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Ödsmål, Kville sn, Bohuslän

Hällristning
Fiskare från
bronsåldern

Rock carving
Bronze age
fishermen



**MEDDELANDE från
HAVSFISKELABORATORIET · LYSEKIL**

nr
162

Hydrografiska avdelningen, Göteborg

Decade Mean Values of Salinities Measured
on Swedish Lightships 1880-1970

Edited by Artur Svansson

February 1974

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1. Already in 1880 measurements of temperature and salinity started on Swedish (and Danish) lightships. The salinity determinations were made by means of a hydrometer during the first forty years. From 1923 titration according to Knudsen (Forch. et al 1902) was introduced and the data began to be published. In the publication of the data measured in 1923 were also included monthly means of temperature for the period 1880-1913. The salinities, however, were excluded because "an old and less accurate method had been used". When these old salinity data were "rediscovered" in 1970 they were assumed to be of interest as the same method is still in use on board Danish lightships (Svansson 1971). Apparently there are differences between the two methods, titration and hydrometer, and therefore a correction factor has been introduced in the data presented in this paper (see below under 3). Unfortunately this factor is probably not quite accurate and new investigations should be made to improve it.

Later, in 1964, titration was replaced by the method of electric conductivity on the lightvessels Fladen and Vinga. According to intercalibration tests, the difference between titration and electric conductivity methods is negligible (Anon. 1966).

The decades chosen are in accordance with e.g. ICES Resolution 1971/1:1. Further, whenever possible, 30- year means have been calculated for the two periods 1901-1930 and 1931-1960. These periods are in concert with the periods used in meteorological climatology and they have also been used for the data from the Danish lightships (Anon. 1933, Anon. 1972).

The tables contain 10- year monthly means, 10- year annual means and also 10- year means for the period May-November for the salinities S. This latter value has been computed because, due to ice conditions, many lightships' data cover only these months. It is to be observed that this holds true also for the 10- year annual and 10- year May-November means, i.e. they were derived from, at the most, 10 values of the corresponding means for every year (30 values, at the most, for the 30- year means).

When there were less than five years data in a decade the mean value has been excluded. If there were 5 or 6 years, a figure indicating this number was inserted. We note further

1.1. that on a few occasions the mean value for the period 1931-1940, 1951-1970 substitutes the mean value for 1931-1960.

1.2. that in the decade 1961-1970 for Vinga, measurements made at a neighbouring position, called Vinga Västra, were used as a substitute for the years 1966-1968 (after 1968 there are no Vinga measurements).

2. Hydrometer Data 1880-1922. Salinity Computations of the Data 1919-1922.

During the years 1880-1922 the salinity was computed from a density determination by means of a hydrometer. For the period 1880-1918 already computed salinities could be found in the original journals (Svansson 1971). The data of the period 1919-1922, however, had to be converted. It has been impossible to find instructions for this conversion but from some notes and publications (e.g. Ekman 1870) and also by checking some old data it is almost certain that the hydrometers were standardized to 15°C.

A computer program was made to show hydrometer readings as a function of temperature and salinity, ("indirect tables"). Let $\rho_{t_1}^t$ indicate the density at $t^\circ\text{C}$ referred to $t_1^\circ\text{C}$. As usual $\sigma = 10^3 (\rho - 1)$. From Knudsen's Tables (1901) were taken formulas to compute the chlorinity Cl from the salinity S , σ_4^0 from Cl, σ_4^t from σ_4^0 and the temperature t , and finally ρ_4^t

Now ρ_4^t is converted into ρ_{15}^t by means of the formula

$$\rho_4^t = \rho_{15}^t \cdot D_4^{15}$$

where $D_4^{15} = 0.99913$ is the density of distilled water at 15°C (referred to 4°C).

The formula used looks in its more general form (See e.g. Krümmel 1890) as appears below

$$\rho_{t_2}^{t_1} = \rho_{t_4}^{t_3} \cdot \frac{\rho_{t_4}^{t_1}}{\rho_{t_4}^{t_3}} \cdot \frac{D_4^{t_4}}{D_4^{t_2}}$$

From σ_{15}^t is subtracted a glass correction

$$\frac{10^3 (15 - t) 0.000025}{\rho_{15}^t}$$

and finally we get $\sigma_{15}^t r$, the hydrometer reading.

3. Correction of the Salinities Measured 1880-1922.

Already in the beginning of this century J.P. Jacobsen (1908) made "a comparison between areometer observations and titration as means of determining the salinity of the sea at the Danish lightships". "Thus it will be seen, that those from areometer-observations determined salinities, being directly comparable with titrations, generally will prove to be too low. On the basis of the investigations above ----- one might correct the salinity given in ‰ by +0.2."

In this paper 0.45 ‰ has been added to all values from 1880-1922. This value was achieved (somewhat roughly) in the following manner.

- a) A comparison for the period 1935-1939 for the lightvessels Storbrotten (Finnish) and Grundkallen, when all salinities were determined in the Knudsen sense, resulted in equal mean values. For the year 1914, when the Finnish vessel used the Knudsen method but the Swedish vessel the old hydrometer method, was obtained a value 0.70 ‰ lower on the Swedish lightvessel.
- b) A comparison for the period 1901-1914, when the Swedish lightvessel Svinbådan and the Danish lightvessel Lappegrund both used the same old hydrometer method, gave a 0.5 ‰ higher value on Svinbådan. For the period 1949-1952 when the Danish lightvessel used the old method but the Swedish one the Knudsen method the difference was again 0.5 ‰. Consequently on this lightvessel there seems to be no difference between the two methods.

As a consequence a correction of $0.45 \text{ }^{\circ}/\text{oo S}$ was added to all values from the period 1880-1922. It was chosen this high because the Baltic data are more numerous and also more sensitive to correction.

Comparing the paras a) and b) above with the introduction of Svansson (1971) it is clear that some of the statements in the latter publication have been changed.

