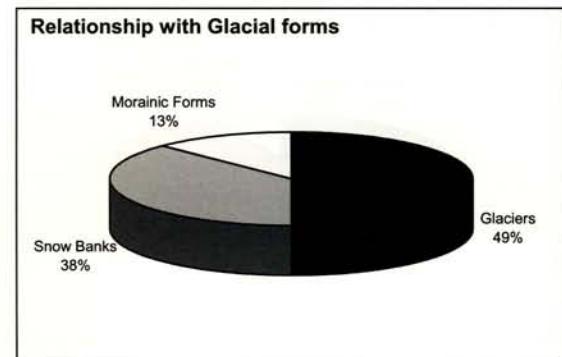
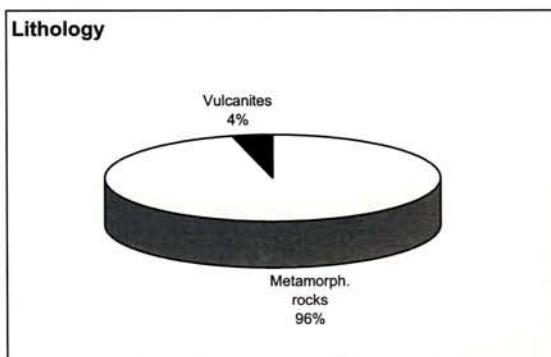
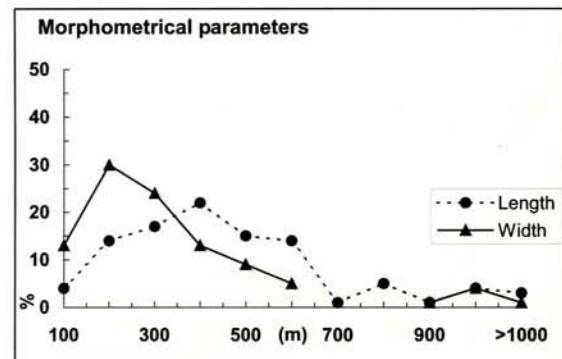
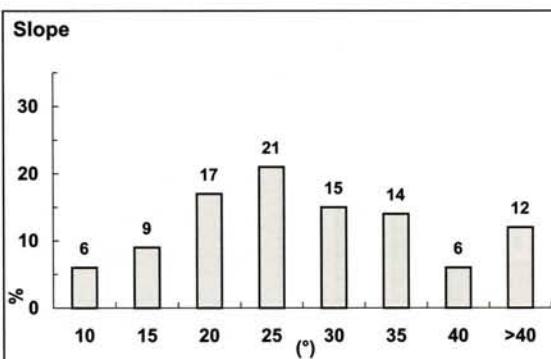
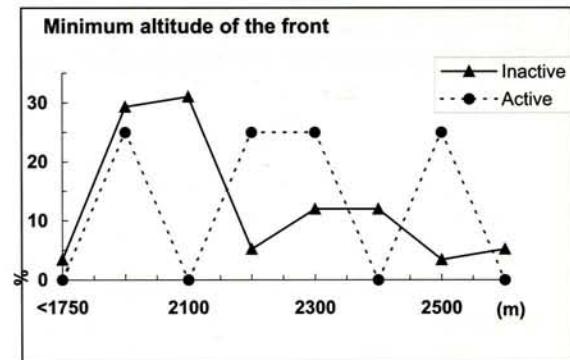
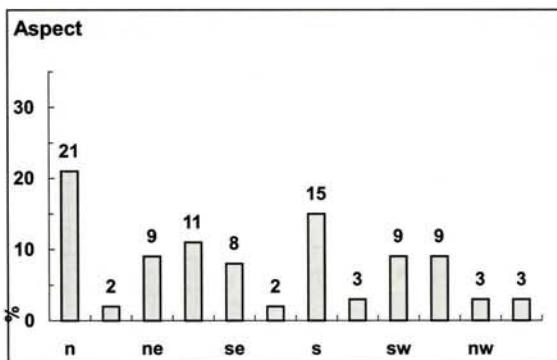
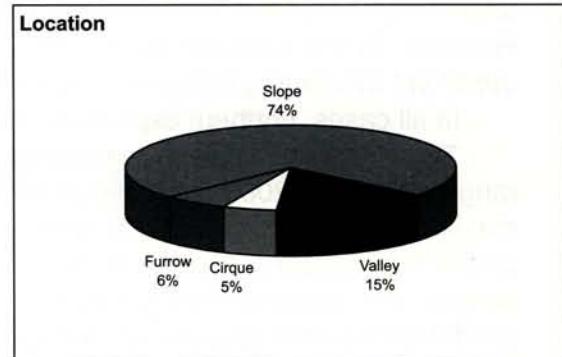
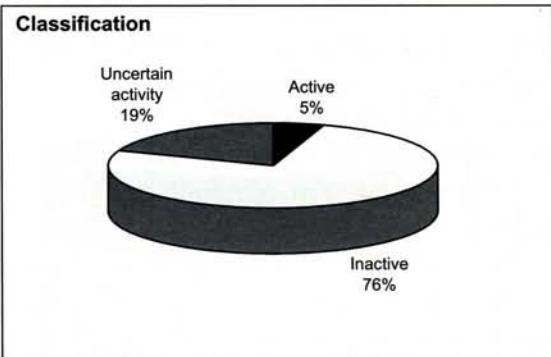
## **LEPONTINE ALPS (FROM THE PASSO DEL SEMPIO TO PASSO DELLO SPLUGA)**

The largest concentration of rock glaciers in the Lepontine Alps (which reach a total of 73) is found in Val Formazza, followed by a smaller concentration in Val Devero. However, in the Lombard sector, there is a relatively substantial concentration in the upper Val Chiavenna between Cima di Barma (2862 m) and Pizzo Ferrè (3103 m).

In all cases, northern exposures prevail (21%) for these rock glaciers.

The inactive rock glaciers revealed a bimodal distribution for altitude, with maxima ranging between 2000 and 2100 m and between 2300 and 2400 m, although the latter maximum is less substantial in terms of the percentage. The results yielded by the 4 active rock glaciers proved to be of little significance due to the limited statistical sample and because their distribution is quite heterogeneous. In this sector as well, almost all the rock glaciers are fed by metamorphic rocks. Relationships with glaciers revealed the highest percentage for locations near glaciers (49%), but this percentage should be considered as being of limited significance because the rock glaciers revealing relationships with glaciers constitute only 11% of the total.

## LEPONTINE ALPS



## RHAETIAN ALPS (FROM THE PASSO DELLO SPLUGA TO THE PASSO DI RESIA)

The Rhaetian Alps represent a vast and complex system and this clearly has its influence on the distribution and number of rock glaciers (a total of 581). The following are the areas with the greatest density of rock glaciers from the west eastward, in the Adda river basin; the Mt. Mater group (upper Val Chiavenna), Cima di Desenigo (lower Valtellina), the Corni Bruciati group (between Val di Mello and Val Malenco), Val Fontana and Val di Ron (right tributaries between Sondrio and Tirano), Val Grosina (right tributary in the upper Sector of the Adda river), and the M. Confinale and M. Gavia-Pizzo dei Tre Signori groups in Valfurva. The Livignese group and the M. Foscagno group also show high densities. In the Orobie Alps, especially on the northern flank, there are areas with high densities of rock glaciers, particularly in the upper Val Tartano and in Val Madre. The Oglio basin, the upper Valle di Corteno and the Adamello group present the highest concentrations of rock glaciers. In the Adige basin, only the upper Val di Pejo has numerous rock glaciers.

The largest number of rock glaciers in the entire Italian Alpine arc are concentrated in the Rhaetian Alps (581), although the density of  $0.073 \text{ rg}/\text{km}^2$  is not the highest density resulting for the Italian Alpine sector. Over half of these rock glaciers appear to be inactive and about 20%, active. Tongue-shaped rock glaciers clearly predominate (86%) and they are generally located in cirques (48%) and to a lesser degree, on slopes (36%).

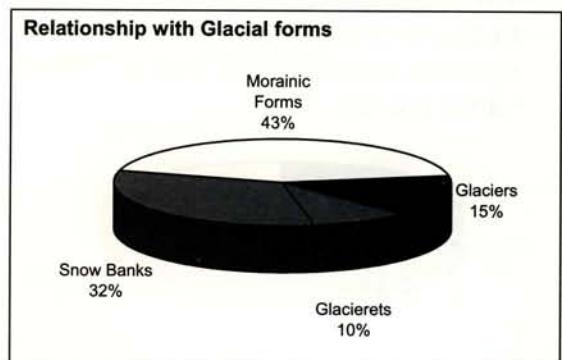
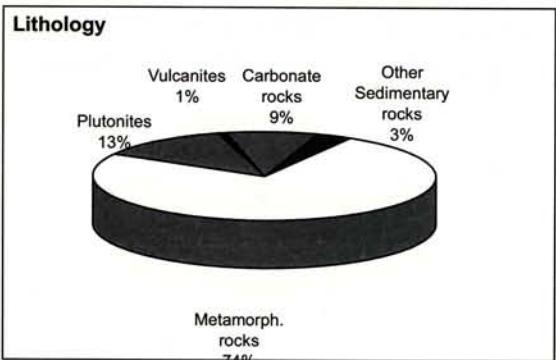
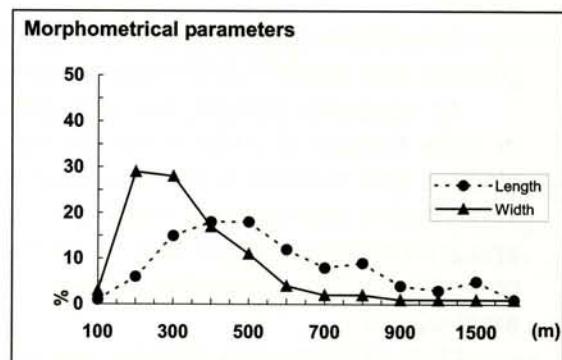
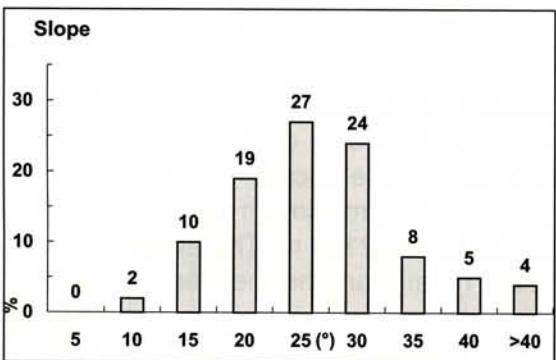
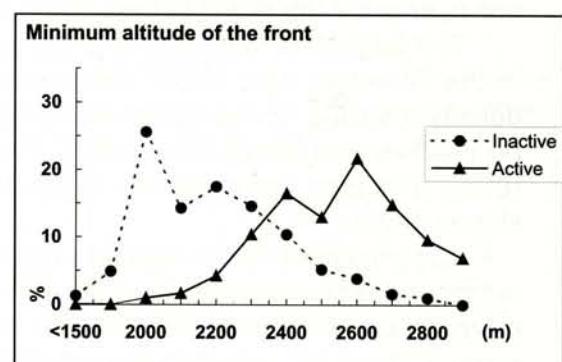
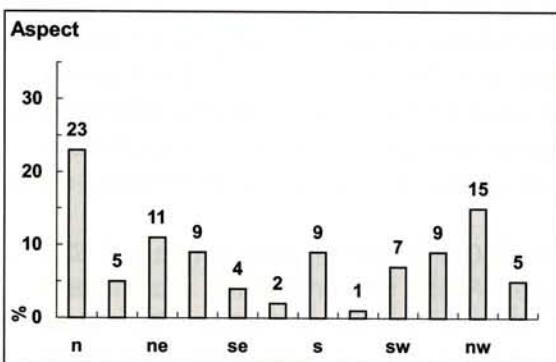
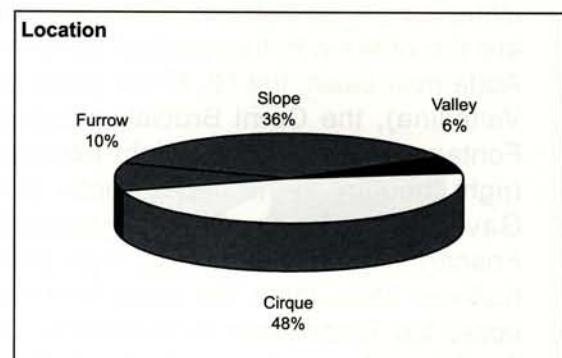
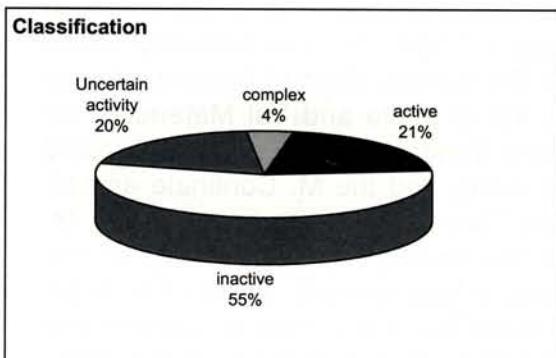
The prevalent length interval ranges between 200 and 600 m, with a mean of 535 m, the highest mean resulting for the entire Italian Alpine sector. Widths are instead more concentrated between 100 and 500 m (85%), with a mean of 332 m. The mean slope is about  $24^\circ$ , whereas the overall area is equal to 11000 ha, with a mean of about 19 ha.

A northern exposure is the most frequent (24%). There are also numerous rock glaciers with western and eastern exposures.

As concerns altitude, the rock glaciers in this area range between 1000 and 3000 m, with a mean of 2128 m for the minimum altitude of the fronts of the inactive rock glaciers and of 2510 m for the active rock glaciers, with a difference of almost 400 m. The inactive rock glaciers have a bimodal distribution with a maximum between 1750 and 2000 m and another minor maximum between 2000 and 2100 m. The active forms presented two maxima, one between 2300 and 2400 m, and another between 2500 m and 2600 m.

Most of these rock glaciers are located on metamorphic rocks (74%) and only 9% are found on carbonate rocks. Relationships with glaciers are generally not very frequent (28% of the total). The rock glaciers included in this latter group share a common characteristic, that is, relationships with moraines and semi-permanent snow banks prevail.

## RHAETIAN ALPS



## ATESINE ALPS (FROM THE PASSO DI RESIA TO THE PASSO DI MONTE CROCE DI COMELICO)

The distribution of rock glaciers appears to be particularly concentrated on the left slope of Val Venosta, around the Sasso Tondo massif between the Valle dei Molini and Valle Aurina, and along the M. Gruppo chain (2808 m) separating Val Pusteria from the Valle dei Molini. Local concentrations are found around Punta di Quaira (2517 m) near Bressanone, in the upper Racines valley and on the Cima Bianca group (3280 m). More specifically, in Val Venosta the highest concentrations are found in Valle Lunga, in the upper Val di Mazia and in the M. Cermigna group (3108 m) separating Val Senales from Venosta. There is also a high density of the rock glaciers in the Vedrette di Ries group.

In the Adige Alps, 366 rock glaciers were identified. This number makes up over 20% of the total and above all, it should be noted that the area yielded the highest density resulting for the entire Italian Alpine arc ( $0.1154 \text{ rg}/\text{km}^2$ ). However, over two-thirds of these rock glaciers were classified as inactive and only 14% of the total proved to be active.

As concerns the morphology of the rock glaciers in this area, almost all of them are of the tongue-shaped type (86%) and more than half are located in glacier cirques, whereas about one-third are located on slopes.

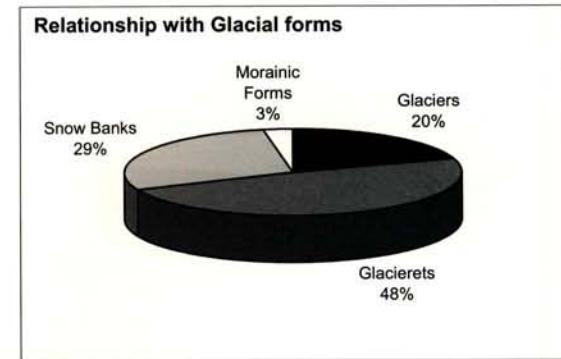
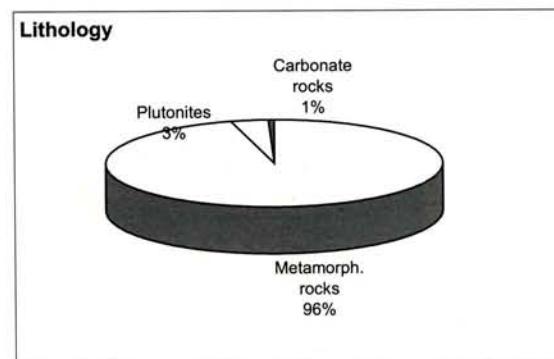
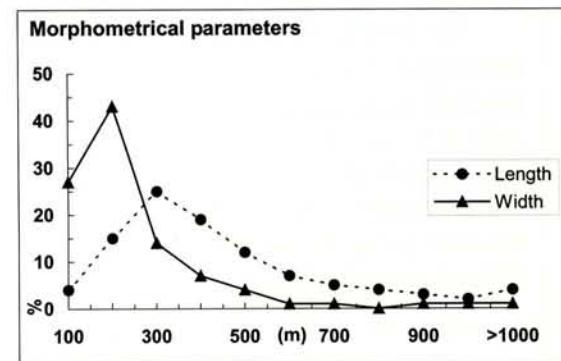
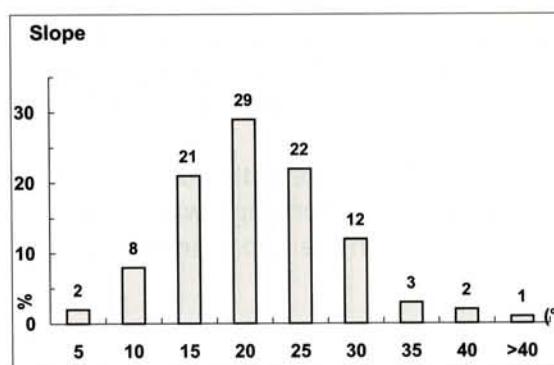
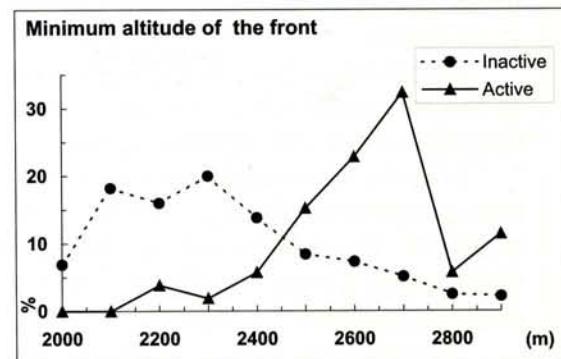
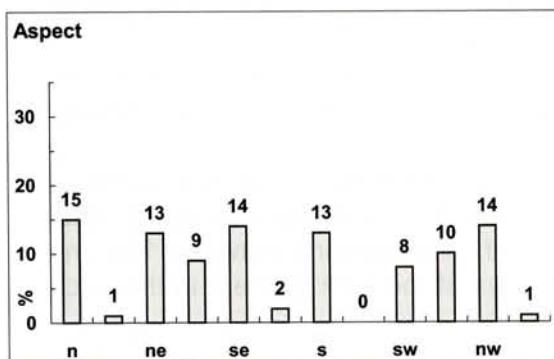
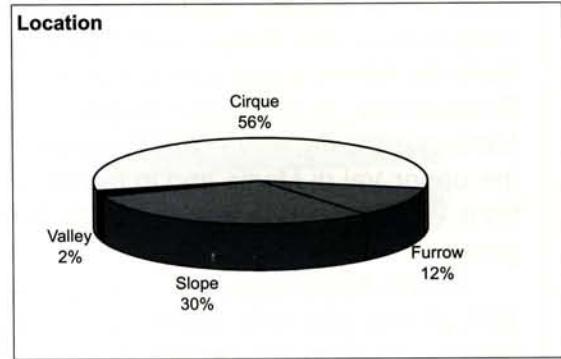
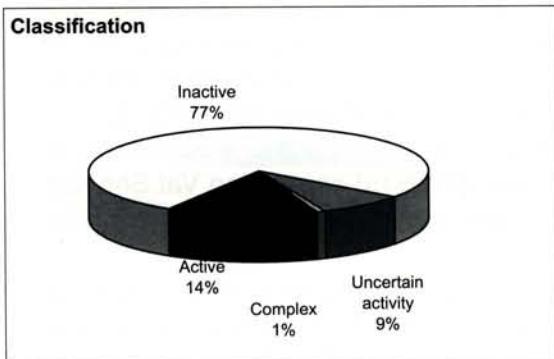
In terms of morphometric features, the Atesine rock glaciers are characterized by a high percentage of forms with widths between 200 and 300 m (43%). The mean width is 207 m. There is a marked concentration (71%) of lengths falling between 100 and 500 m, with a mean of 439 m. The total surface area of the rock glaciers in this area exceeds 3500 ha.

Distribution by exposition proved to be rather homogeneous, with a slight prevalence of eastern exposures compared to western exposures (36% versus 32%).

As concerns altitude, the active rock glaciers showed a clear-cut unimodal distribution with a maximum between 2600 and 2700 m and a mean of 2594 m. The inactive rock glaciers appear to be concentrated prevalently between 2000 and 2300 ,with a mean of 2281 m.

Almost all of the existing rock glaciers are located in areas with outcropping metamorphic rocks. Among those rock glaciers presenting relationships with glacier masses (only 9% of the total), almost half present a glacieret in the upper sectors and 20%, a glacier.

## ATESINE ALPS



**DOLOMITE ALPS**  
**(FROM THE PASSO DI MONTE CROCE DI COMELICO**  
**TO THE PASSO DI MONTE CROCE CARNICO)**

In the Dolomite Alps, which extend in a southwestern direction between Adige and Piave, the areas in the upper Val Cadino in the Lagorai chain, and the Cima d'Asta group, have a high concentration of rock glaciers. In fact, overall, about one-half of the rock glaciers are located in this area. Another particularly interesting area is the Sasso Lungo group due to the relatively high density of rock glaciers.

In the Dolomite Alps, 105 rock glaciers were identified, with a density of 0.023 rg/km<sup>2</sup>. There are only three active rock glaciers, and over 70% are held to be inactive. These rock glaciers are located prevalently on slopes (46%), although a fair number are located in cirques (27%). Seventy per cent of the rock glaciers show a ratio of length to width greater than 1 and can thus be classified as tongue-shaped rock glaciers. Widths are concentrated between 50 and 400 m (76%), with a clear prevalence of widths between 100 and 200 m.. The mean width is 247 m. The mean length is 370 m, with a prevalent distribution ranging from 100 to 600 m. Slopes are generally within a range of 10° to 35°, with a minimum of 5° and a mean of 23°, approximately.

The total surface area covered by rock glaciers in the Dolomites is about 1000 ha and 78% range between 1 and 15 ha.

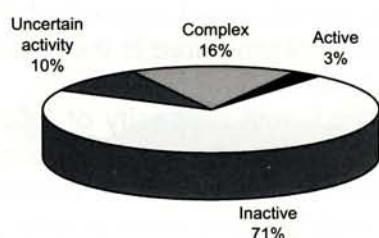
Exposure revealed three frequency maxima resulting for the northern, northeastern and northwestern sectors .The percentage of rock glaciers with southern exposures is also significant (14%).

The altitudes of the inactive rock glaciers are distributed between 1800 and 2300 m, with a mean of 2106 m.

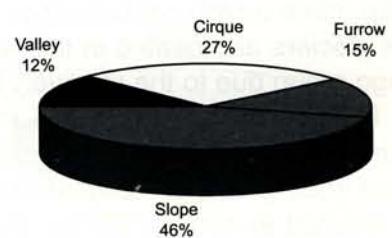
As concerns rock types, about one-half of the rock glaciers are fed by carbonate rocks and almost one-third, by volcanites. Relationships with glaciers, when found (34% of the cases), almost always concern moraines and only to a lesser extent, semi-permanent snow banks.

## DOLOMITE ALPS

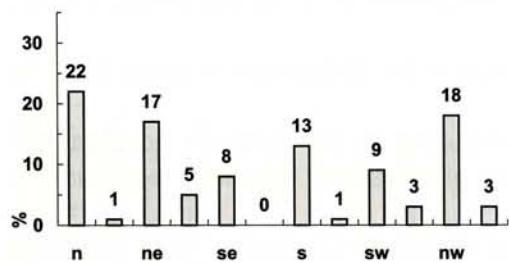
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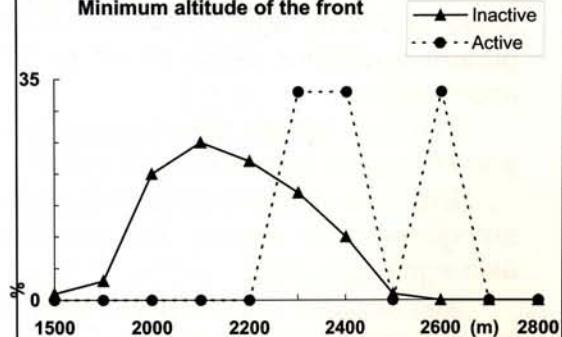
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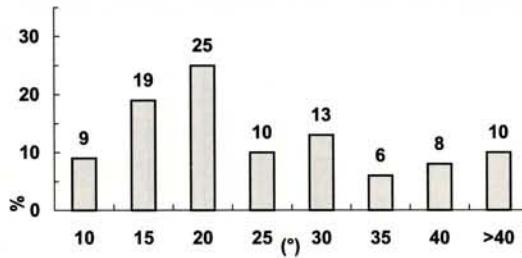
**Aspect**



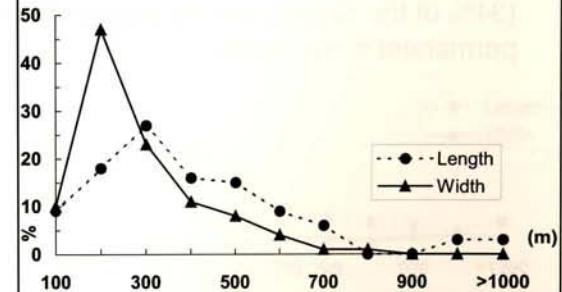
**Minimum altitude of the front**



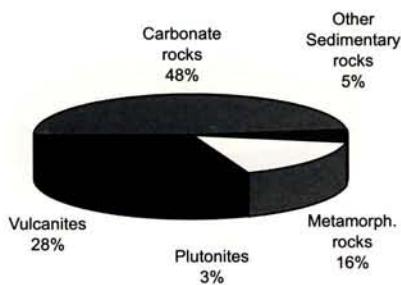
**Slope**



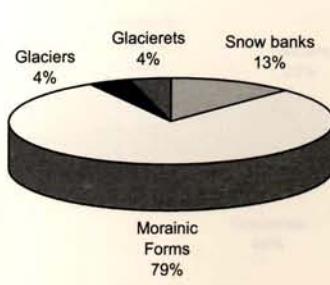
**Morphometrical parameters**



**Lithology**



**Relationship with Glacial forms**



**CARNIC ALPS**  
**(FROM THE PASSO DI MONTE CROCE CARNICO TO SELLA DI CAMPOROSSO)**

Only 20 rock glaciers were identified in the Carnic Alps, almost all of which classified as inactive. The resulting density was  $0.015 \text{ rg}/\text{km}^2$ , absolutely the lowest density in the entire Italian Alpine arc. The rock glaciers identified are mainly concentrated in cirques (65%), although about one-third are located on slopes. The prevalent morphology (80%) is tongue-shaped. Widths range prevalently from 100 to 500 m, with a mean of 286 m, whereas the lengths showed a more heterogeneous distribution, with lengths prevalently ranging between 200 and 600 m (65%) and a mean of 454 m. Slope proved to be an interesting parameter in the Carnic sector, in that more than half of the rock glaciers there present a slope of less than  $5^\circ$  and a mean slope of  $11^\circ$ , clearly the lowest value resulting for the Italian Alpine arc.

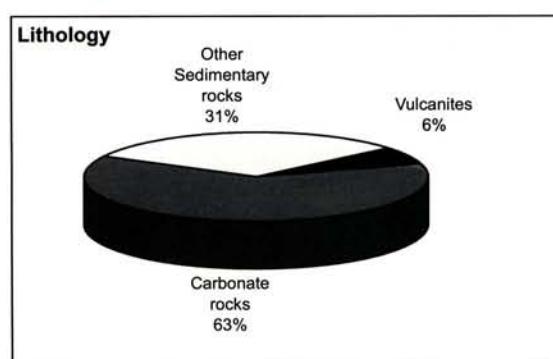
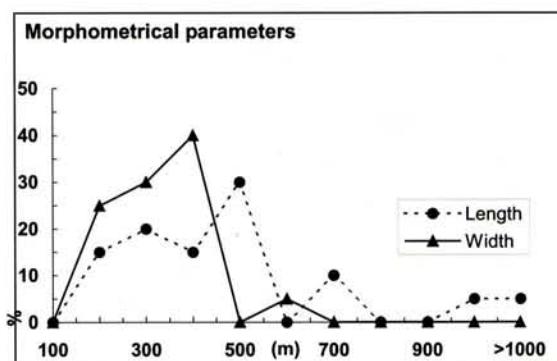
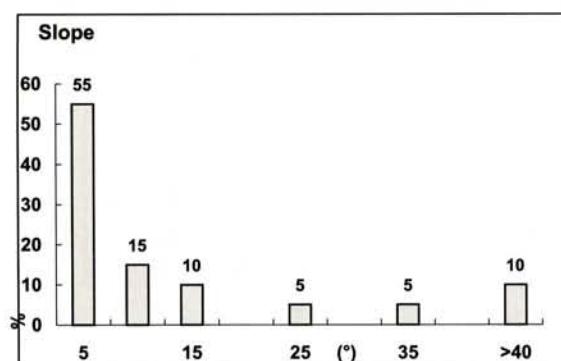
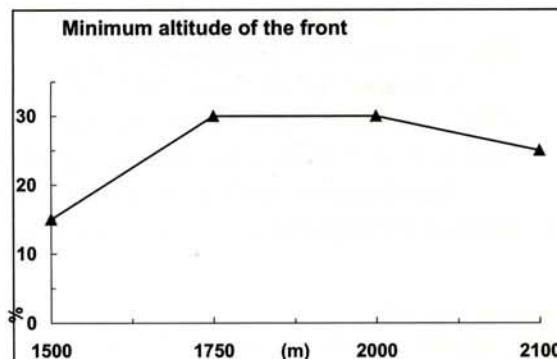
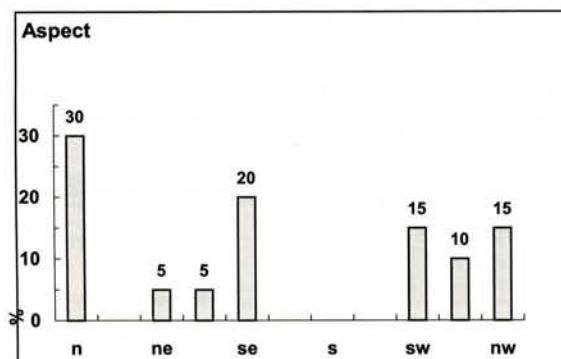
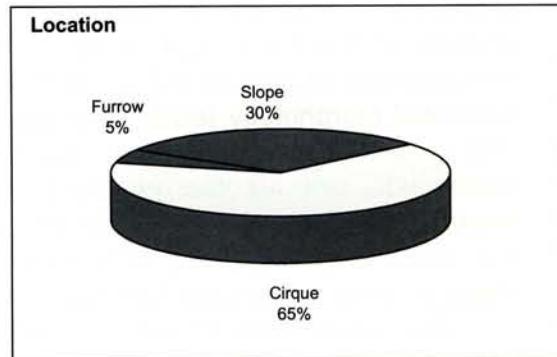
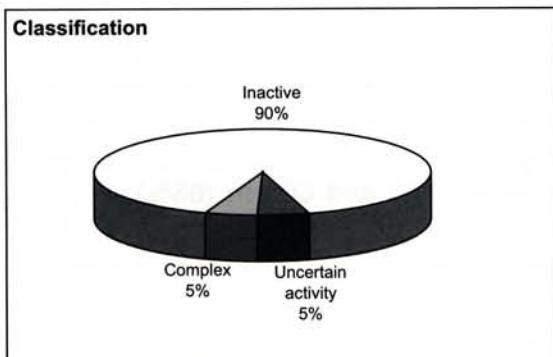
The surface area covered by these 20 rock glaciers is equal to about 270 ha, with a mean of 13.5 ha.

The two exposures most frequently observed for the rock glaciers in the Carnic Alps are northern and southeastern.

Considering altitudes, the rock glaciers in the Carnic Alps are prevalently within the 1750 - 2100 m altitude range, with a mean altitude of 1744 m for the inactive forms. This is clearly the lowest altitude reached by rock glaciers, in the Italian Alps.

Two-thirds of the existing rock glaciers are located on carbonate bedrock, which outcrop throughout almost the entire area of the Carnic Alps.

## CARNIC ALPS



## THE ROCK GLACIERS IN THE ITALIAN ALPS: COMPREHENSIVE ANALYSIS

In the Italian Alps, a total of 1594 rock glaciers were identified, almost 60% of which proving to be inactive from the point of view of morphodynamics, and only 19%, active. Density is equal to 0.059 rg/km<sup>2</sup>. The total area covered extends over 22000 ha and considering the mean permafrost thickness of 12 m (Guglielmin, 1997), the volume of the permafrost existing in the active rock glaciers in the Italian Alps, can be estimated at about one billion cubic meters.

As concerns the morphological locations, the number of rock glaciers located in cirques and on slopes is almost equal. Yet the distribution in the various Alpine sectors varies considerably. In fact, rock glaciers located on slopes clearly prevail in the Graian, Pennine and Lepontine Alps, whereas cirque locations predominate in the Maritime, Cottian, Rhaetian, Atesine and Carnic Alps.

More than two-thirds of the rocks glaciers yield a length to width ratio greater than 1 and they are definable as tongue-shaped. An almost equal ratio was found only for the Pennine Alps, and therefore lobate rock glaciers are almost equally distributed.

As regards the morphometric features of the entire sample, one may note that more than two-thirds of the rock glaciers have lengths within the range of 100 to 600 m, with a mean of 448 m, whereas a good 85% of the rock glaciers have widths within a range of 50 to 500 m, with a mean of 281 m.

The prevalent slope range is from 10° to 35°, with a mean that slightly exceeds 22°.

The rock glaciers show prevalently northern exposures (21%), followed by NW exposures (14%). If only active rock glaciers are considered, the percentage of northern exposures (NNW to NNE) increases, reaching 34% (of which 26%, N) and the percentage of southern exposures (SSW to SSE) drop by one half.

In the analysis of the inactive rock glaciers, one can note that northern exposures are the most frequent, whereas the rock glaciers with southern exposures (22%) increase considerably.

As concerns altitude, Table 1 summarizes the mean minimum altitudes reached by the inactive and active rock glacier fronts in the various sectors. As may be noted, the active and inactive rock glacier altitudes reveal marked differences. In fact, the highest mean for the active rock glaciers is that resulting for the Graian Alps, where the difference between active and inactive rock glaciers proved to be the greatest, whereas the highest altitude for the inactive rock glaciers, proved to be that resulting for the Pennine Alps.

The difference between the mean minimum altitudes for the active and inactive rock glaciers, reached a minimum point in the Maritime Alps (103 m), but this difference reaches a low level of statistical significance, as does that resulting for the Lepontine or Dolomite Alps where active glaciers are present in very low numbers. Therefore, the 233 m resulting for the Pennine Alps, where the sample considered was sufficiently large, may be considered as the minimum variation from the mean minimum altitude reached by active and inactive rock glaciers.

TABLE 1

<i>Area</i>	<i>Number (%)</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Maritime	66 (4.1)	2230	2127	419	1.8
Cottian	48 (3%)	2631	2285	1272	17872.8
Graian	126 (7.9%)	2679	2288	1585	619170
Pennine	199 (12.5%)	2573	2340	1535	78008.9
Lepontine	79 (5%)	2228	2107	1081	22320
Rhaetian	581 (36.4%)	2510	2128	11400	280990.5
Atesine	370 (23.2%)	2594	2281	3511	40511.7
Dolomites	105 (6.6%)	2366	2106	1003	5812.5
Carnic	20 (1.3%)	-	1744	271	-
<b>Total</b>	<b>1594</b>	<b>2564</b>	<b>2192</b>	<b>22077</b>	<b>1064695.2</b>

Table 1 - Summary of the characteristics of the rock glaciers in the Italian Alps.

Legend:

1: minimum mean altitudes of the active rock glacier fronts

2: minimum mean altitudes of the inactive rock glacier fronts

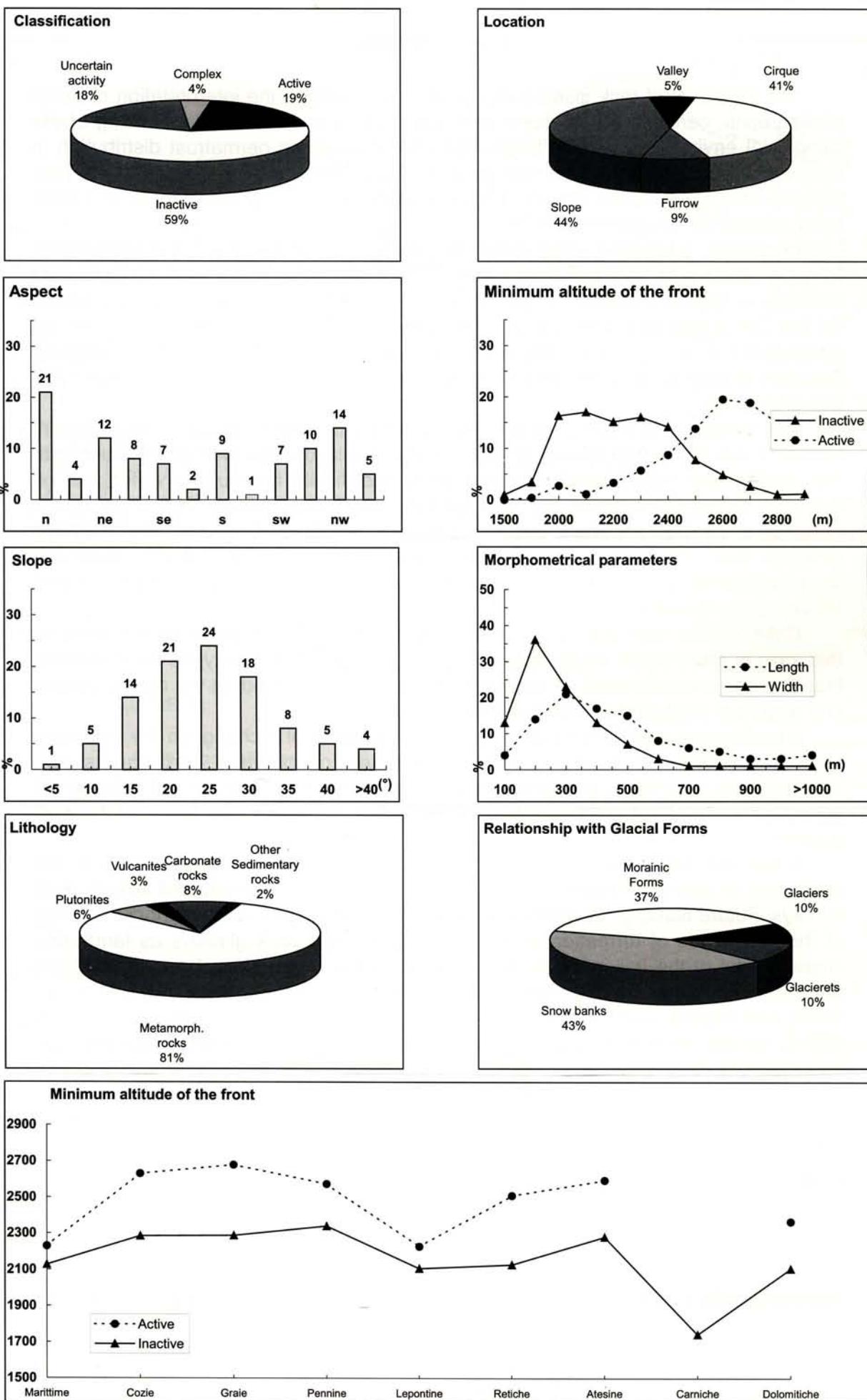
3: total surface area, expressed in ha

4: estimated permafrost volume, expressed in thousands of cubic meters

Over 80% of the rock glaciers are nourished by metamorphic rocks. This high percentage is certainly influenced by the prevalent rock types existing in the Italian Alps. However, as has been demonstrated in several Italian Alpine sectors (Guglielmin, 1997), the density of rock glaciers with respect to the outcropping areas of the metamorphic rocks is, at least double that resulting for carbonate rocks.

As regards relationships with glaciers, it should be emphasized that 73% of the total either did not reveal relationships of any sort with glaciers or that the data for this item was not recorded. In the remaining 27% of cases, a prevalence of semi-permanent snow banks and moraines is clearly evident, whereas only 10% of this percentage have a glacier or glacieret located above them (thus, less than 3% of the total).

# ITALIAN ALPS



## CONCLUSIONS

The inventory of rock glaciers compiled mainly through the interpretation of aerial photographs, certainly constitutes a first step towards a greater understanding of the periglacial environment of the Italian Alps and of mountain permafrost distribution in Italy, as revealed by the active rock glaciers. Yet, at the same time, some of the rock glaciers held to be active may no longer be in equilibrium with the climate and have relict permafrost (Guglielmin, 1997).

In general, a lowering of the minimum altitudes reached by the active rock glacier fronts is observable from the Cottian Alps to the Rhaetian Alps and then a subsequent increase in altitude eastward, to the extent that no active rock glaciers were reported for the Carnic Alps and in the Dolomite Alps, there are only three. This pattern may be correlated with annual precipitation, in that over 90% of the areas with the highest densities of rock glaciers, are located in areas with precipitation levels lower than 1200 mm annually.

The climate, and particularly the microclimates, therefore appear to be important factors in the distribution of rock glaciers, although relationships with glaciers and with rock types merit more indepth analyses. More specifically, it should be noted that on the scale of the entire Alpine arc, rock glaciers, with equal altitudes, reach the lowest densities in the most important glaciated areas such as Ortles-Cevedale, Monte Bianco or Monte Rosa. Therefore, the relationships existing between glacial development and the development of rock glaciers represent one of the most important research topics for further study in the future.

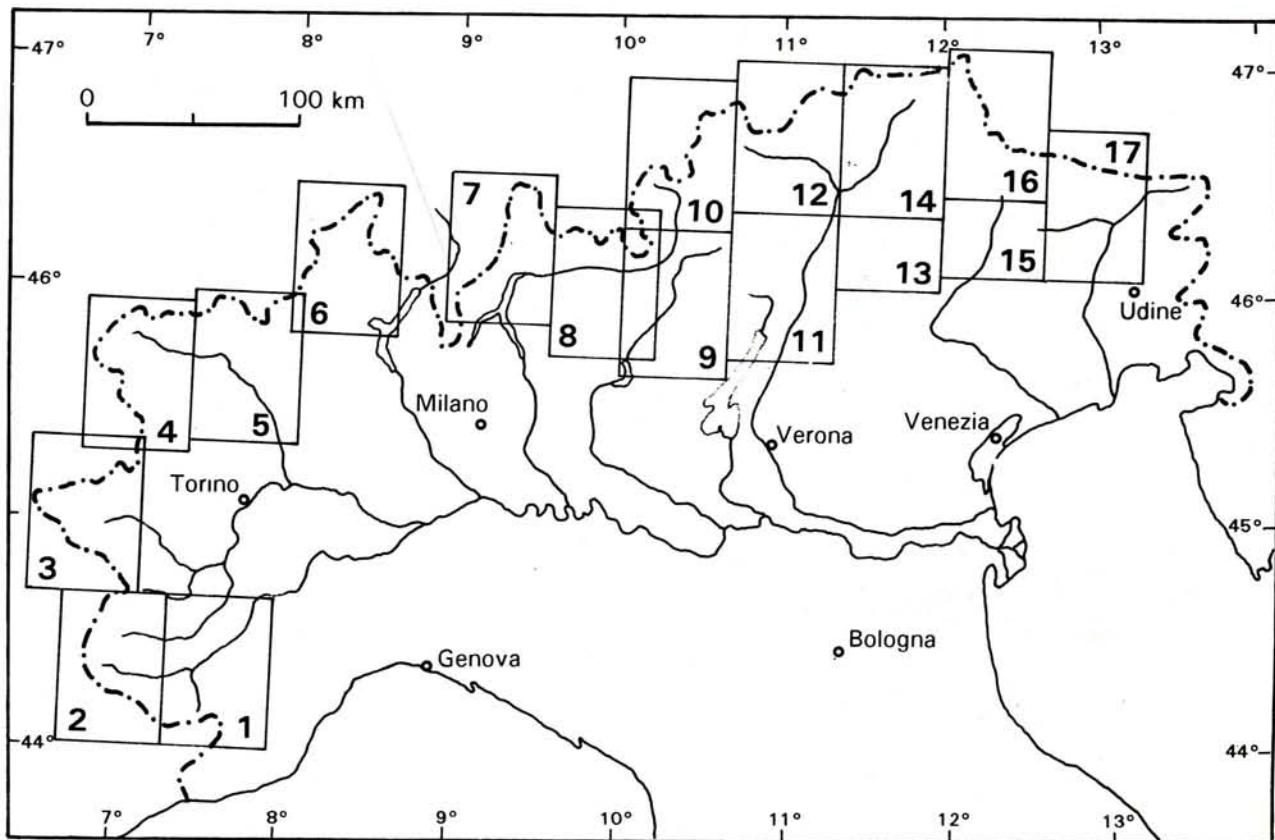
Relationships with rock types are equally important. A useful tool for the study of this topic in more detail, could consist in a subdivision of the rock types more detailed than the one currently used on the inventory data sheets, based on the quartz content and degree of fracturing and alteration of the rocks.

A preliminary detail that could be added in the event of a change in the inventory, might be a further subdivision of the rock types for example, "orthogneisses", "paragneisses", quartzites and other metamorphic rocks. This would afford detection of possible correlations with various thermal properties of the materials that feed the rock glaciers.

