

Title of the manuscript: The diel vertical migration of microbes within snowpacks driven by solar radiation and nutrients

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This file includes three supplementary figures. Legends are below and all figures are in next page.

Supplementary Figure S1: Photograph of a snow core collected on May 7th, 2021.

Supplementary Figure S2: The vertical distribution of microbes every three hours. %: Percentage of cell concentration or population density of each layer in the total five layers.

Supplementary Figure S3: The vertical distribution of microbes in the snow core. %: Percentage of chlorophyll *a* concentration, cell concentration, and population density of each layer in all layers.

Supplementary Figure S4: The chemical composition in each layer every three hours.

Supplementary Figure S5: Correlation between each chemical solute. Significant differences ( $p < 0.01$ ) are shown in asterisk.

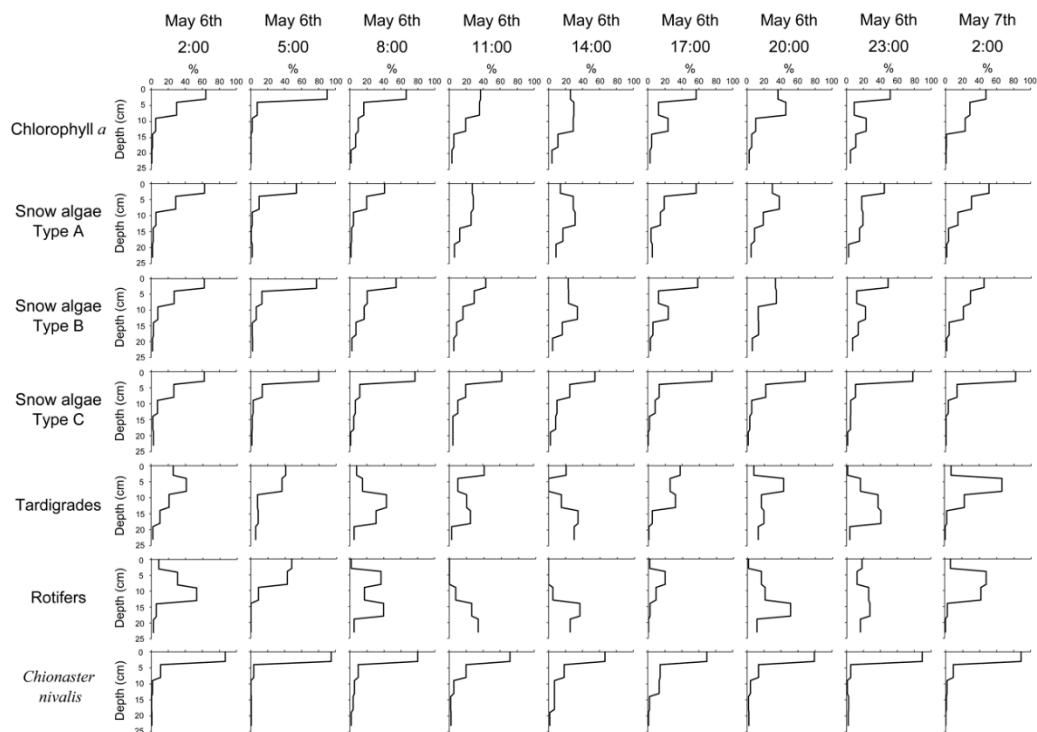
Supplementary Figure S6: The vertical distribution of chemical solutes every three hours.

Supplementary Table S1: Chlorophyll *a* concentration, cell concentration, and population density of microbes every three hours. Their maximum, minimum in each layer is shown in each column. ND: Low abundance (under  $1.7 \times 10^3$  cells L<sup>-1</sup>).

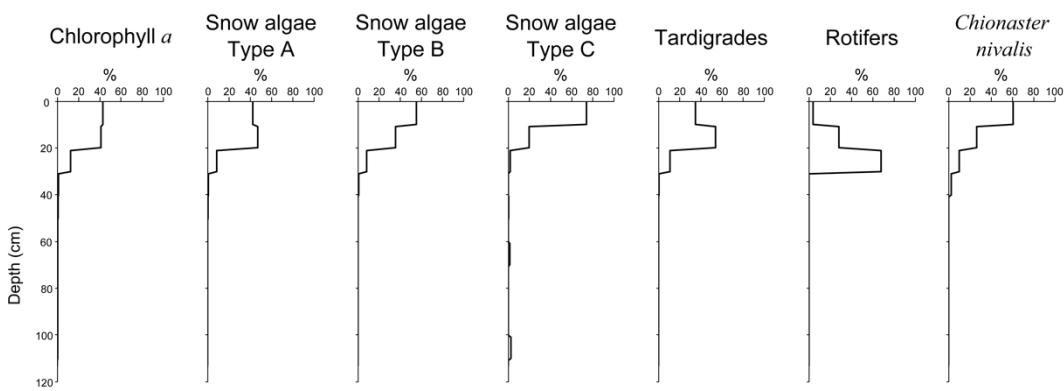
Supplementary Table S2: Results of Chi-square test for vertical distribution of microbes between nighttime and daytime. Significant differences ( $p < 0.05$ ) are shown in bold.