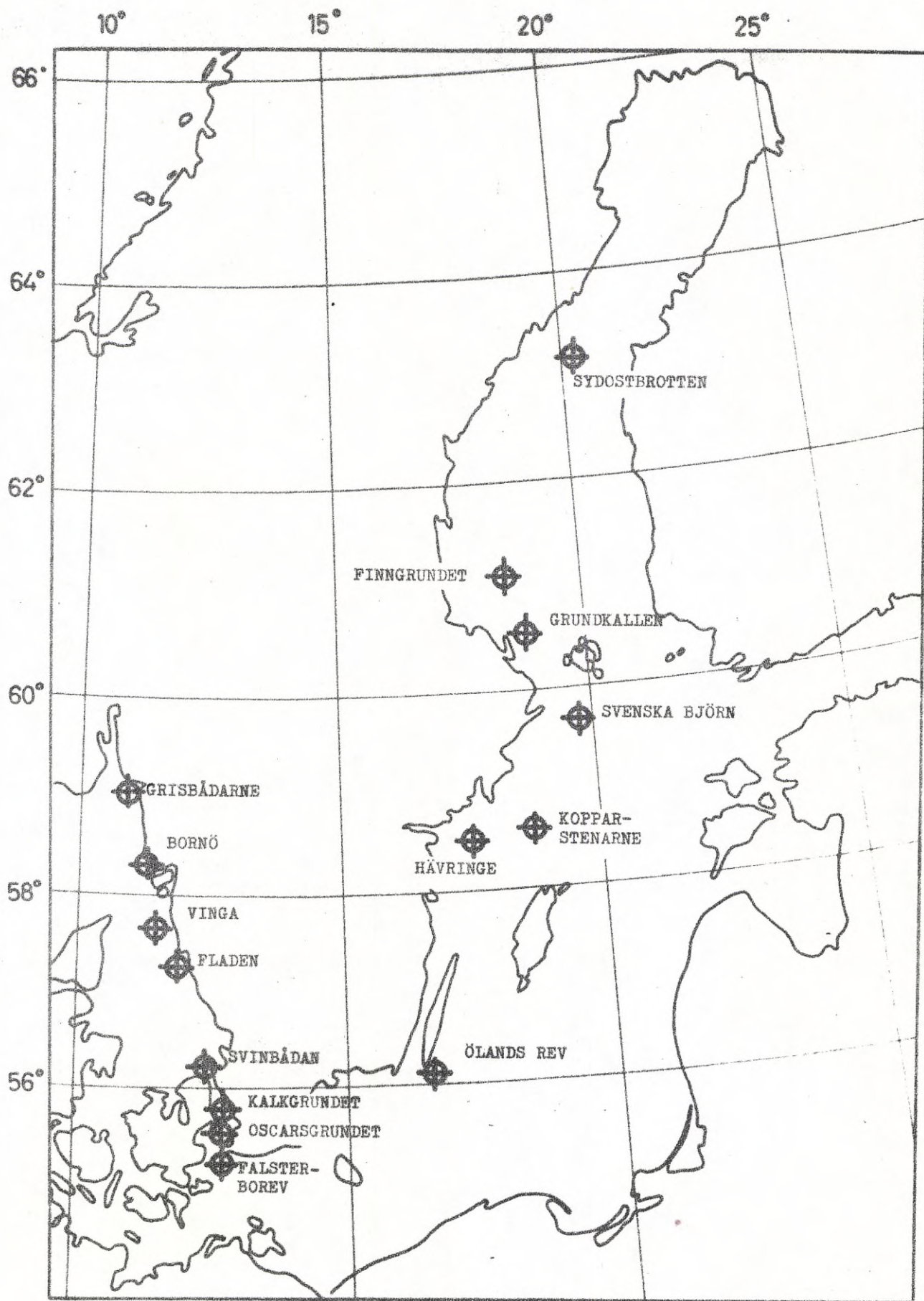
4. The computational work was managed by Anita Taglind assisted by Eva-Gun Thelén. High speed computers were not used since most of the data was never punched.

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Sydostbrotten 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May- Nov
1881 - 1890 ^x						4.75	4.62	4.81	5.09	5.28				4.94
1891 - 1900 ^x						4.63	4.32	4.59	5.07	5.14				4.77
1901 - 1910 ^x						4.53	4.34	4.33	4.66	4.91	5.02			4.64
1911 - 1920 ^x						4.24	4.32	4.46	4.58	4.82	4.97			4.58
1921 - 1930						4.60	4.24	4.09	4.65	4.95	5.10			4.60
1931 - 1940					4.62	4.54	4.27	4.20	4.40	4.94	5.04	5.14		4.57
1941 - 1950						4.76	4.35	4.47	4.68	5.22	5.30	5.51		4.80
1951 - 1960						4.71	4.43	4.68	4.86	5.09	5.41	5.58		4.84
1901 - 1930						4.47	4.30	4.28	4.63	4.90	5.03			4.61
1931 - 1960						4.67	4.35	4.46	4.65	5.08	5.24	5.41		4.74

x 0.45 has been added to original values

Sydostbrotten 5 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1921 - 1930						4.66	4.35	4.13	4.59	4.94	5.10			4.64
1931 - 1940					4.65	4.68	4.43	4.22	4.42	4.96	5.08	5.20		4.63
1941 - 1950						4.96	4.51	4.54	4.76	5.35	5.34	5.57		4.91
1951 - 1960						4.81	4.58	4.83	4.86	5.10	5.41	5.60		4.93
1931 - 1960						4.81	4.51	4.53	4.68	5.12	5.27	5.44		4.83

Sydostbrotten 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x						5.11	4.97	5.03	5.19	5.33				5.14
1891 - 1900 ^x						4.88	4.66	4.72	5.08	5.18				4.92
1901 - 1910 ^x						4.86	4.65	4.60	4.83	5.02	5.12			4.85
1911 - 1920 ^x						4.63	4.58	4.66	4.76	4.92	5.13			4.79
1921 - 1930						4.91	4.74	4.43	4.74	5.01	5.15			4.84
1931 - 1940					4.85	4.80	4.63	4.45	4.54	5.00	5.13	5.23		4.76
1941 - 1950						5.13	4.91	4.73	4.79	5.32	5.35	5.59		5.07
1951 - 1960						5.02	4.89	5.06	5.00	5.16	5.48	5.65		5.11
1901 - 1931						4.82	4.66	4.56	4.78	4.99	5.13			4.83
1931 - 1960						4.98	4.81	4.76	4.79	5.16	5.32	5.47		4.98

^x 0.45 has been added to the original values

Sydostbrotten 20 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x						5.41	5.38	5.38	5.38	5.40				5.40
1891 - 1900 ^x						5.23	5.32	5.28	5.23	5.26				5.26
1901 - 1910 ^x						5.18	5.13	5.11	5.14	5.16	5.21			5.16
1911 - 1920 ^x						4.99	5.04	5.10	5.03	5.03	5.27			5.07
1921 - 1930						5.27	5.17	5.04	5.09	5.16	5.25			5.16
1931 - 1940					5.05	5.06	5.03	4.98	4.89	5.09	5.26	5.20		5.05
1941 - 1950						5.46	5.37	5.43	5.21	5.36	5.45	5.67		5.41
1951 - 1960						5.44	5.41	5.52	5.48	5.41	5.56	5.68		5.48
1901 - 1930						5.16	5.12	5.08	5.09	5.12	5.24			5.14
1931 - 1960						5.31	5.28	5.32	5.21	5.30	5.42	5.51		5.31