A second detail that could be included, concerns our understanding of the modalities of debris production in rock glacier formation and this requires specific field surveys. Future research developments must therefore focus on both an understanding of the processes of formation and development of the rock glaciers as landforms characteristic of the Italian Alpine landscape, and the preparation of a map of Alpine permafrost areas, to be compiled using remote sensing techniques (Antonietti *et al.*, 1994) and ground surveys using BTS investigation techniques (Guglielmin & Tellini, 1994), studies on the vegetation (Cannone & Pirola, forthcoming) or geophysical investigations (Guglielmin *et al.*, 1994).

**Acknowledgment:** Authors gratefully acknowledge Vincenzo Milillo for its assistance during the work editing.

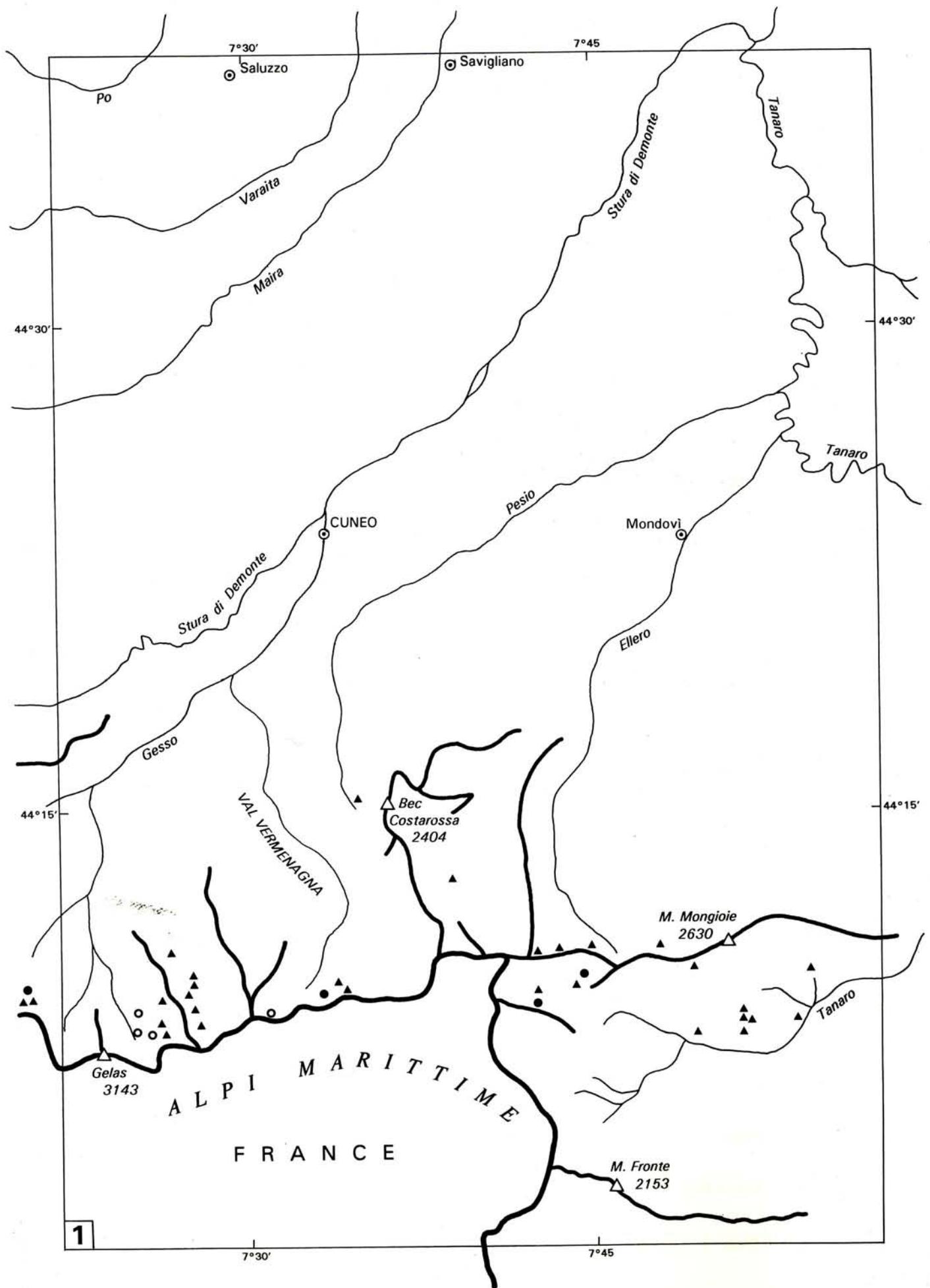
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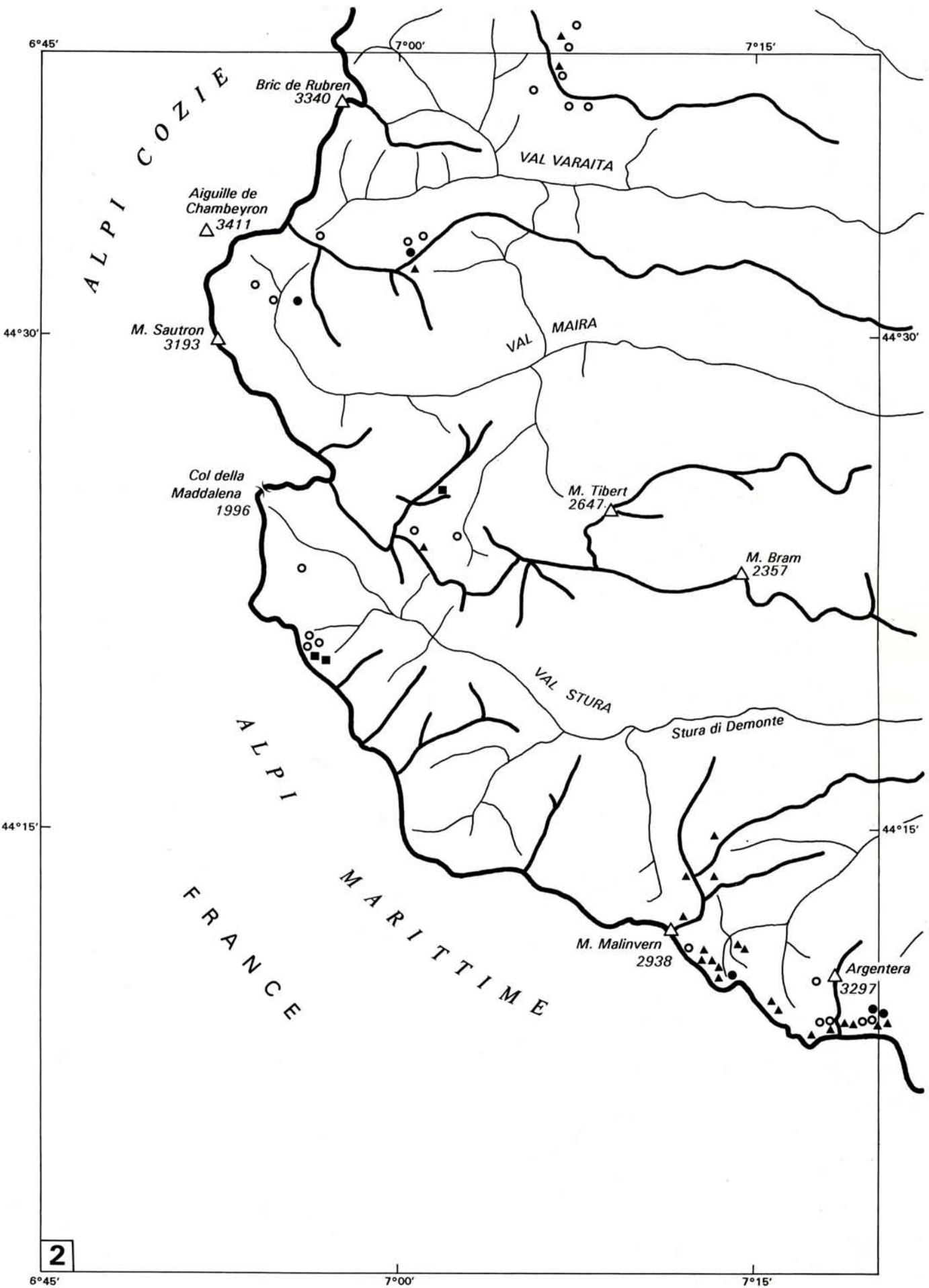


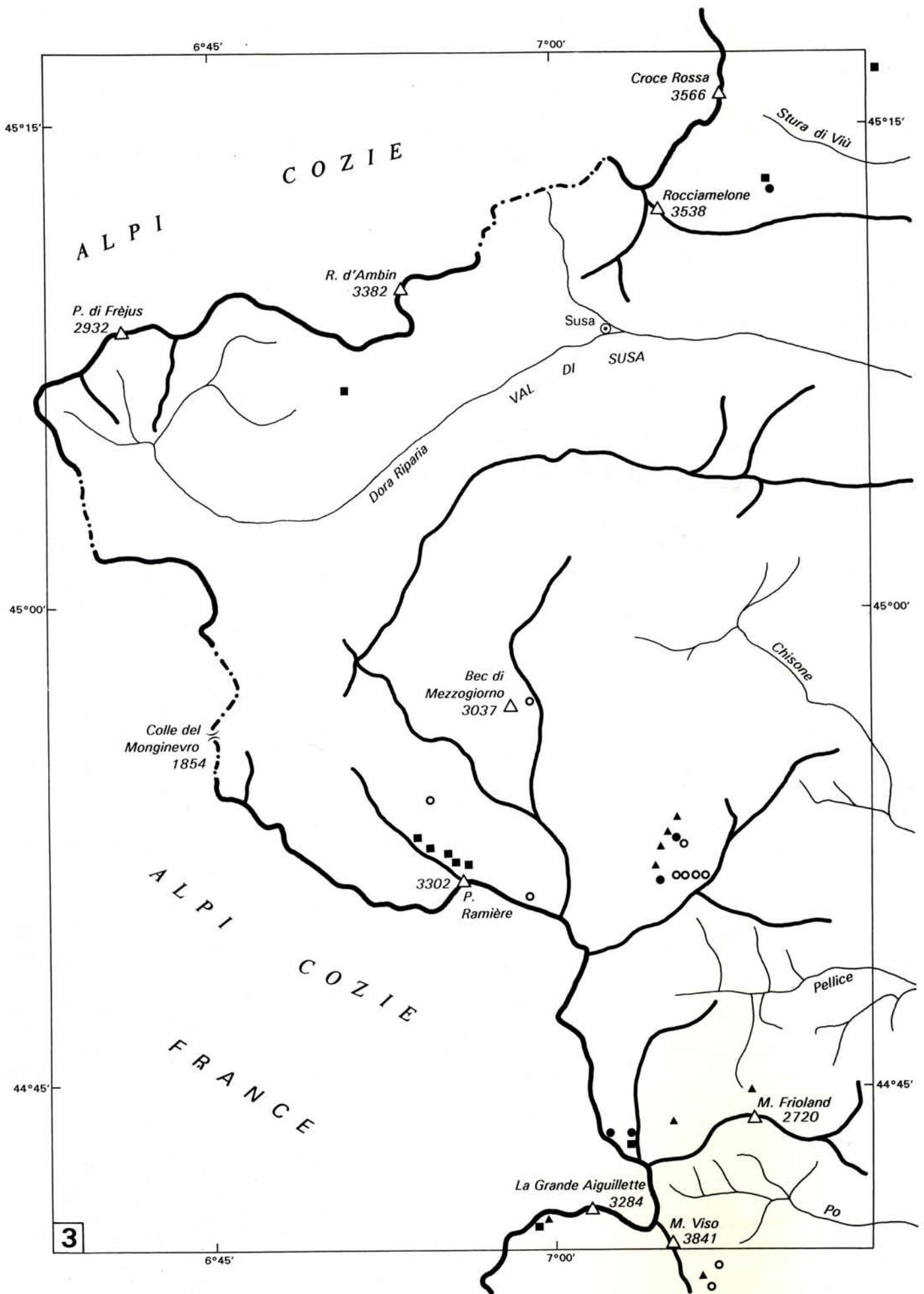
### LEGEND

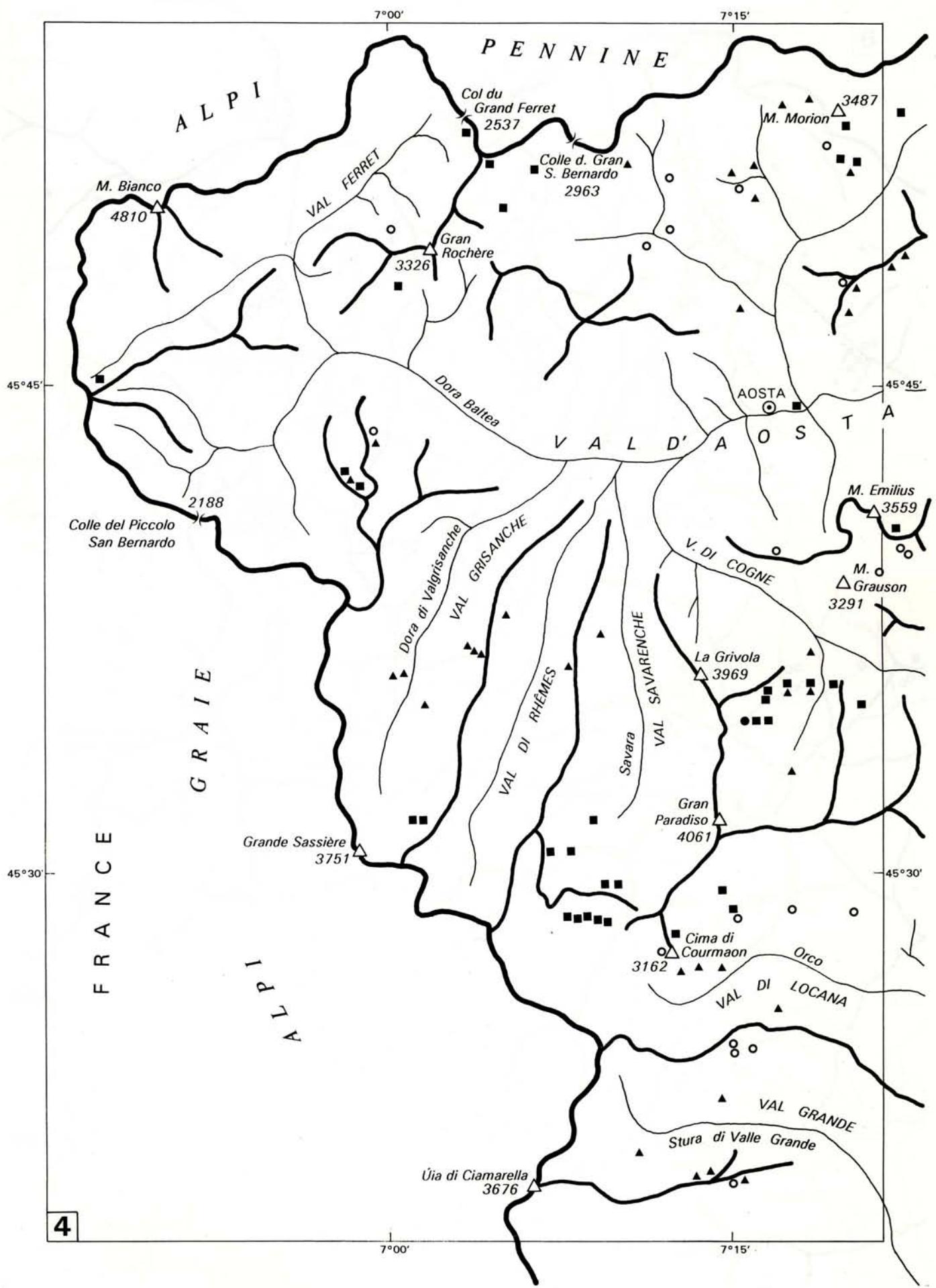
- Active rock glacier
- ▲ Inactive rock glacier
- Complex rock glacier
- Uncertain activity rock glacier
- Main watershed
- Watershed
- River
- △ Mountain
- )( Pass
- - - Boundary

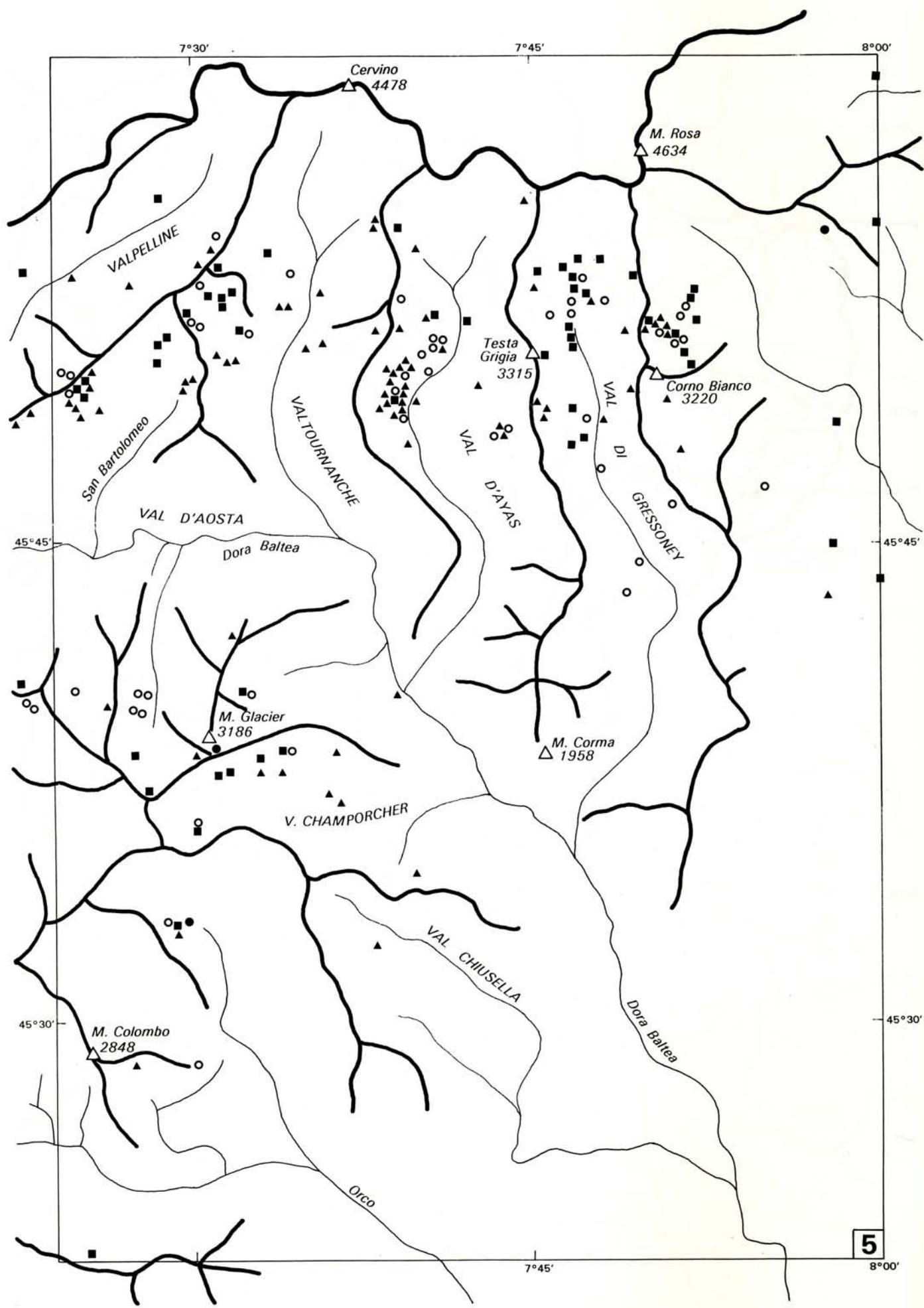
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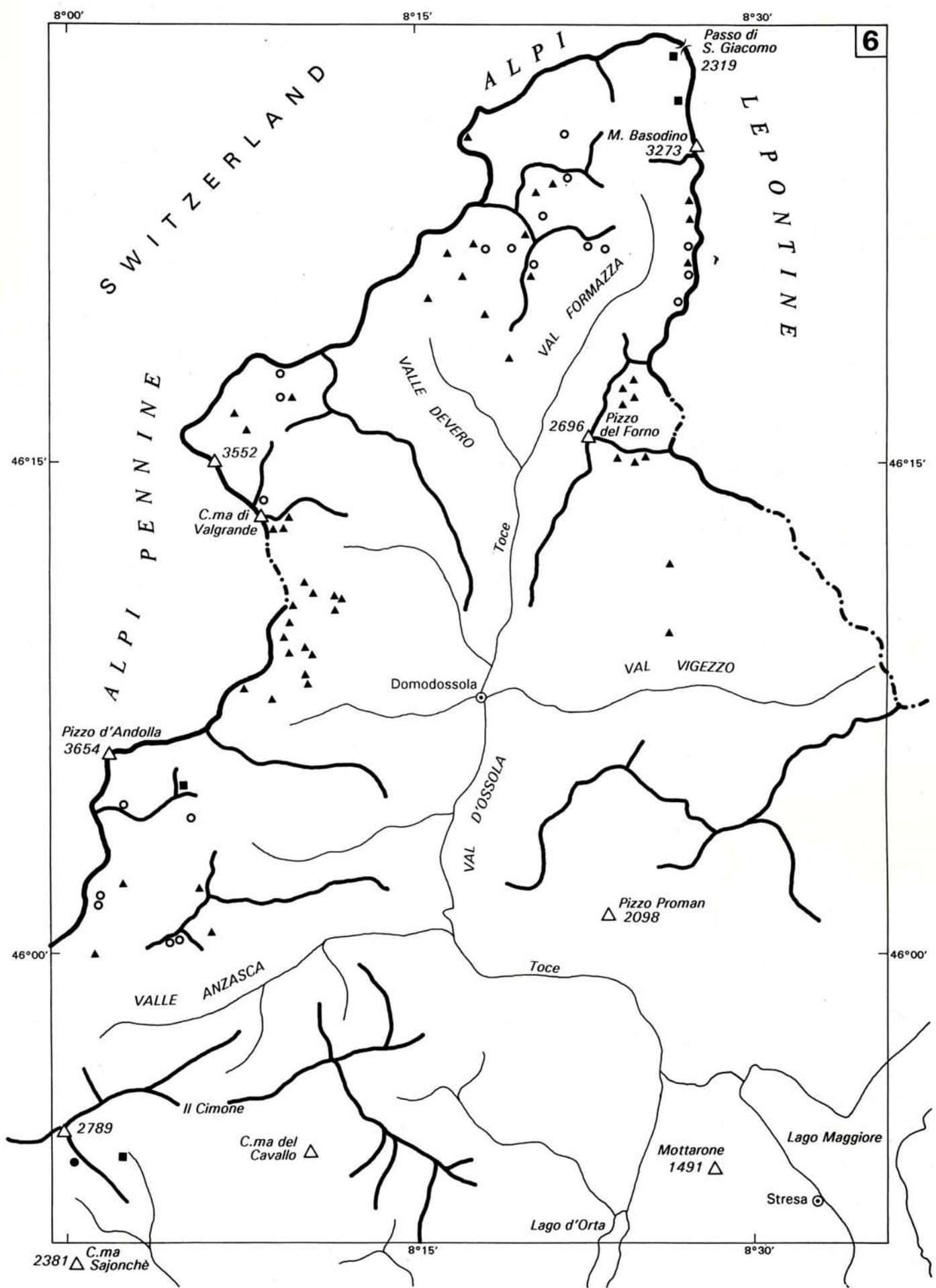


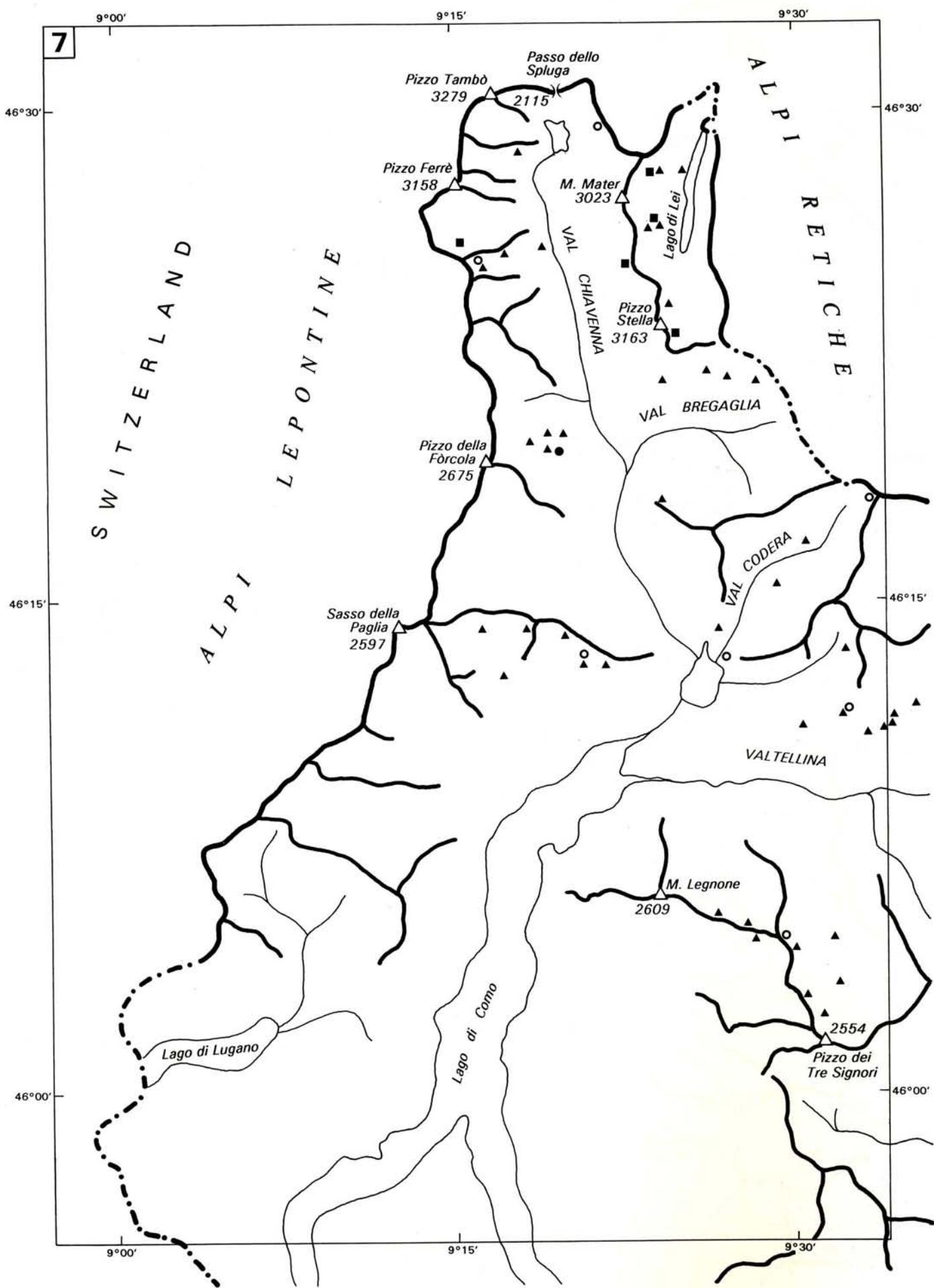








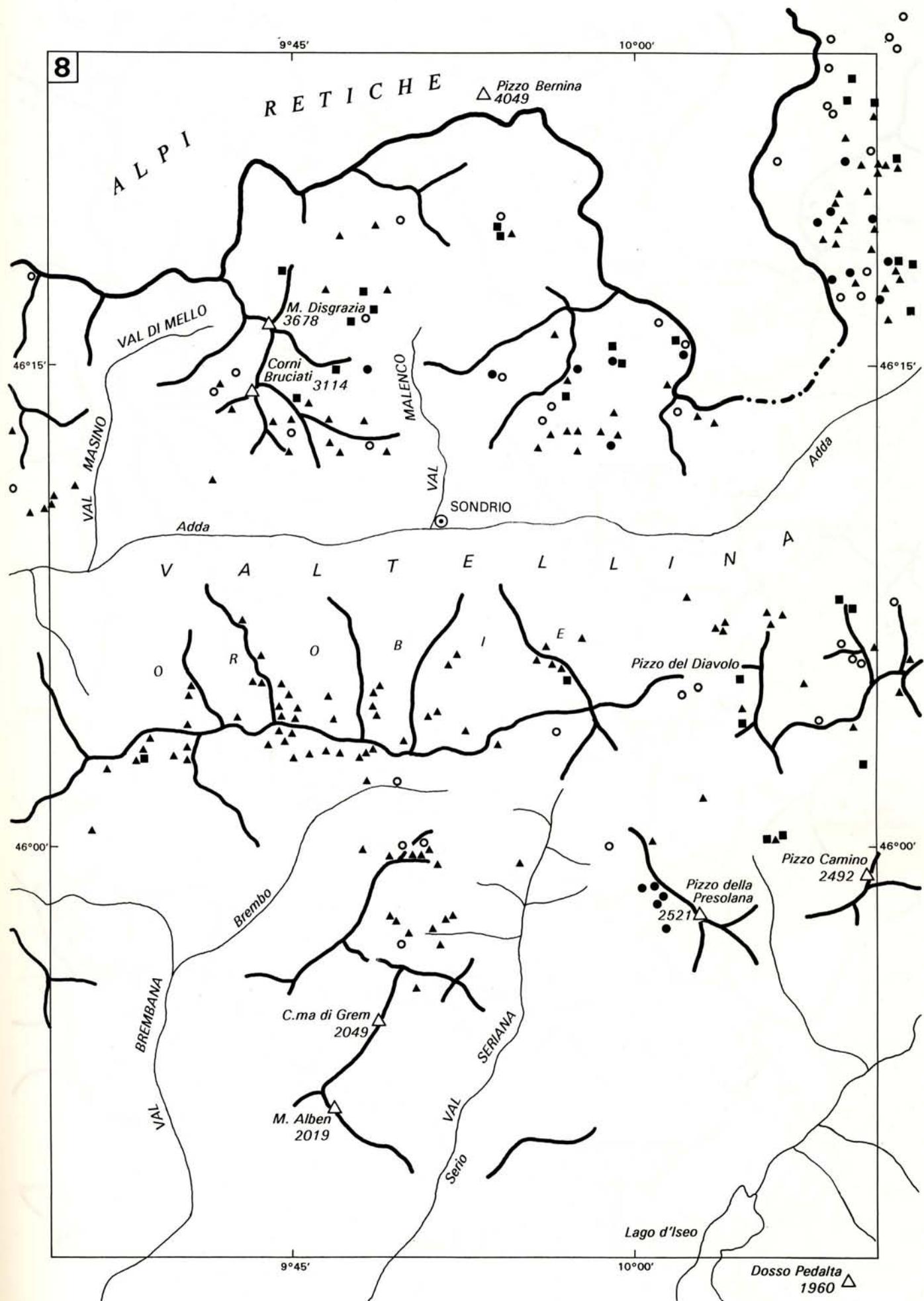


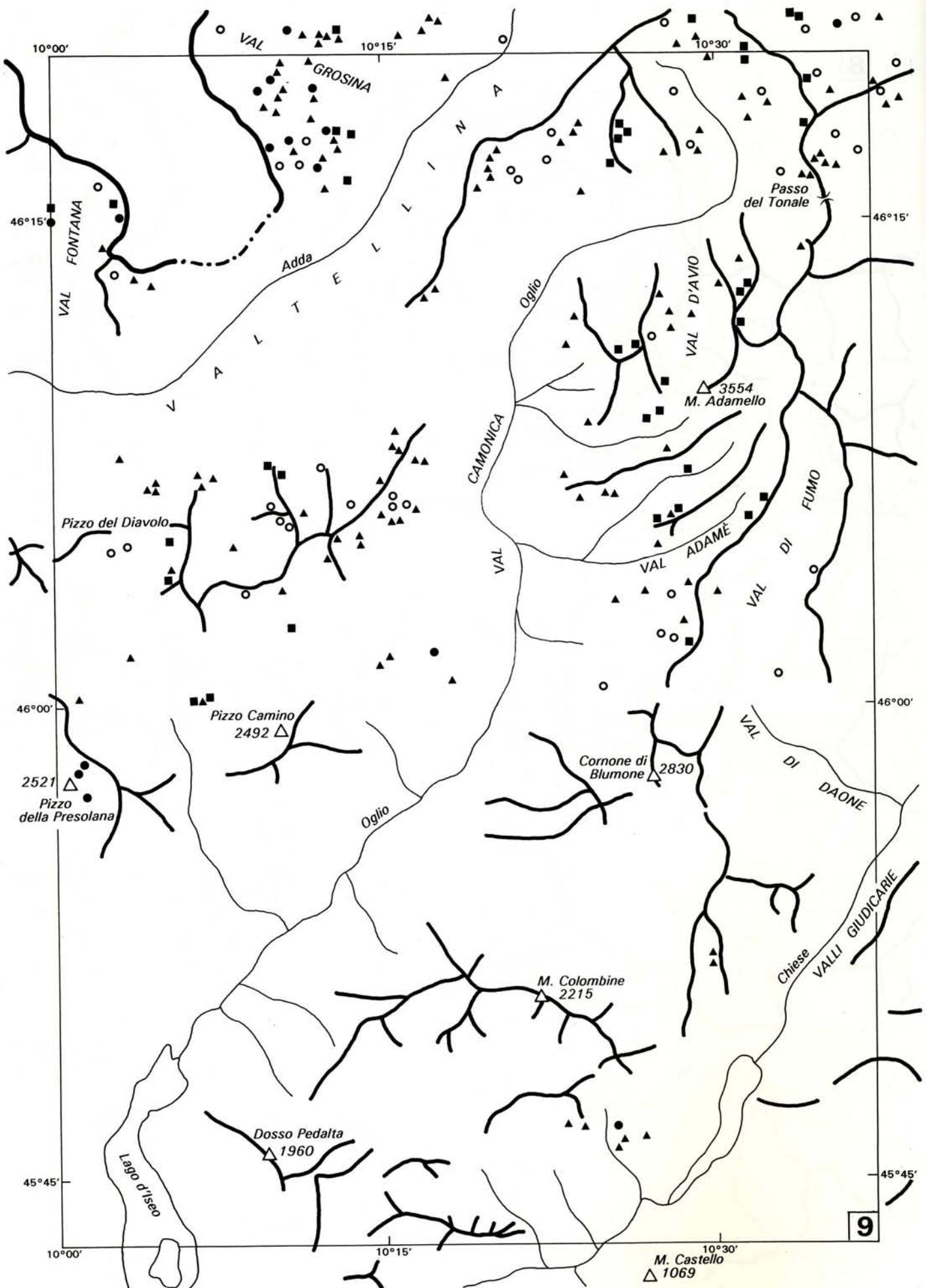


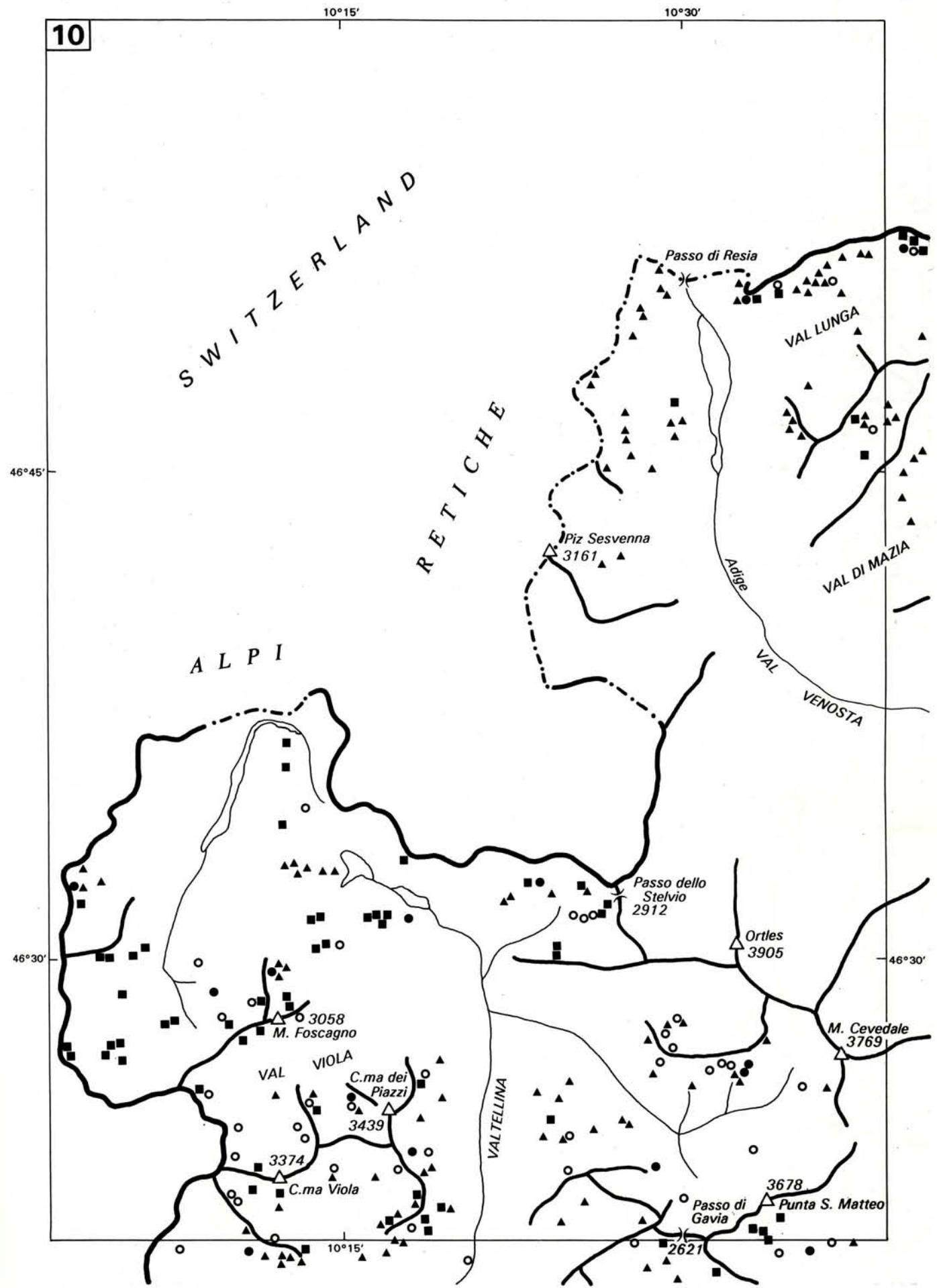
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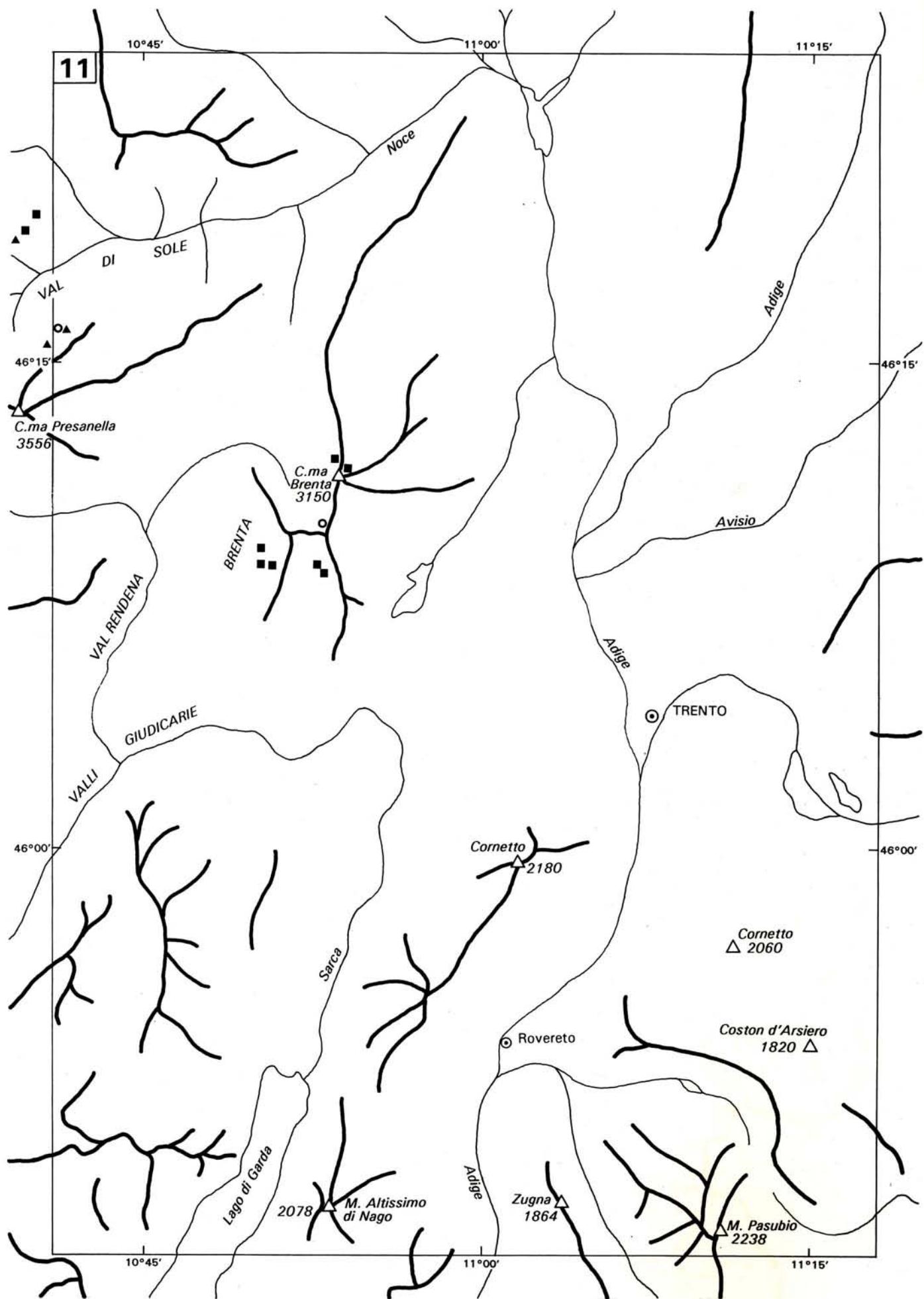
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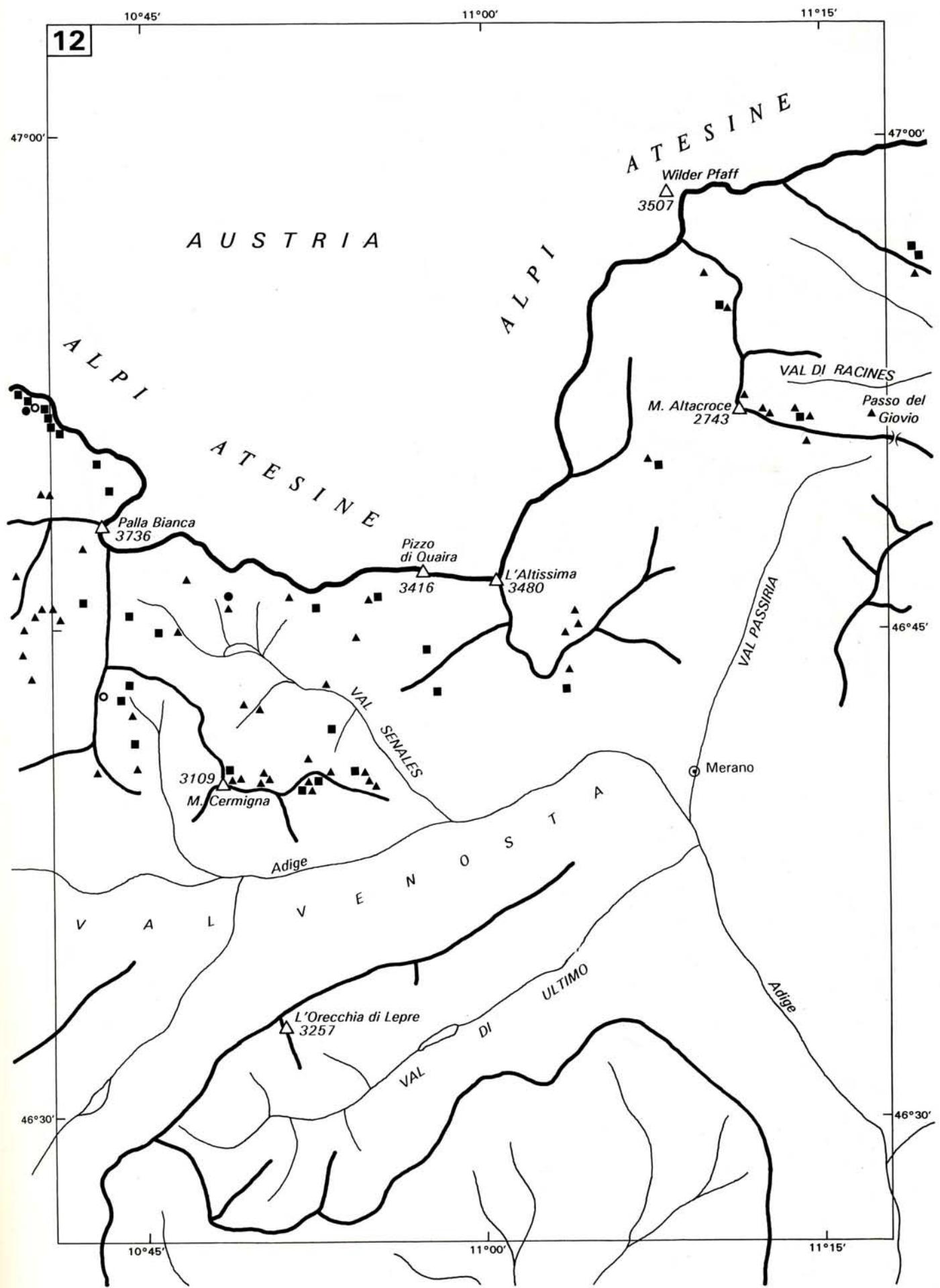
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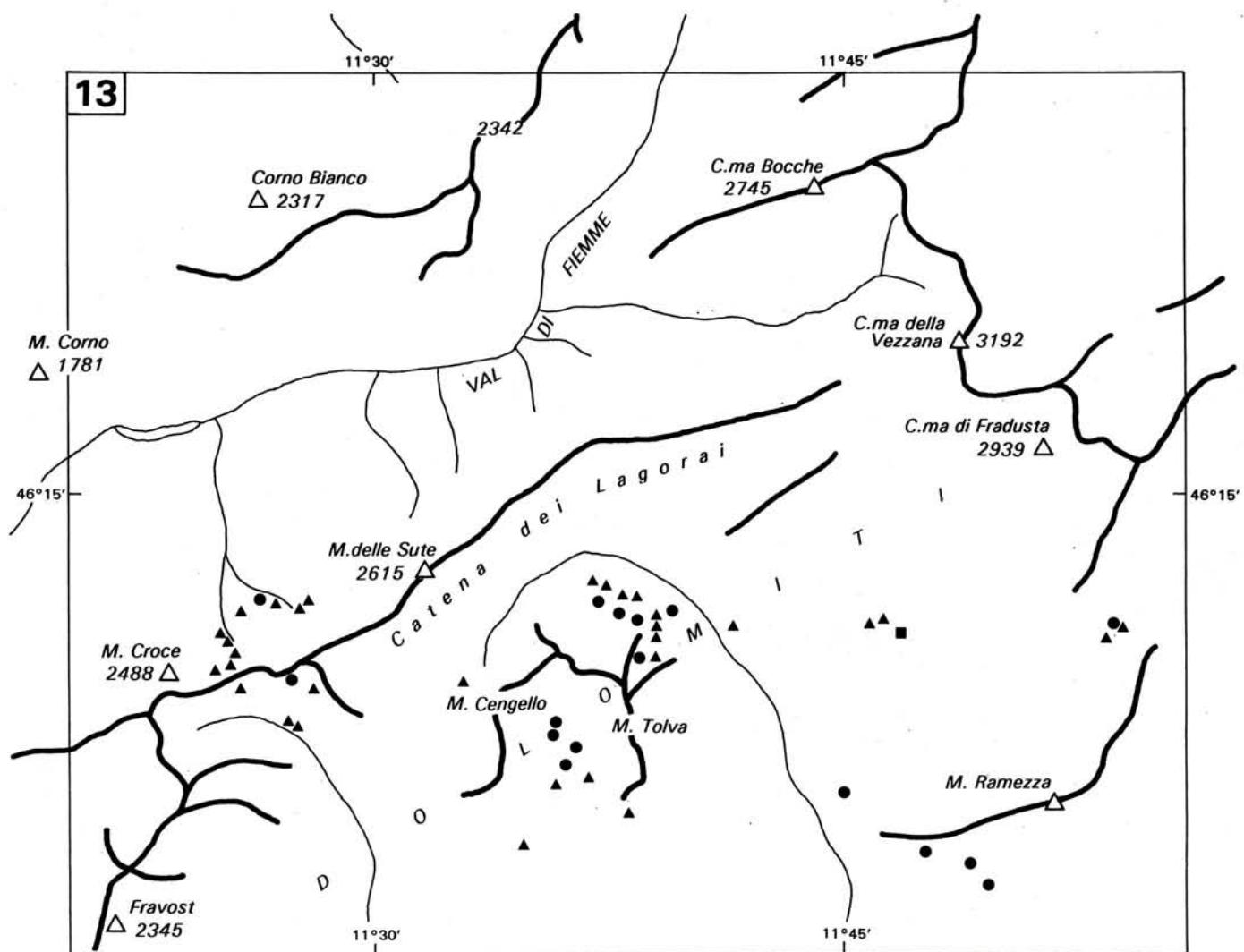






