

Validation statistics^a for overpass erythral dose rate (DP (1)).

Site	Month	Surface ^b	N_1	$p_{5.1}$	$p_{25.1}$	\tilde{p}_1	\bar{p}_1	$p_{75.1}$	$p_{95.1}$ [%]	$W_{10.1}$ [%]	$W_{20.1}$ [%]	$W_{30.1}$
Alert (82.50° N)	Apr	SC	127	0.99	1.02	1.06	1.08	1.12	1.27	70	91	95
	Jul	SF	274	0.61	0.93	1.08	1.15	1.30	1.81	30	47	62
Eureka (79.99° N)	Apr	SC	68	1.07	1.11	1.14	1.15	1.17	1.27	18	84	97
	Jul	SF	293	0.89	1.01	1.10	1.10	1.16	1.34	41	83	91
Ny-Ålesund (78.92° N)	Apr	SC	494	0.28	0.49	0.60	0.61	0.73	0.90	4	11	19
	Aug	SF	467	0.75	0.92	1.05	1.10	1.23	1.65	36	60	75
Resolute (74.72° N)	Apr	SC	100	0.97	1.09	1.13	1.12	1.16	1.24	28	87	99
	Aug	SF	196	0.77	1.09	1.18	1.25	1.31	2.02	17	49	70
Summit (72.58° N)	Mar	PSC	320	0.98	1.02	1.05	1.05	1.08	1.15	84	98	100
	Jul	PSC	263	1.01	1.06	1.08	1.09	1.13	1.21	60	94	99
Barrow (71.32° N)	Mar	SC	166	1.00	1.05	1.09	1.10	1.12	1.27	59	90	96
	Jul	SF	277	0.82	0.97	1.08	1.11	1.17	1.53	40	71	84
Andøya (69.28° N)	Mar	SC	320	0.66	0.87	0.99	1.02	1.08	1.50	44	63	76
	Aug	SF	283	0.76	1.00	1.14	1.34	1.49	2.50	31	45	57
Sodankylä (67.37° N)	Mar	SC	187	0.93	1.07	1.13	1.14	1.18	1.45	32	79	89
	Aug	SF	214	0.84	0.97	1.05	1.16	1.18	1.82	51	73	84
Trondheim (63.42° N)	Mar	SC	208	1.23	1.38	1.59	1.91	1.94	3.84	0	3	11
	Aug	SF	229	0.85	1.03	1.11	1.24	1.31	2.03	34	62	72
Finse (60.60° N)	Mar	SC	115	0.16	0.27	0.47	0.48	0.62	0.91	4	8	12
	Aug	SF	204	0.66	0.85	1.01	1.27	1.37	2.49	28	40	54
Jokioinen (60.82° N)	Feb	SC	86	0.61	0.74	0.87	0.92	1.07	1.31	22	43	63
	Jul	SF	165	0.79	0.93	1.03	1.11	1.16	1.74	48	68	79
Østerås (59.95° N)	Feb	SC	209	0.66	0.81	0.92	1.03	1.09	1.87	28	56	75
	Jul	SF	211	0.78	0.98	1.08	1.33	1.38	2.57	40	57	66
Blindern (59.94° N)	Feb	SC	205	0.72	0.84	0.95	1.10	1.15	1.78	30	55	74
	Jul	SF	211	0.76	0.99	1.08	1.39	1.35	2.28	42	57	66

^a Match-up data were filtered for SZA < 84° and Dis; 12 km.

^b S = snow cover, SF = snow-free, PSC = permanent snow cover.