Sydostbrotten 30 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1921 - 1930						5.42	5.42	5.40	5.43	5.40	5.33			5.40
1931 - 1940					5.22	5.24	5.25	5.26	5.16	5.27	5.32	5.31		5.25
1941 - 1950						5.57	5.67	5.72	5.65	5.56	5.58	5.75		5.65
1951 - 1960						5.75	5.68	5.75	5.76	5.71	5.64	5.71		5.71
1931 - 1960						5.53	5.54	5.58	5.52	5.53	5.51	5.58		5.54

^x 0.45 has been added to original values

Sydostbrotten 40 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1941 - 1950						5.75	5.86	5.90	5.86	5.76	5.76	5.79		5.85
1951 - 1960						5.95	5.81	5.92	5.89	5.97	5.78	5.74		5.89

Sydostbrotten 45 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x						5.78	5.83	5.85	5.78	5.70				5.79
1891 - 1900 ^x						5.73	5.82	5.80	5.75	5.63				5.74
1901 - 1910 ^x						5.51	5.52	5.58	5.54	5.46	5.43			5.51
1911 - 1920 ^x						5.42	5.50	5.56	5.64	5.61	5.52			5.52
1921 - 1930						5.55	5.59	5.62	5.61	5.61	5.54			5.58
1931 - 1940					5.35	5.44	5.47	5.42	5.44	5.44	5.40	5.33		5.42
1901 - 1930						5.50	5.54	5.59	5.59	5.56	5.50			5.54

x 0.45 has been added to the original values

Finngrundet 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					5.83	5.79	5.71	5.58	5.55	5.58	5.66			5.67
1891 - 1900 ^x					5.79	5.77	5.65	5.50	5.51	5.54	5.57			5.60
1901 - 1910 ^x					5.41	5.42	5.40	5.28	5.21	5.21	5.25			5.31
1911 - 1920 ^x					5.14	5.24	5.18	5.19	5.14	5.09	5.11	5.09	5.16	5.16
1921 - 1930	5.33				5.37	5.44	5.32	5.19	5.16	5.23	5.33	5.20	5.30	5.29
1931 - 1940	5.28	5.29	5.30		5.31	5.29	5.29	5.12	5.11	5.18	5.20	5.14	5.23	5.21
1941 - 1950 (5 years)	5.67				5.74	5.67	5.62	5.54	5.40	5.55	5.60	5.66	5.57	5.56
1951 - 1960	5.71	5.76			5.76	5.73	5.66	5.61	5.56	5.60	5.60	5.70	5.67	5.64
1961 - 1970	5.74				5.70	5.66	5.60	5.53	5.48	5.61	5.63	5.68	5.64	5.61
1901 - 1930					5.33	5.37	5.30	5.22	5.17	5.17	5.23		5.26	5.25
1931 - 1960	5.54				5.54	5.56	5.53	5.42	5.36	5.44	5.46	5.50	5.48	5.47

x 0.45 has been added to the original values

Finngrundet 5 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					5.83	5.79	5.70	5.58	5.55	5.58	5.66			5.67
1891 - 1900 ^x					5.79	5.78	5.65	5.51	5.51	5.54	5.57			5.61
1901 - 1910 ^x					5.41	5.42	5.40	5.28	5.21	5.21	5.24			5.31
1911 - 1920 ^x					5.14	5.24	5.17	5.22	5.13	5.11	5.16	5.15	5.18	5.17
1921 - 1930	5.35				5.35	5.44	5.32	5.19	5.17	5.26	5.32	5.19	5.30	5.29
1931 - 1940	5.28	5.29	5.28		5.32	5.29	5.29	5.10	5.10	5.16	5.17	5.20	5.23	5.20
1941 - 1950 (5 years only)	5.73				5.73	5.72	5.73	5.57	5.50	5.60	5.61	5.68	5.66	5.64
1951 - 1960	5.70	5.68			5.77	5.71	5.65	5.62	5.57	5.59	5.61	5.73	5.67	5.64
1961 - 1970	5.74	5.77			5.68	5.66	5.60	5.55	5.49	5.58	5.65	5.69	5.65	5.61
1901 - 1930					5.32	5.36	5.29	5.24	5.17	5.19	5.23		5.26	5.26
1931 - 1960	5.55				5.58	5.55	5.54	5.41	5.38	5.43	5.45	5.52	5.49	5.48

x 0.45 has been added to the original values

Finngrundet 20 m

	J	F	M	A	M	J	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					5.83	5.82	5.80	5.71	5.60	5.59	5.68				5.72
1891 - 1900 ^x					5.79	5.79	5.69	5.62	5.55	5.54	5.57				5.64
1901 - 1910 ^x					5.43	5.43	5.41	5.35	5.23	5.21	5.24				5.33
1911 - 1920 ^x					5.17	5.29	5.24	5.33	5.18	5.14	5.22	5.15	5.23	5.23	5.23
1921 - 1930	5.36				5.35	5.45	5.44	5.38	5.31	5.27	5.35	5.19	5.35	5.35	5.36
1931 - 1940	5.29	5.30	5.30		5.32	5.31	5.34	5.25	5.18	5.18	5.18	5.20	5.26	5.26	5.25
1941 - 1950 (5 years only)					5.74	5.73	5.74	5.72	5.66	5.62	5.64	5.69	5.69	5.70	5.69
1951 - 1960	5.72	5.76			5.78	5.76	5.74	5.72	5.66	5.61	5.65	5.73	5.72	5.72	5.70
1961 - 1970	5.73	5.77			5.74	5.71	5.72	5.67	5.57	5.61	5.67	5.72	5.72	5.70	5.68
1901 - 1930					5.31	5.39	5.36	5.35	5.24	5.20	5.26			5.30	5.30
1931 - 1960					5.59	5.59	5.60	5.54	5.48	5.45	5.47	5.53	5.53	5.54	5.53
1951 - 1960	5.73	5.81			5.79	5.81	5.79	5.75	5.74	5.69	5.66	5.74	5.75	5.75	5.75
1961 - 1970	5.75	5.78			5.75	5.75	5.76	5.73	5.69	5.66	5.69	5.73	5.73	5.74	5.72

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x 0.45 has been added to the original values

