

Appendix 1: Meteorological Data on Yala Glacier in Langtang Himal.

Data on Yala Glacier (5100 m a.s.l.)

\bar{T} : Daily mean air temperature at 1.5 m level

R : Incoming solar radiation

M : Amount of daily snowfall or snowmelt (surface level change)

Positive value: snowfall; negative value: snowmelt.

Data at the 'Glacier Camp' (5090 m a.s.l.—the terminal moraine of Yala Glacier)

T_{06} : Air temperature at 06h (about 1.5 m level)

T_{18} : Air temperature at 18h (about 1.5 m level)

Observation period: Sep. 26–Oct. 29 in 1982

The times are stated in Nepal Standard Time.

Date	\bar{T} (°C)	R (cal·cm ⁻² ·day ⁻¹)	M (cm·day ⁻¹)	T_{06} (°C)	T_{18} (°C)
26 Sep.	—	—	—	—	-1.6
27	-1.5	616	-0.3	—	-1.0
28	-2.1	635	-0.4	-6.8	-2.2
29	-3.1	472	-0.7	-7.8	-4.1
30	-3.4	504	-0.2	-8.3	-4.6
1 Oct.	-4.6	610	-0.8	-7.7	-3.7
2	-4.2	597	0.6	-6.9	-3.3
3	—	—	-1.5	-8.2	-3.6
4	—	—	-0.4	-7.8	-4.2
5	—	—	-0.5	—	0.4
6	—	—	—	-5.2	-2.3
7	—	—	—	-6.5	-3.5
8	—	—	—	-7.8	—
9	—	—	—	—	-4.5
10	—	—	—	-7.8*	—
11	—	—	—	-7.2	-5.9
12	-4.3	481	-1.2	-8.5	-3.1
13	-4.4	557	-0.8	-6.2	-4.4
14	-5.0	473	-0.4	—	-4.8
15	-4.1	419	-0.3	-8.6	-3.4
16	-3.9	582	0.5	-6.8	-2.0
17	-3.0	441	-0.2	—	-2.2
18	-4.1	263	15.2	—	—
19	-4.6	591	-9.7**	-6.8*	-4.4*
20	-2.6	519	-1.0	-6.8*	-3.3
21	-3.4	558	-0.5	-5.4	-5.4
22	-5.4	296	8.1	-7.5*	-4.4*
23	-5.8	341	0.2	-7.2*	-6.4*
24	—	—	—	-12.0*	—
25	—	—	—	—	-5.7
26	—	—	—	—	-6.4
27	—	—	—	-10.4	-8.6
28	—	568	0.4	-8.4	-5.4
29	—	—	—	-10.0	—
Mean	-3.9	501	—	-7.7	-3.9

*Snow-covered condition at the 'Glacier Camp'; **including compaction of snow.