12





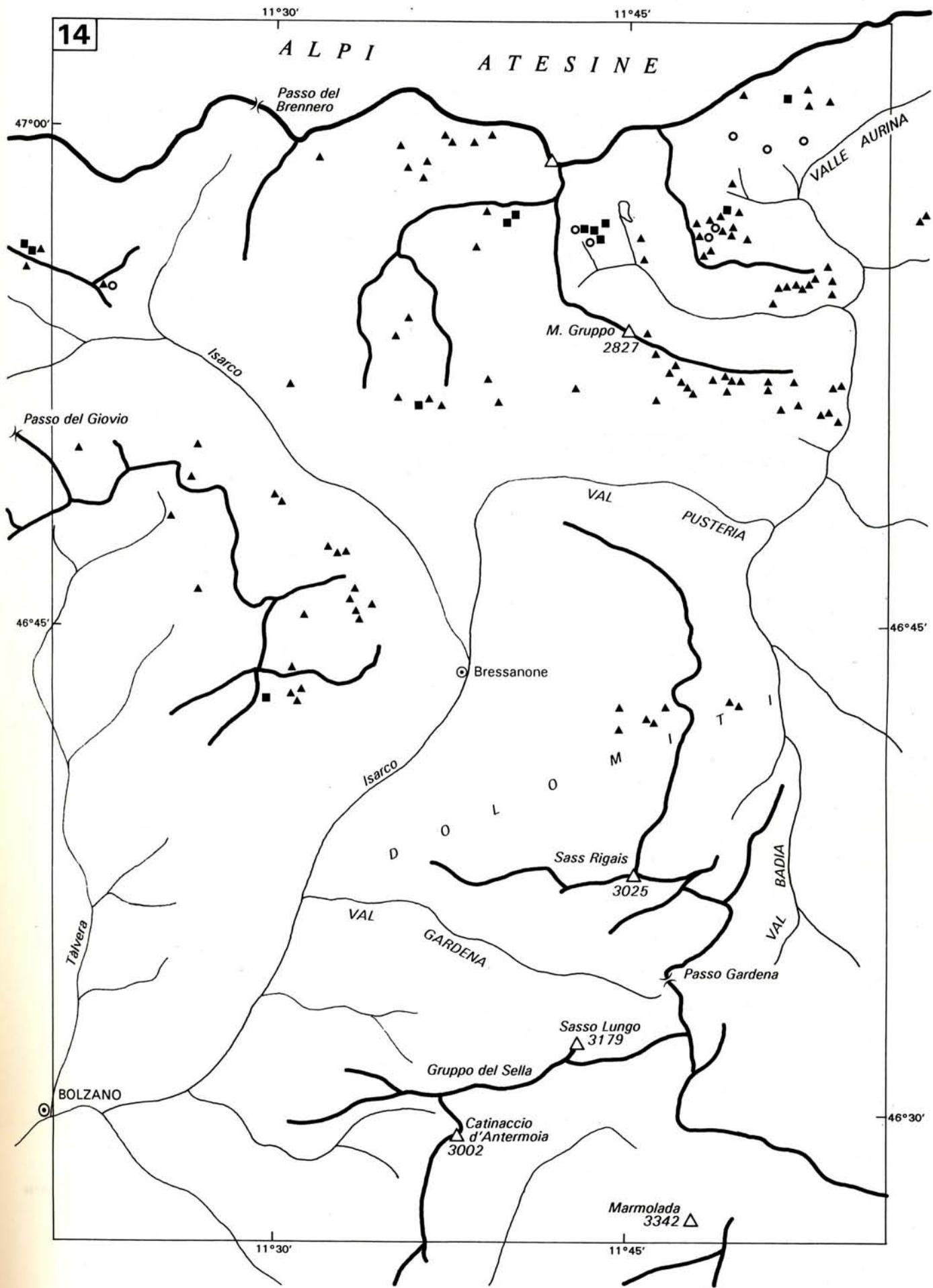
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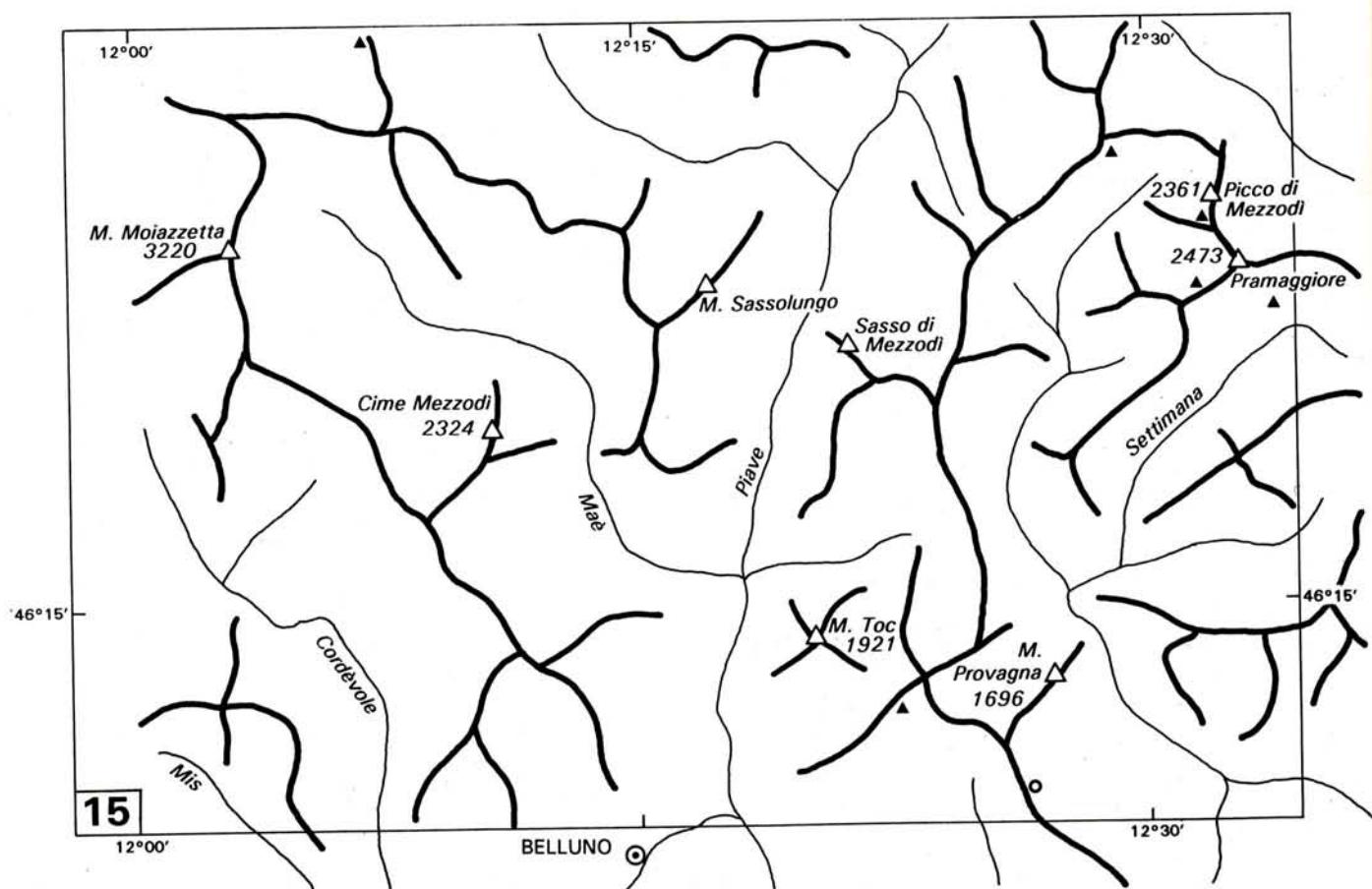
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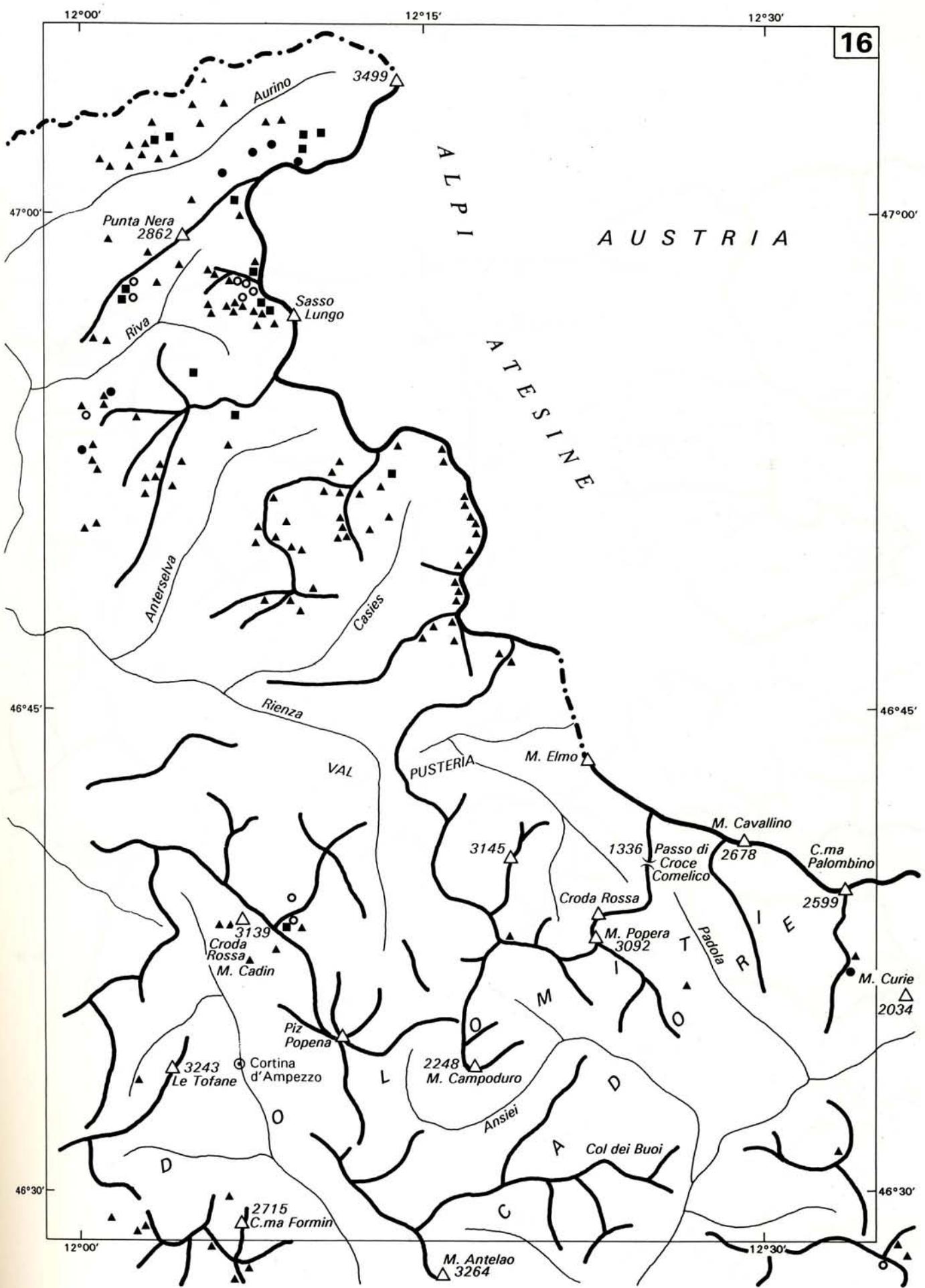
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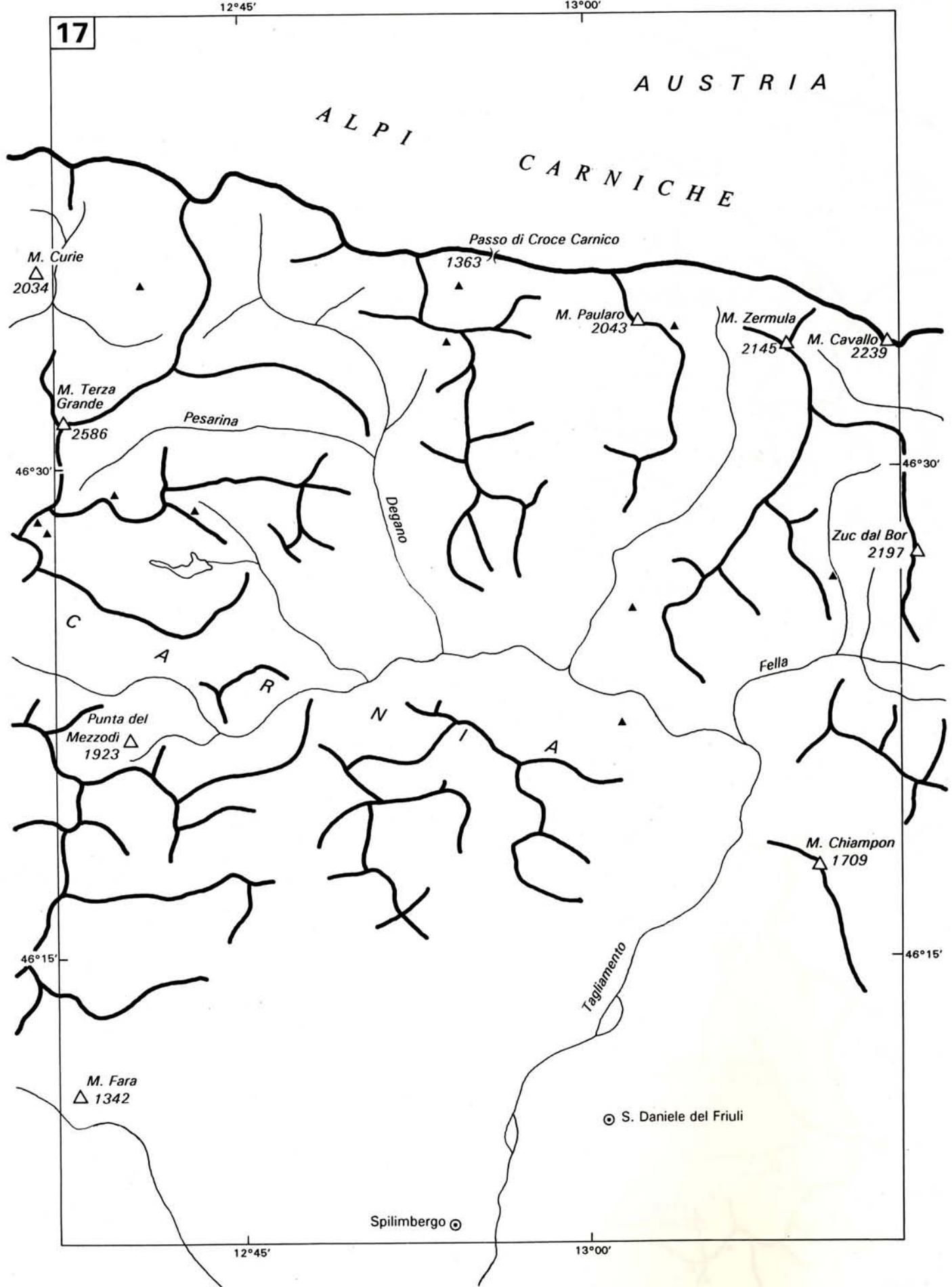
A L P I

A T E S I N E











Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
91	1	SE	1	44°08'00"N	07°50'00"E	Pta.Torracca	1900	1950	21	29250	N	225	130
91	1	SE	2	44°08'26"N	07°54'40"E	Pizzo d'Ormea	1750	1900	22	65625	NNE	175	375
91	1	SW	3	44°09'50"N	07°45'00"E	Rocche di Serpentera	2060	2185	23	39000	NE	130	300
91	1	SW	4	44°08'24"N	07°52'20"E	Revelli 1	2200	2225	9	16750	NE	125	150
91	1	SW	5	44°08'27"N	07°52'00"E	M.Rotondo	2180	2230	24	15400	NE	140	110
91	1	SW	6	44°08'40"N	07°52'00"E	Revelli 2	2200	2230	13	22750	E	175	130
91	1	SW	7	44°08'30"N	07°52'00"E	Revelli 3	2230	2260	22	6750	E	90	75
91	1	SW	8	44°08'40"N	07°52'00"E	Revelli 4	2185	2260	15	50400	SE	180	280
91	1	SW	9	44°10'00"N	07°54'50"E	Ferlette	2070	2250	36	42500	NE	170	250
91	1	SW	10	44°10'03"N	07°49'50"E	Ciapere di Seirasso	2085	2325	17	280000	NNE	350	800
91	1	SW	11	44°10'45"N	07°48'20"E	Gias Piandimale	1950	1980	9	19800	NNW	110	180
91	1	SW	12	44°09'20"N	07°43'00"E	Rifugio Mondovi'	1740	1760	7	93500	NNE	550	170
91	1	SW	13	44°10'30"N	07°43'00"E	Piano Marchisio	1622	1675	15	76000	W	380	200
91	1	SW	14	44°10'30"N	07°44'00"E	Cima S. Lorenzo	1710	1875	18	65000	SE	130	500
91	1	SW	15	44°08'00"N	07°52'00"E	Gias alti di Pontetto	1720	1750	17	14000	NE	140	100
91	2	NW	16	44°10'45"N	07°45'20"E	Bric di Conioia	2275	2375	18	52500	NNW	175	300
91	3	NW	17	44°08'15"N	07°29'03"E	Cima del Sabbione	2300	2450	25	54400	NNE	170	320
91	3	NW	18	44°07'41"N	07°27'32"E	Ricovero Vernasca	2470	2580	20	52700	NNE	170	310
91	3	NW	19	44°08'46"N	07°28'05"E	Sabbione	2070	2090	27	8000	SE	200	40
91	3	NW	20	44°09'51"N	07°28'03"E	Ischietto Est	2090	2160	16	60000	SSE	240	250
91	3	NW	21	44°07'20"N	07°34'50"E	Piarnana	1600	1650	27	40000	NW	400	100
91	3	NW	22	44°07'20"N	07°34'55"E	Prati della Chiesa	1475	1600	40	60000	NW	400	150
91	3	NW	23	44°07'00"N	07°34'50"E	Ferte Gaura	1955	2130	41	180000	NNW	900	200
91	3	NW	24	44°07'10"N	07°32'00"E	Rocca dell'Abisso	2440	2515	18	23000	NNE	100	230
91	3	NW	25	44°09'33"N	07°28'04"E	Perigua	2020	2180	66	49000	SW	700	70
91	3	SW	26	44°09'15"N	07°27'49"E	Ischietto Ovest	2180	2250	21	37800	NNW	210	180
91	4	NE	27	44°14'45"N	07°13'40"E	Vallone della Palla	2100	2300	27	240000	NE	600	400
91	4	NE	28	44°13'30"N	07°13'40"E	Rocca del Ciamp				65000	NW	250	260
91	4	NE	29	44°13'30"N	07°12'50"E	Testa delle Norelle	2100	2300	13	225000	NNW	250	900
91	4	SE	30	44°08'55"N	07°43'00"E	Gias Soprano Serpentera	1760	1860	11	100000	NW	200	500
91	4	SE	31	44°09'30"N	07°44'40"E	Gias Soprano Sestrera	1975	2050	17	25000	NW	100	250
91	4	SE	32	44°15'20"N	07°35'00"E	Laghetto del Marguareis	1928	2025	26	30000	NNE	150	200
91	4	SE	33	44°12'50"N	07°39'20"E	Cima La Motta	1980	2075	14	53200	NE	140	380
90	1	SW	34	44°10'19"N	07°18'00"E	Cima Sud Argentera	2620	2670	29	25200	SSE	280	90
90	1	SW	35	44°10'33"N	07°17'05"E	Pta De Cessole	2250	2440	22	159800	NNW	340	470
90	1	SW	36	44°11'17"N	07°14'55"E	Cima di Valcucia 1	2360	2450	16	46500	NNW	150	310
90	1	SW	37	44°11'25"N	07°14'40"E	Cima di Valcucia 2	2180	2270	21	33600	NW	140	240
90	1	SW	38	44°10'17"N	07°13'33"E	Caire di Prefuns	2320	2550	27	76500	N	170	450
90	1	SW	39	44°10'28"N	07°12'37"E	Testa delle Portette	2480	2630	28	58800	NNE	210	280
90	1	SW	40	44°10'48"N	07°12'48"E	Lago delle Portette	2410	2510	34	69000	SSE	460	150
90	1	SW	41	44°10'56"N	07°12'53"E	Testa del Claus	2320	238C	18	17100	NW	90	190
90	1	SW	42	44°12'06"N	07°12'24"E	Cima Valrossa Sud	2400	2500	23	36000	SSE	150	240
90	1	SW	43	44°09'05"N	07°18'48"E	Cima di Nasta	2630	2680	29	22500	SSE	250	90
90	2	NW	44	44°09'01"N	07°19'33"E	Passo della Rovina	2320	2360	30	6300	NNE	90	70
90	2	NE	45	44°09'04"N	07°26'41"E	Valletta Est	2260	2570	21	152000	NNE	190	800
90	2	NE	46	44°08'05"N	07°25'31"E	Vei dei Bouc	2270	2500	27	72000	NNW	160	450
90	2	NE	47	44°08'40"N	07°25'39"E	Valletta Ovest	2270	2570	25	143000	NNW	220	650
90	2	NE	48	44°09'01"N	07°20'34"E	Pta della Valletta	2460	2630	29	71300	NNW	230	310
90	2	NE	49	44°09'06"N	07°20'21"E	Baissa Margot	2590	2680	23	14700	NNW	70	210
90	2	NE	50	44°08'05"N	07°27'08"E	Quota 2808	2350	2620	28	135000	NNW	270	500
90	2	NE	51	44°08'21"N	07°26'39"E	Lago della Roccia	2200	2450	21	57600	SE	90	640
90	4	SE	52	44°11'15"N	07°11'48"E	Bassa della Lausa	2490	2510	5	16800	N	70	240
90	4	SE	53	44°10'48"N	07°12'00"E	M.Malinvern	2420	2530	31	21600	S	120	180
90	4	SE	54	44°09'50"N	07°14'00"E	Lago di Valseura	2270	2320	14	44000	NE	220	200
90	4	SE	55	44°08'40"N	07°14'10"E	Valdieri 1	2500	2700	27	72000	N	180	400
90	4	SE	56	44°08'40"N	07°14'20"E	Valle dei Prefouns	2350	2600	29	49500	N	110	450
90	4	SE	57	44°08'40"N	07°18'40"E	Valle dell'Argentera	2260	2360	24	22000	N	100	220
90	4	SE	58	44°09'20"N	07°20'50"E	Colle di Chiapons	2400	2500	22	150000	NE	600	250
78	2	SE	59	44°20'10"N	06°56'02"E	Argentera 1	2230	2472	18	150000	E	200	750
78	2	SE	60	44°20'25"N	06°55'40"E	Argentera 2	2563	2650	22	59400	E	270	220
78	2	SE	61	44°20'50"N	06°55'55"E	Argentera 3	2300	2442	13	341000	NE	550	620
78	2	SE	62	44°22'50"N	06°56'02"E	Argentera 4	2230	2350	12	230000	NE	400	575
79	3	SW	63	44°24'00"N	07°00'50"E	Bersezio 1	2325	2400	17	93750	NE	375	250
79	3	SW	64	44°23'30"N	07°01'10"E	Bersezio 2	2350	2520	24	656250	SW	1750	375
79	3	SW	65	44°23'50"N	07°02'40"E	Bersezio 3	2100	2250	17	250000	NE	500	500
79	3	SW	66	44°24'30"N	07°05'02"E	Fonda Brancia	2400	2500	38	28600	NE	220	130



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
78	1	SE	67	44°31'00"N	06°55'50"E	Chambeyron 1	2400	2520	9	240000	NW	300	800
78	1	SE	68	44°31'00"N	06°55'00"E	Chambeyron 2	2550	2750	15	843750	NW	1125	750
78	1	SE	69	44°33'00"N	06°56'45"E	Valle di Ciabriera	2450	2800	10	770000	SW	400	1925
78	1	SE	70	44°31'30"N	06°54'10"E	Col de Mary	2600	2720	14	150000	NE	300	500
78	1	SE	71	44°31'30"N	06°54'00"E	Chambeyron 3	2555	2800	16	297500	NE	350	850
79	3	NW	72	44°25'15"N	07°01'40"E	Cassin	2100	2400	17	100000	NE	100	1000
79	4	NE	73	44°39'10"N	07°07'00"E	Monte Viso 1	2350	2600	14	538125	NE	525	1025
79	4	NE	74	44°38'10"N	07°07'00"E	Monte Viso 2	2525	2800	23	568750	NE	875	650
79	4	NE	75	44°37'30"N	07°05'50"E	Rocce di Viso	2180	2300	20	349375	S	1075	325
79	4	NE	76	44°37'00"N	07°08'10"E	Passo Sagnette	2290	2520	12	268750	SE	250	1075
79	4	NE	77	44°39'30"N	07°07'40"E	Rocce di Viso 2	2700	2800	13	202500	SW	450	450
79	4	NE	78	44°37'00"N	07°07'20"E	Tore	2070	2540	12	1595000	S	725	2200
79	4	NE	79	44°38'00"N	07°07'00"E	Monte Viso 3	2520	2700	18	907500	NE	1650	550
79	4	NE	80	44°38'50"N	07°07'20"E	Monte Viso 4	2600	2700	11	62500	NW	125	500
79	4	SW	81	44°32'00"N	07°00'50"E	Rocca la Marchisa	2600	2720	9	337500	NE	450	750
79	4	SW	82	44°33'00"N	07°01'10"E	Pelvo D'Elva	2625	2700	10	265625	NW	625	425
79	4	SW	83	44°32'50"N	07°00'30"E	Monte Faraut	2520	2700	15	373750	NW	575	650
79	4	SW	84	44°32'30"N	07°00'40"E	Monte Faraut 2	2600	2800	11	682500	SE	650	1050
67	3	NW	85	44°47'20"N	07°00'40"E	Bric Bucie	2400	2540	16	52800	N	110	480
67	3	NE	86	44°45'00"N	07°09'05"E	Bobbio Pellice	2110	2433	53	24000	N	100	240
67	3	SE	87	44°43'30"N	07°03'50"E	Punta Pieng	2500	2560	7	65000	W	130	500
67	3	SE	88	44°43'00"N	07°00'02"E	Punta Pieng 2	2260	2420	14	248000	S	400	620
67	3	SE	89	44°41'00"N	07°00'02"E	La Grande Aiguillette	2180	2430	20	266000	N	380	700
67	3	SE	90	44°50'50"N	07°07'02"E	Monte Giulian	2190	2400	11	456500	NE	415	1100
67	3	SE	91	44°44'00"N	07°05'40"E	Punta Pieng 3	2100	2380	20	150000	N	200	750
67	3	SW	92	44°41'15"N	06°58'40"E	La Grande Aiguillette 2	2720	2900	12	131250	W	150	875
67	3	SW	93	44°40'50"N	06°59'40"E	La Grande Aiguillette 3	2580	2900	22	429000	SW	550	780
67	3	SW	94	44°43'20"N	07°03'50"E	Mont Parroussin	2560	2680	17	97500	NW	250	390
67	4	NW	95	44°57'10"N	06°59'30"E	Massello	2770	2800	4	200000	N	500	400
67	4	SE	96	44°52'00"N	07°04'50"E	Punta Vergia	2320	2420	11	135000	NW	270	500
67	4	SE	97	44°51'40"N	07°05'50"E	Punta Vergia 2	2600	2720	21	96000	NW	300	320
67	4	SE	98	44°51'40"N	07°06'02"E	Punta Gardetta	2600	2830	49	16000	N	80	200
67	4	SE	99	44°51'40"N	07°06'35"E	Punta Gardetta 2	2580	2700	24	27000	N	100	270
67	4	SE	100	44°51'40"N	07°06'50"E	Punta Gardetta 3	2475	2600	25	20250	NW	75	270
67	4	SE	101	44°53'00"N	07°05'30"E		2300	2400	16	75600	NE	210	360
67	4	SE	102	44°53'30"N	07°05'45"E		2175	2400	24	235000	N	470	500
67	4	SE	103	44°52'40"N	07°06'02"E		2500	2600	45	30000	N	300	100
67	4	SE	104	44°52'35"N	07°05'02"E		2300	2400	15	95000	SW	250	380
67	4	SE	105	44°52'50"N	07°05'45"E		2420	2600	61	54000	N	540	100
67	4	SE	106	44°51'30"N	07°05'02"E		2300	2500	30	350000	NE	1000	350
67	4	SW	107	44°51'00"N	06°59'20"E		2540	2650	16	60000	N	160	375
66	1	SE	108	44°52'30"N	06°55'02"E	Monte Gran Roc 1	2670	2900	17	207900	NE	270	770
66	1	SE	109	44°52'00"N	06°56'40"E	Monte Gran Roc 2	2712	3200	21	150000	NE	120	1250
66	1	SE	110	44°52'20"N	06°55'50"E	Monte Gran Roc 3	2710	2900	21	130000	N	260	500
66	1	SE	111	44°52'10"N	06°56'02"E	Monte Gran Roc 4	2790	2900	24	25000	N	100	250
66	1	SE	112	44°52'50"N	06°54'30"E	Monte Gran Roc 5	2720	2900	20	125000	N	250	500
66	1	SE	113	44°54'00"N	06°55'02"E	Monte Gran Roc 6	2690	2890	22	125000	N	250	500
54	2	NW	114	45°06'45"N	06°50'30"E	Punta Valfredda	2750	2875	18	93750	NNW	250	375

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Morphology						
					Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
complex	furrow	metamorphic		below meadows line	0	1	0	0	0	0	1
uncertain activity	cirque	metamorphic	snowbank	below meadows line	1	1	0	1	1	0	1
uncertain activity	cirque	metamorphic		below meadows line	1	1	1	1	1	1	0
uncertain activity	slope	metamorphic	glacier	below meadows line	0	1	0	0	1	1	0
uncertain activity	slope	metamorphic	glacier	below meadows line	0	1	0	0	1	1	0
active	furrow	carbonatic		below meadows line	0	0	0	1	1	1	0
inactive	valley	metamorphic	snowbank	below meadows line	1	1	0	0	0	0	1
inactive	slope	metamorphic	snowbank	below meadows line	1	1	0	0	1	0	1
uncertain activity	slope	metamorphic		below meadows line	1	1	0	0	0	0	1
uncertain activity	cirque	metamorphic		below meadows line	0	0	0	0	1	0	0
uncertain activity	cirque	metamorphic		below meadows line	0	0	0	1	0	1	0
uncertain activity	valley	metamorphic		below meadows line	1	1	0	1	1	0	0
uncertain activity	slope	metamorphic	snowbank	below meadows line	1	1	1	1	0	1	1
uncertain activity	slope	metamorphic	snowbank	below meadows line	0	0	0	0	1	1	1
inactive	cirque	metamorphic		below meadows line	1	0	1	1	0	0	1
uncertain activity	cirque	metamorphic		below meadows line	0	0	0	1	1	1	0
uncertain activity	valley	metamorphic		below meadows line	0	0	0	1	1	1	0
complex		metamorphic		below meadows line	0	0	0	0	0	0	1
uncertain activity		volcanites		below meadows line	0	1	1	1	0	1	0
inactive		metamorphic	snowbank	below meadows line	0	0	0	1	1	0	0
complex	cirque	volcanites		below meadows line	0	0	0	0	1	1	0
complex	cirque	volcanites		below meadows line	1	0	1	1	0	0	1
inactive	furrow	volcanites	snowbank	below meadows line	1	1	1	1	1	0	0
inactive	furrow	volcanites		below treeline	0	1	0	1	1	1	1
active	furrow	metamorphic	glacierets	below treeline	0	1	0	1	1	1	0
active	valley	metamorphic		below meadows line	0	0	0	1	0	1	0
active	cirque	volcanites		below meadows line	1	1	0	1	1	1	0
uncertain activity	cirque	metamorphic	snowbank	below meadows line	1	1	1	0	0	0	1
inactive	furrow	metamorphic		below meadows line	1	1	0	1	0	1	0
uncertain activity	cirque	metamorphic	snowbank	below meadows line	0	1	0	1	0	0	0
uncertain activity	cirque	metamorphic		below meadows line	0	0	0	0	1	1	0
uncertain activity	cirque	metamorphic		below meadows line	0	1	1	1	0	1	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	1	0	1
inactive	cirque	metamorphic		below meadows line	0	0	0	0	1	0	1
uncertain activity	slope	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	furrow	metamorphic		below meadows line	0	1	1	1	0	0	0
complex	cirque	metamorphic	snowbank	below meadows line	0	1	1	1	0	1	1
complex	slope	metamorphic		below meadows line	1	1	1	1	0	1	0
uncertain activity	slope	metamorphic		below meadows line	0	0	1	0	1	1	1
active	furrow	metamorphic	snowbank	below meadows line	1	0	1	1	1	1	0
active	furrow	metamorphic	snowbank	below treeline	1	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	below meadows line	1	1	0	1	0	1	0
active	cirque	metamorphic	snowbank	below meadows line	0	0	0	1	1	1	0
active	cirque	metamorphic	snowbank	below meadows line	1	0	0	1	1	1	0
uncertain activity	cirque	metamorphic	snowbank	below meadows line	0	0	0	1	1	1	1
active	slope	metamorphic		below treeline	0	1	0	0	1	0	0

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
55	4	NE	115	45°13'00"N	07°07'10"E	Colle di Spiol	2135	2475	24	225000	W	300	750
55	4	NE	116	45°13'20"N	07°09'00"E	Cima 2977	2800	2950	45	18750	W	125	150
55	4	NE	117	45°16'45"N	07°13'45"E	M. di Bessanello	2425	2575	17	125000	NW	250	500
55	1	NW	118	46°16'25"N	07°13'15"E	Vallone degli Ortetti	2310	2400	20	31250	NNE	125	250
42	3	NW	119	45°28'35"N	07°27'30"E	M. Colombo	2094	2300	34	45000	E	150	300
42	3	NW	120	45°28'35"N	07°30'10"E	Il Vallone	2400	2600	18	240000	NE	400	600
42	4	NW	121	45°40'02"N	07°32'30"E	M. Belpa 1	2575	2675	22	37500	NW	150	250
42	4	NW	122	45°40'02"N	07°32'31"E	M. Belpa 2	2625	2750	27	31250	SW	125	250
42	4	NW	123	45°37'37"N	07°33'57"E	Vallone Giaset 1	2400	2500	11	200000	S	400	500
42	4	NW	124	45°37'37"N	07°33'00"E	Vallone Giaset 2	2375	2575	15	225000	SE	300	750
42	4	NW	125	45°38'16"N	07°34'18"E	Lago Comuto	2300	2550	20	210000	NE	300	700
42	4	NW	126	45°38'16"N	07°34'00"E	Gran Lago	2480	2650	12	160000	NW	200	800
42	4	NW	127	45°38'08"N	07°31'00"E	Lago Margheron	2400	2675	25	90000	N	150	600
42	4	NW	128	45°38'02"N	07°33'00"E	Colle Gran Rossa 1	2625	2700	27	15000	N	100	150
42	4	NW	129	45°38'02"N	07°33'01"E	Colle Gran Rossa 2	2600	2675	21	20000	N	100	200
42	4	NW	130	45°38'08"N	07°30'16"E	Col D'Eyle	2430	2625	21	62500	SW	125	500
42	4	NW	131	45°37'37"N	07°31'41"E	M. Dela 1	2670	2850	31	120000	NW	400	300
42	4	NW	132	45°37'30"N	07°31'12"E	M. Dela 2	2725	2850	11	109375	NW	175	625
42	4	NW	133	45°36'00"N	07°30'16"E	Cima 2961	2825	2900	27	18750	N	125	150
42	4	NW	134	45°35'52"N	07°30'16"E	Bocca Costazza	2675	2850	25	56250	NE	150	375
42	4	NW	135	45°36'52"N	07°28'08"E	Cima 3196	2900	3025	27	31250	W	125	250
42	4	NW	136	45°38'08"N	07°27'37"E	Punta Tessonet	2730	2950	20	225000	NW	375	600
42	4	NW	137	45°40'02"N	07°28'00"E	Grand Avert 1	2675	2825	22	46875	W	125	375
42	4	NW	138	45°40'02"N	07°27'50"E	Grand Avert 2	2550	2720	19	100000	NW	200	500
42	4	NW	139	45°39'29"N	07°27'51"E	Cima 2804	2610	2880	28	100000	NW	200	500
42	4	NW	140	45°39'32"N	07°27'33"E	Cima 2702	2350	2550	22	62500	NW	125	500
42	4	NE	141	45°38'14"N	07°36'18"E	Cime Terche Triomo	2100	2350	32	100000	SW	250	400
42	4	NE	142	45°36'40"N	07°36'29"E	Champ Chevy 1	1850	2000	22	56250	NE	150	375
42	4	NE	143	45°36'58"N	07°35'58"E	Champ Chevy 2	1850	2050	22	125000	N	250	500
42	4	SE	144	45°32'15"N	07°38'00"E	M.Rosso	1950	2125	24	80000	N	200	400
42	4	SE	145	45°34'30"N	07°39'45"E	Alpe Vallerey	1750	2050	17	400000	N	400	1000
42	4	SW	146	45°32'40"N	07°29'20"E	Bocca Cucco	1950	2350	53	60000	NNE	200	300
42	4	SW	147	46°33'37"N	07°30'55"E	Pta Vallotta	2025	2100	27	100000	NNW	200	150
42	4	SW	148	45°33'00"N	07°28'55"E	Cima del Cavallo	2520	2695	19	100000	N	200	500
42	4	SW	149	45°32'58"N	07°29'45"E	Bocca Vallotta 1	2300	2500	11	350000	N	350	1000
42	4	SW	150	45°32'45"N	07°29'23"E	Bocca Vallotta 2	2400	2500	6	1000000	NNE	1000	1000
41	1	NW	151	45°35'30"N	07°16'59"E	Circo della Rossa 2	3025	3100	27	9000	NE	60	150
41	1	NW	152	45°35'36"N	07°16'59"E	Circo della Rossa 1	3150	3200	18	15000	NE	100	150
41	1	NW	153	45°35'36"N	07°18'00"E	Gavio	2800	2900	18	60000	N	200	300
41	1	NW	154	45°36'37"N	07°19'01"E	Pousset Sup.	2560	2625	15	62500	NW	250	250
41	1	NW	155	45°35'36"N	07°18'01"E	Cima 3208	3075	3150	21	16000	NE	80	200
41	1	NW	156	45°35'35"N	07°18'00"E	Cresta del Lauson	2900	3100	22	75000	N	150	500
41	1	NW	157	45°35'36"N	07°20'02"E	Cima 2948 1	2750	2800	18	12000	N	80	150
41	1	NW	158	45°35'36"N	07°20'02"E	Cima 2948 2	2700	2800	34	45000	N	300	150
41	1	NW	159	45°35'36"N	07°19'01"E	Testa Tsaplane 1	2625	2700	21	40000	N	200	200
41	1	NW	160	45°35'37"N	07°19'01"E	Testa Tsaplane 2	2625	2725	18	60000	N	200	300
41	1	NW	161	45°35'37"N	07°20'01"E	M.Erban	2500	2600	11	50000	N	100	500
41	1	NE	162	45°39'03"N	07°22'01"E	Pta Garin Ovest	2725	2950	25	80750	W	170	475
41	1	NE	163	45°39'45"N	07°23'00"E	Pta di Laures	3030	3100	19	40000	W	200	200
41	1	NE	164	45°39'41"N	07°23'08"E	Pta Rossa	3075	3180	15	76000	S	200	380
41	1	NE	165	45°39'40"N	07°26'34"E	Grande Chaux	2310	2425	14	112500	N	250	450
41	1	SW	166	45°33'00"N	07°18'10"E	Herbetet	2670	2775	23	37500	W	150	250
41	1	SW	167	45°34'30"N	07°16'40"E	Punta del Tur	2925	3075	21	80000	NE	200	400
41	1	SW	168	45°34'30"N	07°16'10"E	Costa Verde	2900	3100	18	90000	W	150	600
41	1	SW	169	45°34'30"N	07°17'10"E	Costa del Vallon 1	2950	3000	14	50000	N	250	200
41	1	SW	170	45°44'00"N	07°18'40"E	Costa del Vallon 2	2730	2875	26	45000	N	150	300
41	1	SE	171	45°35'00"N	07°21'10"E	Granzetta	2450	2725	21	315000	W	450	700
41	2	NW	172	45°25'45"N	07°17'34"E	Cima di Deserto	2350	2450	27	20000	NE	100	200
41	2	NW	173	45°28'45"N	07°18'10"E	Becco dell'Alpetto	2300	2500	27	120000	NE	300	400
41	2	NW	174	46°28'00"N	07°17'00"E	Pian Leva	2125	2200	17	25000	NNE	100	250
41	2	NW	175	45°28'00"N	07°13'10"E	Toria	2850	3000	9	190000	W	200	950
41	2	NW	176	45°27'25"N	07°12'40"E	Alpe Pisson	2500	2700	34	60000	NE	200	300
41	2	NW	177	45°27'00"N	07°14'10"E	La Ciarma 1	2400	2600	22	550000	S	1100	500
41	2	NW	178	45°29'20"N	07°15'13"E	La Tour	2800	3100	34	90000	NE	200	450
41	2	NW	179	45°27'00"N	07°15'10"E	La Ciarma 2	2250	2525	15	100000	E	100	1000
41	2	NW	180	45°28'30"N	07°15'50"E	Piccola Torre	2675	2900	33	35000	NE	100	350
41	2	NW	181	45°28'45"N	07°15'40"E	Cresta di Ciamousseretto	2775	2900	32	20000	NE	100	200
41	2	NW	182	45°26'51"N	07°13'25"E	La Merola	2050	2200	23	105000	S	300	350
41	2	NE	183	45°28'40"N	07°20'50"E	Boccha di Drosa	2600	2730	33	20000	SSW	100	200