Grundkallen O m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					5.98	5.86	5.68	5.74	5.81	5.79	5.89			5.80
1891 - 1900 ^x					5.96	5.76	5.63	5.74	5.86	5.78	5.77			5.77
1901 - 1910 ^x				5.75	5.89	5.60	5.60	5.61	5.75	5.70	5.61	5.71	5.67	5.67
1911 - 1920 ^x					5.15	5.12	5.11	5.09	5.00	5.03	5.10	5.12	5.10	5.13
1921 - 1930	5.29			5.33	5.31	5.32	5.09	4.90	5.09	5.14	5.34	5.08	5.20	5.17
1931 - 1940	5.32	5.33	5.34	5.30	5.30	5.14	5.09	5.04	5.09	5.16	5.18	5.25	5.21	5.14
1941 - 1950 (5 years only)					5.76	5.63	5.45	5.47	5.48	5.59	5.73	5.68	5.63	5.59
1951 - 1960	5.68	5.73		5.83	5.76	5.68	5.67	5.66	5.60	5.63	5.72	5.73	5.70	5.67
1901 - 1930					5.43	5.35	5.27	5.20	5.28	5.29	5.36	5.30	5.31	5.31
1931 - 1960					5.57	5.44	5.38	5.36	5.37	5.44	5.51	5.54	5.45	5.44
5 III														
1921 - 1930	5.32			5.35	5.38	5.39	5.03	4.94	5.12	5.21	5.33	5.12	5.24	5.19
1931 - 1940	5.33	5.33	5.37	5.30	5.32	5.19	5.13	5.08	5.10	5.17	5.20	5.25	5.22	5.17
1941 - 1950 (5 years only)					5.76	5.67	5.55	5.45	5.50	5.65	5.74	5.67	5.65	5.62
1951 - 1960	5.68	5.73		5.82	5.77	5.68	5.68	5.68	5.61	5.62	5.71	5.73	5.70	5.67
1931 - 1960					5.58	5.47	5.42	5.38	5.38	5.45	5.52	5.54	5.47	5.46

x 0.45 has been added to the original values

Grundkallen 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					6.02	5.94	5.85	5.80	5.90	5.86	5.94			5.89
1891 - 1900 ^x					5.98	5.82	5.78	5.81	5.86	5.79	5.76			5.82
1901 - 1910 ^x				5.73	5.84	5.67	5.63	5.65	5.72	5.64	5.61	5.66	5.67	5.67
1911 - 1920 ^x					5.17	5.16	5.20	5.10	5.03	5.07	5.10	5.17	5.13	5.12
1921 - 1930	5.30			5.34	5.34	5.39	5.19	5.13	5.11	5.18	5.35	5.10	5.25	5.24
1931 - 1940	5.33	5.34	5.40	5.31	5.32	5.27	5.22	5.12	5.15	5.18	5.21	5.26	5.25	5.21
1941 - 1950 (5 years only)					5.77	5.71	5.61	5.51	5.52	5.67	5.73	5.69	5.58	5.65
1951 - 1960	5.69	5.73		5.80	5.80	5.76	5.76	5.70	5.60	5.63	5.73	5.73	5.71	5.71
1901 - 1930					5.43	5.41	5.34	5.29	5.28	5.30	5.38	5.30	5.34	5.35
1931 - 1960					5.60	5.54	5.51	5.42	5.41	5.46	5.52	5.55	5.50	5.49
					15 m									
1951 - 1960	5.69	5.74		5.83	5.82	5.82	5.80	5.75	5.67	5.64	5.73	5.73	5.75	5.72

^x 0.45 has been added to the original values

Grundkallen 20 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					6.10	6.08	6.01	5.95	6.00	5.92	5.99			6.00
1891 - 1900 ^x					6.01	5.95	5.88	5.96	5.89	5.79	5.81			5.89
1901 - 1910 ^x				5.77	5.83	5.64	5.74	5.70	5.76	5.68	5.65	5.67	5.70	5.71
1911 - 1920 ^x					5.22	5.26	5.26	5.20	5.13	5.13	5.12	5.20	5.19	5.19
1921 - 1930	5.32			5.34	5.39	5.44	5.32	5.27	5.23	5.20	5.40	5.13	5.32	5.32
1931 - 1940	5.35	5.36	5.41	5.31	5.34	5.34	5.32	5.27	5.20	5.21	5.23	5.28	5.30	5.27
1941 - 1950 (5 years only)					5.79	5.76	5.76	5.68	5.60	5.68	5.74	5.70	5.73	5.72
1951 - 1960	5.70	5.75		5.82	5.84	5.84	5.80	5.79	5.70	5.67	5.75	5.74	5.76	5.77
1901 - 1930					5.46	5.45	5.44	5.39	5.38	5.34	5.40	5.33	5.40	5.41
1931 - 1960					5.62	5.61	5.59	5.55	5.48	5.49	5.55	5.57	5.57	5.55

x 0.45 has been added to the original values

Grundkallen 50 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1951 - 1960	5.73	5.77	5.91	5.87	5.92	5.84	5.85	5.82	5.77	5.83	5.81	5.82	5.81	5.81
	35 m													
1921 - 1930	5.44		5.40	5.43	5.60	5.45	5.50	5.49	5.45	5.53	5.17	5.46	5.46	5.50
1931 - 1940	5.48	5.40	5.41	5.41	5.44	5.40	5.37	5.32	5.33	5.34	5.33	5.39	5.39	5.38
	40 m													
1951 - 1960	5.88	5.90	6.06	5.98	6.08	5.97	6.05	6.03	5.94	5.99	5.97	6.00	5.98	5.98
	50 m													
1881 - 1890 ^x				6.23	6.27	6.37	6.44	6.48	6.28	6.23				6.34
1891 - 1900 ^x				6.15	6.19	6.31	6.33	6.40	6.18	6.09				6.24
1901 - 1910 ^x			5.81	5.94	5.89	5.89	6.11	6.15	5.98	5.86	5.83	5.95	5.95	5.97
1911 - 1920 ^x				5.56	5.60	5.61	5.73	5.76	5.63	5.45	5.43	5.59	5.59	5.63
1921 - 1930	5.66		5.48	5.54	5.78	5.76	5.88	5.99	5.77	5.59	5.28	5.68	5.68	5.76
1931 - 1940	5.58	5.67	5.72	5.68	5.80	5.87	5.77	5.67	5.81	5.75	5.66	5.70	5.70	5.76
1901 - 1930				5.67	5.76	5.75	5.91	5.97	5.79	5.64	5.50	5.74	5.74	5.79

