

CO₂-values in Scandinavia May—July 1958(Cf. FONSELIUS, KOROLEFF: *Tellus* 7, pp. 258—265)

Station	May					June					July				
	Date	°C	Wind	Weather	CO ₂ ml/10 l.	Date	°C	Wind	Weather	CO ₂ ml/10 l.	Date	°C	Wind	Weather	CO ₂ ml/10 l.
Kn	5	—	—	—	2.67	9	—	—	10	—	16	—	—	—	—
	18	— 6	ENE	2	8 2.72	17	—	—	10	—	17	—	—	—	—
	19	13.0	NE	5	2 2.86	18	—	—	7	—	27	—	—	—	—
	24	—	—	—	—	24	—	—	—	—	—	—	—	—	—
Ao	5	0.5	ESE	8	9 3.03	9	3.0	N	1 = 10	2.94	16	—	—	—	—
	18	2.7	SSE	5	1 3.09	17	16.4	NNE	3	10 3.24	17	—	—	—	—
	19	1.0	N	5	3.23	18	17.0	S	7	10 3.67	27	—	—	—	—
	24	—	—	—	—	24	16.0	N	1	5 3.32	—	—	—	—	—
Öj	5	5.2	N	1	9 2.96	9	7.2	W	1	9 3.27	16	—	—	—	—
	18	1.7	N	13 *	10 3.01	17	17.0	S	10	1 3.10	17	—	—	—	—
	19	0.7	N	1	1 3.19	18	18.0	SSE	10 = 4	3.03	27	—	—	—	—
	24	—	—	—	—	24	18.5	S	1 =	3.73	—	—	—	—	—
Br	5	—	—	—	—	9	—	—	—	—	16	—	—	—	—
	18	1.0	NW	8	8 2.81	17	15.0	S	1 =	2.78	17	—	—	—	—
	19	4.0	NW	10	5 3.09	18	6.0	W	1	2.89	27	—	—	—	—
	24	—	—	—	—	24	17.0	S	1 • 10	3.34	—	—	—	—	—
Er	5	—	—	—	—	9	9.9	E	3 • 10	2.84	16	16.6	Calm	6	3.18
	18	8.5	W	5	2 3.07	17	18.8	S	6	1 2.54	17	14.4	NNE	4	8 2.59
	19	8.5	W	7	1 3.09	18	19.7	S	8	2 2.55	27	—	—	—	—
	24	—	—	—	—	24	19.0	S	2	1 3.03	—	—	—	—	—
Fl	5	13.2	NW	2	1 2.94	9	14.0	W	1	9 2.41	16	—	—	—	—
	18	6.8	W	1	5 3.35	17	23.0	S	2	2 3.12	17	—	—	—	—
	19	8.0	W	1	2 2.95	18	13.6	S	1	9 3.03	27	—	—	—	—
	26	—	—	—	—	24	15.2	Calm	—	8 2.96	—	—	—	—	—
Pl	5	5.0	W	4	1 3.10	9	14.0	W	3	6 3.27	16	—	—	—	—
	18	8.0	SW	3 • 10	2.88	17	16.0	NW	3	5 3.69	17	—	—	—	—
	19	11.0	SW	1	4 2.92	18	18.0	W	4	4 3.08	27	—	—	—	—
	24	—	—	—	—	24	16.0	S	1	7 3.12	—	—	—	—	—
So	5	5.5	E	2	∞ 10 3.14	9	4.1	SE	2 • 10	3.45	16	10.8	WSW	2 • 10	3.39
	18	2.5	N	3 *	10 3.50	17	—	—	—	—	17	14.6	WSW	2	10 3.11
	19	— 0.9	NE	3 *	10 3.38	18	20.5	SSW	4 ∞ 5	3.45	27	19.9	NNW	1 ∞ 0	3.14
	24	—	—	—	—	24	14.6	W	4	10 3.32	—	—	—	—	—
Ka	5	5.0	NNE	3 • 10	3.32	9	11.6	WNW	1 • 10	3.32	16	16.2	WSW	2	0 3.42
	18	0.9	N	6 • 10	3.50	17	19.4	WSW	1	0 3.32	17	17.2	WNW	2	0 3.30
	19	1.2	NNW	5 • 10	3.47	18	21.6	SSE	2	0 3.47	27	20.0	ENE	2	0 3.18
	24	—	—	—	—	24	18.7	W	1	0 3.42	—	—	—	—	—
Ku	5	2.2	N	1	5 3.35	9	15.0	SSE	2	10 3.23	16	15.6	W	1	5 3.35
	18	2.7	SSW	1 • 10	3.49	17	17.6	Calm	—	0 3.30	17	16.4	W	1	5 3.06
	19	3.5	W	2	5 3.45	18	20.5	S	2	0 3.32	27	19.9	NE	2	10 3.04
	24	—	—	—	—	24	19.8	E	1	5 3.36	—	—	—	—	—
Jy	5	3.4	ENE	2 • 10	3.38	9	12.9	SSW	2	10 3.36	16	16.8	W	2	5 3.51
	18	6.4	S	2 • 10	3.46	17	19.2	SW	2	5 3.47	17	19.3	N	1	5 3.51
	19	1.6	NW	3 • 10	3.41	18	20.4	S	3	2 3.53	27	20.2	NE	2	5 3.36
	24	—	—	—	—	24	—	—	—	—	—	—	—	—	—
Pu	5	4.2	N	1 • 10	3.34	9	13.2	SE	2 • 10	3.40	16	10.8	WNW	2 ⊙ 5	3.26
	18	6.4	SSE	2 ∇ 10	3.51	17	17.8	S	2 ⊙ 4	3.58	17	18.7	SW	2 ⊙ 2	3.33
	19	4.7	NW	3 ∇ 10	3.48	18	20.0	WSW	2 ⊙ 5	3.56	27	17.5	N	1	10 3.41
	24	—	—	—	—	24	18.1	ESE	1 ⊙ 2	3.35	—	—	—	—	—

