

THE PEAKS, PASSES, AND GLACIERS BETWEEN THE COL DE LA GALISE AND THE AIGUILLE DE LA SASSIÈRE AND THE BASSAC NORD (CENTRAL GRAIANS).

WITH reference to the remarks in my paper 'Through the Tarentaise and Beyond' ('A. J.' xxi. 226) as to the nomenclature of the mountain ridges which divide the heads of the Val Grisanche and Val de Rhêmes from that of the Isère, I have been favoured by one whose authority is unrivalled with the following summary (an expansion of that given in 'Ball,' pp. 278-283) and sketch map which may prove useful to other climbers as well as to myself. The references to the 'Alpine Journal' have been noted, but not those to Signor Bobba's articles and M. Ferrand's book (see 'Ball,' pp. 221 and 273, and other printed sources).

[F.M.=French Government Map, 1/80,000. I.M.=Italian Government Map, 1/50,000. A.C.M.=Alpine Club Map. N.M.=Nichols's Map ('A. J.' iii. 113).]

I. PEAKS AND PASSES.

1. *Pointe de la Galise* (3,842 m.), F.M.; *Pointe du Bousson*, A.C.M.; *Cima del Bousson*, N.M.; *Punta di Galisia* (3,845 m.), I.M. ('A. J.' ix. pp. 100, 480, xiii. p. 119.)

1. a. *Cima di Bousson* (3,841 m.), a lower peak to the N.E., I.M. (F.M. wrongly places *Pointe du Bousson* (3,836 m.) on the frontier ridge between Nos. 1 and 2.)

2. *Col de Bassagne* (no name or height on the maps), 'A. J.' xiv. 491.

3. *Rocca Basagne*, 3,224 m., I.M.; no name, 3,232 m., F.M., where the glacier on the S.E. is called 'Bassagne.' ('A. J.' xiv. 491-2.)

4. *Col de Calabre* (no name on maps; 3,081 m., I.M.). 'A. J.' xiv. 491, 492.

5. *Pointe de Calabre* (3,363 m.), F.M. and N.M.; *Roc del Fonte*, (3,276 m.), I.M. 'A. J.' xiv. 491, 492.

6. *Col de Rhème* (3,062 m.), F.M.; *Col di Rhêmes* (3,101 m.), I.M. This is the old pass mentioned in the seventeenth century, and is even now traversed by the peasants in preference to the Col de la Goletta ('A. J.' xiv. 489; xv. 129).

7. *Punta Calabre* (3,446 m.), I.M.; no name, 3,443 m., F.M. Locally known on French side as *Pointe de Bazel*, a name at one time wrongly given to the Tsanteleina ('A. J.' xiv. 489; xv. 154, 155).

8. *Cime de Quart Dessus* (no name, but marked 3,474 m. on both F. and I. Maps). 'A. J.' xiv. 489, 490.

9. *Punta Tsanteleina* (3,606 m.), I.M.; *Pointe de Bazel* (3,606 m.), F.M. Now usually called *Tsanteleina*, from 'Santé,' *patois* for a steep slope, not from Ste. Hélène, as once supposed ('A. J.' ii. 208, 394; ix. 101; xv. 297). The name 'Col Bobba' has been given to the head of the great snow couloir on the E. face running up to the notch on the S. arête of the peak.

9. a. *Cime du Santet* (3,478 m.; height but no name on F.M.), a peak wholly in France, to S.W. of the Tsanteleina marked on F.M. as part of 'La Grande Parei,' an obvious confusion with the true peak of that name (No. 17 below).

10. *Col de la Tsanteleina* (not named on the maps; marked 3,167 m. on I.M.), 'A. J.' xiv. 490; xv. 154.

11. *Pointe de la Goletta* (not named on the maps; marked 3,291 m. on I.M.; 3,279 m. on F.M.), 'A. J.' xv. 886.

Here the Granta Parei spur runs off to the N. Still following the main ridge—

12. *Col de la Goletta* (not 'Gailletta,' as written by the early English explorers), the usual name; *Col de Rhème* (3,063 m.), F.M.; *Col di Rhema* (3,120 m.), I.M. Mentioned in seventeenth-century writings, as well as the true Col de Rhèmes ('P. P. G.' 2nd series, ii. 396; 'A. J.' ii. 390; ix. 101, 488).