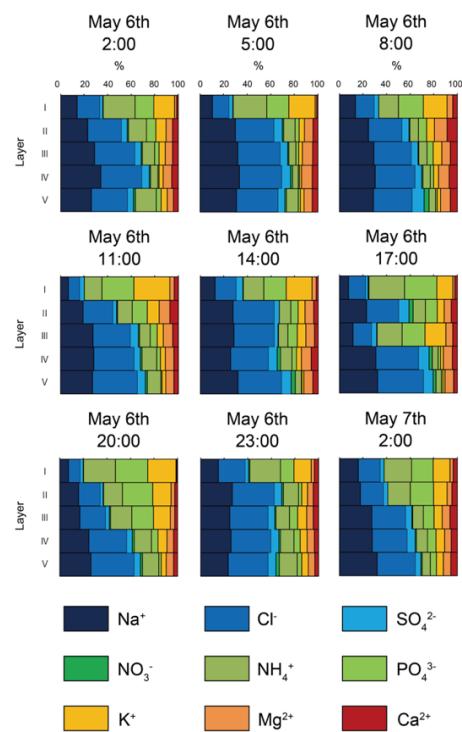
**Supplementary Figure S1: Photograph of a snow core collected on May 7th, 2021.**



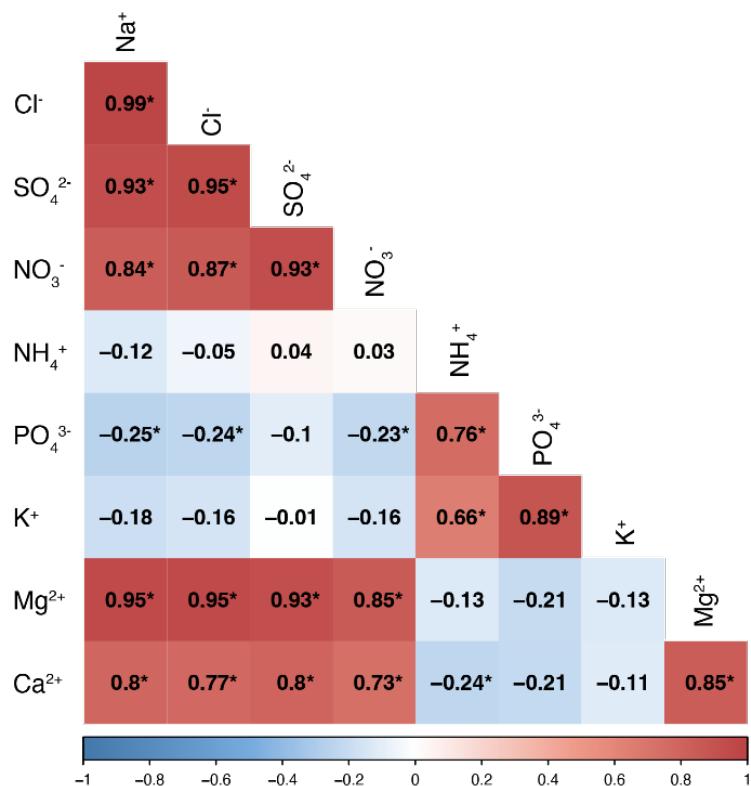
**Supplementary Figure S2: The vertical distribution of microbes every three hours. %: Percentage of cell concentration or population density of each layer in the total of five layers.**



