earlier date, ideally near the beginning of September, but it others, unpublished). Therefore, to explore further into the Mer de Glace. The diameter of these galleries was reduced by two-thirds the initial value in 3 weeks (Charpentier and utility, down to depths of 100 m beneath the snout of the Mer de Glace. The diameter of these galleries was reduced by two-thirds the initial value in 3 weeks (Charpentier and others, unpublished). Therefore, to explore further into the pothole galleries, expeditions have to be launched at an earlier date, ideally near the beginning of September, but it would also be necessary to deal with the higher water-flow rates encountered at that time of the year. The exploration of such large glacial potholes is an exploit of wide and highly varied interest. In addition to the opportunity it presents to caving enthusiasts in their never-ending search for new and more difficult challenges, and to talented filmmakers in their quest for images of rare beauty, it offers glaciologists the opportunity to determine several characteristics of the flow of water within the ice and the depth to which the fissures and faults allowing this flow may extend. Furthermore, such investigations provide a description of the composition of the ice (foliation, crystallography, etc.) and its variation with depth, results which otherwise could only be obtained by working in a large-diameter bore hole.

It is true that there is little hope of reaching the glacier bed, which is at a depth of about 300 m according to seismic soundings carried out in 1966 (Gluck, 1967); however, there is a very good chance of extending such explorations farther and deeper than ever before.

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3 December 1986

REFERENCES


SIR,

Basal water and high-pressure basal ice

An unfortunate set of circumstances prevented certain improvements from being made to my paper "Basal water and high-pressure basal ice" (Journal of Glaciology, Vol. 32, No. 112, p. 455–63) before its publication. These improvements had been suggested by one of the reviewers, who pointed out that in unpublished work Charles F. Raymond had also considered the problem addressed in my paper. The purpose of this note is to draw attention to Raymond's work which was not possible for me to do in my published paper.

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SIR,

The 1985 surge and ice dam of Glaciar Grande del Nevado del Plomo, Argentina

Glaciar Grande del Nevado del Plomo, which trends in an almost west–east course, is one of the glaciers in the most glacierized area of the Rio Mendoza basin (Corte and Espizua, 1981). In this glacierized region originates the Rio del Plomo, which is the main tributary of the Rio Tupungato. It flows into Rio Mendoza but does not form it alone.

This glacier is situated at lat. 33°08'S, long. 70°01'W, occupies a large cirque south-east of Nevado del Plomo (6050 m), and flows down to 3550 m a.s.l. (after surging 3165 m a.s.l.). This area was very well mapped at a scale of 1:25 000 by Helbling, using terrestrial photogrammetry, during his field work with Reichert in 1907–12. More recent Argentine and Chilean maps only reproduce Helbling's map, with some errors (for instance, Nevado del Plomo is incorrectly referred to as Cerro Juncal). Since 1912, the glaciers at the head of Rio del Plomo have receded considerably, the different tributaries becoming distinct. Therefore, there was no totally correct map of this area until the 1983 and 1985 1:10 000 photogrammetric interpretation of the 1974 air photographs by the Instituto Argentino de Nivología y Glaciología (except for Corte and Espizua's sketch map without names or contour lines).

Glaciar Grande del Nevado del Plomo had surged in 1934, when a flood caused by the outburst of an ice-dammed lake with a calculated volume of $60 \times 10^6 \text{m}^3$ produced many disasters (Helbling, 1935; Razza, 1935; Liloubry, 1956). There is also evidence that during the eighteenth century it could possibly have surged (Prieto,