^x 0.45 has been added to the original values

Svenska Björn O m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					6.56	6.35	6.09	6.06	6.22	6.57				6.35
1891 - 1900 ^x					6.28	6.06	5.69	5.74	6.00	6.17	6.30			6.03
1901 - 1910 ^x				6.29	6.07	5.88	5.62	5.58	5.72	5.81	6.04	6.23		5.82
1911 - 1920 ^x					5.82	5.59	5.64	5.50	5.54	5.84	5.92	6.03		5.69
1921 - 1930	6.11			5.99	5.80	5.67	5.46	5.36	5.49	5.82	6.01	5.92	5.78	5.67
1931 - 1940	6.05	6.09	6.06	5.98	5.76	5.51	5.39	5.33	5.57	5.75	5.87	6.04	5.78	5.60
1941 - 1950 (5 years only)		6.49				5.87	5.83	5.75	5.85	6.22		6.53	6.18	6.00
1951 - 1960	6.45	6.46		6.37	6.19	5.95	5.88	5.82	5.95	6.15		6.53	6.19	6.04
1961 - 1970	6.52	6.39		6.28	6.19	6.02	5.90	5.87	6.04	6.25	6.45	6.60	6.22	6.09
1901 - 1930					5.91	5.73	5.57	5.48	5.59	5.82	6.00	6.05		5.72
1931 - 1960		6.32				5.77	5.68	5.62	5.80	6.02		6.35	6.03	5.87
							5 m							
1921 - 1930	6.16				5.89	5.73	5.47	5.40	5.46	5.91	6.00	5.94	5.82	5.70
1931 - 1940	6.04	6.09	6.07	5.95	5.77	5.59	5.41	5.39	5.57	5.76	5.90	6.06	5.79	5.62
1941 - 1950 (5 years only)						5.90	5.83	5.78	5.79	6.24	6.58	6.54	6.19	6.04
1951 - 1960	6.47	6.50		6.42	6.20	5.96	5.90	5.82	5.95	6.15	6.40	6.54	6.20	6.06
1961 - 1970	6.55	6.47	6.14	6.13	6.20	6.06	5.93	5.89	6.08	6.25	6.45	6.62	6.22	6.23
1931 - 1960						5.81	5.70	5.65	5.79	6.02	6.26	6.36	6.04	5.89

^x 0.45 has been added to the original values

Svenska Björn 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov	
1881 - 1890 ^x					6.59	6.41	6.19	6.12	6.30	6.66				6.41	
1891 - 1900 ^x					6.34	6.10	5.79	5.84	6.09	6.32	6.39			6.12	
1901 - 1910 ^x				6.21	5.98	5.93	5.69	5.68	5.88	5.89	6.10	6.19		5.89	
1911 - 1920 ^x					5.82	5.69	5.72	5.61	5.65	5.92	5.99	6.07		5.76	
1921 - 1930	6.14			6.09	5.90	5.72	5.52	5.50	5.56	5.90	6.05	5.96	5.84	5.73	
1931 - 1940	6.05	6.10	6.09	5.97	5.82	5.67	5.60	5.48	5.58	5.78	5.92	6.09	5.84	5.69	
1941 - 1950 (5 years only)		6.53				5.94	5.95	5.85	5.91	6.25	6.60	6.51	6.22	6.07	
1951 - 1960	6.46	6.57		6.47	6.27	6.12	5.99	5.85	5.98	6.23	6.44	6.54	6.25	6.12	
1961 - 1970	6.56	6.48	6.39	6.32	6.29	6.16	6.11	5.97	6.10	6.27	6.46	6.63	6.30	6.19	
1901 - 1930					5.91	5.79	5.64	5.60	5.70	5.90	6.05	6.08		5.79	
1931 - 1960		6.38				5.91	5.84	5.71	5.82	6.06	6.29	6.37	6.09	5.95	
						15 m									
1951 - 1960	6.53	6.61		6.38	6.40	6.27	6.14	6.01	6.06	6.31	6.49	6.57	6.34	6.24	
1961 - 1970	6.58	6.52		6.38	6.43	6.32	6.31	6.23	6.22	6.33	6.48	6.65	6.40	6.33	

x 0.45 has been added to the original values

Svenska Bådan 20 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					6.65	6.57	6.36	6.39	6.46	6.74				6.56
1891 - 1900 ^x					6.42	6.23	6.01	6.16	6.41	6.47	6.48			6.31
1901 - 1910 ^x				6.22	6.03	5.99	5.89	6.00	6.06	6.02	6.10	6.26		6.02
1911 - 1920 ^x					5.98	5.89	5.97	5.84	5.93	6.06	6.11	6.09		5.93
1921 - 1930	6.20			6.22	6.08	5.91	5.84	5.83	5.92	6.05	6.09	6.07	6.02	5.96
1931 - 1940	6.10	6.15	6.22	6.11	5.94	5.88	5.84	5.80	5.81	5.88	6.01	6.14	5.99	5.88
1941 - 1950 (5 years only)		6.59				6.19	6.19	6.14	6.21	6.45	6.67	6.57	6.39	6.31
1951 - 1960	6.58	6.63		6.54	6.49	6.39	6.30	6.15	6.20	6.44	6.57	6.61	6.44	6.36
1961 - 1970	6.62	6.60	6.59	6.47	6.56	6.44	6.47	6.38	6.41	6.46	6.54	6.68	6.51	6.46
1901 - 1930					6.04	5.94	5.90	5.90	5.97	6.04	6.10	6.15		5.97
1931 - 1960	6.43					6.16	6.11	6.02	6.06	6.23	6.40	6.43	6.26	6.17

^x 0.45 has been added to the original values

Svenska Björn 30 m

	J	F	M	A	M	A	J	J	A	S	O	N	D	Year	May-Nov
1901 - 1910 ^x				6.31	6.15	6.11	6.11	6.11	6.27	6.33	6.28	6.21	6.29	6.23	6.21
1911 - 1920 ^x					6.12	6.11	6.27	6.27	6.12	6.13	6.34	6.27	6.25	6.15	6.13
1921 - 1930	6.25			6.30	6.22	6.08	6.08	6.08	6.12	6.24	6.24	6.19	6.16	6.20	6.17
1931 - 1940	6.19	6.21	6.32	6.25	6.06	6.13	6.09	6.09	6.03	6.08	6.20	6.18	6.18	6.16	6.11
1941 - 1950 (5 years only)		6.72				6.46	6.36	6.36	6.50	6.57	6.85	6.76	6.64	6.60	6.57
1951 - 1960	6.68	6.79		6.65	6.65	6.58	6.56	6.56	6.48	6.57	6.72	6.69	6.73	6.64	6.61
1961 - 1970	6.73	6.70	6.75	6.69	6.69	6.68	6.76	6.76	6.79	6.75	6.72	6.71	6.74	6.73	6.72
1901 - 1930					6.17	6.10	6.14	6.14	6.16	6.24	6.28	6.22	6.23	6.20	6.17
1931 - 1960		6.55				6.39	6.34	6.34	6.31	6.40	6.55	6.53	6.50	6.45	6.41
1961 - 1970 (5 years only)	6.85				6.84	6.84	7.07	7.07	7.05	7.04	6.97			6.92	6.95
							35 m								
1881 - 1890 (5 years only)						6.30	6.24	6.24	6.34	6.22	6.46				6.33
1951 - 1960	6.81	6.92		6.96	6.85	6.92	7.02	7.02	6.94	7.16	7.10	6.88	6.85	6.95	6.99