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Morphology						
					Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
complex	valley			above	0	0	0	0	1	0	0
active	slope			above	0	0	0	0	1	0	0
active	slope			above	0	0	0	0	1	0	0
inactive	slope			above	0	0	0	0	1	0	0
inactive	valley	metamorphic	moraines	below meadows line	0	0	0	1	0	0	0
uncertain activity	slope	metamorphic	snowbank	above	0	0	1	1	0	0	0
active	slope	metamorphic	snowbank	below meadows line	0	0	0	0	0	0	0
uncertain activity	cirque	metamorphic	moraines	below meadows line	0	0	0	0	0	0	0
inactive	valley	metamorphic	moraines	below meadows line	0	0	0	0	0	0	0
inactive	slope	metamorphic	moraines	below meadows line	0	0	1	0	0	0	0
uncertain activity	slope	metamorphic		below meadows line	0	0	0	0	0	0	0
active	valley	metamorphic	snowbank	below meadows line	0	0	1	0	0	0	0
complex	cirque	metamorphic	snowbank	below meadows line	0	0	1	0	0	0	0
active	valley	plutonites	snowbank	below meadows line	0	0	0	1	0	0	0
active	valley	plutonites	snowbank	above	0	0	0	0	0	0	0
inactive	furrow	plutonites	moraines	below meadows line	0	0	1	0	0	0	0
active	slope	metamorphic	glacierets	below meadows line	0	0	0	0	0	0	0
active	furrow	metamorphic	snowbank	above	0	0	0	0	0	0	0
uncertain activity	slope	metamorphic	snowbank	above	0	0	0	0	0	0	0
active	slope	metamorphic	snowbank	above	0	0	1	0	0	0	0
active	slope	metamorphic	glacier	above	0	0	1	0	0	0	0
uncertain activity	furrow	metamorphic	snowbank	above	0	0	0	0	0	0	0
uncertain activity	furrow	metamorphic	snowbank	below meadows line	0	0	0	0	0	0	0
uncertain activity	furrow	metamorphic	snowbank	below meadows line	0	0	0	0	0	0	0
uncertain activity	slope	metamorphic	snowbank	below meadows line	0	0	1	0	0	0	0
inactive	valley	metamorphic	moraines		0	0	0	1	0	0	0
inactive	furrow	metamorphic	snowbank	below treeline	0	0	0	0	0	0	0
inactive	valley	metamorphic	moraines	below treeline	0	0	0	1	0	0	0
inactive	valley	metamorphic	moraines	below treeline	0	0	0	1	0	0	1
inactive	slope	metamorphic	below treeline	0	1	1	1	0	0	0	0
inactive	furrow	metamorphic	moraines	below treeline	0	0	0	1	0	0	0
uncertain activity	slope	metamorphic	snowbank	1	0	0	0	0	0	0	0
uncertain activity	furrow	metamorphic	moraines	above	0	0	0	1	0	0	0
complex	slope	metamorphic	moraines	above	0	1	0	1	0	0	0
active	slope	metamorphic	moraines	above	0	0	1	0	0	0	0
active	cirque	metamorphic	glacier	above	0	1	0	0	0	0	1
active	cirque	metamorphic		above	1	0	0	1	0	1	0
active	slope	metamorphic	snowbank	below meadows line	1	0	1	0	1	0	0
inactive	slope	metamorphic	glacierets	below meadows line	0	1	0	0	0	0	0
active	valley	metamorphic	snowbank	above	0	1	0	0	0	1	0
inactive	slope	metamorphic	snowbank	below meadows line	0	1	0	0	0	0	0
active	slope	metamorphic	snowbank	below meadows line	0	0	0	1	0	0	0
active	slope	metamorphic	snowbank	below meadows line	0	0	0	1	0	0	0
inactive	slope	metamorphic	snowbank	below meadows line	0	1	0	0	0	0	1
active	slope	metamorphic	snowbank	below meadows line	1	0	1	1	0	1	0
active	slope	metamorphic	snowbank	below meadows line	0	0	0	1	0	0	0
uncertain activity	slope	metamorphic	snowbank	1	1	1	1	0	0	0	0
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	1
inactive	valley	metamorphic	below meadows line	0	1	0	1	0	0	0	1
inactive	slope	metamorphic	moraines	below meadows line	0	1	0	0	1	0	0
active	cirque	carbonatic	glacier	above	0	1	0	0	0	1	0
complex	furrow	metamorphic	snowbank	below meadows line	0	1	0	0	1	0	0
active	slope	metamorphic	snowbank	above	1	1	0	1	0	1	0
active	slope	metamorphic	glacierets	above	0	1	0	1	0	0	0
active	cirque	metamorphic	glacierets	below meadows line	1	0	0	1	0	0	0
inactive	cirque	metamorphic	moraines	above	0	1	0	0	0	0	0
uncertain activity	slope	metamorphic	moraines	above	0	1	0	0	0	0	0
inactive	valley	metamorphic	moraines	above	0	0	0	0	0	0	1
active	slope	metamorphic	moraines	above	0	0	1	1	1	0	0
uncertain activity	slope	metamorphic	moraines	above	0	0	0	1	0	0	0
inactive	slope	metamorphic	moraines	below treeline	0	1	1	1	0	0	0
active	slope	metamorphic	moraines	above	0	0	1	1	1	0	0
inactive	slope	metamorphic	below treeline	0	0	1	1	1	1	0	0
uncertain activity	slope	metamorphic	moraines	below treeline	0	0	0	1	1	0	0
active	slope	metamorphic	moraines	above	0	0	1	1	1	0	0
inactive	slope	metamorphic	moraines	below treeline	0	1	1	1	0	0	0
uncertain activity	furrow	metamorphic	moraines	above	0	0	1	1	1	0	0
active	slope	metamorphic	moraines	above	0	0	0	1	1	0	0
inactive	slope	metamorphic	moraines	below treeline	0	1	1	0	0	0	0
uncertain activity	slope	metamorphic	snowbank	above	0	0	1	1	0	0	0

<i>Sheet</i>	<i>Quadrant</i>	<i>Map orientation</i>	<i>Identification No.</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Name</i>	<i>Minimum altitude (m a.s.l.)</i>	<i>Maximum altitude (m a.s.l.)</i>	<i>Slope (deg)</i>	<i>Surface area (m<sup>2</sup>)</i>	<i>Aspect</i>	<i>Max width</i>	<i>Max length</i>
41	2	SW	184	45°23'00"N	07°15'10"E	Pian delle Cialme	1850	2200	18	472500	SSE	450	1050
41	2	SW	185	45°24'35"N	07°15'40"E	Cima della Crocetta	2220	2500	18	255000	NNW	300	850
41	2	SW	186	45°24'30"N	07°15'40"E	Colle della Crocetta	2400	2600	22	50000	N	100	500
41	2	SW	187	45°24'30"N	07°16'30"E	Alpe Becco degli Uccelli	2520	2650	18	200000	E	500	400
41	2	SE	188	45°22'45"N	07°25'30"E	Alpe Trucchetto	1850	2075	24	100000	N	200	500
41	2	SW	189	45°20'30"N	07°16'08"E	M.Carro	2050	2250	22	125000	N	250	500
41	2	SW	190	45°20'28"N	07°15'40"E	Colle di Trione	2200	2400	13	297500	NE	350	850
41	2	SW	191	45°20'26"N	07°14'10"E	Cresta Cittadella	2350	2550	22	125000	N	250	500
41	2	SW	192	45°20'46"N	07°14'40"E	Bec di Mezzodi	2200	2500	25	260000	NE	400	650
41	3	NE	193	45°28'29"N	07°08'51"E	Colle del Nivolet	2540	2620	18	15000	NW	60	250
41	3	NE	194	45°28'29"N	07°09'52"E	Cima 2694	2500	2525	27	2500	S	50	50
41	3	NE	195	45°28'30"N	07°08'40"E	Cresta Nivolet	2650	2700	14	60000	SE	300	200
41	3	NE	196	45°28'30"N	07°09'40"E	Punta Violetta 1	2530	2600	16	37500	W	150	250
41	3	NE	197	45°28'30"N	07°09'10"E	Punta Violetta 2	2800	2875	17	40000	W	160	250
41	3	NE	198	45°29'30"N	07°10'10"E	Punta Violetta 3	2730	2850	22	120000	N	400	300
41	3	NE	199	45°29'30"N	07°10'40"E	Punta Violetta 4	2750	2825	27	18000	N	120	150
41	3	SE	200	45°21'20"N	07°11'35"E	M.Malatret	2500	2700	34	45000	SE	150	300
41	4	NW	201	45°36'40"N	07°04'30"E	Alpe di Plonta	2200	2400	27	240000	E	600	400
41	4	NW	202	45°34'30"N	06°55'30"E	Valgrisanche 2	2500	2700	27	100000	NNW	250	400
41	4	NW	203	45°35'00"N	07°02'25"E	Montagna l'Epee	2350	2425	8	220000	NW	400	550
41	4	NW	204	45°35'55"N	07°01'00"E	Piano di Champigny	2440	2550	24	50000	S	200	250
41	4	NW	205	45°35'57"N	07°01'32"E	M.Tela (2522)	2475	2550	17	62500	S	250	250
41	4	NW	206	45°36'12"N	07°08'47"E	M.Arveille	2400	2600	39	12500	SW	50	250
41	4	NE	207	45°36'35"N	07°04'41"E	Colle di Feluma 1	2200	2400	27	200000	W	500	400
41	4	NE	208	45°37'10"N	07°10'00"E	Punta di Ran	2600	2800	30	35000	NNW	100	350
41	4	NE	209	45°36'35"N	07°05'00"E	Colle di Feluma 2	2350	2650	27	240000	SSW	400	600
41	4	NE	210	45°37'45"N	07°05'55"E	Bocca di Tos	2900	3200	37	60000	W	150	400
41	4	SE	211	45°31'30"N	07°09'40"E	Pian Borgno	2775	2850	21	40000	NE	200	200
41	4	SE	212	45°30'31"N	07°08'40"E	Vallone di Leynir 1	2950	3025	37	10000	W	100	100
41	4	SE	213	45°30'30"N	07°08'40"E	Vallone di Leynir 2	2930	3000	13	60000	NW	200	300
41	4	SE	214	45°30'30"N	07°07'40"E	Cima 3177	2825	2925	22	20000	S	80	250
41	4	SW	215	45°31'28"N	07°02'10"E	Punta di Bassac	2750	2850	18	37500	NW	125	300
41	4	SW	216	45°31'28"N	07°02'02"E	Cima 3045	2530	2700	34	31250	N	125	250
27	2	SE	217	45°41'40"N	06°58'05"E	M.Chaz Duraz	2404	2480	29	23800	N	170	140
27	2	NE	218	45°45'06"N	06°48'30"E	Col de La Seigne	2440	2720	37	534375	N	1425	375
28	2	SE	219	45°40'10"N	07°25'02"E	Colle di Leppe	2825	2925	15	114000	NW	300	380
28	2	SE	220	45°39'40"N	07°17'34"E	Lago Lungo	2650	2800	10	330600	N	380	870
28	2	SE	221	45°40'23"N	07°22'43"E	Lago Gelato	2840	3000	14	112500	S	450	250
28	3	NW	222	45°49'30"N	07°01'00"E		2400	2500	34	36000	N	240	150
28	3	NW	223	45°47'45"N	07°01'20"E	Lac de Licony	2550	2850	30	156000	N	300	520
28	3	SW	224	45°41'35"N	06°30'30"E	M.Monchette	2500	2750	27	375000	NE	750	500
28	3	SW	225	45°42'00"N	06°59'00"E	M.Colmet	2575	2775	15	225000	NE	300	750
28	3	SW	226	45°43'20"N	07°00'15"E	Becca Pugnenta	2460	2650	41	99000	NW	450	220
28	3	SW	227	45°43'00"N	07°00'20"E	Passo di Ameran	2350	2480	15	250000	E	500	500
28	4	SW	228	45°47'06"N	07°16'00"E	Testa Bernarda	2050	2100	40	13200	N	220	60
28	4	SW	229	45°49'30"N	07°13'00"E	La Vachey 1	2470	2600	41	60000	NE	400	150
29	2	SE	230	45°44'02"N	07°49'34"E		2175	2240	28	8400	NNE	70	120
29	2	SE	231	45°43'06"N	07°49'01"E		2675	2725	11	40000	NNW	160	250
29	2	SW	232				2175	2240	28	8000	NNE	70	120
29	2	SW	233				2675	2725	11	30000	NNW	160	250
29	3	SW	234	45°41'49"N	07°31'55"E		2050	2100	16	28800	WNW	160	180
29	3	SW	235	45°49'33"N	07°42'35"E		2075	2150	16	24300	NNE	90	270

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
inactive	valley	metamorphic	moraines	below meadows line	1	0	0	0	0	0	1
uncertain activity	furrow	metamorphic	moraines	below treeline	0	1	0	0	0	1	0
uncertain activity	slope	metamorphic	moraines	above	0	0	1	1	0	0	0
uncertain activity	slope	metamorphic	snowbank	above	0	1	0	0	0	0	1
active	slope	metamorphic		above	1	0	0	0	0	0	0
inactive	slope	metamorphic	moraines	below meadows line	0	0	1	1	0	0	0
uncertain activity	slope	metamorphic	snowbank	below meadows line	0	1	0	0	0	0	1
inactive	slope	metamorphic	glacierets	above	0	0	1	1	1	0	0
inactive	valley	metamorphic	moraines	below treeline	1	0	0	1	0	0	1
active	slope	metamorphic		below meadows line	0	0	0	0	0	1	0
active	slope	metamorphic		below meadows line	0	0	0	1	0	1	0
active	slope	metamorphic		below meadows line	0	1	0	1	1	0	1
active	slope	metamorphic	snowbank	below treeline	0	1	0	0	0	0	0
active	cirque	metamorphic		below meadows line	1	0	1	1	0	0	0
active	slope	metamorphic	glacierets	below meadows line	0	1	0	1	1	0	0
active	slope	metamorphic		below meadows line	0	0	0	0	0	1	0
inactive	slope	metamorphic		above	0	0	1	1	1	0	0
inactive	slope	metamorphic	moraines	below treeline	0	1	0	0	0	0	0
active	slope	metamorphic	snowbank	above	0	1	1	0	0	0	0
inactive	slope	metamorphic	moraines	above	0	1	0	0	0	0	0
inactive	slope	metamorphic	moraines	below meadows line	0	0	1	0	0	0	0
inactive	valley	metamorphic	moraines	below meadows line	0	0	0	1	0	0	0
inactive	slope	metamorphic	moraines	above	0	0	0	1	1	0	0
inactive	valley	metamorphic	moraines	above	0	0	0	1	0	0	1
inactive	slope	metamorphic	moraines	above	0	1	0	0	0	0	0
active		volcanites	glacier		0	0	1	0	0	0	0
active	slope	metamorphic		above	0	0	0	1	0	1	0
active	slope	metamorphic	snowbank	above	0	1	0	0	0	0	1
active	slope	metamorphic	snowbank	below meadows line	0	0	0	0	0	0	0
active	slope	metamorphic	glacier	above	0	0	1	0	0	0	0
active	slope	metamorphic	snowbank	below meadows line	0	0	0	0	0	0	0
inactive	slope	metamorphic	moraines	below meadows line	0	1	0	0	1	0	1
active	slope	metamorphic	snowbank	above	1	0	0	0	0	1	0
uncertain activity	cirque	metamorphic	snowbank	above	0	1	0	1	1	1	0
uncertain activity	valley	metamorphic	snowbank	above	0	1	1	1	0	1	1
active	slope	metamorphic	snowbank	above	0	0	0	1	1	0	0
uncertain activity	cirque	metamorphic	moraines	below meadows line	0	1	0	0	0	0	0
active	slope	metamorphic	snowbank	above	0	1	0	1	0	1	0
active	slope	metamorphic	snowbank	above	0	1	1	0	0	1	0
active	cirque	metamorphic	glacierets	above	0	0	1	0	0	1	0
uncertain activity	cirque	metamorphic	snowbank	above	0	0	0	1	0	0	1
inactive	slope	metamorphic	moraines	below meadows line	0	1	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	0	0	0	0	0
uncertain activity	cirque	metamorphic		above	0	0	0	0	0	1	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	1	1
inactive	slope	metamorphic		below treeline	0	1	1	1	0	0	1

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
28	1	SE	236	45°51'15"N	07°20'45"E	Plan Mule	2305	2400	24	52500	S	250	210
28	1	SE	237	45°52'40"N	07°20'35"E	Lago Benseya	2500	2650	18	76500	N	170	450
28	1	SE	238	45°51'40"N	07°20'20"E	Colle Berzio	2750	2875	14	125000	S	250	500
28	1	SE	239	45°51'35"N	07°21'00"E	Colle Berzio 2	2575	2700	23	67500	S	225	300
28	1	SE	240	45°52'05"N	07°19'45"E	Lago dell'Inciouusa	2450	2500	22	21875	N	175	125
28	1	SE	241	45°53'00"N	07°25'00"E	Berrie	2200	2300	23	24000	S	100	240
28	1	SE	242	45°53'05"N	07°22'55"E	La Vierge	2550	2675	17	63000	S	150	420
28	1	SW	243	45°53'30"N	07°19'00"E	Lago di By	2185	2400	30	140625	NW	375	375
28	1	SW	244	45°50'30"N	07°16'40"E	Crouse de Bleints	2170	2300	15	87500	E	175	500
28	1	SW	245	45°53'20"N	07°17'50"E	Conca di By	2225	2500	43	72000	E	240	300
28	1	SW	246	45°51'30"N	07°16'50"E	Ansermin	2150	2250	30	30625	N	175	175
28	1	SW	236	45°50'45"N	07°16'00"E	Crouse de Bleints	2350	2600	29	202500	NE	450	450
28	1	SW	237	45°51'15"N	07°15'40"E	Col Champillon	2450	2725	33	127500	E	300	425
28	1	SW	238	45°51'05"N	07°13'00"E	Pointes de M.	2380	2500	35	102000	N	600	170
28	2	NE	239	45°47'00"N	07°20'40"E	Becca de Roisan	2100	2225	21	26000	N	80	325
28	2	NE	240	45°48'30"N	07°22'30"E	Becca Noail	2300	2400	22	37500	N	150	250
28	2	NE	241	45°48'55"N	07°23'00"E	Gran Verzignola	2100	2275	27	42000	NE	120	350
28	2	NE	242	45°50'00"N	07°25'30"E	Colle di Chaz Seche 1	2300	2400	18	45000		150	300
28	2	NE	243	45°49'55"N	07°25'30"E	Colle di Chaz Seche 2	2300	2400	29	30625	N	150	180
28	2	NE	244	45°49'30"N	07°25'40"E	Colle di Vamea	2380	2450	11	75900	E	220	345
28	2	NE	245	45°49'15"N	07°25'30"E	Pte de Verdona 1	2640	2590	11	55000	N	220	250
28	2	NE	246	45°48'50"N	07°26'10"E	Alp Valchourda	2480	2620	32	24200	W	110	220
28	2	NE	247	45°48'40"N	07°25'20"E	Alp Seyvaz	2350	2440	31	33750	N	225	150
28	2	NE	248	45°49'00"N	07°25'00"E	Pte de Verdona 2	2600	2650	21	7800	N	60	130
28	2	NE	249	45°49'05"N	07°24'55"E	Col de St Barthélémy	2450	2560	27	19800	N	90	220
28	2	NE	250	45°49'25"N	07°24'50"E	La Gran Coutà 1	2475	2500	27	5500	S	110	50
28	2	NE	251	45°49'40"N	07°25'15"E	La Gran Coutà 2	2580	2650	24	28800	NW	180	160
28	2	NE	252	45°49'30"N	07°24'55"E	La Gran Coutà 3	2575	2825	66	13200	N	120	110
28	2	NE	253	45°49'50"N	07°25'00"E	Pte de Vamea 1	2480	2500	24	3600	N	80	45
28	2	NE	254	45°49'55"N	07°24'45"E	Pte de Vamea 2	2400	2465	26	10125	W	75	135
28	2	NE	255	45°48'00"N	07°20'50"E	Becca de Roisan	2200	2300	40	9000	N	75	120
28	2	NE	256	45°47'45"N	07°21'00"E	Becca di Viou	2300	2400	15	33300	NE	90	370
28	4	SE	257	45°53'00"N	07°04'10"E	Guglia Angronietto 1	2540	2660	27	31200	N	130	240
28	4	SE	258	45°52'00"N	07°05'10"E	Guglia Angronietto 2	2420	2500	21	58800	N	280	210
28	4	SE	259	45°50'10"N	07°05'50"E	Pointe d'Entremont	2470	2600	28	55200	N	230	240
28	4	SE	260	45°51'20"N	07°07'10"E	Comba des Thoules	2595	2750	34	172500	NE	750	230
28	4	SE	261	45°51'30"N	07°11'11"E	Barasson	2410	2500	21	36800	S	160	230
29	1	SE	262	45°52'22"N	07°52'00"E	Corno del Camoscio	2850	2900	36	7935	NNW	115	69
29	1	SE	263	45°52'04"N	07°51'50"E	Corno Rosso	2725	2800	16	62100	W	230	270
29	1	SE	264	45°51'39"N	07°51'29"E		2500	2570	32	19800	NNW	180	110
29	1	SE	265	45°51'55"N	07°51'40"E		2650	2750	20	126960	NNW	460	276
29	1	SE	266	45°51'32"N	07°52'09"E	Passo Zube	2725	2800	25	37030	E	230	161
29	1	SE	267	45°51'21"N	07°49'46"E		2000	2100	27	184000	N	920	200
29	1	SE	268	45°51'23"N	07°50'10"E		1925	2050	18	80730	NNW	207	390
29	1	SE	269	45°51'09"N	07°50'31"E		2325	2400	12	317400	N	920	345
29	1	SE	270	45°50'59"N	07°51'10"E		2250	2265	7	31625	NNW	275	115
29	1	SE	271	45°51'02"N	07°51'16"E		2370	2450	30	47610	NNW	345	138
29	1	SE	272	45°50'31"N	07°51'38"E		2820	2900	10	124200	NW	270	460
29	1	SE	273	45°52'55"N	07°49'40"E		2620	2720	34	18000	NW	120	150
29	1	SE	274	45°51'00"N	07°51'10"E		2367	2410	23	30000	NW	300	100
29	1	SE	275			Corno Rosso	2675	2800	30	92400	W	420	220
29	1	SE	276	45°51'30"N	07°49'50"E		2610	2850	16	110500	NW	130	850
29	1	SE	277	45°51'25"N	07°50'20"E		2010	2200	32	180000	N	600	300
29	1	SE	278	45°51'15"N	07°50'40"E		2060	2110	18	22500	NW	150	150
29	1	SE	279	45°51'06"N	07°50'50"E		2250	2400	21	300000	N	750	400
29	1	SE	280				2370	2425	20	17250	NW	115	150
29	1	SW	281	45°53'23"N	07°48'00"E		3050	3120	11	79350	SW	230	345
29	1	SW	282	45°53'08"N	07°46'22"E		2450	2500	24	7935	NW	69	115
29	1	SW	283	45°53'01"N	07°45'12"E		2450	2500	36	7935	W	115	69
29	1	SW	284	45°52'49"N	07°47'01"E		2820	2900	10	105800	SSW	230	460
29	1	SW	285	45°52'34"N	07°45'04"E		2450	2600	27	40664	SW	136	299
29	1	SW	286	45°52'07"N	07°48'09"E		2250	2350	24	48300	NNE	210	230
29	1	SW	287	45°51'41"N	07°45'46"E		2340	2400	21	91200	N	570	160
29	1	SW	288	45°51'07"N	07°46'51"E		2575	2700	11	175500	SW	270	650
29	1	SW	289	45°50'56"N	07°46'46"E		2550	2600	8	234600	N	690	340
29	1	SW	290	45°51'13"N	07°49'03"E		1780	1900	19	132600	WNW	390	340
29	1	SW	291	45°50'29"N	07°45'02"E		2280	2910	82	6300	NNW	70	90
29	1	SW	292	45°50'27"N	07°45'30"E		2350			224000	N	1600	140
29	1	SW	293				2325	2525	18	108000	SW	180	600
29	1	SW	294	45°53'25"N	07°47'00"E		2870	3170	28	131100	W	230	570



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
29	1	SW	295	45°52'50"N	07°46'55"E		2720	3000	17	180000	S	200	900
29	1	SW	296	45°52'30"N	07°46'50"E		2790	2900	22	162000	NW	600	270
29	1	SW	297	45°52'20"N	07°47'25"E		2670	2780	33	52700	NE	310	170
29	1	SW	298			M. Rothom	2700	2775	34	6600	NE	60	110
29	1	SW	299	45°52'05"N	07°46'38"E		2350	2550	39	142500	NW	570	250
29	1	SW	300	45°49'00"N	07°42'00"E		2340	2460	37	30400	N	190	160
29	1	SW	301	45°52'10"N	07°47'30"E		2320	2550	25	150000	NE	300	500
29	1	SW	302	45°51'00"N	07°46'40"E		2250	2500	45	343750	NW	1375	250
29	1	SW	303	45°51'45"N	07°46'40"E		2340	2410	25	45000	N	300	150
29	1	SW	304	45°52'05"N	07°46'40"E		2510	2710	18	108000	NW	180	600
29	2	NW	305	46°46'28"N	07°47'32"E		2450	2500	24	5175	W	45	115
29	2	NW	306	45°47'40"N	07°46'41"E		2650	2700	12	36800	E	160	230
29	2	NW	307	45°47'53"N	07°47'12"E		2800	2900	36	35000	S	250	140
29	2	NW	308	45°47'56"N	07°43'19"E		2600	2700	41	65550	W	570	115
29	2	NW	309	45°48'04"N	07°43'45"E		2600	2700	24	52900	NNW	230	230
29	2	NW	310	45°48'15"N	07°43'39"E		2470	2570	18	54000	W	180	300
29	2	NW	311	45°48'28"N	07°47'58"E		2400	2450	16	25200	E	140	180
29	2	NW	312	45°48'30"N	07°47'19"E	P. di Punta Mascognaz	2700	2800	20	48600	NNE	180	270
29	2	NW	313	45°48'35"N	07°45'30"E		2400	2500	20	35100	W	130	270
29	2	NW	314	45°48'48"N	07°46'44"E		2700	2850	24	132600	NNE	390	340
29	2	NW	315	45°48'45"N	07°45'31"E		2400	2450	29	6300	NNW	70	90
29	2	NW	316	45°48'58"N	07°45'01"E		2300	2370	15	37800	NNE	140	270
29	2	NW	317	45°48'55"N	07°47'52"E		2320	2400	30	22400	E	160	140
29	2	NW	318	45°58'40"N	07°46'40"E		2692	2800	9	144900	N	210	690
29	2	NW	319	45°48'08"N	07°43'50"E		2500	2650	36	33600	NW	160	210
29	2	NW	320				2700	2850	56	25000	N	80	100
29	2	NE	321	45°50'00"N	07°52'00"E	Punta dell'Uomo Storto	2600	2750	27	90000	NW	300	300
29	2	NE	322	45°46'21"N	07°55'01"E	Punta del Cortese	2350	2400	12	50400	NNW	210	240
29	2	NE	323	45°47'33"N	07°51'23"E	Cima Valdobbia	2520	2600	17	62100	NNW	230	270
29	2	NE	324	45°45'49"N	07°51'02"E	Punta Rosso	2400	2500	28	26600	E	140	190
29	2	NE	325	45°49'25"N	07°49'14"E		2025	2075	6	108000	SW	240	450
29	2	NE	326	45°49'05"N	07°50'50"E		2050	2100	23	54000	N	450	120
29	3	NW	327	45°49'40"N	07°30'00"E	M. Morion 1	2455	2525	25	9000	N	60	150
29	3	NW	328	45°49'30"N	07°29'50"E	M. Morion 2	2430	2500	30	9000	N	75	120
29	3	NW	329				2075	2150	16	20000	NNE	90	270
29	3	NW	330	45°49'45"N	07°30'10"E	M. Morion 3	2425	2500	27	10500	N	70	150
29	3	NE	331				2450	2550	24	15000	NNW	70	230
29	3	NE	332	45°47'44"N	07°39'33"E	Cima 2580	2350	2450	24	82800	NNW	360	230
29	3	NE	333	45°48'41"N	07°39'23"E	M. Zerbion	2500	2550	17	25600	SSW	160	160
29	3	NE	334	45°48'38"N	07°38'58"E	Colle Tortola	2370	2450	8	131100	SW	230	570
29	3	NE	335	45°48'53"N	07°39'17"E	M. Tantanè 1	2550	2600	24	7700	SW	70	110
29	3	NE	336	45°49'04"N	07°39'47"E	M. Tantanè 2	2400	2500	24	138000	SE	600	230
29	3	NE	337	45°49'09"N	07°39'10"E	Colle Tantanè 1	2400	2500	38	9100	NNW	70	130
29	3	NE	338	45°49'10"N	07°38'58"E	Colle Tantanè 2	2450	2550	24	16100	NNW	70	230
29	3	NE	339	45°49'13"N	07°39'14"E	Colle Tantanè 3	2450	2550	24	78200	NNW	340	230
29	3	NE	340	45°49'32"N	07°39'26"E	A. Champlong 1	2500	2620	19	42000	SW	120	350
29	3	NE	341	45°49'41"N	07°38'48"E	A. Champlong 2	2350	2400	24	18400	NNW	160	115
29	3	NE	342	45°49'58"N	07°40'27"E	Cima 2779	2500	2600	16	115600	SE	340	340
29	3	NE	343	45°49'56"N	07°38'56"E	Les Corts	2320	2400	49	18900	SW	270	70
29	3	NE	344	45°48'50"N	07°38'20"E	M. Tantanè 4	2300	2450	36	52500	SW	250	210
29	3	NE	345	45°49'00"N	07°38'50"E	M. Tantanè 5	2550	2650	32	9600	SW	60	160
29	3	NE	346	45°49'58"N	07°38'55"E	A. Champlong 3	2320	2350	9	12600	SW	70	180
29	3	NE	347	45°49'52"N	07°39'25"E	A. Champlong 4	2350	2600	31	126000	N	300	420
29	3	NE	348	45°40'00"N	07°39'00"E	A. Champlong 5	2350	2500	21	52650	W	135	390
29	3	NE	349	45°49'15"N	07°39'00"E	Quota 2734	2350	2575	24	153000	N	300	510
29	3	NE	350	45°49'15"N	07°38'40"E	A. Champlong 6	2285	2325	27	30000	N	375	80
29	4	NE	351	45°55'15"N	07°44'41"E		2675	2800	12	180000	NNW	300	600
29	4	NE	352	45°55'50"N	04°47'10"E	Cimes Blanches	2640	2850	19	180000	NW	300	600
29	4	SE	353	45°50'05"N	07°39'12"E		2270	2320	21	29900	N	230	130
29	4	SE	354	45°52'13"N	07°39'16"E	M. Molar	2400	2500	15	110032	SSE	299	368
29	4	SE	355	45°54'23"N	07°39'10"E	Grand Collet	2450	2500	29	10580	SE	115	92
29	4	SE	356	45°54'36"N	07°38'10"E	Motta di Plete' 1	2370	2425	10	61893	E	207	299
29	4	SE	357	45°50'14"N	07°39'30"E	Becca Trecare	2200	2370	34	112500	NW	450	250
29	4	SE	358	45°50'44"N	07°40'57"E	Bec de Nana 1	2800	2900	13	225000	N	500	450
29	4	SE	359	45°50'43"N	07°35'05"E	Clonge	2225	2250	20	11109	SW	161	69
29	4	SE	360	45°50'56"N	07°40'51"E	Bec de Nana 2	2750	2850	13	153000	NNW	340	450
29	4	SE	361	45°51'19"N	07°39'12"E	A. Champsec	2300	2400	24	62100	NNW	270	230
29	4	SE	362	45°50'52"N	07°35'52"E	Pian de Ersa	2220	2250	9	23400	W	130	180
29	4	SE	363	45°51'38"N	07°40'37"E	Col de Nana 1	2700	2800	13	202500	NNW	450	450
29	4	SE	364	45°51'36"N	07°40'27"E	Col de Nana 2	2700	2750	20	22400	NNW	160	140
29	4	SE	365	45°53'47"N	07°39'58"E	M. Molar	2420	2450	7	31280	NNW	136	230



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
29	4	SE	366	45°52'26"N	07°35'48"E	Rifugio Barmasse	2000	2075	9	202500	SE	450	450
29	4	SE	367	45°54'40"N	07°38'20"E	Motta di Pletè 1	2450	2525	37	19000	S	190	100
29	4	SE	368	45°50'30"N	07°40'10"E	Vallone di Champois	2550	2625	14	36000	W	120	300
29	4	SE	369	45°50'40"N	07°40'40"E	Bec de Nana 3	2730	2870	34	46200	W	220	210
29	4	SE	370	45°50'55"N	07°40'58"E	Bec de Nana 4	2830	2880	18	19500	NW	130	150
29	4	SE	371	45°51'30"N	07°41'58"E	Becca Trecare	2700	2800	24	48400	NW	220	220
29	4	SE	372	45°51'15"N	07°38'10"E	Pta Fontana Fredda	2400	2475	32	10800	NE	90	120
29	4	SE	373	45°50'02"N	07°39'30"E	Le Grand Dent	2320	2400	27	28800	N	180	160
29	4	SE	374	45°50'05"N	07°39'12"E		2270	2320	15	43700	N	230	190
29	4	SE	375	45°50'03"N	07°38'44"E	Chamois	2250	2300	21	44200	SW	340	130
29	4	SW	376	45°50'15"N	07°28'40"E	Becca Fontaney	2700	2830	28	120000	NE	500	240
29	4	SW	377	45°51'15"N	07°32'15"E	Cima Bianca	2650	2775	32	24000	E	120	200
29	4	SW	378	45°52'00"N	07°34'00"E	M. Ersa	2400	2475	19	81400	W	370	220
29	4	SW	379	45°51'10"N	07°32'35"E	Erbion	2550	2675	32	50000	NE	250	200
29	4	SW	380	45°50'20"N	07°31'55"E	M.Miracolo	2375	2550	37	81880	E	356	230
29	4	SW	381	45°50'30"N	07°31'15"E	Chaz de Vayoux	2375	2500	32	54000	E	270	200
29	4	SW	382	45°51'30"N	07°30'00"E	A. Luseney	2675	2690	7	31250	NE	250	125
29	4	SW	383	45°50'50"N	07°28'45"E	Col de Cuney	2675	2850	30	114000	N	380	300
29	4	SW	384	45°51'00"N	07°29'00"E	Col Montagnaya	2800	2880	17	67500	NW	250	270
29	4	SW	385	45°51'45"N	07°30'00"E	Lago Luseney	2574	2900	22	296000	E	370	800
29	4	SW	386	45°52'15"N	07°31'30"E	Colle Livournea 1	2850	2975	32	30000	S	150	200
29	4	SW	387	45°52'15"N	07°31'30"E	Colle Livournea 2	2750	2875	45	46250	SE	370	125
29	4	SW	388	45°52'20"N	07°30'55"E	Colle Livournea 3	2760	2850	31	31500	NW	210	150
29	4	SW	389	45°52'45"N	07°30'30"E	Cima Livournea	2525	2700	25	65625	N	175	375
29	4	SW	390	45°52'40"N	07°27'30"E	Becca de Rayes Planes	2050	2150	53	9000	N	120	75
29	4	SW	391	45°52'00"N	07°31'30"E	Pta des Grottes	2740	2825	26	43750	W	250	175
29	4	SW	392	45°52'15"N	07°31'30"E	Colle Livournea 4	2800	2900	30	56875	W	325	175
29	4	SW	393	45°52'25"N	07°31'55"E	Pta Chavacour	2810	2950	18	74375	W	175	425
29	4	SW	394	45°53'10"N	07°31'15"E	Pta Chanoux	2800	2950	27	30000	W	100	300
29	4	SW	395	45°53'20"N	07°30'30"E	Lago di Livournea	2375	2475	22	62500	W	250	250
29	4	SW	396	45°55'20"N	07°28'45"E	Lac Mort	2880	3000	15	161000	E	350	460
29	4	SW	397	45°53'40"N	07°33'30"E	Cime di Balanselmo	2825	3050	27	139500	SE	310	450
29	4	SW	398	45°54'09"N	07°31'15"E	Le Loudro	2300	2400	24	37030	NNW	161	230
29	4	SW	399	45°53'40"N	07°31'16"E	M. Arpetta	2425	2525	24	84640	NNW	368	230
29	4	SW	400	45°53'00"N	07°34'28"E	Becca di Sale	2550	2600	12	37030	NNE	161	230
29	4	SW	401	45°52'00"N	07°34'22"E	M. Ersa	2425	2500	18	105800	W	460	230
29	4	SW	402	45°51'26"N	07°30'25"E	Cima Bianca	2600	2720	28	16100	NNE	70	230
29	4	SW	403	45°00'00"N	07°31'42"E	Chaz de Champaugne	2700	2800	18	21000	SSW	70	300
29	4	SW	404	45°50'19"N	07°31'44"E	M. Miracolo	2450	2550	18	42000	S	140	300
30	3	NW	405	46°47'15"N	07°58'50"E		1660	1850	18	120000	N	200	600
30	3	NW	406	45°43'00"N	07°57'45"E		2500	2280	-29	40000	N	100	400
30	3	SW	407	45°43'30"N	08°00'00"E		1900	2000	27	20000	W	100	200
30	3	SW	408	45°44'35"N	07°58'00"E		1850	2100	32	80000	N	200	400
30	4	NW	409	45°59'00"N	08°01'00"E		1940	2400	24	210000	E	200	1050
30	4	SW	410	45°54'30"N	08°00'30"E		2000	2600	31	300000	E	300	1000
30	4	SW	411	45°54'06"N	08°00'20"E		1900	2300	39	150000	NNE	300	500
30	4	SW	412	45°48'20"N	07°58'11"E		2200	2400	30	70000	NNE	200	350
30	4	SW	413	45°54'15"N	07°57'45"E		2400	2600	39	25000	N	100	250
15	3	SW	414	46°04'10"N	08°05'10"E	Pzo Bottarello 1	2500	2700	34	150000	N	500	300
15	3	SW	415	46°04'30"N	08°02'10"E	Pzo Bottarello 2	2600	2900	41	87500	N	250	350
15	3	SW	416	46°01'45"N	08°01'10"E	Pzo Bottarello 3	2675	2900	24	50000	NE	100	500
15	3	SW	417	46°01'30"N	08°01'11"E	Pzo Bottarello 4	2850	3050	34	45000	NE	150	300
15	3	SW	418	46°02'10"N	08°02'10"E	Pzo Bottarello 5	2350	2475	23	30000	SE	100	300
15	3	SW	419	46°00'00"N	08°00'55"E	Pzo Bottarello 6	2300	2450	37	60000	S	300	200
15	3	SW	420	46°00'30"N	08°04'25"E	Pzo Bottarello 7	2350	2550	34	60000	NNE	200	300
15	3	SW	421	46°00'30"N	08°04'10"E	Pzo Bottarello 8	2325	2550	29	60000	NNE	150	400

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
inactive	slope	metamorphic		below treeline	1	0	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	0	0	0	0	1
uncertain activity	slope	metamorphic		below meadows line	0	0	0	0	0	0	1
uncertain activity	slope	metamorphic		below meadows line	0	0	0	0	0	0	1
uncertain activity	cirque	metamorphic	snowbank	below meadows line	0	0	0	0	0	1	0
active	cirque	metamorphic		below meadows line	0	1	0	1	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	1
active	cirque	metamorphic	snowbank	above	1	1	1	1	0	1	0
active	slope	metamorphic		above	0	0	0	1	0	1	0
inactive	valley	metamorphic		below meadows line	0	0	0	1	0	0	1
uncertain activity	slope	metamorphic		below meadows line	0	1	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	0	0	0	0	1
uncertain activity	cirque	metamorphic		below meadows line	1	0	0	0	0	0	0
active	cirque	metamorphic	snowbank	above	0	0	0	0	0	1	0
active	cirque	metamorphic		above	1	0	0	1	0	1	0
active	cirque	metamorphic	snowbank	above	0	0	0	1	0	0	0
active	cirque	metamorphic		above	0	0	0	1	0	0	0
active	cirque	metamorphic	snowbank	above	0	0	0	1	0	0	0
active	cirque	metamorphic		above	0	0	0	1	0	0	0
uncertain activity	cirque	metamorphic	snowbank	above	0	0	0	1	1	1	0
inactive	slope	metamorphic		below treeline	0	0	0	0	0	0	0
active	cirque	metamorphic		above	0	0	0	0	0	1	0
active	cirque	metamorphic	snowbank	above	0	1	0	1	0	1	0
active	cirque	metamorphic		above	0	1	0	1	1	1	0
active	cirque	metamorphic	snowbank	above	0	0	0	1	0	1	0
inactive	cirque	metamorphic		above	1	0	0	0	0	0	0
active	cirque	metamorphic	snowbank	above	0	1	0	1	0	1	0
active	cirque	metamorphic		above	0	1	0	1	0	1	0
uncertain activity	slope	metamorphic	snowbank	below meadows line	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	0	0	0	0	1
uncertain activity	slope	plutonites	snowbank	above	0	1	1	1	1	0	0
inactive	slope	metamorphic		above	0	1	1	1	0	0	1
uncertain activity	slope	plutonites	snowbank	above	0	1	0	0	0	0	1
uncertain activity	slope	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	metamorphic	snowbank	below meadows line	0	1	1	1	0	0	1
active	slope	metamorphic		above	0	0	1	1	1	0	0
inactive	furrow	metamorphic		above	0	0	1	1	1	1	0
active	slope	metamorphic		above	0	0	1	1	1	0	0
active	slope	metamorphic		below treeline	0	0	1	1	1	1	0
active	slope	metamorphic		below treeline	0	0	1	1	1	1	0
active	slope	metamorphic		above	0	0	1	1	0	0	0
active	slope	metamorphic		below treeline	0	0	1	0	1	0	0
active	slope	metamorphic		below treeline	1	0	1	1	1	0	0
complex	slope	metamorphic		above	0	0	1	0	1	0	0
uncertain activity	slope	metamorphic	glacier	above	0	1	1	0	1	0	0
uncertain activity	slope	metamorphic		above	0	1	1	0	1	0	0
uncertain activity	slope	metamorphic	glacier	below meadows line	0	0	1	1	0	0	0
uncertain activity	slope	metamorphic		above	0	1	1	0	1	0	0
uncertain activity	slope	metamorphic		below treeline	0	0	1	1	0	0	0
inactive	slope	metamorphic		below treeline	0	0	0	0	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
uncertain activity	slope	metamorphic		above	0	0	1	1	0	0	0
uncertain activity	slope	metamorphic		above	0	0	1	1	0	0	0

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length	Classification
15	1	NW	422	46°20'00"N	08°15'40"E		2100	2300	34	120000	SW	400	300	inactive
15	1	NW	423	46°18'10"N	08°19'10"E		1800	2100	37	200000	N	500	400	inactive
15	1	NW	424	46°19'30"N	08°18'10"E		2050	2500	29	160000	W	200	800	inactive
15	1	NE	425	46°19'50"N	08°26'55"E		2375	2600	33	52500	N	150	350	uncertain activity
15	1	NE	426	46°17'30"N	08°24'40"E		2300	2500	20	165000	S	300	550	inactive
15	1	NE	427	46°17'15"N	08°24'10"E		2400	2600	34	30000	NE	100	300	inactive
15	1	NE	428	46°16'45"N	08°24'10"E		2400	2600	22	100000	SE	200	500	inactive
15	1	NE	429	46°16'57"N	08°24'40"E		2350	2500	27	45000	E	150	300	inactive
15	1	NE	430	46°15'05"N	08°23'55"E		2100	2350	23	120000	NW	200	600	inactive
15	1	NE	431	46°15'15"N	08°25'10"E		2025	2250	37	315000	N	1050	300	inactive
15	1	NE	432	46°15'00"N	08°24'40"E		2150	2300	17	150000	SSE	300	500	inactive
15	1	SE	433	46°11'51"N	08°26'11"E	Valle dell'Isomo	2050	2150	45	10000	NE	100	100	inactive
15	1	SW	434	46°11'00"N	08°10'30"E		2000	2200	34	30000	N	100	300	inactive
15	1	SW	435	46°10'55"N	08°11'30"E		2225	2300	37	20000	SSW	200	100	inactive
15	1	SW	436	46°10'50"N	08°11'45"E		2100	2300	27	80000	E	200	400	inactive
15	1	SW	437	46°10'06"N	08°09'30"E		1850	2300	24	300000	S	300	1000	inactive
15	1	SW	438	46°10'30"N	08°11'30"E		2060	2250	18	180000	S	300	600	inactive
15	1	SW	439	46°11'20"N	08°10'10"E		1800	2000	45	60000	NNW	300	200	inactive
15	1	SW	440	46°10'40"N	08°09'15"E		1550	1900	41	80000	NW	200	400	inactive
15	2	NW	441	46°09'45"N	08°26'08"E	Trontano	1770	1900	33	70000	N	350	200	inactive
15	3	NE	442	46°09'20"N	08°10'11"E		1900	2200	21	280000		350	800	inactive
15	3	NE	443	46°09'10"N	08°09'30"E		2050	2150	13	90000	N	200	450	inactive
15	3	NE	444	46°08'06"N	08°07'30"E		2350	2475	13	550000	S	1000	550	inactive
15	3	NE	445	46°09'40"N	08°09'15"E		2100	2375	25	120000	E	200	600	inactive
15	3	NE	446	46°07'45"N	08°08'43"E		1925	2300	17	360000	S	300	1200	inactive
15	3	NE	447	46°08'20"N	08°10'15"E		2000	2400	23	570000	E	600	950	inactive
15	3	NE	448	46°08'30"N	08°10'11"E		2095	2300	18	292500	S	450	650	inactive
15	3	NE	449	46°09'06"N	08°10'30"E		1900	2000	9	240000	NE	400	600	inactive
15	3	SE	450	46°02'00"N	08°05'30"E		2050	2250	34	120000	N	400	300	inactive
15	3	SE	451	46°05'06"N	08°04'41"E		2000	2300	17	200000	NNW	200	1000	active
15	3	SE	452	46°00'40"N	08°06'00"E		1725	2000	29	100000	NE	200	500	inactive
15	4	NE	453	46°17'00"N	08°09'40"E	Cima 2600	2250	2400	17	100000	SE	200	500	inactive
15	4	NE	454	46°16'30"N	08°07'10"E		2050	2200	18	112500	SE	250	450	inactive
15	4	NE	455	46°16'00"N	08°07'40"E		1850	2100	23	120000	N	200	600	inactive
15	4	NE	456	46°17'00"N	08°09'10"E	Cima 2800	2400	2700	27	180000	W	300	600	uncertain activity
15	4	NE	457	46°17'45"N	08°09'10"E		2500	2800	27	300000	W	500	600	uncertain activity
15	4	SE	458	46°13'55"N	08°08'11"E		2450	2550	16	70000	NNW	200	350	uncertain activity
15	4	SE	459	46°13'20"N	08°09'30"E		2100	2300	27	120000	N	300	400	inactive
15	4	SE	460	46°13'00"N	08°09'00"E		2250	2300	9	90000	SSE	300	300	inactive
15	4	SE	461	46°13'00"N	08°08'30"E		2100	2400	27	180000	S	300	600	inactive
5	2	NE	462	46°26'00"N	08°26'40"E		2275	2450	41	120000	W	600	200	active
5	2	NE	463	46°25'00"N	08°21'40"E		2400	2600	27	400000	N	1000	400	uncertain activity
5	2	SE	464	46°22'00"N	08°20'10"E		2475	2650	35	100000	S	400	250	inactive
5	2	SE	465	46°21'30"N	08°19'20"E		2500	2700	22	250000	E	500	500	uncertain activity
5	2	SE	466	46°20'40"N	08°20'10"E		2550	2630	15	60000		200	300	inactive
5	2	SE	467	46°21'00"N	08°20'10"E		2560	2600	11	80000	SW	400	200	uncertain activity
5	2	SE	468	46°22'30"N	08°20'40"E		2450	2750	31	100000	NE	200	500	uncertain activity
5	2	SE	469	46°23'15"N	08°20'25"E		2600	2700	18	30000	E	100	300	inactive
5	2	SE	470	46°23'30"N	08°21'10"E		2300	2500	22	50000	SE	100	500	inactive
5	2	SE	471	46°23'50"N	08°21'45"E		2875	2700	6	25000	E	100	250	uncertain activity
5	2	SE	472	46°21'40"N	08°22'40"E		2600	2700	45	30000	W	300	100	uncertain activity
5	2	SE	473	46°21'30"N	08°23'25"E		2700	2800	18	45000	E	150	300	uncertain activity
5	2	SE	474	46°22'30"N	08°27'50"E		2450	2600	21	240000	SW	600	400	inactive
5	2	SE	475	46°22'57"N	08°27'10"E		2350	2550	22	250000	SW	500	500	inactive
5	2	SE	476	46°21'00"N	08°27'10"E		2275	2550	35	240000	SW	600	400	inactive
5	2	SE	477	46°21'30"N	08°27'40"E		2425	2500	11	120000	SSW	300	400	uncertain activity
5	2	SE	478	46°20'50"N	08°27'40"E		2500	2700	27	80000	NW	200	400	uncertain activity
5	2	SW	479	46°21'30"N	08°18'10"E		2375	2600	48	20000	E	100	200	uncertain activity
5	2	SW	480	46°00'00"N	08°15'40"E		2000	2300	56	20000	SSW	100	200	inactive
5	2	SW	481	46°21'40"N	08°17'40"E		2125	2400	54	20000	E	100	200	inactive
5	2	SW	482	46°20'40"N	08°17'10"E		2300	2575	61	30000	E	200	150	inactive
5	2	SW	483	46°21'22"N	08°16'30"E		2400	2550	37	20000	SW	100	200	inactive
5	2	SW	484	46°25'00"N	08°27'10"E		2550	2650	27	60000	SW	300	200	inactive
5	3	NW	485	46°28'00"N	08°28'10"E		2200	2350	7	1200000	N	1000	1200	active
5	3	NW	486	46°25'30"N	09°33'40"E		2350	2525	27	70000	W	200	350	inactive
17	1	SW	487	46°14'00"N	09°26'35"E	Lago Cavrio	1960	2170	31	113750	S	325	350	inactive
17	1	SW	488	46°14'00"N	09°18'25"E	Pzo Rabbi	2080	2230	22	78750	SE	210	375	inactive
17	1	SW	489	46°12'34"N	09°17'10"E	M. Vusciolo	1825	1930	33	51200	N	320	160	inactive
17	1	SW	490	46°14'00"N	09°16'15"E	Cavrie	2030	2200	24	50625	S	135	375	inactive
17	1	NW	491	46°19'57"N	09°19'52"E	Il Pizzetto 2	1800	1950	31	125000	N	500	250	inactive
17	1	NW	492	46°17'54"N	09°24'03"E	Alpe Ala	1975	2130	22	42000	N	112	375	inactive
17	1	NW	493	46°19'25"N	09°19'40"E	M. Mater	2100	2300	16	315000	W	450	700	complex
17	1	NW	494	46°19'42"N	09°18'25"E	Il Piazzaccio	1900	2050	18	118750	NE	250	475	inactive



