

## 2.3.4 Mercedario

### Study site

Cerro Mercedario (6770 m a.s.l.) is the fourth-highest mountain in South America. It lies close to the border of Chile (about 7 km) at S 31°58', W 70°07'. At its uppermost part, the Ollada glacier forms a plateau with mean elevation of about 6000 m a.s.l. and slopes towards the east. In February 2005 the group of M. Schwikowski (PSI) drilled an ice core. The bed was reached at 103 m depth.

### Borehole temperatures

Borehole temperatures (Figure 2.31 and Chapter E.1) were measured using a thermistor chain immediately after drilling the hole. Determined temperatures are between  $-16.5^{\circ}\text{C}$  close to the bed and  $-19.5^{\circ}\text{C}$  close to the surface.

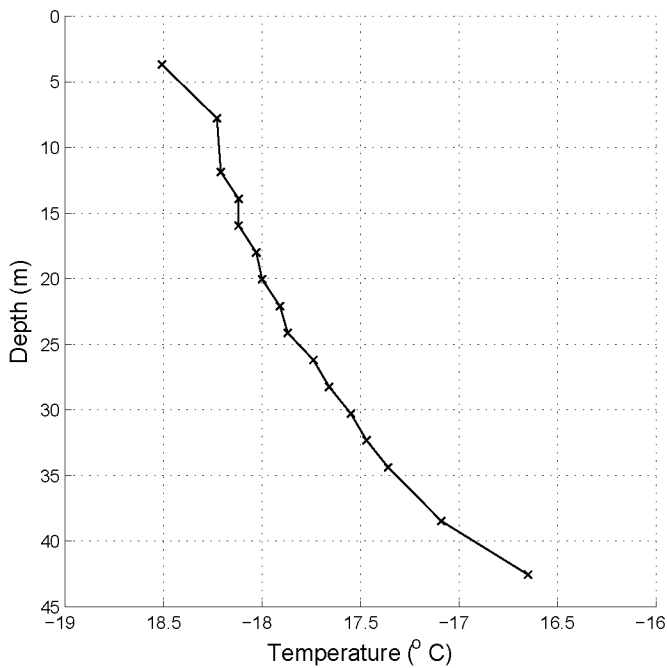


Figure 2.31: *Temperature profiles determined in the 103 m deep borehole on glacier Ollada on Mercedario (6075 m a.s.l.), South America. See also Chapter E.1.*