x 0.45 has been added to the original values

	J	F	M	A	M	J	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x					7.27	7.10	7.00	6.90	6.91	6.91	7.01	7.29			7.06
1891 - 1900 ^x					7.29	7.04	6.96	6.97	7.02	7.02	7.02	7.33			7.09
1901 - 1910 ^x				6.86	6.78	6.63	6.54	6.35	6.35	6.35	6.46	6.58	6.74		6.53
1911 - 1920 ^x (5 years only)					6.65	6.57	6.37	6.45	6.49	6.51	6.51	6.67	6.89		6.53
5 m															
1881 - 1890 ^x					7.30	7.13	6.99	6.91	6.91	6.91	7.00	7.28			7.06
1891 - 1900 ^x					7.22	7.02	6.93	6.94	7.03	6.98	6.98	7.18			7.05
1901 - 1910 ^x				6.90	6.79	6.67	6.55	6.35	6.36	6.46	6.46	6.64	6.73		6.55
1911 - 1920 ^x (5 years only)					6.61	6.49	6.43	6.43	6.43	6.51	6.51	6.67	6.89		6.51
10 m															
1881 - 1890 ^x					7.32	7.16	7.04	6.90	6.94	6.94	7.04	7.31			7.08
1891 - 1900 ^x					7.22	7.10	6.92	6.97	6.99	7.00	7.00	7.18			7.06
1901 - 1910 ^x				6.94	6.87	6.72	6.60	6.39	6.38	6.50	6.50	6.66	6.74		6.60
1911 - 1920 ^x (5 years only)					6.63	6.55	6.59	6.47	6.47	6.57	6.57	6.67	6.89		6.56
25 m															
1891 - 1900 ^x					7.27	7.27	7.35	7.42	7.31	7.31	7.03	7.19			7.27
1901 - 1910 ^x				7.03	6.97	6.95	6.78	6.58	6.61	6.66	6.66	6.73	6.74		6.74
1911 - 1920 ^x (5 years only)					6.85	6.77	6.83	6.69	6.69	6.63	6.63	6.73	6.87		6.74

Hävringe 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1951 - 1960	7.00	7.00		6.82	6.64	6.49	6.43	6.41	6.51	6.74	6.84	7.01	6.71	6.58
1961 - 1970	6.91			6.91	6.58	6.39	6.34	6.50	6.51	6.68	6.90	6.95	6.68	6.56
	5 m													
1951 - 1960	7.01	7.00		6.82	6.65	6.51	6.43	6.43	6.52	6.74	6.83	7.00	6.71	6.58
1961 - 1970	6.91			6.92	6.60	6.40	6.35	6.51	6.52	6.69	6.90	6.96	6.69	6.57
	10 m													
1951 - 1960	7.02	7.01		6.83	6.68	6.55	6.49	6.48	6.54	6.60	6.83	7.01	6.73	6.61
1961 - 1970	6.92			6.95	6.62	6.43	6.46	6.64	6.55	6.72	6.91	6.97	6.73	6.62
	15 m													
1951 - 1960	7.03	7.02		6.85	6.74	6.68	6.66	6.59	6.59	6.80	6.84	7.02	6.80	6.70
1961 - 1970	6.92			7.03	6.71	6.51	6.71	6.76	6.66	6.74	6.93	6.97	6.80	6.71
	20 m													
1951 - 1960	7.04	7.03		6.87	6.83	6.79	6.77	6.76	6.74	6.80	6.87	7.03	6.86	6.79
1961 - 1970	6.95			7.07	6.81	6.61	6.86	6.90	6.83	6.80	6.96	6.99	6.88	6.82

Hävrings 30 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1951 - 1960	7.13	7.07		6.99	6.93	7.01	6.95	6.95	7.06	6.98	6.98	7.15	7.02	6.98
1961 - 1970	6.99			7.12	6.91	6.85	7.08	7.12	7.10	7.08	7.12	7.02	7.05	7.04

40 m

1951 - 1960	7.29	7.17		7.14	7.06	7.21	7.21	7.23	7.35	7.24	7.25	7.54	7.24	7.22
1961 - 1970	7.25			7.19	7.04	7.13	7.32	7.31	7.34	7.38	7.45	7.15	7.26	7.28

Ölandsrev 0 m

	J	F	M	A	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1921 - 1930	6.96	7.24	7.04	7.09	6.98	7.11	6.96	6.82	6.85	6.83	6.78	6.70	6.95	6.90		
1931 - 1940	6.97	6.94	6.97	6.94	6.94	6.86	6.92	6.83	6.75	6.83	6.86	6.99	6.90	6.86		
1941 - 1950 (5 years only)						7.33	7.22	7.24	7.47	7.52						

5 m

1921 - 1930	6.97	7.25	7.03	7.09	7.00	7.12	6.98	6.83	6.85	6.83	6.78	6.71	6.96	6.91		
1931 - 1940	6.98	6.98	6.97	6.96	6.93	6.90	6.92	6.84	6.83	6.88	6.89	7.00	6.93	6.89		
1941 - 1950 (5 years only)						7.34	7.29	7.25	7.29	7.44						

10 m

1921 - 1930	6.97	7.25	7.04	7.08	6.98	7.13	6.99	6.85	6.87	6.84	6.79	6.71	6.96	6.92		
1931 - 1940	7.11	6.99	6.98	6.97	6.96	6.93	6.93	6.86	6.86	6.90	6.90	7.01	6.94	6.91		
1941 - 1950 (5 years only)						7.36	7.32	7.24	7.31	7.51						

Ölandsrev 20 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1921 - 1930	6.98	7.22	7.08	7.11	7.02	7.17	6.98	6.98	6.94	6.89	6.83	6.73	7.00	6.98
1931 - 1940	7.03	7.00	6.98	6.99	6.98	7.02	7.05	6.96	6.89	6.97	7.01	7.03	6.99	6.98
1941 - 1950 (5 years only)						7.43	7.43	7.41	7.42	7.60		7.59		7.48

30 m

1921 - 1930	7.19	7.31	7.08	7.12	7.04	7.21	7.09	7.16	7.16	7.07	6.90	6.74	7.11	7.09
1931 - 1940	7.09	7.06	7.03	7.05	7.02	7.08	7.12	7.07	6.96	7.09	7.17	7.17	7.08	7.08
1941 - 1950 (5 years only)						7.53	7.57	7.53	7.64	7.91		7.60		7.63

45 m

1921 - 1930	7.28	7.53	7.28	7.21	7.18	7.41	7.37	7.45	7.43	7.44	7.39	7.09	7.35	7.38
1931 - 1940	7.44	7.28	7.29	7.14	7.19	7.34	7.53	7.37	7.47	7.53	7.64	7.66	7.38	7.40