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
6	2	NE	495	46°25'08"N	09°22'40"E	La Colmenetta	2005	2530	17	1259250	NW	730	1725
6	2	NE	496	46°26'25"N	09°23'56"E	M. Mater 1	2750	2850	19	59500	E	170	350
6	2	NE	497	46°27'56"N	09°23'53"E	Pzo di E.	2625	2950	27	227500	NW	350	650
6	2	NE	498	46°28'00"N	09°24'10"E	Pta La Valletta	2110	2320	23	225000	W	450	500
6	2	NE	499	46°26'20"N	09°24'10"E	M. Mater	2365	2630	27	118125	W	225	525
6	2	NE	500	46°28'00"N	09°25'33"E	Pzo della Palu'	2480	2775	27	416875	SE	725	575
6	2	NE	501	46°26'15"N	09°23'40"E	Pta 2865	2350	2600	27	125000	SW	250	500
6	2	NE	502	46°29'26"N	09°21'46"E	Passo del Lago Nero	2150	2330	27	61250	W	175	350
6	2	SE	503	46°23'00"N	09°24'39"E	Pzo Stella 2	2330	2970	29	1121250	N	975	1150
6	2	SE	504	46°23'56"N	09°24'32"E	Lago di Angeloga	2030	2420	19	495000	NW	440	1125
6	2	SE	505	43°23'25"N	09°22'54"E	Cresta del Calcagnola	2090	2150	8	201875	N	475	425
6	2	SE	506	46°21'35"N	09°24'12"E	Pizzo Alto	2025	2120	21	47500	N	190	250
6	2	SE	507	46°21'53"N	09°26'0"E	Pzo Sonimavalle	2390	2600	29	131250	E	350	375
6	2	SE	508	46°21'42"N	09°27'02"E	Piangesca	2080	2180	13	117000	E	260	450
6	2	SE	509	46°21'57"N	09°26'08"E	Pzo Stella 1	2320	2550	24	196875	E	375	525
7	2	SE	510	46°20'07"N	09°53'58"E	Cime di Musella	2550	2670	15	99000	NNW	220	450
7	3	SW	511	46°21'34"N	09°28'18"E	Pzo del Turbine	2080	2400	17	288750	NW	275	1050
8	1	NW	512	46°35'45"N	10°12'20"E	Cima Paradiso	2600	2780	17	203000	NE	350	580
8	1	NW	513	46°36'30"N	10°12'20"E	Grasso del Larice	2200	2650	31	375000	NNE	500	750
8	1	SE	514	46°31'20"N	10°26'10"E	Giogo di S. Maria 2	2640	2850	37	28000	NW	100	280
8	1	SE	515	46°31'40"N	10°26'40"E	M. Scorluzzo	2650	2800	22	9000	N	600	380
8	1	SE	516	46°30'06"N	10°24'10"E	Cresta di Reit	2300	2700	28	731250	NNW	975	750
8	1	SE	517	46°31'35"N	10°26'24"E	M. Scorluzzo	2675	2875	28	93750	N	250	375
8	1	SE	518	46°32'00"N	10°25'29"E	Rese di Scorluzzo	2620	2700	14	56875	N	175	325
8	1	SE	519	46°30'00"N	10°24'10"E	Glandadura	2575	2710	13	72000	N	120	600
8	1	SE	520	46°32'14"N	10°22'56"E	M. Bradilio	2740	2920	19	120375	N	225	535
8	1	SE	521	46°32'00"N	10°25'30"E	Giogo di S. Maria 1	2580	2675	28	64800	S	360	180
8	1	SE	522	46°31'50"N	10°22'10"E	Piano di Pedenolo 1	2550	2750	30	297500	S	850	350
8	1	SE	523	46°31'55"N	10°23'56"E	Foppe della Mogenaccia	2520	2700	15	1069500	E	1550	690
8	1	SE	524	46°31'43"N	10°22'02"E	Piano di Pedenolo 2	2570	2725	20	338225	SW	815	415
8	1	SE	525	46°31'14"N	10°24'54"E	Filone del Mot 1	2475	2610	20	168750	NNW	450	375
8	1	SE	526	46°31'15"N	10°25'46"E	Filone del Mot 2	2650	2700	14	40000	N	200	200
8	1	SE	527	46°31'11"N	10°25'30"E	Filone del Mot 3	2640	2840	34	55500	N	185	300
8	1	SE	528	46°32'16"N	10°23'24"E	M. Bradilio	2640	2850	21	196000	N	350	560
8	1	SW	529	46°33'00"N	10°17'40"E	Val Paolaccia	2370	2520	29	30800	N	112	275
8	1	SW	530	46°31'06"N	10°13'20"E	Lago Nero	2480	2590	36	28050	N	187	150
8	1	SW	531	46°31'15"N	10°16'20"E	Cime di Platior 1	2425	2550	31	26350	N	135	210
8	1	SW	532	46°34'00"N	10°12'10"E	Pzo del Ferro	2450	2850	29	268125	NE	375	715
8	1	SW	533	46°30'13"N	10°13'40"E	Dosso Resaccio 2	2520	2650	35	41625	N	225	185
8	1	SW	534	46°31'00"N	10°16'10"E	Cime di Platior 2	2400	2750	43	53200	N	140	380
8	1	SW	535	46°30'20"N	10°13'55"E	Dosso Resaccio 3	2300	2550	14	463125	NW	475	975
8	1	SW	536	46°32'41"N	10°13'05"E	Valle Alpisella 1	2230	2450	24	105000	N	210	500
8	1	SW	537	46°32'50"N	10°12'30"E	Valle Alpisella 2	2350	2500	17	200000	NNE	400	400
8	1	SW	538	46°32'45"N	10°12'05"E	Valle Alpisella 3	2200	2400	22	125000	NNE	250	500
8	1	SW	539	46°34'30"N	10°13'00"E	Cima di Pra Grata	2460	2730	45	54000	N	200	270
8	1	SW	540	46°30'20"N	10°14'30"E	Dosso Resaccio 1	2550	2630	34	12000	N	100	120
8	2	NW	541	46°26'05"N	10°18'10"E	Corna di S. Colombano 1	2730	2900	14	236250	N	350	675
8	2	NW	542	46°25'18"N	10°13'40"E	Pzo di Selva 2	2570	2750	24	144200	NE	350	412
8	2	NW	543	46°28'17"N	10°12'20"E	M. Foscagno 2	2375	2820	22	646875	NE	575	1125
8	2	NW	544	46°30'10"N	10°14'00"E	Foscagno-Viola	2700	2850	18	90000	E	200	450
8	2	NW	545	46°25'30"N	10°13'10"E	Valle Dosde'	2510	2660	15	110000	E	200	550
8	2	NW	546	46°26'50"N	10°18'53"E	Corna di S. Colombano 2	2080	2370	38	294375	NNE	785	375
8	2	NW	547	46°25'17"N	10°15'20"E	Pizzo di Selva 3	2490	2680	25	110000	NW	275	400
8	2	NW	548	46°25'30"N	10°13'10"E	Lago di Verva	2550	2800	27	150000	W	300	500
8	2	NW	549	46°25'41"N	10°19'08"E	M. Rinaldi	2140	2250	20	36000	E	120	300
8	2	NW	550	46°28'13"N	10°12'40"E	M. Foscagno2	2500	2750	28	190000	N	400	475
8	2	NW	551	46°26'21"N	10°18'15"E	Corna di S. Colombano 3	2610	2840	23	96250	N	175	550
8	2	NW	552	46°25'25"N	10°13'10"E	Pzo di Selva 1	2620	2720	30	74375	N	425	175
8	2	NW	553	46°25'25"N	10°15'00"E	Val Verva	2370	2580	21	123750	W	225	550
8	2	NW	554	46°25'40"N	10°15'10"E	Corno di Verva	2340	2800	24	535500	W	510	1050
8	2	NW	555	46°30'00"N	10°13'05"E	Foscagno	2370	2820	17	652500	NE	450	1450
8	2	NE	556	46°25'00"N	10°23'55"E	Cresta di Reit	2325	2700	22	416250	N	450	925
8	2	NE	557	46°25'51"N	10°23'18"E	Grasso di Boccolina	2250	2450	17	195000	NNE	300	650
8	2	NE	558	46°25'40"N	10°24'16"E	Vallecetta	2100	2200	30	30625	W	175	175
8	2	NE	559	46°26'11"N	10°24'43"E	Grasso di Solena	2360	2520	22	146250	N	375	390
8	2	NE	560	46°25'00"N	10°27'02"E	B. di Cormogna	2150	2380	24	98175	N	187	525
8	2	SE	561	46°22'30"N	10°25'25"E	Valle Strabocalt	2450	2650	20	82500	S	150	550
8	2	SE	562	46°24'30"N	10°23'36"E	Passo Alpe Oultoir	2600	2700	27	30000	NNE	150	200
8	2	SE	563	46°21'52"N	10°24'22"E	Corno di Boero	2250	2800	23	2015000	SE	1550	1300
8	2	SE	564	46°24'43"N	10°25'48"E	I Campec	2200	2340	29	47500	NNE	190	250
8	2	SE	565	46°24'24"N	10°24'28"E	Lago della Lisa	2620	2840	15	148750	E	175	850

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Morphology						
					Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
active	slope	metamorphic		above	0	1	1	1	1	0	1
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	volcanic	moraines	above	0	1	1	1	1	0	0
inactive	slope	volcanic	moraines	below meadows line	0	1	0	0	0	1	1
inactive	furrow	metamorphic	moraines	above	0	0	1	1	0	0	0
inactive	cirque	metamorphic	moraines	below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	1	0	0	1	0	0	0
uncertain activity	slope	volcanic		below meadows line	0	1	1	1	1	0	0
active	cirque	metamorphic	glacierets	above	0	1	1	1	1	0	1
inactive	cirque	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	valley	metamorphic		above	0	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	1
uncertain activity	furrow	metamorphic		above	0	1	0	0	0	0	0
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
active	cirque	carbonatic	snowbank	above	0	1	1	1	1	0	0
active	slope	carbonatic			0	1	1	0	0	0	0
active	cirque	carbonatic	snowbank	above	0	0	1	1	1	0	0
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	furrow	carbonatic	snowbank	above	0	0	1	1	1	0	0
active	cirque	carbonatic	glacierets	above	1	1	1	1	0	0	0
active	slope	carbonatic		above	0	1	1	1	1	0	0
active	cirque	carbonatic	glacierets	above	0	1	1	1	1	0	0
inactive	slope	metamorphic	glacierets	above	0	1	1	1	1	0	0
inactive	valley	metamorphic		below meadows line	0	1	1	0	0	1	0
inactive	valley	metamorphic		above	0	0	0	1	0	0	0
inactive	valley	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	valley	carbonatic		below meadows line	1	1	0	1	0	0	1
uncertain activity	slope	metamorphic		below meadows line	1	1	1	1	0	0	1
uncertain activity	cirque	carbonatic	snowbank	above	0	0	0	0	0	0	0
uncertain activity	slope	carbonatic		above	0	0	0	1	1	0	0
complex	cirque	metamorphic	glacierets	above	0	1	0	1	0	0	1
active	slope	carbonatic	moraines	above	0	0	1	1	0	0	1
active	slope	metamorphic	moraines	above	0	0	1	1	0	0	0
active	cirque	carbonatic	snowbank	above	0	0	1	1	1	0	0
active	cirque	carbonatic	snowbank	above	0	1	1	1	1	0	0
active	slope	carbonatic		above	0	0	1	1	1	0	0
active	cirque	carbonatic	snowbank	above	0	1	1	1	1	0	0
active	cirque	carbonatic		above	0	1	1	1	1	0	0
active	valley	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	valley	carbonatic		below meadows line	0	1	0	1	0	0	1
inactive	slope	carbonatic		above	0	0	0	0	0	0	1
inactive	slope	carbonatic		above	0	0	0	1	0	0	1
uncertain activity	furrow	carbonatic		above	0	1	1	0	0	0	1
uncertain activity	cirque	metamorphic	snowbank	above	0	0	1	0	1	0	1
uncertain activity	cirque	metamorphic	snowbank	above	0	0	1	0	1	0	0
uncertain activity	slope	metamorphic		above	1	1	0	1	0	0	1
complex	cirque	metamorphic	moraines	above	0	1	1	1	1	1	0
complex	cirque	metamorphic	snowbank		0	1	1	1	1	1	1
active	cirque	carbonatic	glacierets	below meadows line	0	1	1	1	1	1	0
inactive	slope	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	slope	metamorphic		above	1	1	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	valley	plutonites		below treeline	0	0	0	1	0	0	0
inactive	slope	metamorphic		above	0	0	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	valley	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	slope	metamorphic		above	0	1	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	valley	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	slope	metamorphic		above	0	1	1	1	0	0	1

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Mimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
8	2	SE	566	46°24'29"N	10°24'40"E	Monteur	2650	2800	31	37500	NW	150	250
8	2	SE	567	46°23'26"N	10°24'40"E	Bocca di Profa	2570	2740	40	65000	W	325	200
8	2	SW	568	46°22'34"N	10°18'00"E	Cime Redasco 1	2435	2550	13	120000	NW	240	500
8	2	SW	569	46°21'54"N	10°17'00"E	Dosso dell'Oca 1	2390	2700	26	265625	NW	425	625
8	2	SW	570	46°21'57"N	10°18'23"E	Cima Rossa	2770	2830	21	72000	N	450	160
8	2	SW	571	46°21'34"N	10°18'31"E	Alpe Bredalon	2410	2650	47	140625	NE	625	225
8	2	SW	572	46°20'58"N	10°12'54"E	M. Alpisella 1	2585	2680	21	52500	N	210	250
8	2	SW	573	46°21'41"N	10°15'39"E	Cassavrolo	2470	2700	25	66500	SW	170	420
8	2	SW	574	46°21'48"N	10°16'16"E	Matte del Redasco	2400	2520	19	782750	SW	420	550
8	2	SW	575	46°23'15"N	10°14'07"E	Sasso Calosso	2370	2670	26	171875	NE	275	625
8	2	SW	576	46°23'15"N	10°16'00"E	SassoTerraccio Sud	2320	2610	27	232000	SW	400	580
8	2	SW	577	46°22'06"N	10°16'59"E	Cima Rossa	2150	2515	19	290250	SW	270	1075
8	2	SW	578	46°23'20"N	10°16'20"E	I Riaci	2100	2300	22	75000	SW	150	500
8	2	SW	579	46°20'47"N	10°12'23"E	M. Alpisella 2	2520	2700	29	203125	S	625	325
8	2	SW	580	46°21'20"N	10°17'02"E	D. dell'Oca	2320	2520	20	143000	S	260	550
8	2	SW	581	46°21'16"N	10°17'23"E	Passo del Gatto	2280	2480	17	234000	SSW	360	650
8	2	SW	582	46°20'56"N	10°16'40"E	M. Fo	2050	2270	16	329375	W	425	775
8	2	SW	583	46°22'06"N	10°17'09"E	Cima Rossa	2150	2515	20	589375	SW	575	1025
8	2	SW	584	46°23'15"N	10°16'10"E	Cima 3046	2120	2320	24	90000	SW	200	450
8	2	SW	585	46°22'17"N	10°19'30"E	Cime Redasco	2280	2500	25	142500	E	300	475
8	2	SW	586	46°23'31"N	10°18'40"E	Pzo Coppetto	2030	2230	21	78750	E	150	525
8	2	SW	587	46°22'32"N	10°18'00"E	M. Zandia	2370	2570	22	150000	NW	300	500
8	2	SW	588	46°23'22"N	10°18'20"E	Sasso Temaccio	2485	2740	30	191250	NE	425	450
8	2	SW	589	46°24'25"N	10°12'50"E	Cassavrolo 2	2260	2430	19	225000	NW	450	500
8	2	SW	590	46°24'46"N	10°12'40"E	Pzo di Dossdè 1	2680	2825	30	100000	W	400	250
8	2	SW	591	46°21'41"N	10°17'49"E	Pzo di Dossdè 2	2510	2700	23	180000	NNW	400	450
8	2	SW	592	46°24'00"N	10°18'32"E	Cima Rossa	2750	2910	25	66500	SW	190	350
8	2	SW	593	46°23'28"N	10°17'10"E	Dosso Il Filetto	2355	2680	21	258000	N	300	860
8	2	SW	594	46°24'00"N	10°17'50"E	Pzo Coppetto	2600	2790	25	180000	NW	450	400
8	2	SW	595	46°25'18"N	10°04'50"E	Cima di Campello	2390	2660	19	600625	NE	775	775
8	3	NW	596	46°26'55"N	10°02'40"E	Pta del Plata 1	2730	2940	25	112500	NE	250	450
8	3	NW	597	46°26'58"N	10°04'25"E	Fronte del Vago	2600	2725	21	162500	N	500	325
8	3	NE	598	46°25'48"N	10°05'10"E	Pta Orsera	2575	2775	17	286875	NNE	425	675
8	3	NE	599	46°28'00"N	10°06'20"E	Il Foppone	2640	2870	28	106250	NE	250	425
8	3	NE	600	46°25'18"N	10°04'50"E	M. Vago	2775	2880	17	61250	NE	175	350
8	3	NE	601	46°27'33"N	10°10'17"E	Pzo Filone 1	2730	2900	28	81250	NW	250	325
8	3	NE	602	46°27'44"N	10°11'10"E	Pzo Filone 2	2580	2870	23	151875	NNE	225	675
8	3	NE	603	46°28'00"N	10°09'40"E	Pzo Filone 3	2495	2950	33	147000	NNE	210	700
8	3	NE	604	46°25'48"N	10°08'10"E	Colle Val Nera	2800	2860	21	20000	NE	125	160
8	3	NE	605	46°28'40"N	10°12'30"E	M. Corno	2820	2890	14	33600	NW	120	280
8	3	NE	606	46°26'48"N	10°07'10"E	M. Vago 1	2680	2850	14	140000	NE	200	700
8	3	NE	607	46°23'30"N	10°10'55"E	M. Foscagno 3	2680	2770	10	175000	NW	350	500
8	3	NE	608	46°27'54"N	10°06'55"E	Corna di Capra	2680	2850	27	33600	NNW	290	340
8	3	NE	609	46°28'36"N	10°11'20"E	La Foppa 2	2670	2830	18	86400	N	180	480
8	3	NE	610	46°24'30"N	10°04'50"E	Cima 3032	2850	2900	27	25000	E	250	100
8	3	NE	611	46°30'00"N	10°05'40"E	M. delle Rezze	2550	2650	27	30000	N	150	200
8	3	NE	612	46°26'10"N	10°03'10"E	M. Vagoll	2530	2750	17	105000	NE	150	700
8	3	NE	613	46°32'10"N	10°08'10"E	La Foppa alta	2800	2845	14	21875	N	125	175
8	3	NE	614	46°29'22"N	10°11'40"E	M. Foscagno 1	2415	2700	29	175875	NE	335	525
8	3	NE	615	46°25'45"N	10°09'40"E	Pizzo Bianco	2600	2750	31	20000	S	80	250
8	3	NE	616	46°25'50"N	10°08'40"E	Pzo Confine	2680	2820	23	126750	N	390	325
8	3	NE	617	46°29'30"N	10°11'35"E	M. Foscagno 3	2320	2820	25	866250	NE	825	1050
8	3	NE	618	46°29'45"N	10°08'20"E	M. delle Mine	2645	2820	24	78000	N	200	390
8	3	NE	619	46°28'32"N	10°11'00"E	La Foppa 1	2625	2700	12	96250	N	275	350
8	3	NE	620	46°28'03"N	10°09'26"E	Pzo Filone 4	2650	2760	19	123500	NNE	380	325
8	3	SE	621	46°22'50"N	10°10'48"E	Passo Dossdè	2775	2900	21	73125	NNW	225	325
8	3	SE	622	46°22'45"N	10°11'50"E	Cima Viola	2600	2797	22	62500	S	125	500
8	3	SE	623	46°22'19"N	10°11'57"E	Malghera	2575	2650	18	56250	S	250	225
8	3	SE	624	46°20'41"N	10°06'56"E	Cima di Dosso	2445	2630	14	450000	E	600	750
8	3	SE	625	46°20'34"N	10°12'02"E	Sasso Campana	2350	2590	22	210000	S	350	600
8	3	SE	626	46°20'49"N	10°11'20"E	Pian delle Montanelle	2470	2600	52	25000	SE	250	100
8	3	SE	627	46°20'00"N	10°07'34"E	Lago di Malghera	2150	2400	27	175000	N	350	500
8	3	SE	628	46°20'50"N	10°12'05"E	Le Mandriole	2400	2700	26	250000	E	400	625
8	3	SE	629	46°24'45"N	10°10'08"E	Pta di Dossdè	2470	2760	30	93500	NW	187	500
8	3	SE	630	46°23'52"N	10°09'04"E	Pzo di Dugorale	2675	2800	18	175000	NE	375	375
8	3	SE	631	46°22'32"N	10°09'04"E	Pzo di Ricolda 1	2620	2860	33	65625	NE	175	375
8	3	SE	632	46°22'38"N	10°09'40"E	Pzo di Ricolda 2	2660	2800	27	34375	NE	125	275
8	3	SE	633	46°21'14"N	10°11'45"E	Sasso Campana	2540	2770	19	244350	N	362	675
8	3	SE	634	46°21'01"N	10°07'36"E	Matto della Chiesa	2410	2530	24	44000	N	160	275
8	3	SE	635	46°20'57"N	10°10'38"E	Passo di Vermolera	2445	2650	22	437500	NW	875	500
8	3	SE	636	46°21'00"N	10°09'55"E	Sasso Farinaccio 1	2375	2650	29	187500	NNE	375	500
8	3	SE	637	46°21'00"N	10°10'40"E	Sasso Farinaccio 2	2450	2750	43	243750	NW	750	325
8	3	SE	638	46°21'40"N	10°10'40"E	Dosso Sabbione	2700	2775	27	45000	NW	300	150

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
uncertain activity	slope	metamorphic	snowbank	above	0	0	1	1	0	0	1
uncertain activity	slope	metamorphic		above	0	1	1	1	0	0	1
active	cirque	metamorphic	snowbank	above	0	1	1	1	1	0	0
active	valley	metamorphic	moraines	above	0	1	1	1	1	0	0
active	cirque	metamorphic	moraines	above	0	0	1	0	1	0	0
active	slope	metamorphic		above	0	1	1	0	1	0	0
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
inactive	furrow	metamorphic	moraines	above	1	1	0	1	0	1	1
inactive	cirque	metamorphic	moraines	below meadows line	1	1	0	1	0	0	1
inactive	cirque	metamorphic	moraines	above	1	1	1	1	0	0	1
inactive	valley	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic	moraines	above	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	1	0	1	0	0	0
inactive	cirque	metamorphic	moraines	above	0	0	0	1	0	1	0
inactive	cirque	metamorphic	moraines	below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic	moraines	below meadows line	0	1	1	1	0	0	1
inactive	slope	metamorphic	moraines	below treeline	1	1	1	1	0	0	1
inactive	cirque	metamorphic	moraines	above	1	1	1	1	0	0	1
inactive	valley	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	valley	metamorphic	glacier	below meadows line	0	0	0	1	0	0	1
inactive	furrow	metamorphic		above	0	1	0	1	0	0	1
inactive	cirque	metamorphic	moraines	above	1	1	0	1	0	0	1
inactive	cirque	metamorphic	moraines								
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	0	0	0	0
uncertain activity	slope	metamorphic		above	1	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	1	1	0	1	0	1	1
uncertain activity	cirque	metamorphic	moraines	above	0	1	1	1	1	0	1
uncertain activity	cirque	metamorphic	moraines	above	1	0	0	1	0	1	0
complex	cirque	metamorphic	moraines	above	1	1	1	1	0	0	1
active	furrow	metamorphic	snowbank	above	0	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	above	0	0	1	1	1	0	1
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	slope	metamorphic	snowbank	above	0	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	above	0	0	1	1	1	0	0
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	above	0	1	1	1	1	0	0
active	cirque	metamorphic	glacierets	above	0	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	0
active	cirque	metamorphic	glacierets	above	0	1	1	1	1	0	0
active	cirque	metamorphic	glacierets	above	0	1	1	1	1	0	0
active	furrow	metamorphic		above	0	1	1	1	1	0	1
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	0	0	1	0	0	0
active	cirque	metamorphic		above	0	0	0	1	0	0	0
active	cirque	metamorphic	moraines	above	0	0	0	1	0	0	0
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
inactive	cirque	metamorphic		above	0	0	0	1	0	0	0
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	1	0	0
uncertain activity	slope	metamorphic	moraines	above	0	1	1	1	1	0	0
uncertain activity	slope	metamorphic		above	0	1	0	1	0	0	1
uncertain activity	slope	metamorphic	moraines	above	0	0	1	1	1	0	0
uncertain activity	cirque	metamorphic	moraines	above	0	0	1	1	1	0	0
active	cirque	metamorphic	glacierets	above	0	0	1	1	1	0	0
inactive	slope	metamorphic	glacierets	above	0	0	1	1	1	0	0
inactive	slope	metamorphic	glacierets	above	0	0	1	1	1	0	0
inactive	cirque	metamorphic	glacierets	below meadows line	1	1	0	1	1	0	0
inactive	cirque	metamorphic	glacierets	above	1	1	1	1	0	0	1
inactive	slope	metamorphic	glacierets	above	0	1	1	1	0	0	1
inactive	cirque	metamorphic	glacierets	above	0	0	0	0	0	0	0
inactive	cirque	metamorphic	glacierets	above	0	0	0	0	0	0	0
inactive	valley	metamorphic		above	0	1	0	0	0	0	0
inactive	slope	metamorphic		below meadows line	1	1	0	1	1	0	1
uncertain activity	valley	volcanites	snowbank		1	1	1	0	0	0	1
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	1
uncertain activity	slope	metamorphic		above	0	0	1	1	1	0	0
uncertain activity	slope	metamorphic	snowbank	above	0	0	1	1	1	0	0
uncertain activity	slope	metamorphic	snowbank	above	1	1	0	1	0	0	1
uncertain activity	slope	metamorphic	moraines	above	0	1	1	1	1	0	0
complex	cirque	metamorphic		above	1	1	1	1	1	0	1
	slope	metamorphic		below meadows line	0	0	0	1	0	0	1
	slope	metamorphic		below meadows line	0	1	0	0	0	1	0
	slope	metamorphic		above	0	0	0	0	0	0	0
	slope	metamorphic		above	0	0	0	0	0	0	0

<i>Sheet</i>	<i>Quadrant</i>	<i>Map orientation</i>	<i>Identification No.</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Name</i>	<i>Mimum altitude (m a.s.l.)</i>	<i>Maximum altitude (m a.s.l.)</i>	<i>Slope (deg)</i>	<i>Surface area (m<sup>2</sup>)</i>	<i>Aspect</i>	<i>Max width</i>	<i>Max length</i>
8	4	SE	639			Castelletto	2510	2630	22	105000	N	350	300
8	4	SW	640	46°30'15"N	10°04'10"E	Corna dei Gessi 1	2640	2760	23	156800	NE	560	280
8	4	SW	641	46°30'10"N	10°04'20"E	Corna dei Gessi 2	2600	2725	17	176000	NE	440	400
8	4	SW	642	46°30'11"N	10°04'17"E	M. Campaccio	2700	2790	14	105000	NW	300	350
8			643			Funera	2460	2535	14	70000	SE	250	300
2	2	SE	644	46°44'55"N	10°26'20"E	Punta Rasass	2625	2750	14	175000	NW	350	500
2	2	NE	645	46°47'30"N	10°25'40"E	Forcella di Dentro	2500	2572	9	67500	E	150	450
2	2	NE	646	46°47'50"N	10°25'50"E	Dosso di Dentro	2500	2548	9	72000	E	240	300
2	2	SE	647	46°42'15"N	10°27'00"E	Monte Spunda	2250	2398	20	84000	NE	210	400
2	2	SE	648	46°42'00"N	10°26'10"E	Fossatelli	2300	2488	23	94500	SE	210	450
3	3	NW	649	46°49'40"N	10°27'55"E	Piz Russenna 1	2375	2550	23,641	70000	SE	175	400
3	3	NW	650	46°49'50"N	10°27'50"E	Piz Russenna 2	2560				E	200	
3	3	NW	651	46°49'00"N	10°27'30"E	Forcella di Fuori	2460	2550	22,26	148500	E	675	220
3	3	NW	652	46°45'20"N	10°27'25"E	Dosso Nero	2450	2600	20,566	50000	N	125	400
3	3	NW	653	46°45'50"N	10°27'10"E	Piana Verde	2500			180000	NW	400	450
3	3	NW	654	46°46'05"N	10°27'10"E	Passo di Vallunga	2620			36000	SW	120	300
3	3	NW	655	46°46'40"N	10°27'10"E	Cima di Vallunga	2250	2480	43,803	60000	S	250	240
3	3	NW	656	46°46'20"N	10°29'10"E	Forcella della Muta 1	2610	2695	6,8687	123550	SW	175	706
3	3	NW	657	46°46'55"N	10°29'20"E	Cima Undici	2525	2820	42,251	40625	N	125	325
3	3	NW	658	46°46'25"N	10°29'40"E	Forcella della Muta 2	2400	2690	28,93	65625	E	125	525
3	3	NW	659	46°45'55"N	10°29'20"E	Cima Pian del Lago Nord	2470	2675	13,566	212500	E	250	850
3	3	NW	660	46°46'15"N	10°34'25"E	Cima Sparvieri	2400	2460	13,503	37500	NE	150	250
3	3	NW	661	46°46'40"N	10°34'15"E	Cima Plaies 1	2260				NNE		
3	3	NW	662	46°46'25"N	10°34'30"E	Cima Plaies 2	2850				NE		
3	3	NW	663	46°50'40"N	10°35'10"E	Cima Mataun	2650	2725	10,625	110000		275	400
3	3	SW	664	46°44'55"N	10°28'20"E	Valle delle Pecore	2300	2425	19,664	43750	SE	125	350
9	3	NW	665	46°28'00"N	10°29'40"E	Baita del Pastore	2250	2500	18	225000	N	300	750
9	3	NW	666	46°27'53"N	10°29'00"E	M. Forcellina	2100	2440	43	147600	SE	410	360
9	3	NW	667	46°27'27"N	10°28'10"E	Valle Cavallaro	2310	2530	16	210000	W	280	750
9	3	NW	668	46°26'23"N	10°32'02"E	Cime dei Forni	2820	3050	20	187500	S	300	625
9	3	NW	669	46°26'14"N	10°32'08"E	Sasso della Manzina	2775	2875	20	66000	SW	240	275
9	3	NW	670	46°26'24"N	10°28'24"E	Vallie del Confinale	2270	2450	24	70000	W	175	400
9	3	NW	671	46°26'03"N	10°30'06"E	Lago Pasquale	2660	2775	16	76000	SE	190	400
9	3	NW	672	46°27'30"N	10°33'20"E	Cima 2938	2675	2900	29	100000	NNW	250	400
9	3	NW	673	46°27'42"N	10°28'56"E	Passo del Forcellina	2630	2785	32	46750	N	187	250
9	3	NW	674	46°26'42"N	10°31'26"E	Cima della Mandina	3000	3100	15	108750	S	290	375
9	3	NW	675	46°26'44"N	10°28'42"E	Cima delle Saline 1	2450	2675	24	106000	W	212	500
9	3	NW	676	46°26'40"N	10°31'41"E	Cima della Manzina 1	2925	3025	20	51300	S	190	270
9	3	NW	677	46°27'12"N	10°29'16"E	Cima delle Saline 2	2810	2970	27	23250	NE	75	310
9	3	NW	678	46°28'03"N	10°29'30"E	Cima delle Saline 3	2750	2900	23	56000	N	160	350
9	3	NW	679	46°26'30"N	10°30'52"E	Cima della Manzina 2	2860	2950	14	31500	SE	90	350
9	3	NW	680	46°26'40"N	10°32'33"E	Pta di Val Pisella	2675	2800	27	50000	S	200	250
9	3	NW	681	46°26'28"N	10°32'25"E	Laghi di Val Pisella	2850	3020	14	155250	S	230	675
9	3	NE	682	46°26'00"N	10°36'00"E	Vedretta delle Rosole	2925	3000	11	79800	S	210	380
9	3	NE	683	46°26'00"N	10°34'55"E	M. Pasquale	2680	2900	25	118750	W	250	475
9	3	SE	684	46°21'15"N	10°37'10"E	Cima Frattasecca 1	2300	2600	20	330000	S	400	825
9	3	SE	685	46°21'15"N	10°36'10"E	Le Mandriole 3	2550	2800	34	93750	NE	250	375
9	3	SE	686	46°21'00"N	10°35'15"E	Le Mandriole 1	2425	2900	16	603000	S	360	1675
9	3	SE	687	46°20'45"N	10°36'10"E	Le Mandriole 2	2400	2750	35	200000	SE	400	500
9	3	SE	688	46°21'45"N	10°37'40"E	Cima Frattasecca 2	2300	2600	27	150000	E	250	600
9	3	SE	689	46°20'00"N	10°39'05"E	Passo del Tonale	2100	2400	27	240000	N	400	600
9	3	SE	690	46°21'25"N	10°35'50"E	Le Mandriole 4	2700	2800	14	100000	NE	250	400
9	3	SW	665	46°21'13"N	10°28'50"E	M. Gavia 1	2790	2910	24	55000	NE	200	275
9	3	SW	666	46°22'00"N	10°34'00"E	M. Mantello	3000	3200	18	150000	SSE	250	600
9	3	SW	667	46°21'30"N	10°33'10"E	Vallombrina 1	2850	3100	18	217500	S	290	750
9	3	SW	668	46°21'40"N	10°32'45"E	Cima Vallombrina	2950	3200	40	180000	E	600	300
9	3	SW	669	46°21'20"N	10°33'25"E	Vallombrina 2	2980	3100	17	100000	SSW	250	400
9	3	SW	670	46°20'20"N	10°31'10"E	Corno dei Tre Signori	2950	3200	27	200000	SE	400	500
9	3	SW	671	46°20'06"N	10°29'29"E	Gaviola	2410	2560	23	78750	W	225	350
9	3	SW	672	46°20'28"N	10°28'07"E	M. Gavia 2	2400	2720	14	1258750	S	950	1325
9	3	SW	673	46°21'56"N	10°27'55"E	Valle di Rezzalo	2265	2410	18	121000	NNW	275	440
9	3	SW	674	46°24'54"N	10°27'20"E	Bosco di Cornogna	2125	2275	29	34375	NE	125	275
9	3	SW	675	46°20'41"N	10°28'58"E	M. Gavia 3	2625	2830	14	285600	S	340	840
9	3	SW	676	46°21'14"N	10°27'36"E	Savoretta Tonda	2700	2825	28	64800	N	270	240
9	3	SW	677	46°24'05"N	10°32'46"E	Sasso Cerena	2590	2660	24	24000	NNW	150	160
9	3	SW	678	46°20'40"N	10°30'17"E	Lago Bianco	2720	2810	20	32500	W	130	250
9	3	SW	679	46°22'36"N	10°29'44"E	Cima di Gavia	2550	2680	19	37500	N	100	375
9	3	SW	680	46°20'55"N	10°33'55"E	Cima 2955	2700	2800	22	45000	SSE	180	250
9	3	SW	681	46°23'34"N	10°28'32"E	Costa Sobretta	2440	2770	28	218750	NNE	350	625
9	3	SW	682	46°21'30"N	10°33'50"E	Costa Villacoma	2750	2950	39	62500	E	250	250
9	3	SW	683	46°21'30"N	10°33'25"E	Vallombrina 3	2875	2975	18	60000	SW	200	300
9	3	SW	684	46°20'30"N	10°30'10"E	Corno dei Tre Signori	2650	2900	23	120000	W	200	600
9	3	SW	685	46°20'25"N	10°32'10"E	Montagna di Ercavallo	2750	2900	37	36000	NNW	180	200

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
uncertain activity	furrow	metamorphic	moraines								
active	slope	metamorphic	snowbank	above	0	1	1	1	1	0	1
active	cirque	metamorphic	snowbank	above	0	1	0	0	0	0	0
active	slope	metamorphic	snowbank	above	0	1	1	1	1	0	0
inactive	cirque	metamorphic	moraines								
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	0
inactive	furrow	metamorphic		below treeline	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	1	1	0	0	0	0
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	0	0	0	0	0
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	1	0
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	1	1
active	cirque	metamorphic		below meadows line	1	0	0	1	0	1	0
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0
inactive	cirque	metamorphic		below meadows line	1	0	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	1	0	0	0	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	1	0	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	0	0	0	0
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	0	0	0	0	0
inactive	valley	metamorphic		below meadows line	1	0	0	1	1	0	0
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	1	1	0	0	1	0	1
inactive	furrow	metamorphic	snowbank	above	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	1	1	1	1	0	1	1
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
uncertain activity	cirque	metamorphic		above	1	1	1	0	0	0	0
uncertain activity	cirque	metamorphic		above	1	1	1	1	1	0	0
uncertain activity	cirque	metamorphic		below meadows line	1	1	0	1	0	0	1
uncertain activity	cirque	metamorphic		above	1	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	0	1	0	1	0	0	1
uncertain activity	cirque	metamorphic		above	1	1	1	1	0	0	0
uncertain activity	cirque	metamorphic		above	1	1	0	1	1	0	0
uncertain activity	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
complex	cirque	metamorphic		above	1	1	1	1	0	0	0
complex	cirque	metamorphic		above	1	1	1	1	1	0	1
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
uncertain activity	slope	metamorphic	snowbank	above	0	1	1	1	1	0	0
inactive	slope	metamorphic		above	0	1	1	1	1	0	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	0
complex	furrow	metamorphic	moraines	above	1	0	1	1	0	0	0
complex	slope	metamorphic		above	1	0	1	1	0	0	0
complex	slope	metamorphic		above	0	0	0	1	0	0	0
complex	slope	metamorphic		below meadows line	0	0	0	1	0	0	0
complex	slope	metamorphic		above	0	0	0	1	0	0	0
active	cirque	metamorphic	moraines	above	0	1	1	1	1	0	0
active	slope	metamorphic	glacier	above	0	0	0	1	0	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	above	0	1	1	1	1	0	0
active	cirque	metamorphic	snowbank	above	0	0	1	1	1	0	0
active	furrow	metamorphic	snowbank	above	0	1	1	1	1	0	0
inactive	slope	metamorphic	moraines	above	0	0	1	1	0	0	1
inactive	cirque	metamorphic	moraines	below meadows line	1	1	0	1	0	0	1
inactive	slope	metamorphic	moraines	below meadows line	0	1	1	1	0	0	1
inactive	slope	metamorphic	moraines	below meadows line	0	0	0	0	0	0	1
inactive	furrow	metamorphic		above	0	1	1	1	0	0	1
uncertain activity	valley	plutonites	glacier		1	1	0	1	0	0	0
uncertain activity	cirque	metamorphic	snowbank	above	0	1	1	1	0	0	0
uncertain activity	slope	metamorphic		above	0	0	1	1	1	0	0
uncertain activity	slope	metamorphic		above	0	1	1	0	0	0	0
uncertain activity	furrow	metamorphic	snowbank	above	0	0	0	1	1	0	0
complex	slope	metamorphic		above	1	1	1	1	1	0	1
complex	cirque	metamorphic	moraines	above	0	0	0	0	0	0	0
complex	slope	metamorphic		above	0	0	0	1	0	0	0
complex	cirque	metamorphic	glacier	above	0	0	0	1	0	0	0
complex	slope	metamorphic		above	0	0	0	1	0	0	0