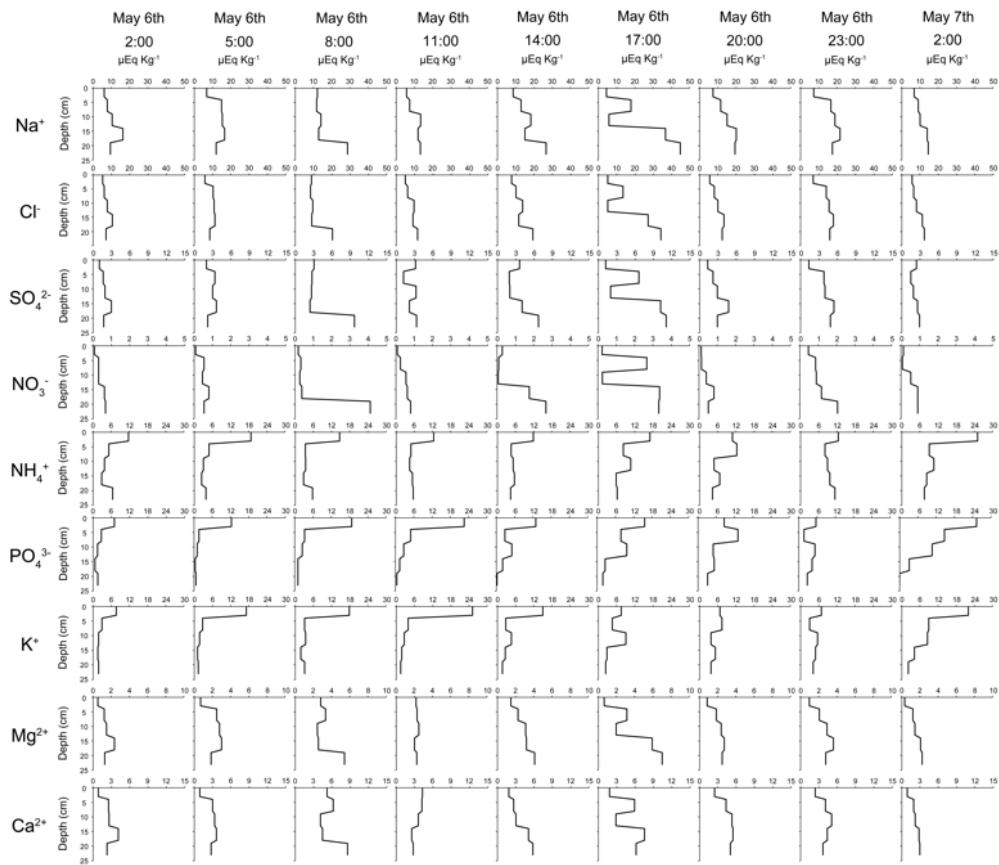
**Supplementary Figure S3: The vertical distribution of microbes in the snow core. %: Percentage of chlorophyll a concentration, cell concentration, and population density of each layer in all layers.**



Supplementary Figure S4: The chemical composition in each layer every three hours.



Supplementary Figure S5: Correlation between each chemical solute. Significant differences ( $p < 0.01$ ) are shown in asterisk.