Station	May					June					July							
	Date	°C	Wind	Weather	CO ₂ ml/10 l.	Date	°C	Wind	Weather	CO ₂ ml/10 l.	Date	°C	Wind	Weather	CO ₂ ml/10 l.			
Tv	5	6.0	NW	2	10	3.40	9	9.5	SW	3	10	3.45	16	17.0	SW	4	5	3.40
	18	4.0	WNW	8	10	3.41	17	16.0	E	5	5	3.20	17	15.0	E	2	10	3.28
	19	8.0	WNW	7	0	3.23	18	17.0	E	4	0	3.36	27	19.0	S	1	0	3.41
							24	16.0	SE	1	10	3.30						
Ta	5	0.3	E	2	9	2.78	9	4.0	Calm		1	3.00	16	9.7	W	2	10	2.95
	18	2.2	NE	4	9	3.14	17	13.0	Calm		2	3.06	17	9.6	SSE	4	8	2.90
	19	1.0	NE	9	Δ*10	2.97	18	17.0	S	4	2	3.16	27	15.5	SSE	4	1	3.02
							24	9.1	Calm		● 10	2.91						
Vg	5	5.5	SSE	1	10	2.84	9	5.8	W	4	10	2.01	16	8.7	WSW	5	●	2.67
	18	1.8	N	3	10	3.03	17	14.2	E	1	10	3.54	17	9.4	SW	5	▽ ●	3.12
	19	5.5	N	5	10	2.82	18	15.4	E	3	10	3.00	27	20.3	SE	4	1	2.97
							24	12.6	N	4	10	3.22						
Va	5	5.0	WSW	2	5	3.19	9	7.1			5	2.90	16	17.2	WSW	2	5	2.72
	18	6.7	WSW	13	10	2.95	17	16.7	Calm		10	2.78	17	15.7	SW	2	5	3.12
	19	9.1	W	9	5	3.09	18	11.2	W	13	10	3.12	27	13.0	NE	2	▽ ● 10	1.77
							24	13.0	NNE	1	5	3.52						
Sd	5	7.0	S	4	10	3.19	9	12.0	NW	10	1	3.02	16	14.0	NW	2	1	3.27
	18	9.0	NW	6	2	3.01	17	9.0	W	4	● 10	3.16	17	15.0	NW	2	1	3.09
	19	10.0	NW	1	1	3.06	18	11.0	NW	6	8	3.14	27	19.0	SW	4	3	3.02
							24	16.0	SW	1	10	2.93						
Öd	5	10.6	ESE	4	9	2.94	9	16.5	W	4	10	2.78	16	12.3	NW	2	▽ 10	3.17
	18	11.4	W	5	7	3.04	17	18.7	SE	3	10	2.57	17	11.6	NW	3	● 10	3.06
	19	14.7	SW	4	1	3.17	18	15.3	SW	5	6	3.41	28	15.1	S	3	10	2.62
							24	15.3	SW	3	10	3.09						
As	5	11.0	S	2	10	2.91	9	12.2	SW	3	9	2.98	16	11.9	W	5	● 10	2.64
	18	11.2	W	5	9	3.14	17	23.6	SE	6	1	2.83	17	16.2	WNW	5	● 10	3.37
	19	12.0	W	3	3	3.00	18	15.0	NW	5	4	2.51	27	16.6	NW	4	1	3.06
							24	17.0	NW	2	1	2.99						
Vl	5	15.3	S	4	8	3.14	9	11.9	SE	6	10	2.90	16	14.9	NNE	14	● 8	3.17
	18	—	—	—	—	—	17	18.5	NNW	7	10	3.02	17	17.3	W	7	3	2.91
	19	12.3	SW	14	10	3.11	18	14.7	NNW	5	4	3.21	27	—	—	—	—	—
							24	—	SSW	2	8	2.87						