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
9	3	SW	686	46°20'31"N	10°31'15"E	Laghetto di Ercavallo	3000	3100	27	10000	E	50	200
9	3	SW	687	46°20'35"N	10°32'05"E	Valletta	2600	2700	27	36000	N	180	200
20	1	SE	688	46°12'00"N	10°53'34"E	Vallesinella Inferiore	2275	2375	14	146250	NNW	375	390
20	1	SE	689	46°13'10"N	10°55'00"E	Tuckett	2225	2335	8	187500	W	250	750
20	1	SE	690	46°11'29"N	10°53'40"E	Brenta Inferiore	2207	2335	7	243750	NW	250	975
20	2	NE	691	46°09'12"N	10°50'10"E	Val d' Agola	2460	2580	17	100000	NW	250	400
20	2	NE	692	46°08'42"N	10°50'10"E	Busa di Sacco	2050	2200	15	206250	NW	375	550
20	2	NE	693	46°08'40"N	10°50'40"E	Val di Sacco	2388	2600	22	260000	NW	500	520
20	2	NE	694	46°08'44"N	10°52'40"E	Busa dei Castei	2360	2700	24	375000	NE	500	750
20	2	NE	695	46°09'00"N	10°55'00"E	Ambiez 1	2250	2700	31	187500	SSE	250	750
20	2	NE	696	46°08'30"N	10°52'57"E	Ambiez 2	2170	2700	21	675000	SE	500	1350
20	2	NE	697	46°10'00"N	10°52'53"E	Val Brenta Alta	2100	2200	4	650000	NW	400	1625
20	2	NE	698	46°09'30"N	10°51'00"E	Busa di Prato	2360	2600	17	393500	SSE	500	787
20	3	NW	699	46°06'07"N	10°32'08"E	Cima Buciaga	2450	2800	30	405000	NW	675	600
20	3	NW	700	46°07'00"N	10°28'23"E	Lago Salarno	2260	2540	27	78400	SE	140	560
20	3	NW	701	46°05'53"N	10°27'58"E	Corni di Bos 1	2400	2600	27	210000	N	525	400
20	3	NW	702	46°05'26"N	10°27'02"E	Cima di Boazzo	2200	2400	34	202500	N	675	300
20	3	NW	703	46°05'40"N	10°31'05"E	Cima Lesena	2400	2600	27	200000	W	500	400
20	3	NW	704	46°06'00"N	10°28'20"E	Corni di Bos 2	2400	2650	27	125000	N	250	500
20	3	NW	705	46°09'53"N	10°27'25"E	Passo dell'Avio	2625	2975	24	220000	E	275	800
20	3	NW	706	46°07'48"N	10°27'28"E	Corni di Covo	2250	2600	25	150000	NW	200	750
20	3	NW	707	46°05'44"N	10°27'38"E	Cime di Bos 3	2225	2425	27	56000	W	140	400
20	3	NW	708	46°06'37"N	10°32'17"E	Passo della Porta	2600	2720	23	56000	NW	200	280
20	3	NW	709	46°06'00"N	10°31'10"E	Valle Adamè	2200	2400	39	175000	NNW	700	250
20	3	NW	710	46°06'50"N	10°32'40"E	Coster di Siristra	2700	2875	35	150000	W	600	250
20	3	SW	711	46°01'37"N	10°28'40"E	Re di Castello	2450	2600	9	1715000	NW	1750	980
20	3	SW	712	46°03'20"N	10°29'40"E	Cima d'Avolo	2400	2600	39	75000	N	300	250
20	3	SW	713	46°03'36"N	10°28'22"E	Malga Marosso	1830	2310	29	411250	NW	470	875
20	3	SW	714	46°02'25"N	10°28'10"E	Val Ghilarda	1940	2050	24	56250	N	225	250
20	3	SW	715	46°04'00"N	10°34'10"E	Cima Breguzzo	2450	2700	45	125000	N	500	250
20	3	SW	716	46°03'15"N	10°27'40"E	M. Campellio	2400	2600	39	45000	N	180	250
20	3	SW	717	46°00'45"N	10°32'30"E	M. Bagolo	2100	2265	15	206250	W	330	625
20	3	SW	718	46°01'52"N	10°27'44"E	Cime di Valghilarda	2540	2660	14	76800	N	160	480
20	3	SW	719	46°03'15"N	10°34'15"E	Passo di Breguzzo	2525	2765	18	375000	NW	500	750
20	3	SW	720	46°03'00"N	10°33'10"E	Valle di Breguzzo 1	2350	2500	11	375000	NE	500	750
20	3	SW	721	46°03'15"N	10°33'55"E	Valle di Breguzzo 2	2400	2600	39	125000	NNW	500	250
20	3	SW	722	46°03'00"N	10°31'40"E	Daone	2000	2300	22	450000	N	600	750
20	3	SW	723	46°03'45"N	10°29'10"E	Malga Ignaga	2000	2400	34	180000	NW	300	600
20	3	SW	724	46°03'30"N	10°28'25"E	Passo d'Avolo	1850	2300	31	375000	NNW	500	750
20	4	NW	725	46°19'56"N	10°31'10"E	Laghetto di Calone	2850	3020	16	143750	NE	250	575
20	4	NW	726	46°19'20"N	10°33'44"E	Pozzo della Conca	2690	2850	26	56875	W	175	325
20	4	NW	727	46°17'50"N	10°34'00"E	Passo dei Contrabbandieri	2180	2550	32	945000	NW	1575	600
20	4	NW	728	46°16'21"N	10°33'41"E	Bocchetta Serodine	2370	2450	10	65250	SE	150	435
20	4	NW	729	46°16'24"N	10°34'02"E	Malga Secondina di Dentro	2300	2475	13	193750	S	250	775
20	4	NW	730	46°16'50"N	10°28'38"E	Quota 3006	2300	2575	17	218750	SSE	250	875
20	4	NW	731	46°18'37"N	10°32'07"E	Baita di Forgnaneolo	2290	2550	29	117500	S	250	470
20	4	NW	732	46°18'48"N	10°31'00"E	Cima delle Graole	2360	2600	33	93750	SW	250	375
20	4	NW	733	46°18'09"N	10°31'14"E	Baitello delle Graole	2225	2400	27	52500	SW	150	350
20	4	NW	734	46°17'07"N	10°29'01"E	Cima di Somalbosco	2425	2585	18	216000	SW	450	480
20	4	NW	735	46°17'46"N	10°29'06"E	Gras degli Spi	2225	2400	19	249600	N	480	520
20	4	NW	736	46°17'05"N	10°27'28"E	M. Colbazzo	2100	2725	42	140000	SW	200	700
20	4	NW	737	46°16'45"N	10°34'40"E	Passo del Tonale 1	2275	2500	17	375000	NNE	500	750
20	4	NW	738	46°18'50"N	10°34'10"E	M. Tonale Occidentale	2375	2500	27	125000	NE	500	250
20	4	NW	739	46°17'00"N	10°34'25"E	Passo del Tonale 2	2350	2500	14	180000	S	300	600
20	4	NW	740	46°17'19"N	10°28'42"E	M. Coleazzo	2580	2680	13	74375	E	175	425
20	4	NW	741	46°19'01"N	10°27'58"E	Pta di Monticelli	2400	2570	19	150000	SSE	300	500
20	4	NW	742	46°19'00"N	10°31'55"E	La Scala di Ercavallo	2450	2600	17	100000	N	200	500
20	4	NW	743	46°16'29"N	10°32'43"E	Bocchetta Bleis	2125	2400	23	169000	NW	260	650
20	4	NW	744	46°19'30"N	10°34'25"E	Pta di Ercavallo	2650	2975	33	125000	NNE	250	500
20	4	NW	745	46°16'55"N	10°33'20"E	Cima Bleis	2350	2550	27	100000	NNW	250	400
20	4	NW	746	46°19'30"N	10°28'00"E	Laghetto dei Monticelli	2360	2450	27	22500	N	125	180
20	4	NW	747	46°19'59"N	10°31'10"E	Piano di Ercavallo	2660	2975	23	187500	NE	250	750
20	4	NE	748	46°19'30"N	10°40'10"E	Cima Boai	2400	2600	22	500000	W	1000	500
20	4	NE	749	46°19'00"N	10°39'40"E	La Valletta	2400	2500	11	500000	NE	1000	500
20	4	NE	750	46°19'15"N	10°36'50"E	Val Comiciolo	2360	2500	10	240000	NE	300	800
20	4	NE	751	46°18'45"N	10°39'10"E	Val Saviana	2250	2475	21	180000	E	300	600
20	4	NE	752	46°18'45"N	10°38'00"E	Alpe Saviana	2500	2675	24	80000	SSE	200	400
20	4	NE	753	46°18'30"N	10°37'25"E	Redival	2200	2700	27	750000	E	750	1000
20	4	NE	754	46°19'00"N	10°34'55"E	Le Cocchiale	2550	2650	11	125000	S	250	500
20	4	NE	755	46°16'40"N	10°35'10"E	Alpe del Tonale	2100	2350	17	240000	S	300	800
20	4	NE	756	46°16'00"N	10°41'25"E	Pradazzo 1	1900	2500	31	500000	N	500	1000
20	4	NE	757	46°15'30"N	10°40'40"E	Passo di Valle Ricolda	1900	2300	24	450000	N	500	900
20	4	NE	758	46°19'50"N	10°37'55"E	Vallealta	2250	2500	14	750000	N	750	1000

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
	cirque	metamorphic		above	0	0	0	1	0	0	0
	slope	metamorphic		above	0	0	0	1	0	0	0
active	furrow	carbonatic	glacier	above	0	0	0	0	0	0	0
active	furrow	metamorphic	glacier	above	0	0	0	0	0	0	0
active		carbonatic	glacier	above	0	0	0	1	0	0	1
active	slope	carbonatic	glacier	above	0	1	0	1	0	1	0
active	slope	carbonatic	glacier	below meadows line	0	1	1	0	1	0	0
active	slope	carbonatic	glacier	above	1	1	0	1	1	0	0
active	cirque	carbonatic	glacierets	above	0	1	1	1	1	0	0
active	cirque	carbonatic	glacier	above	0	0	0	0	1	1	0
active	slope	carbonatic	glacier	below meadows line	0	0	0	1	1	1	0
uncertain activity	furrow	carbonatic	glacier	above	1	1	0	0	0	0	1
uncertain activity	cirque	carbonatic	moraines	above	0	0	0	1	1	0	0
active	cirque	plutonites		above	0	1	1	1	1	0	0
active	slope	plutonites	glacier	above	0	1	0	0	0	1	0
active	cirque	plutonites		above	0	0	1	1	1	0	0
active	cirque	plutonites		above	0	0	1	1	1	0	0
active	slope	plutonites		above	0	0	1	1	0	0	0
active	slope	plutonites		above	0	0	1	1	0	0	0
active	cirque	plutonites	snowbank	above	0	0	1	1	1	0	0
inactive	furrow	plutonites		above	0	1	1	1	0	0	1
inactive	furrow	plutonites		above	0	1	1	1	0	0	1
uncertain activity	furrow	plutonites		above	0	1	1	1	1	0	0
	slope	plutonites		above	0	0	1	1	0	0	0
	slope	plutonites	snowbank	above	0	0	1	1	0	0	0
active	cirque	plutonites	glacier	above	0	0	1	1	1	0	0
inactive	slope	plutonites		above	0	1	1	1	0	1	0
inactive	furrow	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	plutonites		below treeline	0	0	0	0	0	0	1
uncertain activity	cirque	plutonites		above	0	0	1	1	1	1	0
uncertain activity	cirque	plutonites		above	0	0	1	1	1	0	0
uncertain activity	cirque	plutonites	moraines	below treeline	0	0	0	1	0	0	0
uncertain activity	cirque	plutonites	glacierets	above	0	1	1	1	1	1	0
	slope	plutonites		above	1	0	0	1	0	0	0
	slope	plutonites		above	1	0	0	1	0	0	0
	slope	plutonites		above	1	0	1	1	0	0	0
	valley	plutonites		above	0	0	0	1	0	0	0
	furrow	plutonites		above	1	0	0	1	0	0	0
	slope	plutonites		below meadows line	0	0	1	1	0	0	0
active	cirque	metamorphic	glacierets	above	0	1	1	1	0	0	0
active	cirque	metamorphic		above	0	0	1	1	1	0	0
active	slope	metamorphic		above	1	1	1	1	1	0	0
inactive	slope	metamorphic		below treeline	1	1	1	0	0	0	1
inactive	slope	metamorphic		above	0	0	0	0	0	0	0
inactive	cirque	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	1	0	1	0	0	1
inactive	slope	metamorphic		below treeline	0	0	1	1	0	0	1
inactive	slope	metamorphic		above	0	1	1	1	1	1	0
inactive	cirque	metamorphic		above	0	1	1	1	0	0	1
inactive	cirque	metamorphic		above	1	1	1	1	0	0	1
inactive	cirque	metamorphic		above	1	1	1	1	0	1	0
inactive	cirque	metamorphic		above	1	1	1	1	0	1	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	0	1	0	1	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	1	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	1
uncertain activity	slope	metamorphic		above	0	1	1	1	1	1	0
uncertain activity	slope	metamorphic		above	0	1	1	1	1	1	0
uncertain activity	slope	metamorphic		above	0	0	0	1	0	0	0
	slope	metamorphic		above	0	0	0	1	0	0	0
	cirque	metamorphic		above	0	0	0	1	0	0	0
active	cirque	metamorphic		above	0	1	1	0	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	1	0
inactive	cirque	metamorphic		above	1	1	1	1	0	1	0
inactive	cirque	metamorphic		below meadows line	1	1	0	1	0	1	0
inactive	slope	metamorphic		below meadows line	1	1	1	1	0	1	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	1	0
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	1	0
inactive	slope	metamorphic		below meadows line	1	1	1	1	0	1	0
inactive	cirque	metamorphic		below treeline	0	1	1	1	0	1	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	1	0
uncertain activity	cirque	metamorphic		above	1	1	1	1	1	1	0

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
20	4	NE	759	46°19'00"N	10°37'10"E	M. Redival	2600	2750	17	375000	N	750	500
20	4	NE	760	46°17'40"N	10°35'10"E	Pta D'Albiolo	2500	2700	13	337500	S	375	900
20	4	NE	761	46°17'10"N	10°36'10"E	M. Tonaile Orientale	2250	2500	45	200000	N	800	250
20	4	NE	762	46°16'00"N	10°41'10"E	Pradazzo 2	1825	2200	27	135000	W	180	750
20	4	SW	763	46°12'42"E	10°31'12"E	Pta di Porzuolo	2410	2710	24	270000	N	400	675
20	4	SW	764	46°12'42"N	10°30'52"E	Bocchetta di Valbione	2510	2825	32	100000	N	200	500
20	4	SW	765	46°11'28"N	10°30'35"E	Bocchetta di Val dei Prati	2640	2825	22	112500	SW	250	450
20	4	SW	766	46°11'35"N	10°27'42"E	Lago d'Avio	2270	2375	27	26250	E	125	210
20	4	SW	767	46°14'05"N	10°33'34"E	Pta di Castellaccio	2250	2550	34	135000	W	300	450
20	4	SW	768	46°12'38"N	10°27'12"E	Quota 2688	2020	2280	26	183750	NW	350	525
20	4	SW	769	46°12'57"N	10°29'52"E	Valle dei Buoi	1900	2380	29	157500	W	180	875
20	4	SW	770	46°13'44"N	10°30'48"E	M. Casola	1960	2225	19	206250	N	275	750
20	4	SW	771	46°12'05"N	10°27'40"E	Corno di Mezzodi	2360	2450	33	19600	E	140	140
20	4	SW	772	46°12'40"N	10°29'30"E	Bocchetta dei Buoi	2500	2700	34	45000	N	150	300
19	1	NW	773	46°16'35"N	10°19'35"E	M. Varadega 2	2160	2375	15	280000	S	350	900
19	1	NW	774	46°19'28"N	10°17'42"E	Migiondo	1070	1325	36	70000	E	200	350
19	1	NW	775	46°17'30"N	10°12'40"E	Dosso Camoesello	2190	2425	25	120000	NNE	240	500
19	1	NW	776	46°17'11"N	10°19'59"E	M. Varadega 3	2370	2625	19	360000	W	480	750
19	1	NW	777	46°17'14"N	10°12'50"E	Dosso Arbato	2205	2450	16	212500	E	250	850
19	1	NW	778	46°16'00"N	10°19'06"E	Pzo di Varadega	2110	2250	29	62500	E	250	250
19	1	NW	779	46°17'48"N	10°12'22"E	Dosso Camoesello	2125	2625	27	400000	NNE	400	1000
19	1	NE	780	46°17'29"N	10°25'26"E	Cime del Tiro	2550	2750	25	85000	N	200	425
19	1	NE	781	46°17'44"N	10°25'35"E	Cima di Glere 1	2560	2650	15	40625	NE	125	325
19	1	NE	782	46°16'43"N	10°25'24"E	Cima Mattacul	2575	2775	18	90000	SW	150	600
19	1	NE	783	46°17'56"N	10°25'20"E	Cima di Glere 2	2600	2720	30	68250	N	325	210
19	1	NE	784	46°17'44"N	10°23'26"E	A. Riguccio	1925	2200	30	324000	E	675	480
19	1	NE	785	46°16'24"N	10°19'40"E	Cime di Gron	2100	2700	29	752500	W	700	1075
19	1	NE	786	46°17'24"N	10°22'50"E	Corno Tremontelli	2300	2525	14	675000	E	750	900
19	1	NE	787	46°18'01"N	10°23'39"E	Corno Dombastone	2275	2450	19	62500	SW	125	500
19	1	NE	788	46°16'55"N	10°19'40"E	M. Varadega 1	2420	2750	19	1048125	SW	1075	975
19	1	NE	789	46°16'53"N	10°22'12"E	La Valetta	2390	2600	29	389500	NW	1025	380
19	1	NE	790	46°16'16"N	10°20'54"E	Cime di Grom	2360	2530	24	56250	SE	150	375
19	1	NE	791	46°17'44"N	10°22'26"E	Tremontelli	2470	2550	17	121500	SE	450	270
19	1	NE	792	46°16'33"N	10°20'37"E	M. Seroti	2525	2800	38	175000	NE	500	350
19	1	SE	793	46°10'57"N	10°26'10"E	Cima Lavedole	2425	2800	28	192500	NW	275	700
19	1	SE	794	46°10'53"N	10°25'22"E	Aviolo	2000	2300	20	405000	NW	500	810
19	1	SE	795	46°11'56"N	10°23'24"E	Corno Piazza	1830	2300	24	262500	NW	250	1050
19	1	SE	796	46°11'05"N	10°23'01"E	M. Foppa	1975	2275	18	208125	NW	225	925
19	1	SE	797	46°11'22"N	10°26'48"E	Cima Gabriele Rosa	2225	2675	25	570000	W	600	950
19	1	SW	798	46°12'40"N	10°16'36"E	Motto della Scala 1	2100	2320	12	446250	SW	425	1050
19	1	SW	799	46°12'50"N	10°17'10"E	Motto della Scala 2	1985	2220	40	336000	N	1200	280
19	2	NW	800	46°07'27"N	10°16'36"E	M. Crap	1775	2160	22	487500	NNE	500	975
19	2	NW	801	46°07'55"N	10°15'18"E	Porta di Barbione	2275	2440	27	97500	N	300	325
19	2	NW	802	46°08'24"N	10°15'18"E	Corno di Barbione	2120	2250	23	37500	N	125	300
19	2	NW	803	46°07'30"N	10°16'10"E	Passo Salina	2025	2275	41	46400	NE	160	290
19	2	NW	804	46°05'35"N	10°15'06"E	Cima di Mezzo 1	2125	2220	14	131250	SSE	350	375
19	2	NW	805	46°05'36"N	10°15'26"E	Cima di Mezzo 2	1970	2325	33	220000	SE	400	550
19	2	NW	806	46°05'08"N	10°13'39"E	Lago di Bacco	2290	2375	16	90000	SE	300	300
19	2	NW	807	46°05'47"N	10°14'38"E	M. Palone del Torsolazzo	2275	2450	25	56250	S	150	375
19	2	NW	808	46°05'10"N	10°12'32"E	Pzo del Torsolazzo	2340	2675	34	140000	W	280	500
19	2	NW	809	46°06'52"N	10°14'53"E	M. Palone 1	2000	2340	22	132000	NW	160	825
19	2	NW	810	46°07'48"N	10°15'39"E	M. Palone 2	2080	2275	16	157500	N	225	700
19	2	NW	811	46°05'57"N	10°16'12"E	Costa delle Blese	1925	2075	34	33750	N	150	225
19	2	NW	812	46°06'23"N	10°15'13"E	Passo di Cadino	2280	2400	20	97500	NE	300	325
19	2	NW	813	46°06'08"N	10°13'21"E	Castel di Piccolo	1950	2340	27	431250	N	575	750
19	2	NW	814	46°06'06"N	10°15'52"E	Grasso delle Porchere	1925	2140	17	175000	N	250	700
19	2	NW	815	46°06'04"N	10°15'13"E	Cima di Mezzo	2150	2450	25	422500	E	650	650
19	2	NE	816	46°08'57"N	10°27'10"E	Lago Bianco	2610	2800	21	125000	NW	250	500
19	2	NE	817	46°08'44"N	10°26'35"E	Passo di Plem	2240	2595	29	104000	NW	160	650
19	2	NE	818	46°06'17"N	10°23'33"E	Piz di Oliva 1	1950	2275	20	153125	S	175	875
19	2	NE	819	46°07'00"N	10°22'52"E	Piz di Oliva 2	1900	2425	32	82500	NW	100	825
19	2	NE	820	46°06'28"N	10°24'42"E	Pian della Regina	2175	2475	23	227500	S	325	700
19	2	NE	821	46°08'38"N	10°23'57"E	Punta della Val Rossa	1675	2125	25	332500	W	350	950
19	2	NE	822	46°06'25"N	10°25'06"E	Pzo del Coppelto	2000	2500	23	690000	S	575	1200
19	2	NE	823	46°07'12"N	10°22'12"E	La Blis	2230	2420	44	26000	NW	130	200
19	2	NE	824	46°09'32"N	10°26'44"E	Corno Premassone	2525	2700	18	144375	SW	275	525
19	2	NE	825	46°09'08"N	10°24'54"E	M. Bombiano	2320	2625	24	122500	NW	175	700
19	2	NE	826	46°08'58"N	10°26'42"E	Lago Bianco	2490	2600	13	71250	W	150	475
19	2	SE	827	46°03'21"N	10°26'26"E	M. Zucciaffiglio	1775	1950	35	100000	N	400	250
19	2	SE	828	46°03'05"N	10°25'05"E	Cima Barbignaga	1600	2100	40	150000	NNW	250	600
19	2	SE	829	46°04'48"N	10°27'02"E	n r	1560	2000	29	160000	S	200	800
19	2	SE	830	46°00'21"N	10°24'38"E	Pzo Badile	1930	2150	20	150000	N	250	600
19	2	SW	831	46°04'28"N	10°12'22"E	Cima Belarù	2080	2410	31	220000	W	400	550

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
uncertain activity	cirque	metamorphic		above	1	0	0	1	1	0	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	0	1	0
uncertain activity	cirque	metamorphic		below meadows line	1	1	1	1	1	1	0
uncertain activity	furrow	metamorphic		below treeline	0	0	1	1	1	0	0
active	cirque	plutonites	snowbank	above	0	1	1	1	1	0	0
active	furrow	plutonites	snowbank	above	0	0	0	1	1	1	0
active	cirque	plutonites	snowbank	above	0	0	1	1	1	0	0
inactive	furrow	plutonites		above	0	0	1	0	0	0	1
inactive	slope	plutonites		below meadows line	0	0	1	1	0	0	1
inactive	cirque	plutonites		above	0	0	1	0	1	1	0
inactive	cirque	plutonites		above	0	0	1	1	0	0	1
inactive	cirque	plutonites			1	1	1	0	1	0	1
inactive	furrow	plutonites		above	0	0	1	1	1	1	1
inactive	furrow	plutonites		above	0	0	0	1	0	0	0
inactive	slope	plutonites		above	1	1	0	1	0	0	1
inactive	valley	metamorphic		below treeline	0	0	1	1	0	0	0
inactive	furrow	metamorphic		below meadows line	1	1	0	1	0	0	1
inactive	cirque	plutonites		above	0	1	0	1	0	0	1
inactive	cirque	carbonatic		below meadows line	1	1	0	1	0	0	1
inactive	slope	plutonites		above	0	1	1	1	0	0	1
complex	furrow	metamorphic		below meadows line	0	1	1	1	1	0	1
active	cirque	plutonites		above	0	1	1	1	1	0	0
active	furrow	metamorphic	glacier		0	0	0	0	0	0	0
active	furrow	metamorphic		above	1	0	0	1	1	0	0
active	slope	plutonites		above	0	0	1	1	1	0	0
inactive	valley	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	plutonites		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	cirque	plutonites		below meadows line	1	1	0	1	0	0	1
uncertain activity	slope	metamorphic	moraines	above	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	1	1	1	1	0	0	1
uncertain activity	furrow	metamorphic		above	0	1	0	1	0	0	1
uncertain activity	cirque	plutonites		above	0	1	1	1	0	0	1
active	cirque	plutonites	glaciets	above	0	1	1	1	1	0	0
active	cirque	plutonites	glacier	below meadows line	0	0	0	1	1	0	0
inactive	furrow	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
uncertain activity	cirque	plutonites		above	0	0	1	1	1	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic			1	1	1	0	0	1	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		above	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	0	1	1	1	0
inactive	cirque	metamorphic		above	0	1	1	1	0	0	1
inactive	furrow	metamorphic		above	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below treeline	0	0	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	1
uncertain activity	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
uncertain activity	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	plutonites		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	furrow	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic	moraines	below treeline	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	0	0	1	1	1	0	1
uncertain activity	cirque	plutonites		above	0	1	1	1	1	0	0
uncertain activity	cirque	plutonites	snowbank	above	0	0	1	1	1	0	1
uncertain activity	slope	plutonites		above	0	1	1	1	1	0	1
inactive	slope	metamorphic		below treeline	0	0	1	1	0	0	1
inactive	furrow	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
uncertain activity	cirque	plutonites	moraines	below meadows line	0	1	1	1	1	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
19	2	SW	832	46°04'51"N	10°13'42"E	M. dei Matti	2125	2230	10	99750	SW	175	570
19	2	SW	833	46°01'04"N	10°14'31"E	Cimone della Bagozza	1730	1840	8	256000	W	320	800
19	2	SW	834	46°00'37"N	10°17'44"E	Baita Valle Bonone	1775	1975	27	84000	NNW	210	400
19	2	SW	835	46°01'20"N	10°14'58"E	Baione	1700	1830	11	128250	W	190	675
19	2	SW	836	46°01'28"N	10°16'58"E	Dosso Vereto	1600	1800	16	406000	NE	580	700
19	3	NW	837	46°05'50"N	09°57'17"E	Pzo di Rodes	2580	2750	28	40625	W	125	325
19	3	NW	838	46°05'00"N	10°05'10"E	Castello dell'Acqua 1	2550	2650	22	87500	NW	350	250
19	3	NW	839	46°07'05"N	09°57'42"E	Castello dell'Acqua 2	1920	2250	32	577500	N	1100	525
19	3	NW	840	46°06'48"N	10°04'35"E	Il Pizzon 1	2030	2250	24	225000	N	450	500
19	3	NW	841	46°06'35"N	10°04'28"E	Il Pizzon 2	2060	2400	30	180000	N	300	600
19	3	NW	842	46°06'37"N	10°04'12"E	Il Pizzon 3	1975	2310	33	118125	N	225	525
19	3	NW	843	46°07'36"N	10°02'57"E	Cima Cadin	1960	2175	28	50000	NW	125	400
19	3	NE	844	46°07'21"N	10°09'44"E	Dosso Pasò 1	2150	2450	22	412500	N	550	750
19	3	NE	845	46°07'04"N	10°10'04"E	Dosso Pasò 2	2260	2470	28	56000	NE	140	400
19	3	NE	846	46°06'42"N	10°06'37"E	Lago Lavazza	2160	2270	24	56250	N	225	250
19	3	NE	847	46°05'52"N	10°11'10"E	M. Lorio	2025	2475	36	93750	NE	150	625
19	3	NE	848	46°07'04"N	10°06'27"E	M. Lavazza 1	2150	2350	36	61875	N	225	275
19	3	NE	849	46°06'58"N	10°07'08"E	M. Lavazza 2	2030	2300	30	71250	W	150	475
19	3	NE	850	46°05'58"N	10°09'44"E	Valle del Latte	2030	2360	28	125000	NW	200	625
19	3	NE	851	46°05'28"N	10°10'35"E	Lago di Pisa	2450	2600	21	110000	W	275	400
19	3	NE	852	46°05'38"N	10°10'13"E	M. Nemora	2350	2675	32	144375	NNE	275	525
19	3	SE	853	46°02'14"N	10°10'34"E	Pzo Tornello	2440	2650	37	61600	W	220	280
19	3	SE	854	46°03'12"N	10°08'10"E	Pzo dei Tre Confini	2550	2750	17	195000	N	300	650
19	3	SE	855	46°04'00"N	10°04'15"E	M. Castone 1	2525	2650	24	105000	NW	375	280
19	3	SE	856	46°03'37"N	10°05'15"E	Tre Confini	2493	2610	38	9000	SW	60	150
19	3	SE	857	46°03'26"N	10°10'10"E	Passo del Sellerino	1975	2175	19	675625	N	1175	575
19	3	SE	858	46°04'48"N	10°08'01"E	M. Colombano	2300	2480	22	36000	NW	80	450
19	3	SE	859	46°04'06"N	10°05'13"E	M. Demignone	1925	2100	28	48750	N	150	325
19	3	SE	860	46°03'28"N	10°08'34"E	Pzo del Demignone	2330	2500	21	67500	NNW	150	450
19	3	SW	861	46°00'05"N	10°01'04"E	Valbondione 1	1930	2025	36	42900	N	330	130
19	3	SW	862	46°01'22"N	10°03'22"E	M. Crostano	2070	2140	35	20000	S	200	100
19	3	SW	863	46°04'00"N	10°07'10"E	M. Castone 2	2525	2675	18	142500	NW	300	475
19	3	SW	864	46°04'35"N	10°02'34"E	Pzo Cavrel	2650	2800	19	68000	W	160	425
19	3	SW	865	46°00'38"N	09°58'58"E	M. Vigna Soliva	1820	1920	22	45000	N	180	250
19	3	SW	866	46°04'49"N	10°03'18"E	Lago della Malgina	2339	2545	21	162000	NE	300	540
19	4	NW	867	46°16'39"N	09°57'16"E	Passo degli Ometti	2330	2530	23	95000	NW	200	475
19	4	NW	868	46°15'27"N	10°00'02"E	Cima d'Aiada	2250	2575	23	281250	N	375	750
19	4	NW	869	46°15'35"N	09°59'24"E	Valle Forame	2210	2600	20	367500	NE	350	1050
19	4	NW	870	46°15'34"N	10°02'50"E	Valle Sareggio 2	2330	2425	21	43750	NNW	175	250
19	4	NW	871	46°15'52"N	10°03'44"E	Valle Sareggio	2230	2625	19	1028125	SW	875	1175
19	4	NW	872	46°17'50"N	09°58'15"E	Lago di Campagneda	2360	2470	22	96250	W	350	275
19	4	NW	873	46°15'29"N	10°03'20"E	Pizzo Fareggio	2570	2750	30	37200	N	120	310
19	4	NW	874	46°16'08"N	10°02'07"E	Alpe Salini	2275	2510	21	234375	SW	375	625
19	4	NW	875	46°15'25"N	09°57'25"E	Pzo del Gombano	2150	2725	23	496875	NW	375	1325
19	4	NW	876	46°15'00"N	10°00'03"E	Cima di Forame	2325	2775	21	293750	E	250	1175
19	4	NW	877	46°15'08"N	10°03'10"E	Valle dei Laghi	2380	2630	16	212500	NW	250	850
19	4	NE	878	46°16'14"N	10°10'16"E	Lago Sciazzera	2400	2600	23	216000	SW	450	480
19	4	NE	879	46°17'41"N	10°09'28"E	Passo Guinzana 1	2525	2700	13	318750	NNE	425	750
19	4	NE	880	46°17'47"N	10°09'03"E	Passo Guinzana 2	2430	2550	24	101250	NNE	375	270
19	4	NE	881	46°18'24"N	10°09'05"E	Pian delle Roggie	2230	2580	18	742500	E	675	1100
19	4	NE	882	46°16'00"N	10°12'15"E	M. Masucco	2260	2375	33	83125	N	475	175
19	4	NE	883	46°16'58"N	10°12'10"E	Campiano 3	2320	2600	29	95000	S	190	500
19	4	NE	884	46°18'34"N	10°09'31"E	Bocchetta di Sassumero	2330	2670	29	109375	NNW	175	625
19	4	NE	885	46°18'52"N	10°10'12"E	Pta Confinale 1	2225	2475	20	168750	NNW	250	675
19	4	NE	886	46°19'07"N	10°10'27"E	Pta Confinale 2	2125	2300	25	121875	N	325	375
19	4	NE	887	46°18'12"N	10°11'38"E	Dosso Comin	2120	2500	30	1137500	NW	1750	650
19	4	NE	888	46°17'10"N	10°10'52"E	I Laghetti	2120	2250	19	356250	NW	950	375
19	4	NE	889	46°19'57"N	10°07'18"E	L'Uomo	2400	2725	23	375000	NE	500	750
19	4	NE	890	46°18'50"N	10°07'48"E	Lago di Pedrina	2300	2475	16	150000	N	250	600
19	4	NE	891	46°19'40"N	10°06'58"E	Passo di Malghera	2325	2675	17	587500	NE	500	1175
19	4	NE	892	46°17'31"N	10°09'24"E	Alpe di Valle Piana	2570	2700	19	60800	E	160	380
19	4	NE	893	46°16'44"N	10°10'12"E	Lago di Ferrata	2360	2600	29	106250	N	250	425
19	4	NE	894	46°16'46"N	10°11'05"E	Campiano 2	2370	2550	24	68000	N	170	400
19	4	NE	895	46°16'38"N	10°11'57"E	Campiano 1	2275	2500	24	187500	NE	375	500
19	4	NE	896	46°19'26"N	10°09'53"E	Pzo Sasselbo	2350	2675	19	231250	E	250	925
19	4	NE	897	46°19'10"N	10°11'46"E	Passo dell'Uomo	2550	2720	19	162500	E	325	500
19	4	NE	898	46°19'05"N	10°07'18"E	Dosso Sasselbo	2120	2480	26	150000	N	200	750
19	4	NE	899	46°17'16"N	10°07'48"E	Alpe Valvia di Valpiana	2380	2620	15	227500	NE	260	875
19	4	NE	900	46°17'30"N	10°10'39"E	Dosso Comin	2270	2600	28	234375	W	375	625
19	4	SW	901	46°14'03"N	09°59'03"E	Il Bovinadone	2225	2575	34	406875	N	775	525
19	4	SW	902	46°13'24"N	09°59'13"E	Lagazzoli	2100	2540	34	552500	SE	850	650
19	4	SW	903	46°12'52"N	09°57'26"E	Alpe Rogneda	2150	2280	30	58500	N	260	225
19	4	SW	904	46°12'58"N	10°04'26"E	M. Cancano	2125	2375	28	106875	SSE	225	475

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	1	0
inactive	cirque	sedimentary	moraines	below meadows line below treeline	1 0	1 1	1 0	1 1	0 0	1 1	1 1
inactive	slope	metamorphic		below meadows line	1	1	1	1	0	1	1
inactive	furrow	sedimentary	moraines	below meadows line	1	1	0	0	0	1	1
complex	cirque	carbonatic	moraines	below treeline	1	1	0	0	0	1	1
active	cirque	metamorphic	snowbank	above	0	1	1	0	1	0	0
active	furrow	metamorphic		above	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	1	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	1	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	furrow	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	furrow	metamorphic		below meadows line	0	0	1	1	1	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	1	0	1
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	0	1	1	1	0	0
inactive	cirque	metamorphic		below meadows line	0	0	1	1	1	0	1
inactive	furrow	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	1	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
uncertain activity	valley	metamorphic		above	0	0	1	1	1	0	1
uncertain activity	cirque	metamorphic		above	0	0	0	0	0	0	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	0	0	1
active	cirque	sedimentary	snowbank	above	0	1	1	1	1	0	0
active	cirque	sedimentary	snowbank	above	0	1	1	1	1	0	0
active	slope	metamorphic	glacier	below treeline	1	1	0	0	0	0	0
active	slope	metamorphic	glacier	above	0	0	1	0	0	0	0
inactive	cirque	carbonatic		below meadows line	1	1	1	1	0	0	1
inactive	furrow	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
uncertain activity	cirque	sedimentary		above	0	0	1	1	1	0	0
inactive	slope	metamorphic		below meadows line	0	1	0	0	0	0	1
inactive	slope	sedimentary	moraines	above	0	0	1	0	0	0	1
uncertain activity	cirque	metamorphic		above	0	0	1	1	1	0	0
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	0
uncertain activity	slope	metamorphic	moraines	below meadows line	0	0	1	0	1	0	0
uncertain activity	cirque	metamorphic	glacier	above	0	0	1	0	1	0	0
active	slope	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	1	0	1
inactive	valley	metamorphic		below meadows line	1	1	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	0	0	1	1	0	0	0
uncertain activity	cirque	metamorphic		above	1	1	1	1	1	0	1
complex	cirque	metamorphic	glacier	below meadows line	1	1	1	1	1	0	1
complex	cirque	plutonites	glacier	above	1	1	1	1	1	0	1
complex	cirque	metamorphic		above	0	1	1	1	1	0	1
active	cirque	metamorphic		above	0	1	1	1	1	0	0
active	furrow	metamorphic		above	0	1	1	1	1	0	0
active	cirque	metamorphic		above	0	0	1	0	1	0	0
inactive	cirque	metamorphic		above	0	0	1	1	0	0	0
inactive	slope	metamorphic		below meadows line	1	1	1	1	0	0	0
inactive	slope	metamorphic		above	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	furrow	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	metamorphic		above	0	0	1	1	1	0	0
uncertain activity	furrow	metamorphic		below meadows line	0	0	1	1	0	0	1
uncertain activity	slope	metamorphic		above	0	0	1	1	1	0	0
uncertain activity	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
complex	cirque	metamorphic		above	0	1	1	1	0	0	0
complex	furrow	metamorphic		above	1	1	1	1	1	0	1
complex	cirque	metamorphic		above	1	1	1	1	1	1	0
complex	slope	metamorphic		below meadows line	1	1	1	1	1	0	1
complex	slope	metamorphic		above	1	1	1	1	1	0	1
complex	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	slope	metamorphic		above	1	1	0	1	0	0	1
inactive	cirque	metamorphic		above	1	1	1	1	0	0	1
inactive	slope	metamorphic	plutonites	below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic	metamorphic	below meadows line	0	1	1	1	0	0	1

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Mimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
19	4	SW	905	46°14'12"N	10°02'36"E	Sassi del Pastore	2190	2375	20	150000	N	300	500
19	4	SW	906	46°13'28"N	09°58'27"E	Baita Val di Non	2000	2600	17	1170000	S	600	1950
19	4	SW	907	46°13'30"N	09°57'26"E	Valle dei Piscoli	2310	2425	8	380000	S	475	800
19	4	SW	908	46°13'12"N	10°03'42"E	Passo Meden	2160	2400	25	144375	SW	275	525
19	4	SW	909	46°13'21"N	10°02'48"E	Bocche della Combolina	2410	2625	22	170625	NW	325	525
19	4	SW	910	46°13'03"N	09°58'54"E	Baita Campodola	2225	2525	17	425000	S	425	1000
18	1	NW	911	46°16'47"N	09°47'20"E	Passo Ventina	2380	2460	25	22750	N	130	175
18	1	NW	912	46°18'21"N	09°44'17"E	Cappanna Del Grande	2580	2860	37	75000	E	200	375
18	1	NW	913	46°17'43"N	09°47'52"E	Pta Rosalba	2380	2500	20	52000	N	160	325
18	1	NW	914	46°15'18"N	09°46'40"E	Bocchetta di Giuemellino	2575	2675	14	52000	E	130	400
18	1	NW	915	46°17'10"N	09°48'20"E	M. Braccia	2320	2550	16	268125	NE	325	825
18	1	NW	916	46°17'48"N	09°46'10"E	Cima del Duca	2200	2300	30	56875	NW	325	175
18	1	NW	917	46°19'28"N	09°46'47"E	Pta dell'Oro	2140	2420	23	211250	SW	325	650
18	1	NW	918	46°17'47"N	09°48'55"E	Bocchel del Cane	1990	2160	30	75000	E	250	300
18	1	NW	919	46°19'48"N	09°48'22"E	Alpe Forà	2000	2075	17	80000	SSE	320	250
18	1	NW	920	46°19'58"N	09°49'28"E	Cima 2200	1950	2170	29	128000	W	320	400
18	1	NW	921	46°16'11"N	09°42'14"E	Cima 2701	2320	2525	25	90000	N	200	450
18	1	NW	922	46°16'54"N	09°47'57"E	Forcola di Valle Orsera	2420	2610	15	227500	S	325	700
18	1	NW	923	46°15'20"N	09°48'04"E	Valle Giuemellino	1850	2300	14	832500	E	450	1850
18	1	NE	924	46°19'36"N	09°53'57"E	Forcola di Fellaria	2540	2690	27	60000	NE	200	300
18	1	NE	925	46°19'40"N	09°53'50"E	Sasso Moro	2580	2680	15	56250	NE	150	375
18	1	NE	926	46°15'10"N	09°56'50"E	Lago Painale	2135	2370	16	264000	NW	330	800
18	1	NE	927	46°16'28"N	09°56'22"E	M. Acquanera	2090	2240	12	140000	NW	200	700
18	1	NE	928	46°19'35"N	09°54'24"E	Bocchetta delle Forbici	2275	2750	18	725000	S	500	1450
18	1	NE	929	46°15'09"N	09°54'02"E	M. Palino 1	2150	2400	23	225000	W	375	600
18	1	NE	930	46°15'13"N	09°53'38"E	M. Palino 2	2000	2350	25	243750	N	325	750
18	1	SE	931	46°14'33"N	09°56'55"E	Buco del Cacciatore	2275	2780	30	240625	N	275	875
18	1	SE	932	46°12'57"N	09°55'39"E	Piana dei Cavalli	1900	2475	21	675000	SSW	450	1500
18	1	SE	933	46°13'29"N	09°56'58"E	I Laghetti	2275	2430	21	290000	S	725	400
18	1	SE	934	46°13'22"N	09°56'13"E	Cima 2807	2275	2480	22	350000	SE	700	500
18	1	SE	935	46°13'48"N	09°55'52"E	Corno Rara	2425	2625	32	40625	N	125	325
18	1	SE	936	46°14'14"N	09°56'15"E	Cima di Rogneda	2525	2800	29	75000	NW	150	500
18	1	SW	937	46°14'25"N	09°44'47"E	Corni Bricciat'	2500	2650	15	275000	N	500	550
18	1	SW	938	46°13'42"N	09°43'51"E	Lago Scermendone	2450	2625	13	200750	S	275	730
18	1	SW	939	46°14'16"N	09°45'27"E	Valle Airale	2200	2540	25	235625	NE	325	725
18	1	SW	940	46°12'48"N	09°44'22"E	Pta del Cavallo	2150	2550	18	330000	SW	275	1200
18	1	SW	941	46°13'04"N	09°46'22"E	M. Caldennio	2400	2600	28	93750	E	250	375
18	1	SW	942	46°12'48"N	09°48'56"E	M. Canale	1980	2340	17	687500	N	550	1250
18	1	SW	943	46°13'45"N	09°47'56"E	M. Arcoglio	2030	2325	35	297500	NNE	700	425
18	1	SW	944	46°13'46"N	09°44'42"E	Passo di Scermendone	1460	2530	54	445625	S	575	775
18	1	SW	945	46°12'45"N	09°46'51"E	Lago di Colina	2090	2380	24	146250	E	225	650
18	1	SW	946	46°13'45"N	09°46'12"E	M. Caldennio	2250	2460	12	308750	N	325	950
18	1	SW	947	46°13'02"N	09°48'10"E	Lago d' Arcoglio	2180	2375	14	160000	NE	200	800
18	1	SW	948	46°13'21"N	09°44'42"E	Pizzo Bello	2430	2600	24	84375	E	225	375
18	2	NW	949	46°05'15"N	09°44'40"E	Valle di Boninvento	2250	2400	27	45000	N	150	300
18	2	NW	950	46°05'34"N	09°44'19"E	Valle Cogola	2060	2350	23	297500	N	425	700
18	2	NW	951	46°05'37"N	09°43'27"E	Baita Nuova	2100	2310	24	83125	W	175	475
18	2	NW	952	46°06'27"N	09°43'10"E	Pzo Torenzulo	1990	2270	20	281250	NW	375	750
18	2	NW	953	46°07'22"N	09°42'28"E	Baita Zocca	1875	2050	18	110000	W	200	550
18	2	NW	954	46°05'20"N	09°48'24"E	Cima Sasso Chiaro 1	1990	2250	24	201250	NW	350	575
18	2	NW	955	46°05'33"N	09°48'41"E	Cima Sasso Chiaro 2	2190	2350	18	120000	N	240	500
18	2	NW	956	46°05'13"N	09°46'26"E	Cima di Vitalengo	1920	2250	22	107250	NW	130	825
18	2	NW	957	46°05'38"N	09°43'04"E	M. Veleron	2160	2350	18	115000	N	200	575
18	2	NE	958	46°06'25"N	09°56'24"E	Pta della Pessa 1	1990	2275	21	290000	N	400	725
18	2	NE	959	46°06'49"N	09°56'06"E	Punta Campione	1900	2170	30	126900	N	270	470
18	2	NE	960	46°06'28"N	09°55'42"E	Pta della Pessa 2	2090	2250	23	65625	NW	175	375
18	2	NE	961	46°06'33"N	09°52'08"E	Passo Portoreglia	1990	2270	23	405000	N	600	675
18	2	NE	962	46°06'13"N	09°51'47"E	Pzo Meriggio	2080	2275	21	187500	NNW	375	500
18	2	NE	963	46°06'11"N	09°56'47"E	Punta della Pessa 3	2225	2390	25	43750	N	125	350
18	2	SE	964	46°04'46"N	09°51'17"E	Cime Biorche	2140	2340	27	84000	NE	210	400
18	2	SE	965	46°04'37"N	09°50'54"E	Baita delle Zocche	2180	2420	25	91875	NW	175	525
18	2	SE	966	46°04'12"N	09°52'32"E	Cima Branda	2140	2300	23	46875	NW	125	375
18	2	SE	967	46°00'06"N	09°55'00"E	Lago Bassa	1750	1875	30	27500	N	125	220
18	2	SE	968	46°03'46"N	09°53'59"E	Passo del Porcellino	1950	2190	24	119250	NW	225	530
18	2	SE	969	46°04'10"N	09°56'34"E	Cima Soliva	2350	2650	29	206250	N	375	550
18	2	SE	970	46°00'52"N	09°50'25"E	Lago di Val dei Frati	1930	1990	12	70000	NE	250	280
18	2	SW	971	46°03'17"N	09°44'53"E	Baita di Cadelle	1900	2275	27	108750	S	150	725
18	2	SW	972	46°03'30"N	09°46'21"E	M. Toro	1990	2300	18	570000	SW	600	950
18	2	SW	973	46°02'37"N	09°48'09"E	M. Ghierico	2125	2225	10	110000	SSW	200	550
18	2	SW	974	46°03'25"N	09°45'36"E	Passo di Dorvona	1825	2075	14	350000	SSW	350	1000
18	2	SW	975	46°03'27"N	09°46'57"E	M. Toro	2275	2400	17	100000	SW	250	400
18	2	SW	976	46°03'51"N	09°49'48"E	Passo di Publino	2075	2270	21	175000	NE	350	500
18	2	SW	977	46°03'20"N	09°47'50"E	Passo di Valceruia	2025	2290	27	210000	N	400	525