**Supplementary Figure S6:** The vertical distribution of chemical solutes every three hours.

Microbes	Layer (depth)	Concentration or density								
		2:00 May 6th	5:00 May 6th	8:00 May 6th	11:00 6th May	14:00 6th May	17:00 6th May	20:00 6th May	23:00 6th May	2:00 7th May
Chlorophyll <i>a</i> ( $\mu\text{g L}^{-1}$ )	I (0–3 cm)	$4.0 \times 10^{-5} \cdot 5.3 \times 10^2$	$3.7 \times 10^{-5} \cdot 1.1 \times 10^3$	$1.3 \times 10^{-5} \cdot 6.5 \times 10^2$	$1.8 \times 10^{-5} \cdot 3.3 \times 10^2$	$0.3 \times 10^{-5} \cdot 16 \times 10^2$	$2.2 \times 10^{-5} \cdot 1.4 \times 10^3$	$1.5 \times 10^{-5} \cdot 4.2 \times 10^2$	$3.3 \times 10^{-5} \cdot 7.1 \times 10^2$	$5.2 \times 10^{-5} \cdot 1.8 \times 10^3$
	II (3–8 cm)	$0.9 \times 10^{-5} \cdot 3.2 \times 10^2$	$0.3 \times 10^{-5} \cdot 1.4 \times 10^2$	$0.7 \times 10^{-5} \cdot 2.2 \times 10^2$	$1.2 \times 10^{-5} \cdot 2.2 \times 10^2$	$0.4 \times 10^{-5} \cdot 1.2 \times 10^2$	$8.7 \cdot 1.1 \times 10^2$	$1.4 \times 10^{-5} \cdot 9.2 \times 10^2$	$0.7 \times 10^{-5} \cdot 1.7 \times 10^2$	$2.9 \times 10^{-5} \cdot 1.1 \times 10^3$
	III (8–13 cm)	$0.2 \times 10^{-5} \cdot 1.0 \times 10^2$	$0.2 \times 10^{-5} \cdot 1.2 \times 10^2$	$0.7 \times 10^{-5} \cdot 1.1 \times 10^2$	$0.2 \times 10^{-5} \cdot 2.5 \times 10^2$	$0.3 \times 10^{-5} \cdot 2.5 \times 10^2$	$3.5 \cdot 7.9 \times 10^2$	$0.1 \times 10^{-5} \cdot 4.4 \times 10^2$	$0.2 \times 10^{-5} \cdot 5.2 \times 10^2$	$0.4 \times 10^{-5} \cdot 7.4 \times 10^2$
	IV (13–18 cm)	$4.5 \cdot 0.5 \times 10^2$	$6.6 \cdot 0.2 \times 10^2$	$0.3 \times 10^{-5} \cdot 0.5 \times 10^2$	$9.2 \cdot 1.7 \times 10^2$	$0.3 \times 10^{-5} \cdot 1.2 \times 10^2$	$0.9 \cdot 3.7 \times 10^2$	$0.9 \times 10^{-5} \cdot 2.0 \times 10^2$	$8.0 \cdot 6.6 \times 10^2$	$0.1 \times 10^{-5} \cdot 2.5 \times 10^2$
	V (18–23 cm)	$6.1 \cdot 0.2 \times 10^2$	$0.1 \times 10^{-5} \cdot 0.2 \times 10^2$	$6.0 \cdot 0.4 \times 10^2$	$9.5 \cdot 0.4 \times 10^2$	$3.3 \cdot 3.0 \times 10^2$	$1.2 \cdot 2.3 \times 10^2$	$0.2 \times 10^{-5} \cdot 1.5 \times 10^2$	$0.7 \cdot 3.8 \times 10^2$	$2.4 \cdot 0.9 \times 10^2$
Snow algae Type A (cells $\text{L}^{-1}$ )	I (0–3 cm)	$9.9 \times 10^{-5} \cdot 1.4 \times 10^2$	$1.4 \times 10^{-5} \cdot 5.4 \times 10^2$	$2.4 \times 10^{-5} \cdot 2.3 \times 10^2$	$3.7 \times 10^{-5} \cdot 5.3 \times 10^2$	$4.1 \times 10^{-5} \cdot 5.2 \times 10^2$	$1.9 \times 10^{-5} \cdot 2.7 \times 10^2$	$6.2 \times 10^{-5} \cdot 1.6 \times 10^2$	$2.2 \times 10^{-5} \cdot 3.7 \times 10^2$	$1.2 \times 10^{-5} \cdot 6.1 \times 10^2$