Falsterborev 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	8.79	8.68	8.73	8.12	8.08	8.38	8.33	8.55	8.50	8.64	8.61	9.08	8.54	8.44
1891 - 1900 ^x	8.64	8.78	8.24	7.89	7.75	7.96	8.18	8.30	8.49	8.48	8.47	8.75	8.31	8.23
1901 - 1910 ^x	8.55	8.50	7.94	7.67	7.54	7.74	8.02	8.26	8.10	7.93	8.19	8.29	8.06	7.97
1911 - 1920 ^x (5 years only)	8.53	8.44	8.52	7.98	7.90	8.03	8.23	8.27	8.22		8.74	8.90	8.32	8.20
1921 - 1930	8.50	7.97	7.98	7.59	7.60	7.74	8.07	8.04	8.08	8.17	8.31	8.10	8.02	8.00
1931 - 1940	8.05	8.14	7.67	7.48	7.34	7.37	7.73	7.91	7.72	8.51	8.31	8.17	7.86	7.82
1951 - 1960	8.61	8.39	7.93	7.82	7.81	7.78	8.10	8.08	8.40	8.40	8.25	8.90	8.16	8.18
1961 - 1970	8.40	8.27	8.12	7.93	7.69	7.76	8.04	8.12	8.26	8.42	9.09	8.84	8.23	8.18
1901 - 1930	8.53	8.30	8.08	7.71	7.64	7.84	8.08	8.17	8.12		8.35	8.34	8.10	8.03
1931 - 1940	8.36	8.27	7.90	7.75	7.62	7.65	7.97	8.04	8.16	8.44	8.57	8.67	8.12	8.06
1951 - 1970														
						2.5 m								
1881 - 1890 ^x	8.79	8.68	8.73	8.12	8.12	8.37	8.36	8.57	8.51	8.65	8.61	9.00	8.55	8.46
1891 - 1900 ^x	8.66	8.81	8.24	7.90	7.76	7.97	8.16	8.31	8.51	8.50	8.50	8.80	8.32	8.24
1901 - 1910 ^x	8.55	8.56	7.99	7.72	7.57	7.77	8.02	8.27	8.14	7.96	8.98	8.35	8.10	7.99
1911 - 1920 ^x (5 years only)	8.60	8.46	8.54	7.98	7.93	8.01	8.24	8.27	8.22		8.84	8.98	8.35	8.21
1921 - 1930	8.55	7.86	7.98	7.63	7.61	7.73	8.11	8.06	8.12	8.19	8.32	8.17	8.04	8.02
1931 - 1940	8.07	8.13	7.68	7.49	7.34	7.38	7.78	7.93	7.76	8.53	8.31	8.18	7.85	7.84
1901 - 1930	8.56	8.29	8.14	7.74	7.66	7.80	8.10	8.19	8.13		8.40	8.40	8.12	8.05

x 0.45 has been added to the original values

Falsterborev 5 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	8.85	8.71	8.78	8.12	8.14	8.38	8.45	8.58	8.54	8.69	8.66	9.11	8.58	8.49
1891 - 1900 ^x	8.74	8.85	8.29	7.94	7.78	7.98	8.31	8.36	8.57	8.52	8.52	8.87	8.31	8.29
1901 - 1910 ^x	8.58	8.62	8.02	7.77	7.63	7.81	8.08	8.26	8.16	7.99	8.24	8.43	8.14	8.03
1911 - 1920 ^x (5 years only)	8.61	8.50	8.55	7.99	7.94	8.08	8.25	8.32	8.22		8.93	9.03	8.37	8.24
1921 - 1930	8.56	8.03	7.99	7.62	7.62	7.76	8.14	8.10	8.13	8.23	8.35	8.16	8.07	8.05
1931 - 1940	8.09	8.15	7.70	7.47	7.36	7.39	7.87	7.97	7.82	8.63	8.32	8.19	7.90	7.89
1951 - 1960	8.79	8.40	7.94	7.85	7.82	7.79	8.14	8.19	8.47	8.45	8.27	8.92	8.27	8.16
1961 - 1970	8.42	8.32	8.14	7.95	7.71	7.82	8.07	8.16	8.30	8.47	9.11	8.88	8.28	8.24
1901 - 1930	8.58	8.39	8.13	7.77	7.69	7.84	8.14	8.21	8.16		8.42	8.44	8.15	8.08
1931 - 1940	8.44	8.37	7.92	7.77	7.64	7.67	8.03	8.11	8.22	8.51	8.58	8.71	8.16	8.11
1951 - 1970														

x 0.45 has been added to the original values

Falsterborev 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May--Nov
1881 - 1890 ^x	8.89	8.79	8.82	8.16	8.20	8.48	8.54	8.70	8.61	8.78	8.75	9.15	8.65	8.58
1891 - 1900 ^x	8.80	8.90	8.33	8.00	7.90	7.99	8.38	8.36	8.63	8.51	8.61	8.93	8.42	8.32
1901 - 1910 ^x	8.62	8.66	8.05	7.80	7.64	7.86	8.10	8.46	8.22	8.02	8.30	8.46	8.18	8.09
1911 - 1920 ^x (5 years only)	8.67	8.53	8.64	8.02	7.99	8.10	8.32	8.35	8.26		9.05	9.49	8.43	8.32
1921 - 1930	8.65	8.15	8.00	7.64	7.65	7.82	8.28	8.17	8.30	8.37	8.39	8.25	8.15	8.14
1931 - 1940	8.18	8.29	7.74	7.59	7.37	7.46	7.96	8.08	8.01	8.88	8.37	8.28	8.01	7.99
1951 - 1960	9.06	8.46	7.99	7.91	7.87	7.81	8.28	8.39	8.62	8.51	8.33	9.04	8.37	8.26
1961 - 1970	8.46	8.43	8.30	8.01	7.73	7.84	8.16	8.23	8.42	8.59	9.25	9.02	8.36	8.32
1901 - 1930	8.64	8.45	8.17	7.79	7.71	7.89	8.21	8.32	8.26		8.48	8.52	8.22	8.15
1931 - 1940	8.58	8.39	8.00	7.84	7.67	7.71	8.14	8.24	8.37	8.65	8.67	8.82	8.26	8.21

x 0.45 has been added to the original values

Oscarsgrundet 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	13.07	11.84	12.70	9.84	9.77	10.01	10.31	10.48	10.16	11.73	12.51	13.09	11.22	10.71
1891 - 1900 ^x	12.95	12.22	10.91	9.81	9.22	9.46	10.01	9.82	11.32	10.65	11.69	13.38	10.88	10.31
1901 - 1910 ^x	12.83	11.31	10.11	10.04	8.86	9.10	9.65	10.57	9.65	9.91	12.43	11.69	10.51	10.02
1921 - 1930	13.02	11.19	9.81	8.47	8.41	9.57	9.97	9.53	10.19	11.68	11.13	9.81	10.21	10.11
1931 - 1940	9.87	12.49	9.46	9.90	8.48	9.35	9.46	9.90	10.43	11.58	10.32	12.68	10.32	9.93
1951 - 1960	13.47	10.64	8.70	10.86	8.72	9.34	10.27	9.97	10.27	10.75	10.26	12.53	10.55	9.94