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
18	2	SW	978	46°00'29"N	09°46'01"E	Baita Valle Bonone	1900	2075	28	32500	N	100	325
18	2	SW	979	46°04'35"N	09°44'20"E	Cima Vanccci	2125	2425	22	222000	W	300	740
18	2	SW	980	46°04'32"N	09°42'24"E	La Calzana	1875	2125	16	202500	N	225	900
18	2	SW	981	46°04'55"N	09°48'22"E	Punta Cerech 1	1975	2375	49	262500	W	750	350
18	2	SW	982	46°03'30"N	09°48'10"E	Corno Stella	2250	2090	-19	95000	NW	200	475
18	2	SW	983	46°04'39"N	09°48'34"E	Punta Cerech 2	2170	2360	35	48125	NW	175	275
18	2	SW	984	46°03'48"N	09°48'24"E	Passo del Tonale 3	2120	2370	23	120000	NW	200	600
18	2	SW	985	46°04'31"N	09°46'39"E	Sponda Camoscera	2120	2270	34	71500	NW	325	220
18	2	SW	986	46°03'48"N	09°44'29"E	M. Cavelle	2150	2300	28	196000	NW	700	280
18	2	SW	987	46°04'50"N	09°44'00"E	La Bratta	1925	2250	50	144375	NNW	525	275
18	2	SW	988	46°03'42"N	09°43'46"E	Lago di Porcile	1970	2210	36	243750	N	750	325
18	2	SW	989	46°04'09"N	09°44'15"E	Cima di Dordona	2160	2375	32	61250	NW	175	350
18	2	SW	990	46°04'04"N	09°44'50"E	M. Cavelle	2160	2300	18	29400	NE	70	420
18	2	SW	991	46°04'32"N	09°44'57"E	Cima Vallocci 1	2120	2320	24	123750	NE	275	450
18	2	SW	992	46°04'50"N	09°45'02"E	Cima Vallocci 2	2100	2225	21	48750	NNE	150	325
18	2	SW	993	46°02'30"N	09°49'28"E	Lago di Valle Sambuzza	2110	2240	39	52000	NNW	325	160
18	3	NE	994	46°05'34"N	09°40'30"E	M. Culino	1950	2210	27	120000	NW	240	500
18	3	NE	995	46°05'22"N	09°40'21"E	M. Lago	2000	2200	25	127500	NW	300	425
18	3	SE	996	46°03'37"N	09°40'24"E	M. Tartano	2080	2230	22	123500	N	325	380
18	3	SE	997	46°03'16"N	09°40'28"E	Baita Piedevasse	1910	1975	8	57000	SW	120	475
18	3	SE	998	46°03'20"N	09°39'37"E	M. Azzaredo	1990	2070	14	54250	S/W	175	310
18	3	SE	999	46°04'00"N	09°38'28"E	Passo di Pevena	1920	2225	28	115000	W	200	575
18	3	SE	1000	46°03'30"N	09°38'13"E	M. Azzarini 1	2100	2300	30	61250	NW	175	350
18	3	SE	1001	46°03'12"N	09°38'13"E	M. Azzarini 2	1950	2150	21	145600	W	280	520
18	3	SE	1002	46°04'18"N	09°40'12"E	Il Foppone	1885	2075	18	158125	NNE	275	575
18	3	SE	1003	46°02'54"N	09°36'38"E	Cimello	1820	1975	27	78000	N	260	300
18	3	SE	1004	46°03'32"N	09°41'14"E	Pzo del Vallone	1770	1975	32	32500	N	100	325
18	3	SE	1005	46°00'00"N	09°38'10"E	Quota 2173	1850	2100	24	215625	NNW	375	575
18	3	SE	1006	46°01'00"N	09°36'34"E	Quota 2139	1470	1735	29	95000	NNE	200	475
18	3	SW	1007	46°02'45"N	09°30'20"E	Pzo Mellasc	2110	2250	22	87500	NNE	250	350
18	3	SW	1008	46°04'14"N	09°29'48"E	Pzo Rotondo 1	2175	2450	35	160000	NE	400	400
18	3	SW	1009	46°02'11"N	09°31'09"E	Gerola Alta 1	2060	2250	32	39000	NE	130	300
18	3	SW	1010	46°04'42"N	09°28'13"E	Pzo Alto	1870	2220	18	241500	E	230	1050
18	3	SW	1011	46°04'32"N	09°31'36"E	Alpe Stavello	1940	2100	28	39000	E	130	300
18	3	SW	1012	46°04'56"N	09°27'50"E	M. Pim Pum	2150	2300	29	24300	N	90	270
18	3	SW	1013	46°03'09"N	09°31'51"E	Il Piazzo	1800	2000	25	73500	NE	175	420
18	3	SW	1014	46°04'29"N	09°29'23"E	Pzo Rotondo 2	2050	2310	19	300000	N	400	750
18	4	NW	1015	46°15'20"N	09°29'10"E	Beleniga	900	1175	30	240000	NNE	500	480
18	4	NW	1016	46°18'10"N	09°33'42"E	Pzo dei Vanni	2475	2750	26	114000	SW	200	570
18	4	NE	1017	46°16'40"N	09°30'25"E	Capanna Gianetti	2250	2420	23	100000	SSE	250	400
18	4	SE	1018	46°14'14"N	09°41'55"E	Pzo dell'Avelia 1	2180	2520	36	109250	S	230	475
18	4	SE	1019	46°14'51"N	09°41'31"E	Pzo dell'Averla 3	2150	2375	24	125000	NNW	250	500
18	4	SE	1020	46°11'40"N	09°35'10"E	Corno del Colino	1840	2350	32	495000	NNE	600	825
18	4	SE	1021	46°14'40"N	09°41'21"E	Pzo dell'Averla 2	2100	2500	23	185000	NW	200	925
18	4	SW	1022	46°11'20"N	09°34'12"E	Baita Colino 1	1870	2400	26	268750	S	250	1075
18	4	SW	1023	46°11'04"N	09°34'05"E	Baita Colino 2	1770	2080	28	86250	SE	150	575
18	4	SW	1024	46°13'21"N	09°32'07"E	Forcola di Revelasco	2000	2300	23	192500	S	275	700
18	4	SW	1025	46°10'56"N	09°33'46"E	Baita del Gioco	1925	2225	22	112500	S	150	750
18	4	SW	1026	46°10'48"N	09°33'05"E	Cima di Malvedello 2	1725	2470	19	484000	SE	220	2200
18	4	SW	1027	46°11'22"N	09°32'00"E	M. Scuesa	2090	2400	25	303750	N	450	675
18	4	SW	1028	46°11'00"N	09°30'16"E	Passo Piana	1720	2100	20	189000	W	180	1050
18	4	SW	1029	46°11'30"N	09°32'13"E	Cima di Malvedello 1	2075	2450	29	202500	NW	300	675
17	1	NE	1030	46°20'00"N	09°19'10"E	Il Pizzetto 1	1800	2100	50	125000	N	500	250
17	1	NE	1031	46°19'30"N	09°19'10"E	Alpe Parolio	2000	2189	25	80000	E	200	400
17	1	SE	1032	46°13'10"N	09°20'40"E	Pzo Sasso Canale 1	1900	2200	31	50000	SW	100	500
17	1	SE	1033	46°12'53"N	09°21'37"E	La Corveggia	1775	2100	23	93750	SE	125	750
17	1	SE	1034	46°13'10"N	09°26'40"E	Pzo Sasso Canale 2	1900	2200	31	50000	SW	100	500
17	1	SE	1035	46°12'57"N	09°20'40"E	Bocchetta Tressci	1900	2210	51	143750	NNW	575	250
17	1	SE	1036	46°13'48"N	09°19'52"E	Pzo Anna Maria	1980	2210	26	156000	S	325	480
17	2	NE	1037	46°05'08"N	09°26'31"E	Cima di Moncale	1700	2150	24	500000	NE	500	1000
33	1	NW	1038	45°59'00"N	09°50'00"E	M. Corte	2100	2300	34	90000	NW	300	300
33	1	NW	1039	45°56'50"N	09°50'50"E	Quota 2023	1700	2000	37	60000	NE	150	400
33	1	NW	1040	45°56'55"N	09°50'55"E	Lago Branchino 1	1750	2000	51	50000	N	250	200
33	1	NW	1041	45°56'00"N	09°50'30"E	Pzo Arera	2350	2500	45	30000	NW	200	150
33	1	NW	1042	45°58'30"N	09°50'28"E	Passo dei Laghi Gemelli 1	1750	1900	37	70000	N	350	200
33	1	NW	1043	45°58'45"N	09°49'24"E	Quota 2268	2150	2310	25	70000	S	200	350
33	1	NW	1044	45°58'42"N	09°48'27"E	Passo dei Laghi Gemelli 2	2005	2150	28	68750	NW	250	275
33	1	NW	1045	45°56'55"N	09°48'22"E	Lago Branchino 2	1830	1980	31	81250	NNW	325	250
33	1	NW	1046	45°56'23"N	09°49'09"E	Corna Piana 1	1950	2010	18	68400	NNE	380*	180
33	1	NW	1047	45°56'46"N	09°48'35"E	Corna Piana 2	1710	1940	32	67500	NE	180	375
33	1	NW	1048	45°58'44"N	09°49'36"E	M. Corte	2160	2350	27	90000	SW	240	375
33	1	NW	1049	45°56'30"N	09°50'10"E	Corna Piana 3	1950	2010	18	68400	NNE	380	180
33	1	NW	1050	46°58'58"N	09°49'15"E	M. Corte	2100	2300	37	54000	NW	200	270

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
inactive	valley	sedimentary	moraines	below treeline	0	1	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	1	0	1
inactive	furrow	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	slope	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	carbonatic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
uncertain activity	slope	sedimentary		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
uncertain activity	valley	metamorphic	glacier	above	0	1	1	1	1	0	1
inactive	valley	metamorphic		below treeline	0	0	1	1	0	0	1
uncertain activity	cirque	metamorphic		above	0	1	1	1	1	0	0
inactive	slope	plutonites		below meadows line	0	0	1	1	0	0	1
inactive	cirque	plutonites		below meadows line	1	0	0	0	0	0	1
inactive	slope	plutonites		above	0	1	1	0	0	0	0
inactive	slope	plutonites		above	0	1	1	1	0	0	1
uncertain activity	cirque	plutonites		above	0	1	1	1	0	1	1
inactive	slope	plutonites		below meadows line	0	1	1	1	0	0	1
inactive	slope	plutonites		below meadows line	0	0	1	1	0	0	1
inactive	slope	plutonites		below meadows line	1	0	0	0	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	slope	plutonites		below meadows line	0	0	1	1	0	0	1
inactive	slope	plutonites		below meadows line	0	0	1	1	0	0	1
uncertain activity	cirque	plutonites		below meadows line	0	0	1	1	0	0	1
inactive	slope	plutonites		above	0	0	1	1	0	0	0
inactive	slope	plutonites		below treeline	1	0	0	0	0	0	0
inactive	slope	metamorphic		above	0	1	0	0	0	0	0
uncertain activity	slope	metamorphic		above	0	0	1	1	0	0	0
inactive	furrow	metamorphic		above	0	0	0	1	0	0	0
uncertain activity	slope	metamorphic		above	0	0	1	1	0	0	1
inactive	cirque	metamorphic		above	1	1	1	1	0	0	1
inactive	cirque	metamorphic		above	0	0	0	0	0	0	0
inactive	cirque	metamorphic		above	0	1	1	1	0	0	1
inactive	slope	sedimentary			1	0	1	0	0	0	0
inactive	slope	sedimentary		below meadows line	1	0	0	1	0	0	0
inactive	slope	sedimentary		below meadows line	0	0	1	0	0	0	0
inactive	slope	sedimentary		above	0	0	0	1	0	0	0
inactive	valley	sedimentary		below meadows line	0	1	0	0	0	0	0
inactive	slope	sedimentary		above	1	0	0	0	0	0	0
inactive	cirque	sedimentary		below meadows line	1	1	1	1	0	0	0
inactive	slope	sedimentary		below meadows line	0	1	1	0	0	1	1
inactive	slope	carbonatic		below meadows line	0	1	1	0	0	0	1
inactive	furrow	carbonatic		below meadows line	0	1	1	0	0	0	1
inactive	cirque	sedimentary		below meadows line	0	1	1	0	0	0	1
inactive	slope	carbonatic		below meadows line	0	1	1	0	0	0	1
uncertain activity	furrow	sedimentary		below meadows line	0	1	1	0	0	0	1

<i>Sheet</i>	<i>Quadrant</i>	<i>Map orientation</i>	<i>Identification No.</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Name</i>	<i>Minimum altitude (m a.s.l.)</i>	<i>Maximum altitude (m a.s.l.)</i>	<i>Slope (deg)</i>	<i>Surface area (m<sup>2</sup>)</i>	<i>Aspect</i>	<i>Max width</i>	<i>Max length</i>
33	1	NW	1051	45°56'03"N	09°48'50"E	Pzo Arena	2350	2500	56	25000	N	250	100
33	1	SE	1052	45°54'40"N	09°49'25"E	Quota 1863	1550	1750	22	200000	SE	400	500
34	1	NE	1053	45°46'40"N	10°23'40"E	Passo Sabbione di Croce	1975	2150	24	220000	S	550	400
34	1	NE	1054	45°46'45"N	10°22'55"E	Dosso Meraviglia	1950	2187	53	22500	NW	125	180
34	1	NE	1055	45°46'20"N	10°26'25"E	Lago Nero	2075	2331	27	62500	S	125	500
34	1	NE	1056	45°46'00"N	10°25'10"E	M. Cadino	2100	2300	22	250000	E	500	500
34	1	NE	1057	45°46'15"N	10°25'25"E	Val Fredda	2125	2250	27	31250	E	125	250
34	1	NE	1058	45°46'40"N	10°25'10"E	Lago Nero	2075	2300	17	93750	SSW	125	750
34	4	NW	1059	45°57'48"N	09°59'17"E	M. Vodaia	1790	2020	27	112500	W	250	450
34	4	NW	1060	45°57'15"N	10°02'01"E	Cresta di Valzurio	1625	1775	23	98000	NNW	280	350
34	4	NW	1061	45°58'00"N	10°01'40"E	M. Ferrante	1825	2100	17	112500	S	125	900
34	4	NW	1062	45°58'15"N	10°01'55"E	Passo degli Omini 1	2000	2100	22	100000	E	400	250
34	4	NW	1063	45°58'00"N	09°59'55"E	Passo degli Omini 2	1925	2025	45	50000	NNE	500	100
35	4	SW	1064	45°52'05"N	10°29'30"E	Malga Val Bona	2050	2175	27	45000	E	180	250
35	4	SW	1065	45°51'45"N	10°29'30"E	Dossone Dolò	1900	2100	22	125000	SE	250	500

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
uncertain activity	cirque	carbonatic	snowbank	above	0	0	1	0	1	0	0
inactive	slope	carbonatic	moraines	above	3	1	0	0	0	0	0
inactive	valley	carbonatic		below meadows line	1	0	0	1	0	0	0
inactive	slope	carbonatic		below meadows line	1	0	0	1	0	0	0
inactive	slope	carbonatic		below meadows line	1	0	0	1	0	0	0
inactive	slope	carbonatic		below meadows line	1	0	0	1	0	0	0
inactive	valley	carbonatic		below meadows line	1	0	0	1	0	0	0
complex	slope	carbonatic		below meadows line	1	0	0	1	0	0	0
inactive	cirque	carbonatic	moraines	below treeline	0	1	1	1	1	0	0
inactive	slope	carbonatic	moraines	below treeline	0	1	1	1	0	0	1
inactive	slope	carbonatic		below meadows line	0	0	0	1	0	0	0
inactive	slope	carbonatic		below meadows line	0	0	0	1	0	0	0
inactive	valley	metamorphic		below meadows line	1	0	0	1	0	0	0
inactive	valley	metamorphic		below meadows line	1	0	0	1	0	0	0

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
3	2	NE	1066	46°45'50"N	10°51'00"E	Punta di Finale	2475	2627	16	118125	S	225	525
3	2	NE	1067	46°45'30"N	10°52'10"E	Vallone del Similaun	2750	2960	12	425000	SW	425	1000
3	2	SE	1068	46°44'35"N	10°53'55"E	Croda Marcia1	2660	2700	10	28125	SW	125	225
3	2	SE	1069	46°45'45"N	10°54'30"E	Croda Marcia1	2730	2800	17	16875	S	75	225
3	2	SE	1070	46°45'50"N	10°54'55"E	Vedretta Sara	3055	3225	22	58800	S	140	420
3	2	SE	1071	46°41'46"N	10°52'50"E	Cima Cupa Piccola	2575	2625	11	25000	W	100	250
3	2	SE	1072	46°43'09"N	10°52'35"E	Cima del Dosso	2225	2300	17	18750	NE	75	250
3	2	SE	1073	46°44'13"N	10°57'01"E	Cima Dodici	2510	2625	21	30000	N	100	300
3	2	SE	1074	46°40'04"N	10°54'41"E	Bosco di Rattisio	2340	2400	19	13125	NNW	75	175
3	2	SE	1075	46°40'15"N	10°54'24"E	Punta di Trumes 1	2300	2420	9	112500	NE	150	750
3	2	SE	1076	46°40'30"N	10°53'51"E	Punta di Trumes 2	2525	2600	21	15000	NE	75	200
3	2	SE	1077	46°40'28"N	10°54'12"E	Punta di Trumes 3	2450	2525	15	27500	NE	100	275
3	2	SE	1078	46°40'05"N	10°51'40"E	La Cresta 1	2500	2550	7	40000	NW	100	400
3	2	SE	1079	46°40'22"N	10°51'40"E	La Cresta 2	2350	2500	23	61250	N	175	350
3	2	SE	1080	46°40'13"N	10°52'06"E	La Cresta 3	2475	2600	12	90000	N	150	600
3	2	SE	1081	46°40'24"N	10°52'35"E	La Cresta 4	2275	2500	20	150000	NNW	240	625
3	2	SE	1082	46°40'02"N	10°51'33"E	La Cresta 5	2450	2480	10	35000	N	200	175
3	2	SE	1083	46°40'25"N	10°49'55"E	Quaira Bianca	2600	2870	17	218750	SSE	250	875
3	2	SE	1084	46°40'53"N	10°51'48"E	Croda Nera	2350	2600	22	156250	SE	250	625
3	2	SW	1085	46°44'45"N	10°45'17"E	Val Lassun	2500	2750	20	122500	NE	175	700
3	2	SW	1086	46°44'47"N	10°46'10"E	Stoz	2375	2625	27	125000	NE	250	500
3	2	SW	1087	46°43'08"N	10°44'00"E	M. Lana	2850	2950	15	46875	E	125	375
3	2	SW	1088	46°42'40"N	10°43'40"E	M. Alto	2700	2800	18	45000	NE	150	300
3	2	SW	1089	46°42'12"N	10°44'08"E	Punta 2740	2650	2740	20	25000	NE	100	250
3	2	SW	1090	46°42'50"N	10°42'45"E	M. Lupi	2900	2950	14	20000	NNW	100	200
3	2	SW	1091	46°40'00"N	10°49'40"E	M. Zerming 1	2800	2850	8	131250	SE	350	375
3	2	SW	1092	46°42'28"N	10°49'35"E	Dosso della Croce 1	2450	2600	27	52500	NE	175	300
3	2	SW	1093	46°42'32"N	10°48'59"E	Dosso della Croce 2	2675	2775	18	67500	NE	225	300
3	2	SW	1094	46°40'17"N	10°48'43"E	M. Zerming 2	2625	2885	10	471250	W	325	1450
3	2	SW	1095	46°40'15"N	10°48'27"E	M. Zerming 3	2625	2830	20	82500	NW	150	550
3	2	SW	1096	46°40'17"N	10°50'05"E	Alle Fontane	2510	2640	9	306000	W	360	850
3	2	SW	1097	46°40'25"N	10°48'20"E	Croda dei Camosci	2650	2800	12	105000	SW	150	700
3	2	SW	1098	46°41'20"N	10°44'14"E	M. delle Pecore	2625	2725	11	162500	NE	325	500
3	2	SW	1099	46°40'35"N	10°44'20"E	Costa Bianca	2450	2600	14	75000	E	125	600
3	2	SW	1100	46°49'28"N	10°42'37"E	Croda delle Pecore	2700	2750	13	16875	NW	75	225
3	2	SW	1101	46°40'28"N	10°42'35"E	Alpe di Alliz	2750	2800	10	27500	SW	100	275
3	2	SW	1102	46°49'55"N	10°42'40"E	M. Schmiedt	2775	2890	13	75000	SE	150	500
3	2	NW	1103	46°49'05"N	10°43'12"E	M. Sandbiegl	2680	2725	9	45000	N	150	300
3	2	NW	1104	46°46'23"N	10°46'32"E	Punta delle Frane	2575	2650	17	25000	ENE	100	250
3	2	NW	1105	46°46'00"N	10°46'10"E	Costa Anticogala	2500	2625	12	225000	SE	375	600
3	2	NW	1106	46°45'15"N	10°44'03"E	Passo di Fossa Lunga	2575	2750	22	42500	NE	100	425
3	2	NW	1107	46°45'52"N	10°48'20"E	Croda delle Cornacchie	2740	3020	18	218750	SE	250	875
3	2	NW	1108	46°45'29"N	10°48'20"E	Croda Bruna	2730	2825	15	17500	SE	50	350
3	3	NE	1109	46°43'20"N	10°39'40"E	Ganda di Valle	2400	2500	18	37500	NE	125	300
3	3	NE	1110	46°49'00"N	10°40'10"E	Alpe di Melago	2250	2425	22	53125	N	125	425
3	3	NE	1111	46°49'00"N	10°40'30"E	M. Cavallo	2390	2425			N	75	
3	3	NE	1112	46°49'35"N	10°38'10"E	Alpe Nuova di Carrone 1	2325	2400	21	20000	100	200	
3	3	NE	1113	46°49'10"N	10°37'20"E	Alpe Nuova di Carrone 2	2330	2500	21	56250	NNE	125	450
3	3	NE	1114	46°47'30"N	10°35'10"E	Piano Verde	2425	2520	13	106250	N	250	425
3	3	NE	1115	46°46'30"N	10°37'40"E	Cima Sparvieri	2650	2700	18	15000	NE	100	150
3	3	NE	1116	46°46'05"N	10°35'00"E	Piano di Mezzo	2580	2730	10	110000	SW	125	880
3	3	NE	1117	46°46'10"N	10°38'00"E	Cima Sparvieri	2600	2650	8	43750	E	125	350
3	3	NE	1118	46°46'30"N	10°37'10"E	Passo del Rigolo	2530	2650	18	56250	SE	150	375
3	3	NE	1119	46°45'20"N	10°37'40"E	Cima dentro Valle 1	2875	2975	18	22500	SE	75	300
3	3	NE	1120	46°46'20"N	10°37'40"E	Cima di Serres	2725	2770	10	18750	E	75	250
3	3	NE	1121	46°46'25"N	10°38'40"E	Cima dentro Valle 2	2525	2650	27	43750	S	175	250
3	3	NE	1122	46°46'30"N	10°39'00"E	Valle delle Mucche 1	2575	2585	2	24375	SE	75	325
3	3	NE	1123	46°46'55"N	10°38'40"E	Valle delle Mucche 2	2725	2850	17	50000	S	125	400
3	3	NE	1124	46°45'10"N	10°41'00"E	Piano di Pieres 1	2740	2850	20	37500	SSE	125	300
3	3	NE	1125	46°45'40"N	10°42'00"E	Gable di Mezzo	2650	2775	21	40625	SE	125	325
3	3	NE	1126	46°45'30"N	10°40'40"E	Cima di Pieres 2	2960	3040	22	25000	E	125	200
3	3	NE	1127	46°47'20"N	10°42'00"E	Cima Barba d'Orso di Fuori	2825	2950	16	45000	S	100	450
3	3	NE	1128	46°45'30"N	10°40'10"E	Nevaio di Valbella	2950	3030	9	75000	SW	150	500
3	3	NE	1129	46°45'15"N	10°39'50"E	Passo di Vaibella	2820	2980	23	112500	W	300	375
3	3	SE	1130	46°44'51"N	10°39'21"E	Pizzo Porties	2825	2900	17	31250	S	125	250
3	3	SE	1131	46°44'05"N	10°39'17"E	M. Rosso	2490	2600	20	30000	SE	100	300
3	4	SE	1158	46°50'20"N	10°36'40"E	Punta della Gallina 2650	2375	2630	15	95000	SE	100	950
3	4	SE	1159	46°50'40"N	10°35'40"E	Passo di Sales	2820	2700	7	175000	SE	250	700
3	4	SE	1160	46°50'40"N	10°36'10"E	Punta del Lupo 1	2400	2550	17	62500		125	500
3	4	SE	1161	46°50'55"N	10°35'40"E	Punta del Lupo 2	2640	2740	12	58750	SE	125	470
3	4	SE	1162	46°50'40"N	10°35'50"E	Punta della Gallina 1	2690	2745	8	36000	SE	90	400

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Morphology								
					Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue		
inactive	valley	metamorphic		below meadows line	0	1	1	1	0	0	0	1	
active	cirque	metamorphic	glacier	below meadows line	1	1	1	1	1	0	0	0	
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	0	1	
inactive	cirque	metamorphic		below meadows line	0	0	1	0	0	0	0	1	
active	furrow	metamorphic	glacierets	above	1	1	0	0	1	0	0	0	
active	furrow	metamorphic	glacierets	above	1	0	1	0	0	0	0	0	
inactive	slope	metamorphic		below treeline	1	0	1	0	0	0	0	0	
active	furrow	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	0	0	1	0	1	0	0	0	
inactive	furrow	metamorphic		below meadows line	0	1	0	0	0	1	0	0	
active	cirque	metamorphic		below meadows line	0	1	1	0	0	1	0	0	
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	0	1	
active	cirque	metamorphic		below meadows line	0	1	1	0	0	1	0	0	
inactive	furrow	metamorphic		below meadows line	1	0	1	0	0	0	1	0	
inactive	furrow	metamorphic		below meadows line	0	0	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	0	1	1	0	0	0	0	1	
active	cirque	metamorphic		below meadows line	0	1	0	1	1	0	0	0	
inactive	furrow	metamorphic		below meadows line	0	0	1	1	1	0	0	0	
inactive	cirque	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
inactive	furrow	metamorphic		below meadows line	0	1	0	0	0	0	0	1	
inactive	furrow	metamorphic		below meadows line	0	0	1	1	0	0	0	0	
active	cirque	metamorphic	glacier	above	1	0	1	1	1	0	0	0	
inactive	furrow	metamorphic		below meadows line	0	0	1	1	1	0	0	0	
active	cirque	metamorphic	glacierets	above	0	1	1	0	0	0	0	0	
active	slope	metamorphic		above	1	0	1	1	0	0	0	0	
inactive	cirque	metamorphic	glacierets	above	0	1	1	0	0	1	0	0	
uncertain activity	furrow	metamorphic	glacierets	above	0	1	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1	1	
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	0	1	
inactive	cirque	metamorphic	glacierets	below meadows line	0	0	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	1	1	0	0	0	
inactive	slope	metamorphic		snowbank	below meadows line	0	1	1	1	1	0	0	0
inactive	cirque	metamorphic	snowbank	below meadows line	0	1	1	0	0	0	0	1	
active	cirque	metamorphic		below meadows line	0	1	1	1	0	0	0	0	
active	cirque	metamorphic		below meadows line	0	1	1	1	1	0	0	0	
inactive	cirque	metamorphic		below meadows line	0	1	1	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
inactive	furrow	metamorphic		below meadows line	1	1	1	0	0	0	0	1	
active	furrow	metamorphic		above	1	0	0	1	0	0	0	0	
active	furrow	metamorphic	glacier	above	0	1	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	1	0	0	0	1	
active	slope	metamorphic		below meadows line	0	1	1	1	1	0	0	0	
uncertain activity	furrow	metamorphic	glacierets	below meadows line	1	0	1	1	1	0	0	0	
inactive	furrow	metamorphic		below meadows line	0	0	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	1	0	1	1	0	0	0	1	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	0	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	0	0	
inactive	furrow	metamorphic		below meadows line	1	0	1	0	0	0	0	0	
inactive	cirque	metamorphic	glacierets	above	1	1	1	0	0	0	0	1	
inactive	cirque	metamorphic	glacierets	above	0	1	0	0	0	0	0	0	
inactive	cirque	metamorphic	glacierets	above	1	1	1	0	0	0	0	0	
inactive	slope	metamorphic	glacierets	above	0	0	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	1	0	0	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	0	1	0	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	0	0	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	0	1	
uncertain activity	slope	metamorphic		below meadows line	0	0	1	0	0	0	0	1	
active	slope	metamorphic		below meadows line	1	0	1	0	0	0	0	0	
active	slope	metamorphic		below meadows line	1	1	1	1	1	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	1	0	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	0	0	0	
active	furrow	metamorphic		below meadows line	0	1	1	0	1	0	0	0	
inactive	cirque	metamorphic	glacierets	above	1	1	1	0	0	0	0	1	
inactive	cirque	metamorphic	glacierets	above	0	1	0	0	0	0	0	0	
inactive	cirque	metamorphic	glacierets	above	1	1	1	0	0	0	0	0	
inactive	slope	metamorphic	glacierets	above	0	0	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	1	0	0	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	0	1	0	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	0	0	1	0	0	0	0	0	
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	0	1	
uncertain activity	slope	metamorphic		below meadows line	0	0	1	0	0	0	0	1	
inactive	slope	metamorphic		below meadows line	1	1	1	1	1	0	0	0	
inactive	cirque	metamorphic		below meadows line	0	1	1	0	0	0	0	1	

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
3	4	SE	1163	46°51'10"N	10°36'00"E	Croda delle Pecore	2675	2750	14	52500	S	175	300
3	4	SE	1164	46°51'25"N	10°36'40"E	Forcella delle Capre	2700	2750	18	45000	S	300	150
3	4	SE	1165	46°51'30"N	10°37'30"E	M. Cantone 1	2600	2725	14	150000	SSE	300	500
3	4	SE	1166	46°51'30"N	10°37'50"E	M. Cantone 2	2575	2800	17	112500	SSE	150	750
3	4	SE	1167	46°51'40"N	10°39'40"E	Croda delle Galline 1	2700	2825	13	25000	SE	225	550
3	4	SE	1168	46°51'40"N	10°39'50"E	Croda delle Galline 2	2610	2725	12	8000		175	525
3	4	SE	1169	46°52'20"N	10°39'50"E	Punta della Gallina 2	2820	2875	12	30000	S	125	250
3	4	SE	1170	46°52'00"N	10°40'40"E	Crode Bagnate	2810	2900	18	34375	S	125	275
3	4	SE	1171	46°51'50"N	10°40'40"E	Punta della Gallina 3	2630	2755	21	52000	SW	160	325
3	4	SE	1172	46°51'40"N	10°41'10"E	Forcella dell'Anticima	2670	2850	20	15000	W	125	500
3	4	SE	1173	46°51'30"N	10°41'10"E	Croda Nera	2625	2775	27	75000	NW	250	300
3	4	SE	1174	46°51'20"N	10°01'00"E	Piano Sammet	2550	2875	23	175500	W	225	780
3	4	SE	1175	46°50'20"N	10°35'10"E	Mandola di Pleif	2413	2650	16	170100	SE	210	810
3	4	SW	1176	46°50'25"N	10°34'40"E	Cima Pian dei Morti	2550	2700	9	308750	S	325	950
3	4	SW	1177	46°50'40"N	10°33'42"E	Gold Seen	2600	2725	16	112500	NNE	250	450
3	4	SW	1178	46°50'44"N	10°32'56"E	Cima Castello	2325	2625	14	420000	NW	350	1200
3	4	SW	1179	46°50'35"N	10°32'30"E	Cima Pian dei Morti 1	2470	2550	20	16875	W	75	225
3	4	SW	1180	46°50'15"N	10°33'55"E	Cima Pian dei Morti 2	2575	2700	21	276250	SSE	850	325
3	4	SW	1181	46°50'05"N	10°32'05"E	Cima Pian dei Morti 3	2550	2700	11	131250		175	750
3	4	SW	1182	46°50'25"N	10°28'45"E	La Cupla	2440	2700	33	60000	E	150	400
3	4	SW	1183	46°50'20"N	10°28'50"E	Forcola del Piz Nair	2300	2570	15	200000	E	200	1000
3	4	SW	1184	46°50'23"N	10°32'47"E	Piz Lac	2680	2750	22	118125	NNE	675	175
3	4	SW	1185	46°51'01"N	10°28'40"E	Cima Pian dei Morti	2700	2775	18	16875	NNW	75	225
4	1	NW	1186	46°56'20"N	11°18'30"E	Passo di Farma	2325	2400	17	31250	N	125	250
4	1	NW	1187	46°56'15"N	11°18'40"E	M. Muro	2450	2525	27	11250	N	75	150
4	1	NW	1188	46°56'15"N	11°19'10"E	Passo del Muro	2225	2300	11	56250	NE	150	375
4	1	SE	1189	46°55'20"N	11°21'41"E	Punta del Lago	2275	2300	9	11250	SE	75	150
4	1	SE	1190	46°50'20"N	11°26'00"E	Cima Specola	2025	2245	14	131250	NNW	150	875
4	1	SE	1191	46°50'15"N	11°20'50"E	Lasta Alta	2050	2150	14	40000	NNW	100	400
4	1	SW	1192	46°51'25"N	11°16'30"E	M. Alta Croce 1	2575	2915	51	48125	N	175	275
4	1	SW	1193	46°51'35"N	11°13'10"E	M. Alta Croce 2	2150	2400	16	175000	N	200	875
4	1	SW	1194	46°51'20"N	11°13'25"E	M. Alta Croce 3	2150	2450	26	109375	NE	175	625
4	1	SW	1195	46°50'35"N	11°13'40"E	M. Fumaiolo	2100	2265	33	112500	N	450	250
4	1	SW	1196	46°51'20"N	11°13'35"E	M. Alta Croce 4	2160	2375	28	40000	NE	100	400
4	1	SW	1197	46°55'50"N	11°18'30"E	Malgo Prischer	2050	2370	21	205000	SW	250	820
4	2	NE	1198	46°48'10"N	11°24'40"E	Alpe di Pian di Cavallo	1975	2165	18	115000	N	200	575
4	2	NE	1199	46°49'20"N	11°25'45"E	Pta di Campo	2020	2150	15	100000	NW	200	500
4	2	NE	1200	46°45'55"N	11°26'05"E	Cima di Giogo Bella	2075	2175	18	45000	N	150	300
4	3	NW	1201	46°45'00"N	11°03'40"E	Cima della Grova	2300	2400	15	93750	NE	250	375
4	3	NW	1202	46°45'25"N	11°03'30"E	Costa di Lazina	2275	2470	44	15000	SE	75	200
4	3	NE	1203	46°49'50"N	11°07'10"E	M. Scabro 1	2600	2700	15	75000	NNE	200	375
4	3	SW	1204	46°44'45"N	11°03'04"E	Cima Bianca Grande	2570	2625	9	52500	NE	150	350
4	3	SW	1205	46°42'56"N	10°57'28"E	Le Cune	2700	2775	23	13125	NNE	75	175
4	3	SW	1206	46°43'00"N	11°03'08"E	Pta di Tabia	2675	2750	23	21875	N	125	175
4	3	SW	1207	46°43'36"N	11°03'15"E	Passo del Colle Gigot.	2625	2675	13	28125	N	125	225
4	4	NE	1208	46°55'45"N	11°09'14"E	Forcella del Lago Nero	2525	2675	22	56250	SSE	150	375
4	4	SE	1209	46°51'28"N	11°11'40"E	Guardialta 1	2330	2450	26	43750	N	175	250
4	4	SE	1210	46°51'25"N	11°11'48"E	Guardialta 2	2350	2450	18	67500	N	225	300
4	4	SE	1211	46°52'00"N	11°10'53"E	M. Genda	2175	2295	11	60000	N	100	600
4	4	SE	1212	46°50'03"N	11°06'44"E	M. Scabro 2	2550	2625	17	37500	N	150	250
4	4	SE	1213	46°54'40"N	11°10'03"E	Forcella di Cintola 1	2475	2600	24	27500	ENE	100	275
4	4	SE	1214	46°54'41"N	11°10'23"E	Forcella di Cintola 2	2625	2700	23	39025	N	223	175
1	2	SE	1215	47°00'20"N	11°52'15"E	Sasso Nero	2850	3025	32	34375	S	125	275
1	2	SE	1216	47°00'06"N	11°54'20"E	Cresta di Ritorbo	2100	2300	27	60000	E	150	400
1	2	SE	1217	47°01'18"N	11°55'40"E	Pta Ritorbo	2450	2575	23	60000	NE	200	300
1	2	SE	1218	47°00'42"N	11°55'45"E	M. Nudo 1	2300	2425	32	25000	E	125	200
1	2	SE	1219	47°00'12"N	11°56'10"E	M. Nudo 2	2100	2260	28	48000	SE	160	300
1	2	SE	1220	47°00'05"N	11°56'00"E	Malga dei Larici	2080	2300	27	53125	SE	125	425
1	3	SE	1221	47°00'20"N	11°35'25"E	La Gerla 1	2300	2500	34	300	S		300
1	3	SE	1222	47°00'21"N	11°35'43"E	La Gerla 2	2550	2648	19	33600	S	120	280
1	3	SE	1223	47°00'30"N	11°37'25"E	Croda Alta	2600	2750	37	20000	SSW	100	200
1A	2	SW	1224	47°03'14"N	12°11'24"E	Pie di Cavallo	2750	2825	21	20000	SW	100	200
1A	3	SE	1225	47°02'45"N	12°06'02"E	Malga Prettau	1975	2125	19	74375	SE	175	425
1A	3	SE	1226	47°03'25"N	12°04'46"E	Lago della Selva 1	2350	2435	23	30000	S	150	200
1A	3	SE	1227	47°03'38"N	12°04'57"E	Lago della Selva 2	2350	2500	19	53125	S	125	425
1A	3	SE	1228	47°04'00"N	12°04'40"E	M. Fumo	2625	2750	23	60000	SW	200	300
1A	3	SE	1229	47°03'42"N	12°04'40"E	Lago della Selva 3	2460	2525	27	9375	SW	75	125
1A	3	SE	1230	47°03'42"N	12°05'20"E	Lago della Selva 4	2460	2530	29	15625	S	125	125
1A	3	SE	1231	47°03'20"N	12°05'58"E	Malga Prato Alto	2060						
1A	3	SE	1232	47°03'38"N	12°05'26"E	Malga Arca	2250	2375	29	22500	NE	100	225
1A	3	SE	1233	47°04'10"N	12°06'53"E	Costa del Termine	2550	2650	24	28125	SW	125	225
1A	3	SE	1234	47°04'23"N	12°07'54"E	Pta Val del Vento	2475	2650	24	60000	SE	150	400
1A	3	SE	1235	47°04'11"N	12°09'14"E	Costa Val delle Frane	2125	2300	32	13750	SE	50	275



<i>Sheet</i>	<i>Quadrant</i>	<i>Map orientation</i>	<i>Identification No.</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Name</i>	<i>Mimum altitude (m a.s.l.)</i>	<i>Maximum altitude (m a.s.l.)</i>	<i>Slope (deg)</i>	<i>Surface area (m<sup>2</sup>)</i>	<i>Aspect</i>	<i>Max width</i>	<i>Max length</i>
1A	3	SE	1236	47°04'55"N	12°10'55"E	Piccolo Tauro	2375	2550	24	40000	S	100	400
1A	3	SE	1237	47°03'40"N	12°11'46"E	Predoi 3020 1	2410	2700	28	55000	NW	100	550
1A	3	SE	1238	47°03'35"N	12°11'35"E	Predoi 3020 2	2500	2650	33	32200	NW	140	230
1A	3	SE	1239	47°03'10"N	12°09'40"E	Predoi 3020 3	1925	2275	38	78750	N	175	450
1A	3	SE	1240	47°03'09"N	12°09'38"E	Cima Ferrera	2025	2190	43	13125	N	75	175
1A	3	SE	1241	47°02'50"N	12°09'18"E	M.Sella	2300	2425	27	31250	NW	125	250
1A	3	SE	1242	47°01'44"N	12°10'54"E	Pzo Caminata	2500	2560	26	21875	N	175	125
1A	3	SE	1243	47°01'40"N	12°07'03"E	Alpe Lunga 1	2090	2400	26	93750	NW	150	625
1A	3	SE	1244	47°01'28"N	12°06'40"E	Alpe Lunga 2	2100	2200	24	28125	NW	125	225
1A	3	SE	1245	47°00'41"N	12°05'22"E	Alpe di Apre	1975	2050	17	37500	NW	150	250
1A	3	SW	1246	47°00'50"N	11°58'22"E	Passo di Farma	2035	2125	17	60000	E	200	300
1A	3	SW	1247	47°03'00"N	12°02'12"E	Giogo di Mezzo	2490	2570	28	11250	SE	75	150
1A	3	SW	1248	47°03'18"N	12°02'58"E	Lago di Gries	2600	2680	12	75000	SE	200	375
1A	3	SW	1249	47°02'34"N	12°03'20"E	Malghe di Gries	2100	2325	22	68750	SW	125	550
1A	3	SW	1250	47°02'55"N	12°04'00"E	Cima Triangolo	2350	2600	23	135000	SE	225	600
1A	3	SW	1251	47°02'46"N	12°04'10"E	Alpe delle Fosse 1	2275	2400	21	40625	SE	125	325
1A	3	SW	1252	47°02'34"N	12°03'57"E	Alpe delle Fosse 2	2325	2400	27	41250	SE	275	150
1A	3	SW	1253	47°02'05"N	12°04'10"E	M. Faden	2125	2200	13	24375	S	75	325
4A	1	NW	1254	46°58'22"N	11°49'23"E	Forcola del Prete	2470	2665	27	56250	E	150	375
4A	1	NW	1255	46°57'30"N	11°49'39"E	Malga del Toro	2025	2150	11	203125	NE	325	625
4A	1	NW	1256	46°57'23"N	11°48'56"E	Passo di Neves	2325	2390	11	61250	NE	175	350
4A	1	NW	1257	46°56'54"N	11°48'54"E	Croda Bianca	2475	2570	22	20700	E	90	230
4A	1	NW	1258	46°56'53"N	11°49'24"E	Malga dei Covoni	2360	2400	8	60000	NE	200	300
4A	1	NW	1259	46°56'50"N	11°49'20"E	Cima dei Covoni	2345	2420	27	22500	NE	150	150
4A	1	NW	1260	46°57'09"N	11°47'50"E	Alpe di Neves	2265	2310	12	35875	W	175	205
4A	1	NW	1261	46°57'21"N	11°48'50"E	Rifugio Giovanni Porro 1	2340	2425	16	36000	W	120	300
4A	1	NW	1262	46°57'16"N	11°48'27"E	Rifugio Giovanni Porro 2	2310	2375	22	19200	W	120	160
4A	1	NW	1263	46°57'12"N	11°48'24"E	Rifugio Giovanni Porro 3	2325	2400	31	12500	NW	100	125
4A	1	NW	1264	46°57'06"N	11°48'40"E	Cima delle Pecore	2425	2480	24	12500	NW	100	125
4A	1	NW	1265	46°56'41"N	11°48'22"E	Croda Bianca	2340	2490	11	206250	S	275	750
4A	1	NW	1266	46°56'17"N	11°48'27"E	Malga Rinna 1	2220	2320	17	32500	SW	100	325
4A	1	NW	1267	46°56'17"N	11°48'21"E	Malga Rinna 2	2220	2320	15	56250	S	150	375
4A	1	NW	1268	46°56'08"N	11°48'06"E	Malga Rinna 3	2150	2250	12	35625	S	75	475
4A	1	NW	1269	46°56'44"N	11°47'41"E	Quaira di Evis	2225	2300	17	10000	W	40	250
4A	1	NW	1270	46°56'42"N	11°45'23"E	Valle della Pipa	2250	2375	40	9000	N	60	150
4A	1	NW	1271	46°55'56"N	11°45'24"E	Valle del Lago	2355	2455	22	175000	SW	700	250
4A	1	NW	1272	46°56'55"N	11°42'33"E	M. Guardia Alta 1	2625	2800	16	203125	SW	325	625
4A	1	NW	1273	46°56'53"N	11°42'58"E	M. Guardia Alta 2	2825	2875	27	20000	S	200	100
4A	1	NW	1274	46°56'44"N	11°43'06"E	M. Guardia Alta 3	2725	2850	20	35000	SW	100	350
4A	1	NW	1275	46°56'34"N	11°43'05"E	M. Guardia Alta 4	2645	2675	19	8500	SW	100	85
4A	1	NW	1276	46°56'56"N	11°42'40"E	M. Guardia Alta 5	2675	2850	28	40625	SE	125	325
4A	1	NW	1277	46°57'07"N	11°43'51"E	Forcella della Punta Bianca	2680	2780	30	26250	SE	150	175
4A	1	NE	1278	46°56'40"N	11°50'02"E	Malga Villetta	2025	2150	18	46875	NE	125	375
4A	1	NE	1279	46°59'25"N	11°50'50"E	M. Corno	2560	2590	7	37500	SE	150	250
4A	1	NE	1280	46°59'40"N	11°52'30"E	Cirn Fadrler Grande	2492	2600	2	37500	E	125	3000
4A	1	NE	1281	46°55'02"N	11°54'40"E	Malga Michele di Fuori	2050	2200	25	24375	E	75	325
4A	1	NE	1282	46°55'11"N	11°54'44"E	Malga Michele di Dentro	2030	2195	2	70000	N	175	4000
4A	1	NE	1283	46°55'49"N	11°53'33"E	Il Dosso	1995	2150	21	50000	NE	125	400
4A	1	NE	1284	46°55'27"N	11°52'59"E	Malghe di Mezzanotte	2070	2250	22	67500	NW	150	450
4A	1	NE	1285	46°55'16"N	11°52'45"E	Giogo di Selva E	2125	2250	20	61250	N	175	350
4A	1	NE	1286	46°55'11"N	11°52'17"E	Giogo di Selva centrale	2140	2160	3	65625	NE	175	375
4A	1	NE	1287	46°55'12"N	11°52'08"E	Giogo di Selva W	2150	2235	15	56875	N	175	325
4A	1	NE	1288	46°55'11"N	11°51'32"E	Alpe Gallina	2250	2350	22	25000	N	100	250
4A	1	NE	1289	46°55'10"N	11°51'42"E	Val dei Covoni	2150	2200	8	103125	NW	275	375
4A	1	SE	1290	46°54'41"N	11°51'10"E	Alpe di Pastro	2260	2350	14	56250	S	150	375
4A	1	SE	1291	46°52'21"N	11°50'58"E	Cima Dodici 1	1890	2125	25	50000	NE	100	500
4A	1	SE	1292	46°52'09"N	11°50'58"E	Cima Dodici 2	2075	2175	22	43750	E	175	250
4A	1	SE	1293	46°52'19"N	11°52'04"E	Alpe Casera 2	1990	2100	22	61875	NE	225	275
4A	1	SE	1294	46°52'06"N	11°53'48"E	Alpe del Ponte 1	2075	2175	22	25000	N	100	250
4A	1	SE	1295	46°52'13"N	11°54'10"E	Alpe del Ponte 2	1930	2100	14	118125	N	175	675
4A	1	SE	1296	46°51'06"N	11°54'02"E	Alpe Peralba	2035	2175	18	53125	S	125	425
4A	1	SE	1297	46°51'21"N	11°53'36"E	Sambock	2215	2250	13	11250	NW	75	150
4A	1	SE	1298	46°51'18"N	11°53'18"E	Alpe di Plat	2145	2175	31	10000	E	200	50
4A	1	SE	1299	46°51'35"N	11°52'15"E	Alpe Valperna	2200	2325	16	38250	S	90	425
4A	1	SE	1300	46°51'28"N	11°51'33"E	Lago Verde	2190	2215	11	18750	SW	150	125
4A	1	SW	1301	46°54'17"N	11°46'17"E	Flemm	2085	2270	16	140625	N	225	625
4A	1	SW	1302	46°53'09"N	11°46'04"E	Lago del Passo	2440	2500	15	22500	N	100	225
4A	1	SW	1303	46°52'18"N	11°47'10"E	Malga Pausa	2390	2475	14	131250	W	375	350
4A	1	SW	1304	46°52'46"N	11°46'54"E	Forcola di Segà Alta	2375	2425	22	31250	S	250	125
4A	1	SW	1305	46°52'34"N	11°46'45"E	Rifugio Lago di Pausa	2325	2425	22	81250	E	325	250
4A	1	SW	1306	46°52'12"N	11°47'14"E	Cima Campo Fosso 1	2065	2225	16	82500	E	150	550
4A	1	SW	1307	46°52'05"N	11°47'18"E	Cima Campo Fosso 2	2080	2150	17	22500	NE	100	225
4A	1	SW	1308	46°52'21"N	11°48'33"E	M. Stipa	2300	2425	14	50000	SW	100	500