	II (3–8 cm)	$1.9 \times 10^{-5} \cdot 1.2 \times 10^2$	$4.6 \times 10^{-5} \cdot 4.3 \times 10^2$	$9.7 \times 10^{-5} \cdot 4.4 \times 10^2$	$3.8 \times 10^{-5} \cdot 5.7 \times 10^2$	$7.3 \times 10^{-5} \cdot 4.2 \times 10^2$	$1.1 \times 10^{-5} \cdot 5.2 \times 10^2$	$4.6 \times 10^{-5} \cdot 9.1 \times 10^2$	$4.6 \times 10^{-5} \cdot 6.5 \times 10^2$	$1.1 \times 10^{-5} \cdot 4.4 \times 10^2$
	III (8–13 cm)	$1.5 \times 10^{-5} \cdot 1.3 \times 10^2$	$7.5 \times 10^{-5} \cdot 2.0 \times 10^2$	$7.5 \times 10^{-5} \cdot 1.5 \times 10^2$	$3.9 \times 10^{-5} \cdot 5.5 \times 10^2$	$3.7 \times 10^{-5} \cdot 8.7 \times 10^2$	$8.2 \times 10^{-5} \cdot 4.9 \times 10^2$	$3.7 \times 10^{-5} \cdot 2.0 \times 10^2$	$4.9 \times 10^{-5} \cdot 4.9 \times 10^2$	$3.8 \times 10^{-5} \cdot 2.9 \times 10^2$
	IV (13–18 cm)	$3.5 \times 10^{-5} \cdot 3.7 \times 10^2$	$7.0 \times 10^{-5} \cdot 1.1 \times 10^2$	$2.9 \times 10^{-5} \cdot 8.4 \times 10^2$	$2.0 \times 10^{-5} \cdot 1.5 \times 10^2$	$2.8 \times 10^{-5} \cdot 1.7 \times 10^2$	$2.1 \times 10^{-5} \cdot 1.1 \times 10^2$	$1.1 \times 10^{-5} \cdot 2.5 \times 10^2$	$1.6 \times 10^{-5} \cdot 1.8 \times 10^2$	$1.5 \times 10^{-5} \cdot 1.5 \times 10^2$
	V (18–23 cm)	$5.0 \times 10^{-5} \cdot 9.3 \times 10^2$	$5.3 \times 10^{-5} \cdot 1.6 \times 10^2$	$4.7 \times 10^{-5} \cdot 5.0 \times 10^2$	$1.4 \times 10^{-5} \cdot 6.5 \times 10^2$	$9.0 \times 10^{-5} \cdot 3.7 \times 10^2$	$5.3 \times 10^{-5} \cdot 5.0 \times 10^2$	$1.9 \times 10^{-5} \cdot 9.0 \times 10^2$	$1.5 \times 10^{-5} \cdot 8.4 \times 10^2$	$3.0 \times 10^{-5} \cdot 7.7 \times 10^2$
Snow algae Type B (cells $\text{L}^{-1}$ )	I (0–3 cm)	$9.9 \times 10^{-5} \cdot 1.4 \times 10^2$	$1.4 \times 10^{-5} \cdot 5.4 \times 10^2$	$2.4 \times 10^{-5} \cdot 2.3 \times 10^2$	$3.7 \times 10^{-5} \cdot 5.3 \times 10^2$	$4.1 \times 10^{-5} \cdot 5.2 \times 10^2$	$1.9 \times 10^{-5} \cdot 2.7 \times 10^2$	$6.2 \times 10^{-5} \cdot 1.6 \times 10^2$	$2.2 \times 10^{-5} \cdot 3.7 \times 10^2$	$1.2 \times 10^{-5} \cdot 6.1 \times 10^2$
	II (3–8 cm)	$6.1 \times 10^{-5} \cdot 14 \times 10^2$	$2.4 \times 10^{-5} \cdot 7.7 \times 10^2$	$2.3 \times 10^{-5} \cdot 3.2 \times 10^2$	$1.6 \times 10^{-5} \cdot 7.3 \times 10^2$	$6.3 \times 10^{-5} \cdot 1.7 \times 10^2$	$1.1 \times 10^{-5} \cdot 1.1 \times 10^2$	$7.5 \times 10^{-5} \cdot 1.8 \times 10^2$	$1.6 \times 10^{-5} \cdot 1.8 \times 10^2$	$3.2 \times 10^{-5} \cdot 5.1 \times 10^2$
	III (8–13 cm)	$7.2 \times 10^{-5} \cdot 3.0 \times 10^2$	$4.5 \times 10^{-5} \cdot 2.6 \times 10^2$	$1.2 \times 10^{-5} \cdot 6.2 \times 10^2$	$1.3 \times 10^{-5} \cdot 1.5 \times 10^2$	$6.8 \times 10^{-5} \cdot 2.2 \times 10^2$	$5.6 \times 10^{-5} \cdot 4.2 \times 10^2$	$6.0 \times 10^{-5} \cdot 1.0 \times 10^2$	$7.4 \times 10^{-5} \cdot 2.0 \times 10^2$	$8.1 \times 10^{-5} \cdot 1.7 \times 10^2$