Correction. The stations Eskdalemuir (Es) and Camborne (Ca) have their HCO_3^- values for November and December 1957 expressed in mg/m^3 . The values in micro equivalents are:

	November	December
Es.....	172	8
Ca.....	33	4

The correct precipitation values for following stations during January 1958 (D 801) are:

Code	mm	S	Cl	$\text{NO}_3\text{-N}$	$\text{NH}_3\text{-N}$	Na	K	Mg	Ca
Ab	86	98	685	15	17	440	28	81	165
Ed	42	51	226	5	11	137	8	22	47
Le	52	74	320	12	57	126	16	26	38
Ra	60	41	160	11	13	71	10	18	52
NA	112	105	770	11	41	443	16	59	96

<i>New Stations</i>	Code	Country	Ind. OMM.	Lat N	Long. Greenwich	Prec.	Air	Start
Malin Head.....	Ma	Ireland	03980	55° 22'	07° 20' W	+		1.6.58
Belmullet.....	Bt	"	03976	54° 14'	10° 00' W	+		1.3.58
Clones.....	Cl	"	03974	54° 11'	07° 14' W	+		1.7.58
Dublin Airport.....	DA	"	03969	53° 26'	06° 15' W	+		1.2.58
Birr.....	Bi	"	03965	53° 05'	07° 53' W	+		1.4.58
Rosslare.....	Rl	"	03957	52° 15'	06° 20' W	+		1.5.58
Roches Point.....	RP	"	03952	51° 48'	08° 15' W	+		1.8.58
Fjordvang.....	Fj	Denmark		56° 03'	08° 19' E	+		1.8.58
Nr. Lyngvig.....	NL	"		56° 03'	08° 06' E	+		1.8.58
Högaryd.....	Hö	Sweden		56° 43'	14° 10' E	+		1.11.58
Östra Torsås.....	ÖT	"		56° 45'	14° 54' E	+		1.11.58
Önnestad.....	Ön	"		56° 03'	14° 01' E	+	+	1.9.58
<i>Abolished Stations</i>					Dat.			
Bredkälén.....	Br	Sweden			1.8.58			
Åre Hummel.....	ÅH	"			1.9.58			
Vinga.....	Vi	"			1.8.58			
Fröslida.....	Fi	"			1.10.58 changed to Högaryd Hö (See New Stations)			
Simlångsdalen.....	Si	"			1.11.57			
Söraby.....	Sö	"			1.10.58 changed to Östra Torås ÖT (See New Stations)			
<i>Changes in the sampling</i>								
Riksgränsen.....	Ri	Sweden			No air sampling from 1.9.58			
Sveg.....	Sv	"			" " " " 1.9.58			
Lanna.....	La	"			" " " " 1.8.58			
Bornö.....	Bo	"			" " " " 1.9.58			
Falsterbobruk.....	Fa	"			" " " " 1.8.58			
Sylfaste.....	Sy	"			" " " " 1.9.58			
Bräkne Hoby.....	BH	"			" " " " 1.8.58			
Alnarp.....	Al	"			" " " " 1.8.58			
Kinnvika.....	Ki	Spitzbergen			From 1.8.58 only yearly reports			
Ödum.....	Öd	Denmark			From 1.7.58 analyzed in Lyngby. No air sampling			
Askov.....	As	"			" 1.7.58 " " " " " " "			
Tystofte.....	Ty	"			" 1.7.58 " " " " " " "			
Aberdeen.....	Ab	Great Britain			From 1.6.58 analyzed in London			
Edinburgh.....	Ed	"			" 1.6.58 " " " " " " "			
Leeds.....	Le	"			" 1.6.58 " " " " " " "			
Rothamsted.....	Ro	"			" 1.6.58 " " " " " " "			
Newton Abbot.....	NA	"			" 1.6.58 " " " " " " "			
Lerwick.....	Lw				Started sampling 1.1.58 Coordinates See Tellus 10.1958 p. 170			
Stornoway.....	Sw	"			" 1.5.58 " " " " " " "			10.1958 p. 170
Aldergrove.....	Ag	"			" 1.5.58 " " " " " " "			10.1958 p. 170

Note The French samples are sent by mr Viaut, directeur de la Meteorologique de France.

For further informations, see Egnér H., Eriksson E. Tellus 7 1955 pp. 134—39, Tellus 8 1956 p. 285 and 517 and Fonselius S. Tellus 10 1958 pp. 170—71.