

At the sampling station, which is situated below the summit (mean annual temperature  $-12.9^{\circ}\text{C}$ ), we measured a surprisingly lower temperature  $-14.2 \pm 0.1^{\circ}\text{C}$ . This value is in agreement with stable isotope measurements and with visual observations (Table I).

TABLE I. 10 m TEMPERATURE AND MEAN STABLE ISOTOPIC VALUES IN THE JAMES ROSS ISLAND ICE CAP  
1976 isotopic value was communicated by H. B. Clausen (Geophysical Isotope Laboratory, Kobenhavn) in  $\delta^{18}\text{O}$  and converted to  $\delta\text{D}$  using the relation:  $\delta\text{D} = 8\delta\text{O} + 10\text{‰}$ .

<i>Date</i>	<i>Approximate elevation m</i>	<i>10 m temperature <math>^{\circ}\text{C}</math></i>	$\delta\text{D}$ $\text{‰}$	<i>Melt layers</i>	<i>Reference</i>
January 1976	1 620	$-12.9$	$-126.9$	Yes	Unpublished work by R. E. Dalinger and others
December 1977	1 500	$-14.2$	$-146.7$	No	This work