	IV (13–18 cm)	$1.9 \times 10^{-5} \cdot 1.2 \times 10^2$	$1.5 \times 10^{-5} \cdot 5.5 \times 10^2$	$4.6 \times 10^{-5} \cdot 3.1 \times 10^2$	$1.5 \times 10^{-5} \cdot 6.6 \times 10^2$	$1.8 \times 10^{-5} \cdot 2.0 \times 10^2$	$5.2 \times 10^{-5} \cdot 1.6 \times 10^2$	$1.1 \times 10^{-5} \cdot 4.5 \times 10^2$	$5.9 \times 10^{-5} \cdot 3.6 \times 10^2$	$1.9 \times 10^{-5} \cdot 5.1 \times 10^2$
	V (18–23 cm)	$4.4 \times 10^{-5} \cdot 5.1 \times 10^2$	$2.2 \times 10^{-5} \cdot 1.3 \times 10^2$	$2.2 \times 10^{-5} \cdot 1.4 \times 10^2$	$2.1 \times 10^{-5} \cdot 9.4 \times 10^2$	$2.8 \times 10^{-5} \cdot 9.1 \times 10^2$	$2.3 \times 10^{-5} \cdot 1.6 \times 10^2$	$5.1 \times 10^{-5} \cdot 2.7 \times 10^2$	$1.7 \times 10^{-5} \cdot 8.8 \times 10^2$	$5.8 \times 10^{-5} \cdot 2.5 \times 10^2$
Snow algae Type C (cells $\text{L}^{-1}$ )	I (0–3 cm)	$8.0 \times 10^{-5} \cdot 14 \times 10^2$	$4.0 \times 10^{-5} \cdot 9.0 \times 10^2$	$7.6 \times 10^{-5} \cdot 2.1 \times 10^2$	$1.6 \times 10^{-5} \cdot 6.2 \times 10^2$	$4.2 \times 10^{-5} \cdot 1.2 \times 10^2$	$2.2 \times 10^{-5} \cdot 2.1 \times 10^2$	$7.7 \times 10^{-5} \cdot 2.8 \times 10^2$	$3.3 \times 10^{-5} \cdot 2.1 \times 10^2$	$1.5 \times 10^{-5} \cdot 2.7 \times 10^2$
	II (3–8 cm)	$1.0 \times 10^{-5} \cdot 1.7 \times 10^2$	$1.0 \cdot 104 \cdot 4.4 \times 10^2$	$1.1 \times 10^{-5} \cdot 2.3 \times 10^2$	$4.2 \times 10^{-5} \cdot 1.0 \times 10^2$	$1.3 \times 10^{-5} \cdot 3.3 \times 10^2$	ND $\cdot 5.3 \times 10^2$	$2.0 \times 10^{-5} \cdot 4.2 \times 10^2$	$1.1 \times 10^{-5} \cdot 5.0 \times 10^2$	$1.3 \times 10^{-5} \cdot 2.0 \times 10^2$
	III (8–13 cm)	$2.0 \times 10^{-5} \cdot 3.3 \times 10^2$	ND $\cdot 3.3 \times 10^2$	$4.7 \times 10^{-5} \cdot 3.3 \times 10^2$	$6.3 \times 10^{-5} \cdot 3.7 \times 10^2$	$3.0 \times 10^{-5} \cdot 1.8 \times 10^2$	$6.7 \times 10^{-5} \cdot 4.0 \times 10^2$	$2.5 \times 10^{-5} \cdot 1.6 \times 10^2$	ND $\cdot 3.3 \times 10^2$	ND $\cdot 1.3 \times 10^2$
	IV (13–18 cm)	$ND \cdot 1.7 \times 10^2$	$ND \cdot 8.3 \times 10^2$	$1.6 \times 10^{-5} \cdot 7.7 \times 10^2$	$1.3 \times 10^{-5} \cdot 1.5 \times 10^2$	$3.3 \times 10^{-5} \cdot 1.3 \times 10^2$	$1.7 \times 10^{-5} \cdot 7.3 \times 10^2$	$5.0 \times 10^{-5} \cdot 1.3 \times 10^2$	ND $\cdot 5.6 \times 10^2$	
	V (18–23 cm)	$ND \cdot 1.7 \times 10^2$	$2.0 \times 10^{-5} \cdot 5.0 \times 10^2$	$1.8 \times 10^{-5} \cdot 3.8 \times 10^2$	$2.8 \times 10^{-5} \cdot 1.7 \times 10^2$	$3.3 \times 10^{-5} \cdot 3.0 \times 10^2$	$5.0 \times 10^{-5} \cdot 6.7 \times 10^2$	$3.3 \times 10^{-5} \cdot 7.1 \times 10^2$	$1.7 \times 10^{-5} \cdot 1.0 \times 10^2$	ND $\cdot 8.3 \times 10^2$