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
inactive	cirque	metamorphic		above	0	1	0	1	0	0	1
uncertain activity	furrow	metamorphic		above	0	1	0	1	0	0	0
uncertain activity	slope	metamorphic		above	0	0	0	1	0	0	0
inactive	slope	metamorphic		below treeline	0	0	0	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	1	0
active	cirque	metamorphic		above	0	0	1	0	1	0	0
inactive	slope	metamorphic		below treeline	0	0	0	1	0	0	1
inactive	slope	metamorphic		below treeline	0	1	1	1	0	1	0
inactive	slope	metamorphic		below treeline	0	0	0	1	0	0	1
inactive	cirque	metamorphic		below treeline	0	0	0	1	0	0	0
uncertain activity	cirque	metamorphic		above	0	0	1	1	1	0	0
active	cirque	metamorphic		above	0	1	1	1	1	0	0
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	cirque	metamorphic		above	0	1	0	1	0	1	1
inactive	slope	metamorphic		above	0	1	1	1	0	0	0
inactive	slope	metamorphic		above	0	0	1	0	1	0	0
inactive	slope	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	cirque	metamorphic		above	0	0	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	0	0	1	0	1	1
inactive	slope	metamorphic		below meadows line	0	0	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	0	0	1	0	1	1
active	slope	metamorphic		below meadows line	1	0	0	1	0	1	1
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	1	0	1	0	0
inactive	valley	metamorphic		below meadows line	1	0	1	1	1	0	0
inactive	slope	metamorphic		below meadows line	0	0	0	0	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	1	0	1	0	0
inactive	slope	metamorphic		below meadows line	0	0	1	0	1	0	0
uncertain activity	furrow	metamorphic		above	0	0	1	0	1	0	0
uncertain activity	slope	metamorphic		above	1	0	1	1	1	1	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	1	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	0	1	0	0	0
inactive	slope	metamorphic		below meadows line	0	0	1	0	0	0	0
inactive	slope	metamorphic		below meadows line	0	1	1	0	0	1	0
uncertain activity	cirque	metamorphic		above	0	1	0	1	0	0	1
active	cirque	metamorphic		above	0	0	1	0	1	0	0
active	cirque	metamorphic		above	0	1	0	1	1	0	0
uncertain activity	cirque	metamorphic		above	0	0	1	0	0	0	0
active	cirque	metamorphic		above	0	1	1	1	0	0	0
active	cirque	metamorphic		above	0	0	1	0	1	0	0
inactive	valley	metamorphic		below meadows line	0	0	0	1	0	0	1
uncertain activity	cirque	metamorphic	glacier	above	0	0	1	0	0	0	0
uncertain activity	cirque	metamorphic		above	0	1	0	1	0	1	1
inactive	cirque	metamorphic		below treeline	0	0	0	1	0	0	1
inactive	cirque	metamorphic		below treeline	0	1	1	1	0	1	0
inactive	cirque	metamorphic		below treeline	0	0	0	1	0	0	1
inactive	cirque	metamorphic		below treeline	0	0	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	0
inactive	cirque	metamorphic		above	0	1	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	slope	metamorphic		below meadows line	0	0	1	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	1	0	0	0	1
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	0	1
inactive	cirque	metamorphic		above	0	1	0	1	0	0	1
inactive	cirque	metamorphic		above	1	1	1	1	1	0	0
inactive	cirque	metamorphic		above	1	0	1	0	0	1	0
inactive	cirque	metamorphic		above	1	1	1	0	0	0	0
inactive	cirque	metamorphic		below meadows line	1	1	0	1	0	1	1
inactive	cirque	metamorphic		below meadows line	0	0	0	1	0	0	0
inactive	cirque	metamorphic		below meadows line	0	0	0	0	0	0	0
inactive	cirque	metamorphic		below meadows line	1	0	1	0	0	1	1
inactive	cirque	metamorphic		above	1	1	1	1	1	0	0
inactive	cirque	metamorphic		above	1	1	1	1	1	0	0
inactive	cirque	metamorphic		above	1	0	1	0	0	1	0
inactive	cirque	metamorphic		below meadows line	1	1	0	1	0	1	1
inactive	slope	metamorphic		below meadows line	0	0	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	0	0	1	0	0	1
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	1	0
inactive	valley	metamorphic		below meadows line	1	1	0	1	0	1	1
inactive	slope	metamorphic		below meadows line	0	0	0	1	0	1	0
inactive	cirque	metamorphic		below meadows line	0	1	0	1	0	1	1

<i>Sheet</i>	<i>Quadrant</i>	<i>Map orientation</i>	<i>Identification No.</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Name</i>	<i>Minimum altitude (m a.s.l.)</i>	<i>Maximum altitude (m a.s.l.)</i>	<i>Slope (deg)</i>	<i>Surface area (m<sup>2</sup>)</i>	<i>Aspect</i>	<i>Max width</i>	<i>Max length</i>
4A	1	SW	1309	46°52'23"N	11°49'32"E	Grande Porta E	2135	2200	12	37500	NE	125	300
4A	1	SW	1310	46°52'23"N	11°49'19"E	Grande Porta Centrale	2145	2250	18	113750	N	350	325
4A	1	SW	1311	46°52'31"N	11°49'10"E	Grande Porta W	2160	2275	30	25000	SE	125	200
4A	1	SW	1312	46°52'00"N	11°49'10"E	M. Mutta	2265	2325	19	14000	NW	80	175
4A	1	SW	1313	46°51'44"N	11°46'04"E	Monte Alto	2150	2175	18	9375	NE	125	75
4A	3	NW	1314	46°48'49"N	11°29'23"E	Montaccio di Pennes 1	2175	2275	16	26250	NE	75	350
4A	3	NW	1315	46°48'40"N	11°29'33"E	Montaccio di Pennes 2	1990	2125	15	115000	NE	230	500
4A	3	NW	1316	46°45'27"N	11°33'40"E	Cima della Valanga 1	2250	2350	16	26250	SSE	75	350
4A	3	NW	1317	46°45'12"N	11°32'58"E	Cima della Valanga 2	2275	2375	12	48000	S	100	480
4A	3	NW	1318	46°45'04"N	11°33'03"E	Punta Quaira 3	2200	2275	1	300000	SE	100	3000
4A	3	NW	1319	46°45'39"N	11°32'41"E	Punta Quaira 4	2100	2300	30	42000	NW	120	350
4A	3	NW	1320	46°45'57"N	11°32'54"E	Punta Pradisacco	2125	2150	12	10800	N	90	120
4A	3	NW	1321	46°47'04"N	11°32'07"E	M. della Croce	2050	2085	7	36000	NE	120	300
4A	3	NW	1322	46°47'04"N	11°32'22"E	M. Casurz	2010	2050	22	7000	N	70	100
4A	3	NW	1323	46°45'09"N	11°30'41"E	Lago nero Muckleiten	2270	2300	7	1000000	NW	4000	250
4A	3	NW	1324	46°47'14"N	11°31'44"E	Ometto Rosso	2150	2200	16	13125	NE	75	175
4A	3	SW	1325	46°43'28"N	11°30'10"E	Forcella Di Searles	2160	2260	16	45000	W	150	300
4A	3	SW	1326	46°42'53"N	11°30'33"E	Corno Planes	2225	2350	19	66600	SW	180	370
4A	3	SW	1327	46°42'45"N	11°30'06"E	Cima S. Cassiano 1	2300	2375	15	35000	NE	125	280
4A	3	SW	1328	46°42'32"N	11°30'22"E	Cima S. Cassiano 2	2125	2250	10	140000	SSE	200	700
4A	3	SW	1329	46°43'00"N	11°33'28"E	Laghi Gelati	2080	2200	19	47250	N	135	350
4A	3	SW	1330	46°42'35"N	11°29'03"E	Cima Ghetrum	2400	2450	14	25000	S	125	200
4A	4	NW	1342	46°58'50"N	11°35'10"E	Pta del Lago Romito	1980	2400	19	300000	SE	250	1200
4A	4	NW	1343	46°59'30"N	11°34'50"E	Alpe Piristi	2450	2540	20	25000	SE	100	250
4A	4	NW	1344	46°59'20"N	11°36'10"E	Spina del Lupo 1	2400	2550	22	45000	SW	120	375
4A	4	NW	1345	46°59'00"N	11°36'00"E	Spina del Lupo 2	2310	2405	19	20625	S	75	275
4A	4	NW	1346	46°58'30"N	11°35'50"E	Alpe di Ponte Fosse	1950	2290	17	297000	S	270	1100
4A	4	NE	1347	46°57'20"N	11°39'54"E	Pta Rossa 1	2450	2575	15	59800	NE	130	460
4A	4	NE	1348	46°57'08"N	11°39'40"E	Pta Rossa 2	2475	2650	28	73125	NW	225	325
4A	4	NE	1349	46°57'28"N	11°38'38"E	Val di Vizze	2200	2400	19	100625	NW	175	575
4A	4	NE	1350	46°56'24"N	11°35'06"E	Felbes a Ponite	2450	2500	16	17000	E	100	170
4A	4	NE	1351	46°59'07"N	11°31'18"E	Rifugio di Venna	1980	2070	10	75000	S	150	500
4A	4	NE	1352	46°59'49"N	11°36'48"E	La Cascata	2115	2175	8	63750	SW	150	425
4A	4	NE	1353	46°56'23"N	11°39'10"E	Alpe di Monte Largo	2250	2445	10	575000	SW	500	1150
4A	4	SE	1354	46°54'14"N	11°35'13"E	Cima del Colle 1	2420	2475	9	42000	SE	120	350
4A	4	SE	1355	46°51'33"N	11°36'38"E	Cima Piatta 1	2150	2350	14	160000	SE	200	800
4A	4	SE	1356	46°51'32"N	11°35'40"E	Cima Piatta 2	2250	2330	18	31250	S	125	250
4A	4	SE	1357	46°51'48"N	11°34'43"E	Dosso Muta	2215	2275	5	65000	W	100	650
4A	4	SE	1358	46°51'43"N	11°36'07"E	Cima Piatta 3	2200	2400	20	110000	S	200	550
4A	4	SE	1359	46°52'11"N	11°36'02"E	Cima Piatta 4	2270	2500	21	73200	E	120	610
4A	4	SE	1360	46°51'38"N	11°39'08"E	Cima della Capra	2120	2300	16	122000	E	200	610
4A	4	SE	1361	46°52'21"N	11°38'40"E	Malghe Stino	2170	2270	22	25000	NW	100	250
4A	4	SE	1362	46°52'05"N	11°43'31"E	Passo di Valzara	2050	2150	18	15000	N	50	300
4A	4	SE	1363	46°53'41"N	11°34'40"E	Cima di Colle 2	2400	2525	17	70000	W	175	400
4A	4	SW	1364	46°53'40"N	11°34'40"E	Cima Sella	2100	2350	23	150000	N	250	600
4B	1	SW	1365	46°50'20"N	12°18'10"E	M. Bosco	2360	2455	6	237500	W	250	950
4B	1	SW	1366	46°50'40"N	12°17'25"E	Alpe Stumpf	2200	2350	9	400000	SW	400	1000
4B	1	SW	1367	46°50'50"N	12°17'10"E	Malga di Casera	2225	2440	18	195000	W	300	650
4B	1	SW	1368	46°51'15"N	12°16'55"E	Forcola di Foi 1	2200	2400	22	90000	W	180	500
4B	1	SW	1369	46°51'30"N	12°17'00"E	Forcola di Foi 2	2100	2340	22	150000	W	250	600
4B	1	SW	1370	46°50'25"N	12°12'40"E	Fienili Pini	2050	2400	14	595000	NE	425	1400
4B	1	SW	1371	46°51'30"N	12°12'15"E	Rio della Casera	2460	2625	18	55990	SE	110	509
4B	1	SW	1372	46°51'45"N	12°13'10"E	Alpe Verbon	2375	2575	14	200000	E	250	800
4B	1	SW	1373	46°52'05"N	12°13'40"E	Malga di Dentro 1	2200	2300	22	31250	NE	125	250
4B	1	SW	1374	46°53'05"N	12°13'55"E	Malga di Dentro 2	2350	2470	17	60000	SE	150	400
4B	1	SW	1375	46°53'00"N	12°16'10"E	Forcola di Casies	2250	2395	17	96000	W	200	480
4B	1	SW	1376	46°52'30"N	12°15'55"E	Malga Alta Croce	2200	2320	17	100000	NW	250	400
4B	2	NW	1377	46°46'25"N	12°18'55"E	Della Chiesa	2215	2347	18	200000	NW	500	400
4B	2	NW	1378	46°46'35"N	12°18'30"E	Alpe di S. Silvestro	2130	2570	26	112500	S	125	900
4B	2	NW	1379	46°47'00"N	12°16'25"E	Bocchetta di Fana	2325	2415	17	30000	NW	100	300
4B	2	NW	1380	46°47'20"N	12°14'50"E	Alpe Montemara 1	1925	2240	17	231000	NW	220	1050
4B	2	NW	1381	46°47'30"N	12°15'30"E	Alpe Montemara 2	2125	2475	19	250000	W	250	1000
4B	2	NW	1382	46°47'45"N	12°17'00"E	Coste di Vallesella	2225	2345	22	165000	W	550	300
4B	2	NW	1383	46°48'20"N	12°17'10"E	Laninger 1	2175	2395	20	132000	SW	220	600
4B	2	NW	1384	46°48'35"N	12°17'10"E	Laninger 2	2350	2425	14	30000	S	100	300
4B	2	NW	1385	46°48'50"N	12°16'32"E	Bosco di Bando	2200	2420	20	75000	SW	125	600
4B	2	NW	1386	46°49'15"N	12°17'00"E	Pzo Quaira	2200	2270	19	60000	NW	300	200
4B	2	NW	1387	46°49'40"N	12°17'50"E	Montecolle	2227			165000	NW	150	1100
4B	3	NE	1388	46°49'50"N	12°09'10"E	Amperberg 1	2275	2400	24	247500	N	900	275
4B	3	NE	1389	46°49'50"N	12°09'40"E	M. Frisio	2060	2190	8	323750	NE	350	925
4B	3	NE	1390	46°48'30"N	12°10'10"E	Cima dell'Acquasetta	2090	2275	20	125000	N	250	500
4B	3	NE	1391	46°48'20"N	12°09'10"E	M. Novale di Fuori	2075	2265	13	320000	NW	400	800
4B	3	NE	1392	46°48'20"N	12°08'05"E	M. Salomone	2025	2130	15	30000	N	75	400



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Mimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
4B	3	NE	1393	46°47'55"N	12°09'40"E	Roda di Scandole	2170	2235	20	180000	NW	1000	180
4B	4	NW	1394	46°57'17"N	11°57'52"E	Cresta di Poia	2050	2200	21	30000	W	75	400
4B	4	NW	1395	46°57'25"N	11°58'00"E	Faden 1	2100	2200	13	45000	NW	100	450
4B	4	NW	1396	46°57'35"N	11°58'12"E	Faden 2	2050	2200	10	127500	NW	150	850
4B	4	NW	1397	46°57'40"N	11°58'40"E	M. Fumo	2110	2290	14	281250	NW	375	750
4B	4	NW	1398	46°58'50"N	12°02'58"E	Cima del Gatto	2290	2525	23	110000	NW	200	550
4B	4	NW	1399	46°58'26"N	12°04'28"E	Malga Dura 1	2250	2400	23	43750	E	125	350
4B	4	NW	1400	46°57'58"N	12°03'18"E	Malga Dura 2	2475	2495	9	12500	NE	100	125
4B	4	NW	1401	46°57'49"N	12°01'56"E	Cima Dura 1	2725	2875	25	40625	S	125	325
4B	4	NW	1402	46°57'36"N	12°01'55"E	Cima Dura 2	2650	2800	31	31250	E	125	250
4B	4	NW	1403	46°57'23"N	12°01'47"E	Cima Dura 3	2670	2750	22	20000	SE	100	200
4B	4	NW	1404	46°57'47"N	12°01'52"E	Cima Dura 4	2680	2700	11	15000	E	150	100
4B	4	NW	1405	46°56'11"N	12°01'06"E	Sasso di Dentro	2180	2325	19	46750	S	110	425
4B	4	NW	1406	46°56'20"N	12°00'24"E	M. Cinto	2020	2125	4	412500	SW	300	1375
4B	4	NW	1407	46°56'48"N	11°59'45"E	Alpe di Poia	2150	2475	29	215625	NW	375	575
4B	4	NE	1408	46°56'45"N	12°08'27"E	Alpe di Val Sorgiva	2550	2675	40	37500	S	250	150
4B	4	NE	1409	46°57'00"N	12°08'12"E	Sasso Rosso 1	2620	2675	17	13125	W	75	175
4B	4	NE	1410	46°56'44"N	12°07'40"E	Sasso Rosso 2	2375	2575	20	110000	SW	200	550
4B	4	NE	1411	46°57'05"N	12°07'38"E	Luco dell'Orso 1	2475	2500	18	9375	E	125	75
4B	4	NE	1412	46°57'05"N	12°07'45"E	Luco dell'Orso 2	2475	2540	16	28125	NW	125	225
4B	4	NE	1413	46°57'22"N	12°07'59"E	Sasso Rosso 3	2700	2900	32	65000	W	200	325
4B	4	NE	1414	46°57'39"N	12°07'29"E	Cima dell'Orso	2825	2875	22	6250	NW	50	125
4B	4	NE	1415	46°57'09"N	12°06'38"E	Cima di Costa Fontana 1	2360	2600	29	95625	W	225	425
4B	4	NE	1416	46°57'15"N	12°06'23"E	Malga del Covo di Sopra	2340	2475	7	393750	S	375	1050
4B	4	NE	1417	46°57'22"N	12°07'03"E	Cima di Costa Fontana 2	2500	2550	27	10000	W	100	100
4B	4	NE	1418	46°57'25"N	12°07'03"E	Cima di Costa Fontana 3	2495	2515	15	5625	W	75	75
4B	4	NE	1419	46°57'21"N	12°06'40"E	Cima di Costa Fontana 4	2375	2500	11	65000	S	100	650
4B	4	NE	1420	46°57'09"N	12°05'34"E	Alpe del Covo	2250	2300	11	18750	SW	75	250
4B	4	NE	1421	46°57'20"N	12°05'32"E	Cima di Riva	2300	2360	9	140625	S	375	375
4B	4	NE	1422	46°55'08"N	12°04'55"E	Lago Maler	2520	2625	23	43750	N	175	250
4B	4	NE	1423	46°58'17"N	12°05'53"E	M. Dossi 1	2240	2400	18	100000	W	200	500
4B	4	NE	1424	46°58'14"N	12°06'04"E	M. Dossi 2	2375	2470	44	5000	W	50	100
4B	4	NE	1425	46°58'11"N	12°06'20"E	M. Dossi 3	2540	2625	30	26250	SW	175	150
4B	4	NE	1426	46°58'02"N	12°06'42"E	Costa dei Sassi 1	2600	2700	39	53125	S	425	125
4B	4	NE	1427	46°57'55"N	12°06'57"E	Costa dei Sassi 2	2670	2760	20	25000	W	100	250
4B	4	NE	1428	46°58'07"N	12°07'34"E	Triangolo di Riva	2570	2675	17	157500	NW	450	350
4B	4	NE	1429	46°58'30"N	12°07'40"E	Costazza	2100	2695	22	553125	NW	375	1475
4B	4	SE	1430	46°53'50"N	12°06'45"E	Forcola d'Anterselva	2525	2625	22	40000	S	160	250
4B	4	SE	1431	46°53'00"N	12°06'25"E	Steiniger Bach	1950	2100	31	25000	SE	100	250
4B	4	SE	1432	46°52'10"N	12°11'57"E	Alpe di Stalle	2450	2530	22	20000	E	100	200
4B	4	SE	1433	46°52'30"N	12°11'20"E	Malga Montale di Sopra	2220	2420	22	25000	N	50	500
4B	4	SE	1434	46°51'35"N	12°10'40"E	Croda Rossa	2510	2615	15	360000	S	900	400
4B	4	SE	1435	46°51'25"N	12°08'15"E	Malga Fossa	2040	2240	24	168750	N	375	450
4B	4	SE	1436	46°50'50"N	12°13'30"E	M. Campobove 1	2260	2360	22	125000	N	500	250
4B	4	SE	1437	46°50'40"N	12°11'40"E	M. Campobove 2	2335	2420	12	50000	E	125	400
4B	4	SE	1438	46°50'40"N	12°09'00"E	Malga di Campobove	2230	2320	17	120000	N	400	300
4B	4	SE	1439	46°51'35"N	12°11'20"E	M. Regola 1	2545	2620	27	57000	S	380	150
4B	4	SE	1440	46°50'20"N	12°11'50"E	M. Regola 2	2460	2600	29	65000	W	260	250
4B	4	SE	1441	46°50'50"N	12°11'40"E	M. Alto	2250	2450	23	504000	NW	1050	480
4B	4	SE	1442	46°50'20"N	12°11'40"E	M. Quaira	2190	2285	29	113750	NW	650	175
4B	4	SE	1443	46°50'30"N	12°07'50"E	M. Campobove 3	2210	2350	23	39000	NW	120	325
4B	4	SE	1444	46°50'05"N	12°08'25"E	Forcella di Somma	2350	2400	27	10000	NE	100	100
4B	4	SE	1445	46°50'25"N	12°08'40"E	Alpe Somma	2290	2480	14	174375	SE	225	775
4B	4	SE	1446	46°50'00"N	12°07'40"E	Amperberg 2	2067	2300	16	480000	NW	600	800
4B	4	SW	1447	46°54'30"N	12°01'40"E	Malga Vanga	2027	2760	23	612500	SE	350	1750
4B	4	SW	1448	46°51'30"N	12°02'50"E	Malga Landa	1920	2140	20	102000	SE	170	600
4B	4	SW	1449	46°52'00"N	12°02'50"E	Malga Landa di Sopra	2130	2200	25	75000	SE	500	150
4B	4	SW	1450	46°52'20"N	12°03'40"E	Corno Alto 1	2325	2550	16	200000	W	250	800
4B	4	SW	1451	46°52'00"N	12°03'25"E	Piano di Sotto	2213	2450	25	140000	NW	280	500
4B	4	SW	1452	46°51'45"N	12°04'00"E	Alpe Val di Mezzo	2050	2350	17	400000	SE	400	1000
4B	4	SW	1453	46°52'30"N	12°04'25"E	Corno Alto 2	2300	2550	20	140000	SE	200	700
4B	4	SW	1454	46°50'35"N	12°00'40"E	Bel Colle	2130	2200	35	90000	NW	900	100
4B	4	SW	1455	46°52'15"N	12°00'40"E	Malga Stalla d'Inverno	2100	2225	27	250000	W	1000	250
4B	4	SW	1456	46°52'30"N	12°00'30"E	Stalla di Sopra	2225	2420	18	150000	E	250	600
4B	4	SW	1457	46°53'--N	12°00'30"E	Punta Nuda 1	2425	2500	16	29700	SE	110	270
4B	4	SW	1458	46°52'45"N	12°00'00"E	Punta Nuda E	2425	2550	27	37500	SW	150	250
4B	4	SW	1459	46°54'10"N	12°00'00"E	Pta della Cascata N	2010	2250	24	38500	NE	70	550
4B	4	SW	1460	46°53'50"N	12°00'10"E	Pta della Cascata E	2235	2260	14	5000	N	50	100
4B	4	SW	1461	46°54'15"N	12°01'00"E	M. Triangolo	2050	2110	14	50000	NW	200	250
4B	4	SW	1462	46°54'30"N	12°01'15"E	Mitter Alpe	2000	2225	16	336000	NW	420	800
4B	4	SW	1463	46°54'00"N	12°02'25"E	Vedretta Casavecchia	2300	2500	13	722500	N	850	850



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
4A	2	SE	1464	46°42'25"N	11°49'45"E	Passo di Luson	2000	2100	27	60000	NW	300	200
4A	2	SW	1465	46°42'30"N	11°49'20"E	M. Muro N	1980	2325	41	40000	N	100	400
4A	2	SW	1466	46°41'55"N	11°46'00"E	M. Forca Piccola E	2225	2265	7	43750	NE	125	350
4A	2	SW	1467	46°42'00"N	11°45'40"E	M. Forca Piccola NW	2100	2340	30	176400	NW	420	420
4A	2	SW	1468	46°41'40"N	11°44'30"E	M. Fana Grande W	2280	2340	19	87500	N	500	175
4A	2	SW	1469	46°42'20"N	11°44'30"E	Malga Camiller	1900	2085	17	60000	E	100	600
4A	2	SW	1470	46°42'20"N	11°46'30"E	Monte di Pezzè	1773	2120	21	112500	NE	125	900
12	1	NW	1471	46°29'15"N	12°10'30"E	Fedare	2100	2260	9	500000	S	500	1000
12	1	NW	1472	46°37'55"N	12°19'00"E	Piano di Rienza	2190	2280	12	106250	NE	250	425
12	1	NE	1473	46°36'30"N	12°26'50"E	Cima d'Ambata	2225	2375	37	50000	NW	250	200
12	1	NE	1474	45°37'00"N	12°26'20"E	Croda dei Toni	2300	2400	22	50000	NNW	200	250
12	3	NW	1475	46°29'00"N	12°03'00"E	La Gusella	2150	2300	21	140000	SW	350	400
12	3	NW	1476	46°28'50"N	12°02'41"E	Nuvolao	2100	2250	17	162500	SW	325	500
12	3	NE	1477	46°29'55"N	12°06'40"E	Croda di Mezzodi	2077	2150	8	200000	S	400	500
12	3	NE	1478	46°27'50"N	12°07'30"E	La Rocchetta	2275	2375	18	60000	N	200	300
12	3	NE	1479	46°27'20"N	12°07'10"E	Malga Prendera	2130	2400	38	175000	N	500	350
12	3	NE	1480	46°28'30"N	12°06'00"E	Forcella Rossa	2215	2300	16	60000	S	200	300
12	3	SW	1481	46°22'25"N	12°01'30"E		1930	2000	8	100000	NNW	200	500
12	4	NW	1482	46°39'20"N	11°56'25"E	Castello di Cima Dieci	2460	2535	8	220000	SE	400	550
12	4	NE	1483	46°37'31"N	12°08'40"E	Croda Castello di Valbone	2000	2275	29	100000	S	200	500
12	4	NE	1484	46°38'10"N	12°09'50"E	Croda Rossa 3	2050	2350	45	150000	SSW	500	300
12	4	NE	1485	46°38'15"N	12°06'40"E	Val Montesella	2125	2300	30	60000	SW	200	300
12	4	NE	1486	46°37'10"N	12°07'30"E	Val di Gotes	2000	2730	58	168750	SW	375	450
12	4	NE	1487	46°38'10"N	12°09'10"E	Croda Rossa 1	2350	2510	14	103125	NE	165	625
12	4	NE	1488	46°38'15"N	12°06'12"E	M. Geralbes	2125	2190	15	31250	SW	125	250
12	4	NE	1489	46°38'20"N	12°09'10"E	Croda Rossa 2	2285	2385	11	130000	NE	260	500
12	4	NE	1490	46°39'05"N	12°09'20"E		2400	2570	40	30000	NNE	150	200
12	4	SW	1491	46°29'50"N	11°45'10"E	M. Cavallo	2525	2725	28	271875	NW	725	375
12	4	SW	1492	46°31'15"N	11°57'00"E	Piccolo Set Sass	1990	2175	19	118125	E	225	525
12	4	SW	1493	46°30'25"N	11°56'40"E	Cianabona	2000	2130	15	71250	NE	150	475
11	1	NW	1494	46°35'30"N	11°47'40"E	Val Roa	2300	2450	14	125000	S	200	625
11	1	SW	1495	46°33'08"N	11°49'00"E		2660	2680	13	5400	N	60	90
11	1	SW	1496	46°33'02"N	11°49'03"E	Cima Sass da Lec	2650	2680	27	7200	N	120	60
11	1	SW	1497	46°32'30"N	11°48'09"E	Sassi di Ciamorces 1	2650	2690	7	35000	N	100	350
11	1	SW	1498	46°31'05"N	11°46'45"E	Torri di Sella	2140	2250	48	60000	NW	600	100
11	1	SW	1499	46°32'50"N	11°48'40"E	Sassi di Ciamorces 2	2010	2290	43	105000	NW	350	300
11	1	SW	1500	46°32'35"N	11°49'05"E	Sassi di Ciamorces 3	1980	2210	49	100000	NW	500	200
11	1	SW	1501	46°32'40"N	11°49'35"E	Torre Brunico	1810	2100	63	22500	NE	150	150
11	1	SW	1502	46°32'30"N	11°48'40"E	Piz da Cir 1	2030	2300	47	12500	NE	50	250
11	1	SW	1503	46°32'05"N	11°47'40"E	Piz da Cir 2	2150	2300	27	15000	N	50	300
11	1	SW	1504	46°33'03"N	11°47'20"E	Col Rotondo 1	1930	2010	28	82500	NW	550	150
11	1	SW	1505	46°33'10"N	11°47'40"E	Col Rotondo 2	2020	2090	45	21000	NW	300	70
11	1	SW	1506	46°33'10"N	11°48'25"E	Col Rotondo 3	2300	2340	39	30000	NW	600	50
11	1	SW	1507	46°31'00"N	11°45'40"E	Punta di Cinque Dita	2100	2370	26	275000	NE	500	550
11	1	SW	1508	46°31'50"N	11°44'30"E	M. Sasso Lungo	2230	2260	6	30000	NE	100	300
11	1	SW	1509	46°31'00"N	11°47'00"E	Piz Ciavaz 1	2680	2730	40	5400	NW	90	60
11	1	SW	1510	46°31'05"N	11°47'10"E	Piz Ciavaz 2	2670	2730	34	15300	NW	170	90
11	1	SW	1511	46°33'30"N	11°48'41"E	Col Rotondo 4	2300	2330	7	37500	N	150	250
11	1	SW	1512	46°32'25"N	11°48'52"E	Col Rotondo 5	2350	2460	20	135000	N	450	300
11	1	SW	1513	46°34'40"N	11°47'40"E	Mascula 1	2370	2450	28	67500	N	450	150
11	1	SW	1514	46°34'50"N	11°47'35"E	Mascula 2	2370	2430	31	30000	N	300	100
11	1	SW	1515	46°31'45"N	11°49'05"E	Lago del Dragon	2650	2700	11	175000	NW	700	250
11	2	SE	1516	46°24'00"N	11°51'00"E	M. La Banca	2270	2375	12	162500	SW	325	500
11	2	SW	1517	46°26'20"N	11°44'25"E	Lago Usel	2125	2170	20	15625	W	125	125
11	2	SW	1518	46°28'30"N	11°45'30"E	Campagnaccia 1	2200	2410	12	375000	S	375	1000
11	2	SW	1519	46°23'00"N	11°48'10"E	Val Tegnousa	1850	2310	12	743750	S	350	2125
11	2	SW	1520	46°28'30"N	11°47'00"E	Campagnaccia 2	2160	2300	13	187500	SE	300	625
22	1	SW	1521	46°11'50"N	11°46'10"E	Valle di Grugola 1	2225	2300	7	109375	NE	175	625
22	1	SW	1522	46°11'45"N	11°42'55"E	Valle di Grugola 2	1750	2100	16	218750	NE	175	1250
22	1	SW	1523	46°12'05"N	11°45'10"E	Cirra di Grugola 1	2055	2175	24	68750	NW	250	275
22	1	SW	1524	46°12'10"N	11°45'35"E	Cima D'Arzon 1	2176	2250	26	15000	SW	100	150
22	1	SW	1525	46°12'20"N	11°48'40"E	Cima D'Arzon 2	2160	2225	18	25000	NE	125	200
22	1	SW	1526	46°12'05"N	11°43'15"E	Cima di Grugola 2	2035	2150	19	48750	NE	150	325
22	1	SW	1527	46°12'05"N	11°43'10"E	Val Pisorno	1960	2050	18	34375	NE	125	275
22	2	NE	1528	46°06'50"N	11°47'00"E	Piazza del Diavolo	1925	2121	20	137500	S	250	550
22	2	NE	1529	46°06'35"N	11°48'30"E	Malga Pietaña	1990	2155	17	78750	SE	150	525
22	2	NE	1530	46°06'05"N	11°49'05"E	Cima Dodici	1935	2052	15	168750	S	450	375
22	3	NW	1531	46°07'40"N	11°27'15"E	Croz di Primalunetta	1900	2075	16	93750	N	150	625
22	3	NW	1532	46°08'30"N	11°35'55"E	Cima Orsera	2000	2175	24	210000	N	525	400
22	3	NW	1533	46°09'10"N	11°35'30"E	M. Cengello	2150	2250	27	30000	NW	150	200
22	3	NW	1534	46°09'40"N	11°34'50"E	Ricovero Cecchini	2145	2200	12	31250	NE	125	250



Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m²)	Aspect	Max width	Max length
22	3	NW	1535	46°09'40"N	11°26'10"E	Cima del Bortolo	1955	2075	15	67500	W	150	450
22	3	NW	1536	46°09'40"N	11°25'55"E	M. Val Piana	2130	2300	18	131250	NW	250	525
22	3	NE	1537	46°08'10"N	11°44'20"E	Pallone della Cavallara	1815	1925	16	65625	NW	175	375
22	3	NE	1538	46°09'30"N	11°31'50"E	L'Aia della Sera	1880	1975	13	60000	SE	150	400
22	3	NE	1539	46°08'20"N	11°34'50"E	Cima Segura	1900	2100	25	138125	N	325	425
22	3	NE	1540	46°08'45"N	11°35'10"E	Val Vendrame	1800	1975	28	56875	E	175	325
22	3	NE	1541	46°06'55"N	11°33'50"E	Lago degli Asini	1940	2175	25	87500	NW	175	500
22	3	SE	1572	46°11'15"N	11°37'30"E	Val Sorda	1890	1973	14	40625	SW	125	325
22	4	NE	1542	46°15'20"N	11°40'00"E	Forcella Val Maggiore	2250	2375	17	60000	W	150	400
22	4	SE	1543	46°10'40"N	11°31'50"E	Val Regana	2026	2110	39	7875	N	75	105
22	4	SW	1544	46°10'55"N	11°33'40"E	Malga Val Sorda Seconda	1950	2100	15	137500	E	250	550
22	4	SW	1545	46°11'40"N	11°24'10"E	Buse Alte	2160	2300	22	52500	S	150	350
22	4	SW	1546	46°13'00"N	11°26'10"E	Cimon di Lasteolo 1	2300	2360	13	65000	SE	250	260
22	4	SW	1547	46°12'55"N	11°26'30"E	Cimon di Lasteolo 2	2230	2350	25	46800	SE	180	260
22	4	SW	1548	46°12'40"N	11°26'00"E	Cimon di Lasteolo 3	2250	2310	11	86800	SW	280	310
22	4	SW	1549	46°11'00"N	11°24'10"E	Cima delle Buse	2070	2250	14	157500	E	225	700
22	4	SW	1550	46°10'30"N	11°24'30"E	Malga di Montalon	2070	2150	8	82500	S	150	550
22	4	SW	1551	46°10'55"N	11°25'10"E	Forcella di Montalon	2070	2175	21	61875	NW	225	275
22	4	SW	1552	46°10'50"N	11°25'25"E	Pala del Becco	2005	2075	17	50625	NE	225	225
22	4	SW	1553	46°10'40"N	11°26'10"E	Montalon	2075	2205	17	74375	N	175	425
22	4	SW	1554	46°10'30"N	11°26'55"E	Lago delle Buse	2060	2210	18	142500	N	300	475
22	4	SW	1555	46°11'20"N	11°26'10"E	M. Montalon	2125	2280	16	91875	N	175	525
22	4	SW	1556	46°12'30"N	11°26'40"E	Val Forame 1	2065	2180	14	67500	N	150	450
22	4	SW	1557	46°12'20"N	11°26'25"E	Val Forame 2	2160	2275	21	36000	N	120	300
22	4	SW	1558	46°11'45"N	11°24'05"E	Forcella di Val Sorda	2230	2320	14	65625	N	175	375
22	4	SW	1559	46°12'30"N	11°26'40"E	Busa Grana 1	2370	2410	17	13000	N	100	130
22	4	SW	1560	46°12'30"N	11°26'14"E	Busa Grana 2	2260	2325	23	26250	NE	175	150
22	4	SW	1561	46°12'30"N	11°25'10"E	Busa Grana 3	2155	2350	28	92500	N	250	370
22	4	SW	1562	46°12'15"N	11°24'30"E	Forcella di Val Moena	2100	2200	20	110000	N	400	275
22	4	SW	1563	46°12'30"N	11°26'25"E	Cimon di Lasteolo	2225	2350	40	37500	NE	250	150
22	4	SW	1564	46°12'40"N	11°27'30"E	M. Stelle delle Sute	2380	2475	19	82500	NW	300	275
22	4	SW	1565	46°12'15"N	11°26'55"E	Cima Lagorai 1	2135	2275	32	33750	NE	150	225
22	4	SW	1566	46°12'05"N	11°27'30"E	Cima Lagorai 2	2375	2450	37	17500	SE	175	100
22	4	SW	1567	46°12'00"N	11°30'40"E	Cima Lagorai 3	2400	2475	31	18750	SE	150	125
22	4	SW	1568	46°12'15"N	11°28'10"E	Cima Lagorai 4	2375	2500	36	48125	N	275	175
22	4	SW	1569	46°12'00"N	11°28'10"E	Cima Logorai 5	2275	2350	18	56250	S	250	225
22	4	SW	1570	46°11'46"N	11°28'10"E	Buse Basse	2095	2200	19	52500	S	175	300
22	4	SW	1571	46°11'15"N	11°28'10"E	Lago delle Buse Basse	2125	2200	31	21875	E	175	125
23	1	SE	1572	46°11'30"N	12°26'40"E	Pieve d'Alpago 1	1450	1800	19	200000	NNW	200	1000
23	1	SE	1573	46°13'12"N	12°22'55"E	Pieve d'Alpago 2	1550	1700	27	30000	NW	100	300
23	4	SW	1574	46°33'30"N	12°02'30"E	Gosaldo	1400	1600	45	60000	N	300	200

<i>Classification</i>	<i>Location</i>	<i>Lithology</i>	<i>Relationship with glacial landforms</i>	<i>Relations between rock glaciers front and local vegetation limit</i>	<i>Meandering ridges and furrows</i>	<i>Transverse ridges and furrows</i>	<i>Large conical pits</i>	<i>Step front</i>	<i>Well developed tongue</i>	<i>Convex tongue</i>	<i>Concave tongue</i>
inactive	slope	volcanites		above	1	1	0	0	0	0	0
inactive	cirque	volcanites		above	0	1	0	1	1	0	1
complex	slope	metamorphic		below treeline	0	1	0	0	1	0	1
complex	slope	metamorphic		below treeline	0	1	0	1	1	0	1
inactive	furrow	metamorphic		above	0	1	0	1	1	0	0
complex	slope	metamorphic		below treeline	0	0	0	1	1	0	1
inactive	cirque	plutonites		above	0	1	0	0	1	0	1
complex	slope	volcanites	moraines	below treeline	0	1	0	0	1	0	1
complex	valley	volcanites		above	0	1	0	1	0	1	0
inactive	slope	plutonites		below treeline	3	0	1	0	0	1	1
inactive	slope	plutonites		above	0	1	0	1	1	0	1
inactive	furrow	volcanites		above	0	1	1	1	1	0	1
inactive	slope	metamorphic			1	0	1	0	1	0	1
inactive	valley				0	1	0	1	1	0	1
inactive	cirque	metamorphic			0	1	0	1	0	1	0
inactive	slope	volcanites		above	0	1	0	1	1	0	1
inactive	cirque	volcanites		below meadows line	1	1	0	0	1	0	1
inactive	slope	volcanites		above	0	1	0	1	1	0	1
inactive	slope	volcanites		above	0	1	0	0	1	1	0
complex	furrow	volcanites		above	0	0	0	0	1	0	1
inactive	cirque	volcanites		above	1	0	1	1	1	1	0
inactive	cirque	volcanites		above	0	1	0	1	1	0	1
inactive	furrow	volcanites		below meadows line	0	1	0	0	1	0	1
inactive	furrow	volcanites		above	0	1	0	1	1	0	1
inactive	cirque	volcanites		above	0	1	0	1	1	0	1
inactive	cirque	volcanites		above	0	1	0	1	1	0	1
inactive	furrow	volcanites		above	0	1	0	1	1	1	0
complex	slope	volcanites		above	0	0	0	1	1	0	1
inactive	furrow	volcanites		above	0	1	0	1	1	1	0
inactive	slope	volcanites		above	0	1	0	1	1	1	0
complex	slope	volcanites			1	0	0	0	0	0	1
inactive	slope	volcanites		above	1	1	0	0	1	0	1
complex	slope	volcanites		above	0	1	0	0	1	0	1
complex	slope	volcanites		above	0	1	0	0	0	0	0
inactive	slope	volcanites		above	0	0	0	1	1	0	1
inactive	slope	volcanites		above	0	1	0	1	1	0	1
inactive	cirque	volcanites		above	0	1	0	1	1	0	1
inactive	furrow	volcanites		above	0	1	0	1	1	1	0
inactive	slope	volcanites		above	0	0	0	1	1	1	0
uncertain activity	furrow	carbonatic		below treeline	0	0	1	1	0	0	0
inactive	valley	carbonatic		below meadows line	0	0	1	1	1	0	0
inactive	slope			below meadows line	0	0	1	1	0	0	0

Sheet	Quadrant	Map orientation	Identification No.	Latitude	Longitude	Name	Minimum altitude (m a.s.l.)	Maximum altitude (m a.s.l.)	Slope (deg)	Surface area (m <sup>2</sup> )	Aspect	Max width	Max length
13	1	NE	1575	46°35'42"N	12°54'35"E	M. Coglians	1910	2075	22	80000	SW	200	400
13	1	SE	1576	46°34'00"N	12°54'00"E	Crostis	1915	1925	2	42000	SW	140	300
13	2	NW	1577	46°28'55"N	12°42'58"E	Piettimis	1700	1720	2	255000	E	510	500
13	3	NE	1578	46°29'25"N	12°39'30"E	Rioda	1825	1850	7	66000	SE	330	200
13	3	NE	1579	46°28'35"N	12°36'10"E	Col Marendre NO	1700	1715	2	142100	N	290	490
13	3	NE	1580	46°28'15"N	12°36'35"E	Col Marendre E	1800	1825	2	213900	NE	310	690
13	3	NE	1581	46°28'08"N	12°35'30"E	Tiarfin	2100	2120	1	191100	W	210	910
13	3	SW	1582	46°24'45"N	12°29'25"E	Cadin d'Arade	1990	2005	3	44200	W	170	260
13	3	SW	1583	46°23'15"N	12°32'10"E	Val di Brica	1550	1585	1	412500	NW	330	1250
13	3	SW	1584	46°22'00"N	12°32'02"E	M. Pramaggiore	2075	2090	3	59800	N	230	260
13	3	SW	1585	46°21'34"N	12°34'10"E	Caseria Pramaggiore	1550	1575	2	272000	SE	400	680
13	4	NW	1586	46°37'27"N	12°34'08"E	Crode dei Longerin 1	2100	2125	3	142800	SE	340	420
13	4	NW	1587	46°37'00"N	12°33'50"E	Crode dei Longerin 2	2100	2210	15	142800	SE	340	420
13	4	NE	1588	46°35'45"N	12°40'42"E	Forcella Rinaldo	2050	2090	5	135000	SW	300	450
13	4	SW	1589	46°31'24"N	12°33'46"E	Drota delle Pere	1500	1575	13	51200	N	160	320
14	3	NW	1590	46°25'54"N	13°02'00"E	Quota 1912	1200	1500	56	60000	N	300	200
14	3	NW	1591	45°35'52"N	13°00'30"E	Quota 1900	1713	1850	34	60000	NW	300	200
14	3	NE	1592	46°26'50"N	13°11'00"E	Quota 2200	1314	1700	52	60000	NW	200	300
14	4	SW	1593	46°34'26"N	13°03'56"E	Dimon	1650	1675	4	124800	N	320	390

Classification	Location	Lithology	Relationship with glacial landforms	Relations between rock glaciers front and local vegetation limit	Morphology						
					Meandering ridges and furrows	Transverse ridges and furrows	Large conical pits	Step front	Well developed tongue	Convex tongue	Concave tongue
inactive	slope			below treeline	0	0	0	1	0	0	0
inactive	cirque	sedimentary		below meadows line	0	1	0	1	0	0	0
inactive	cirque	sedimentary		below treeline	0	0	0	0	0	0	1
inactive	slope	sedimentary		below treeline	0	0	0	0	0	1	0
inactive	slope	sedimentary		below treeline	0	0	1	0	0	0	0
inactive	cirque	sedimentary		below treeline	1	0	0	1	0	0	1
uncertain activity	cirque	carbonatic		below meadows line	0	1	0	0	0	0	0
inactive	cirque	carbonatic		below treeline	1	0	0	0	0	1	0
inactive	cirque	carbonatic		below treeline	0	1	0	1	0	0	1
inactive	cirque	carbonatic	snowbank	above	0	0	1	0	0	0	0
inactive	cirque	carbonatic		below treeline	0	1	1	0	0	0	0
complex	cirque	carbonatic		below meadows line	0	0	1	1	0	0	0
inactive	cirque	carbonatic		below meadows line	0	0	1	0	0	0	0
inactive	cirque	carbonatic	snowbank	below meadows line	0	1	1	0	0	0	0
inactive	slope			above	0	0	0	1	1	0	0
inactive	slope			below treeline	0	1	0	1	0	0	0
inactive	furrow			above	0	0	0	1	0	0	1
inactive	slope	volcanites		below meadows line	0	1	1	0	0	0	0