13. *Pointe de la Traversière* (3,321 m.), F.M.; *Bec de la Traversière* (3,341 m.), I.M. The 'Mont Bassac' of Mr. Nichols ('A. J.' ii. 207, 390) and 'Petit Mont Bassac' of 'A. J.' ix. 101, 483. *Petit Mont Bassac*, A.C.M. and N.M. ('A. J.' xii. 414).

Here the Bassac spur runs off to the N. Still following the main ridge:—

14. *Col de la Sassièrè* ('A. J.' ii. 208, 392). Named on N.M. only, and apparently at or near the point of the S.E. arête of the Aig. de la Grande Sassièrè, marked 3,321 m. on I.M.

15. *Aig. de la Grande Sassièrè*, same on all maps.

Taking now the Granta Parei spur (wholly in Italy), running N. from No. 11—

16. *Col de la Granta Parei* (not named on the maps), 'A. J.' ix. 100, 481. Its exact position has never been very clearly fixed.

17. *Cima Granta Parei* (3,473 m. and 3,463 m.), I.M.; called wrongly 'Grand Apparei' by the first party up it ('A. J.' i. 200; ii. 21; ix. 100, 481; xiii. 129).

Taking now the Bassac spur, running N. from No. 13—

18. *Colle Bassac Déré* (usual name) or *Colle Vaudet* (2,984 m.), I.M. ('A. J.' ix. 101). There are two openings, both N. of the hump marked 3,196 m. on I.M.

19. *Traversière* of I.M., with three summits: (a) 3,355 m. (has been called *Pointe de Bassac Déré*), (b) *Bassac Sud*, 3,461 m., and (c) *Traversière* proper, 3,495 m. ('A. J.' xii. 414.)

20. *Colle di Bassac* (3,153 m.), I.M.; crossed by Mr. Nichols ('A. J.' ii. 32). See also 'A. J.' xii. 414.

21. *Bassac Nord* (3,387 m.), I.M.

Then come the *Truc Blanc* (3,408 m.), Mr. Yeld's *Col de Fos* ('A. J.' ix. 101, 482) at the point marked 3,302 m. on I.M., and beyond again the Invergnan group.

II. GLACIERS.

(1.) On the *Italian side*, as marked on Italian Map, and going from the Sassièrè S. and S.E.—

A. *Gliairetta Glacier*. The great glacier between the Grande Sassièrè (No. 15) and the P. de la Traversière (No. 13), called by

under E. wall of the Tsanteleina (No. 9) and the Granta Parei (No. 17).

b and c. *Gh. del Fonte*, extending along the N. slope of the range from near the Pointe de Calabre (No. 5) to near the Pointe de la Galise (No. 1) ('Ball,' p. 278; 'A. J.' xiv. 493).

(2.) On the *French side*, as marked on the French Map, and going from the Pointe de la Traversière (No. 13), S. and E.—

H. *Gl. de Rhème*, flowing from the Col de la Goletta (No. 12).

I. *Gl. de Derrière le Santet*, W. of the Cime du Santet (No. 9, a) and Tsanteleina (No. 9).

J and K. *The Quart Glaciers*, two small glaciers lying N.W. and E. respectively of the S.W. arête of the Cime de Quart Dessus (8,474 m.) (No. 8). M. Ferrand's route up the Tsanteleina lies up the N.W. glacier.

L. A small glacier flowing from the Col de Rhème (No. 6), without name on F.M., but generally known as the *Bazel Glacier*.

M. *Glacier de Calabre*, flowing from the Col de Calabre (No. 4).

N. *Glacier de Bassagne*, flowing from the Col de Bassagne (No. 2).

The Arabic numerals indicate the respective peaks and passes enumerated in the above list.

The capital letters of the alphabet indicate the glaciers named in the same list, while the subdivisions of the great Rhêmes glaciers (G) are distinguished by small letters. W. A. BRIGG.

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Burckhardt, Dr. Carl. Annales del Museo de La Plata. Seccion geológica y mineralógica, III. Coupe de la Cordillère entre las Lajas et Curacautin. Folio, pp. vii, 102; maps, plates.

La Plata, Talleres de Publicaciones del Museo, 1902

Cadier, Les cinq frères. Au pays des isards. De l'Aneto à la Munia. Pics de 3,100 mètres. 8vo, pp. 55; map, plates, ill.

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Dessau, Oesterwitz [1903]. M. 1

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