Tardigrades (ind $\text{L}^{-1}$ )	I (0–3 cm)	$7.6 \times 10^{-5} \cdot 3.0 \times 103$	$1.0 \times 10^{-5} \cdot 3.5 \times 10^2$	$0.9 \times 10^{-5} \cdot 3.1 \times 10^2$	$0.7 \times 10^{-5} \cdot 1.1 \times 10^2$	$0 \cdot 4.7 \times 10^2$	$0.5 \times 10^{-5} \cdot 1.7 \times 10^2$	$0.6 \times 10^{-5} \cdot 6.6 \times 10^2$	$0 \cdot 6.4 \times 10^2$	$3.1 \times 10^{-5} \cdot 2.3 \times 10^2$
	II (3–8 cm)	$2.3 \times 10^{-5} \cdot 3.2 \times 10^2$	$1.2 \times 10^{-5} \cdot 2.0 \times 10^2$	$0 \cdot 1.5 \times 10^3$	$0.1 \times 10^{-5} \cdot 0.7 \times 10^2$	0	$0 \cdot 1.1 \times 10^2$	$0.9 \times 10^{-5} \cdot 3.7 \times 10^2$	$1.7 \times 10^{-5} \cdot 9.8 \times 10^2$	$3.9 \times 10^{-5} \cdot 9.0 \times 10^2$
	III (8–13 cm)	$1.9 \times 10^{-5} \cdot 4.5 \times 10^2$	$2.6 \times 10^{-5} \cdot 3.7 \times 10^2$	$1.5 \times 10^{-5} \cdot 3.4 \times 10^2$	$0 \cdot 1 \times 10^2$	$0 \cdot 3 \times 10^2$	$0 \cdot 18 \times 10^2$	$5.9 \times 10^{-5} \cdot 1.8 \times 10^2$	$2.0 \times 10^{-5} \cdot 2.1 \times 10^2$	$1.0 \times 10^{-5} \cdot 3.3 \times 10^2$
	IV (13–18 cm)	$0.9 \times 10^{-5} \cdot 2.5 \times 10^2$	$1.1 \times 102 \cdot 1.2 \times 10^2$	$1.7 \times 10^{-5} \cdot 1.6 \times 10^2$	$0.4 \times 10^{-5} \cdot 2.4 \times 10^2$	$0.8 \times 10^{-5} \cdot 1.4 \times 10^2$	$0 \cdot 4 \times 10^2$	$9.1 \times 10^{-5} \cdot 7.9 \times 10^2$	$4.0 \times 10^{-5} \cdot 1.5 \times 10^2$	$0.8 \times 10^{-5} \cdot 5.3 \times 10^2$
	V (18–23 cm)	$0.8 \times 10^{-5} \cdot 3.4 \times 10^2$	$1.5 \times 10^{-5} \cdot 7.4 \times 10^2$	$0 \cdot 1 \times 10^2$	$0 \cdot 0 \times 10^2$	$0 \cdot 4 \times 10^2$	$0 \cdot 2 \times 10^2$	$8.6 \times 10^{-5} \cdot 1.1 \times 10^2$	$0 \cdot 5 \times 10^2$	$0.3 \times 10^{-5} \cdot 1.5 \times 10^2$
Rotifers (ind $\text{L}^{-1}$ )	I (0–3 cm)	$0 \cdot 1 \times 10^2$	$0.3 \times 10^{-5} \cdot 5.7 \times 102$	$0 \cdot 0 \times 4 \times 10^2$	0	0	$0 \cdot 1 \times 10^2$	$0 \cdot 5 \times 10^2$	$0 \cdot 7 \times 10^2$	$0 \cdot 4 \cdot 1 \times 10^2$
	II (3–8 cm)	$0 \cdot 3 \times 10^2$	$0.2 \times 10^{-5} \cdot 1.2 \times 10^2$	$0 \cdot 3 \times 2 \times 10^2$	0	0	$0 \cdot 1 \times 10^2$	$0.6 \times 10^{-5} \cdot 1.1 \times 10^2$	$0 \cdot 4 \cdot 9 \times 10^2$	$5.4 \times 10^{-5} \cdot 1.1 \times 10^2$
	III (8–13 cm)	$0 \cdot 2 \times 10^2$	$0 \cdot 7 \cdot 0 \cdot 10^2$	$0 \cdot 2 \cdot 8 \times 10^2$	0–0.9	$0 \cdot 0 \times 3 \times 10^2$	$0 \cdot 4 \cdot 9 \times 10^2$	$0.9 \times 10^{-5} \cdot 3.5 \times 10^2$	$0 \cdot 4 \times 10^{-5} \cdot 8.7 \times 10^2$	$2.1 \times 10^{-5} \cdot 7.9 \times 10^2$
	IV (13–18 cm)	$0 \cdot 0 \cdot 7 \times 10^2$	$0 \cdot 0 \cdot 2 \times 10^2$	$0 \cdot 1 \cdot 4 \times 10^2$	$0 \cdot 0 \cdot 3 \times 10^2$	$0 \cdot 9 \cdot 1 \times 10^2$	$0 \cdot 1 \cdot 2 \times 10^2$	$1.7 \times 10^{-5} \cdot 4.1 \times 10^2$	$1.5 \times 10^{-5} \cdot 3.7 \times 10^2$	$0 \cdot 2 \cdot 5 \times 10^2$
	V (18–23 cm)	$0 \cdot 0 \cdot 3 \times 10^2$	$0 \cdot 0 \cdot 1 \times 10^2$	$0 \cdot 1 \cdot 4 \times 10^2$	$0 \cdot 0 \cdot 1 \times 10^2$	$0 \cdot 1 \cdot 2 \times 10^2$	$0 \cdot 1 \cdot 9 \times 10^2$	$1.1 \times 10^{-5} \cdot 4.2 \times 10^2$	$0 \cdot 18 \times 10^2$	$0 \cdot 0 \cdot 7 \times 10^2$
<i>Chionaster nivalis</i> (cells $\text{L}^{-1}$ )	I (0–3 cm)	$7.7 \times 10^{-5} \cdot 1.1 \times 10^2$	$7.3 \times 10^{-5} \cdot 2.8 \times 10^2$	$1.1 \times 10^{-5} \cdot 1.6 \times 10^2$	$2.0 \times 10^{-5} \cdot 7.8 \times 10^2$	$9.0 \times 10^{-5} \cdot 3.0 \times 10^2$	$3.3 \times 10^{-5} \cdot 5.1 \times 10^2$	$4.2 \times 10^{-5} \cdot 1.4 \times 10^2$	$9.0 \times 10^{-5} \cdot 6.2 \times 10^2$	$2.2 \times 10^{-5} \cdot 5.2 \times 10^2$
	II (3–8 cm)	$1.7 \times 10^{-5} \cdot 8.2 \times 10^2$	$1.0 \times 10^{-5} \cdot 5.0 \times 10^2$	$6.7 \times 10^{-5} \cdot 2.5 \times 10^2$	$1.0 \times 10^{-5} \cdot 1.3 \times 10^2$	$4.3 \times 10^{-5} \cdot 1.0 \times 10^2$	$3.3 \times 10^{-5} \cdot 2.1 \times 10^2$	$1.3 \times 10^{-5} \cdot 7.3 \times 10^2$	$6.7 \times 10^{-5} \cdot 1.0 \times 10^2$	$4.0 \times 10^{-5} \cdot 7.7 \times 10^2$
	III (8–13 cm)	$3.3 \times 10^{-5} \cdot 2.2 \times 10^2$	$1.0 \times 10^{-5} \cdot 8.9 \times 10^2$	$1.3 \times 10^{-5} \cdot 6.0 \times 10^2$	$3.8 \times 10^{-5} \cdot 1.7 \times 10^2$	$1.5 \times 10^{-5} \cdot 5.3 \times 10^2$	$1.2 \times 10^{-5} \cdot 8.0 \times 10^2$	$3.3 \times 10^{-5} \cdot 6.7 \times 10^2$	$3.3 \times 10^{-5} \cdot 6.3 \times 10^2$	$7.0 \times 10^{-5} \cdot 2.0 \times 10^2$
	IV (13–18 cm)	$1.3 \times 10^{-5} \cdot 3.3 \times 10^2$	$1.8 \times 10^{-5} \cdot 3.0 \times 10^2$	$8.9 \times 10^{-5} \cdot 3.3 \times 10^2$	$8.3 \times 10^{-5} \cdot 1.2 \times 10^2$	$6.7 \times 10^{-5} \cdot 5.3 \times 10^2$	$6.7 \times 10^{-5} \cdot 1.7 \times 10^2$	$6.7 \times 10^{-5} \cdot 7.3 \times 10^2$	$1.3 \times 10^{-5} \cdot 1.0 \times 10^2$	ND $\cdot 3.3 \times 10^2$
	V (18–23 cm)	$1.0 \times 10^{-5} \cdot 7.7 \times 10^2$	$1.2 \times 10^{-5} \cdot 5.3 \times 10^2$	ND $\cdot 1.8 \times 10^2$	$2.2 \times 10^{-5} \cdot 4.0 \times 10^2$	ND $\cdot 1.2 \times 10^2$	ND $\cdot 12 \times 10^2$	ND $\cdot 3.0 \times 10^2$	ND $\cdot 3.3 \times 10^2$	