2.5 m

1881 - 1890 ^x	13.43	12.81	13.23	10.46	10.33	10.15	10.68	10.61	10.46	12.15	13.59	13.63	11.70	11.14
1891 - 1900 ^x	13.19	12.51	11.30	10.26	9.54	9.75	10.14	10.01	11.71	11.35	12.67	13.94	11.30	10.74
1901 - 1910 ^x	13.36	11.53	10.41	10.45	9.11	9.27	9.78	10.68	9.70	10.64	13.27	11.72	10.88	10.35
1921 - 1930	13.77	10.20	10.46	10.32	8.61	9.99	10.17	9.45	10.23	11.82	11.92	11.25	10.69	10.33
1931 - 1940	10.23	12.64	9.50	10.15	8.50	9.69	10.18	10.00	10.98	11.62	10.38	13.18	10.59	10.19
1951 - 1960	13.68	10.93	10.03	11.36	9.09	9.94	10.79	10.06	11.07	12.38	11.11	13.90	11.13	10.61

x 0.45 has been added to the original values

Oscarsgrundet 5 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	15.18	14.54	14.52	11.69	12.12	10.88	11.19	11.06	11.41	13.26	15.84	14.70	12.91	12.25
1891 - 1900 ^x	14.86	14.08	11.94	11.09	10.61	10.40	10.80	10.39	12.59	12.49	13.88	15.29	12.27	11.60
1901 - 1910 ^x	15.12	12.06	11.49	11.73	9.86	9.97	10.15	11.11	10.32	12.77	14.94	13.79	11.96	11.30
1921 - 1930	14.42	11.79	13.32	12.37	9.74	10.25	10.51	10.11	11.41	12.11	12.14	11.78	11.53	10.83
1931 - 1940	11.11	13.75	10.83	12.04	9.06	9.95	10.63	10.50	11.73	12.36	10.79	13.54	11.40	10.75
1951 - 1960	15.07	11.69	12.73	12.40	10.35	11.33	11.40	10.71	12.65	14.34	13.57	14.89	12.60	12.04

8 m

1921 - 1930	15.26	13.28	15.65	14.17	10.48	12.11	11.04	10.73	11.89	13.13	15.29	12.54	12.75	12.12
1931 - 1940	12.74	14.46	11.97	12.57	10.08	10.86	11.62	11.30	12.17	13.51	12.86	14.36	12.38	11.77
1951 - 1960	15.61	13.37	13.14	13.16	10.75	14.05	11.67	11.39	13.34	15.21	13.82	15.22	13.40	12.88

10 m

1881 - 1890 ^x	16.28	15.74	15.73	12.82	14.38	12.02	12.26	11.72	12.86	14.40	16.96	15.41	14.09	12.51
1891 - 1900 ^x	15.76	13.87	12.44	11.68	11.61	11.25	11.53	11.16	13.40	13.63	14.68	16.19	13.03	12.47
1901 - 1910 ^x	16.55	12.68	12.44	12.90	10.86	11.59	10.48	11.52	10.48	14.25	16.41	15.29	12.98	12.23

x 0.45 has been added to the original values

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	12.14	11.28	11.63	9.38	9.59	9.78	10.14	10.32	9.94	11.33	11.91	12.31	10.77	10.43
1891 - 1900 ^x	12.09	11.29	10.43	9.43	8.81	9.34	9.66	9.55	11.00	10.26	11.18	13.00	10.44	9.97
1901 - 1910 ^x	12.61	11.18	9.76	9.86	8.83	9.04	9.71	10.61	9.32	10.28	12.53	11.54	10.44	10.05
1911 - 1920 ^x (5 years only)	10.78	11.15		9.97	8.70	9.16	9.09	9.91	9.98	9.89	12.10		10.19	9.71
2.5 m														
1881 - 1890 ^x	12.91	12.12	12.25	9.78	10.07	9.93	10.32	10.40	10.21	11.81	12.78	12.84	11.22	10.79
1891 - 1900 ^x	12.49	11.88	10.65	9.65	9.00	9.33	9.83	9.71	11.28	11.73	11.89	13.47	10.76	10.25
1901 - 1910 ^x	13.47	11.53	10.35	10.32	9.12	9.20	9.72	10.80	9.67	10.83	13.21	11.92	10.85	10.37
1911 - 1920 ^x (5 years only)	11.42	11.76		10.31	8.89	9.31	9.21	10.13	10.28	10.67	12.75		10.66	10.03
5 m														
1881 - 1890 ^x	15.41	14.39	14.13	11.31	12.14	10.50	11.02	10.82	11.21	13.20	15.21	14.43	12.70	12.01
1891 - 1900 ^x	14.48	12.91	11.61	10.67	9.90	10.05	10.40	10.20	12.24	12.29	13.62	15.39	11.90	11.24
1901 - 1910 ^x	15.73	12.36	11.17	11.92	9.89	9.97	10.13	11.18	10.62	13.08	15.28	14.03	12.20	11.45
1911 - 1920 ^x (5 years only)	13.35	13.61		11.41	9.33	9.77	9.76	10.87	11.29	12.92	16.50		11.96	11.18
7.5 m														
1881 - 1890 ^x	17.83	16.72	16.02	13.95	15.73	12.80	13.50	12.93	13.79	15.54	18.14	16.86	15.21	14.63
1891 - 1900 ^x	17.56	12.26	13.55	12.57	12.32	11.97	12.30	12.53	15.04	15.41	17.26	17.37	14.26	14.09
1901 - 1910 ^x	18.88	14.25	14.67	14.62	12.19	12.32	11.80	12.99	12.07	17.22	19.23	18.12	14.79	13.97
1911 - 1920 ^x (5 years only)	15.22	16.47		13.68	10.66	11.27	11.87	12.56	13.35	16.24	19.96		14.30	13.45

x 0.45 has been added to the original values

Svinbådan 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	16.76	15.29	16.92	13.55	13.97	14.12	14.66	14.58	14.35	16.04	16.65	17.01	15.24	14.91
1891 - 1900 ^x	16.76	16.88	15.03	13.12	12.63	12.86	13.14	13.67	15.90	15.10	15.60	17.39	14.76	14.13
1901 - 1910 ^x	17.38	16.12	13.31	13.23	12.25	12.46	12.85	14.49	13.15	14.17	16.68	15.96	14.34	13.72
1911 - 1920 ^x (6 years only)	16.09	16.33	14.98	13.84	11.74	12.41	12.20	13.76	14.34	14.69	16.90	17.22	14.42	13.71
1921 - 1930	16.34	13.37	13.41	13.59	12.26	13.84	12.84	13.34	14.10	15.24	15.38	15.01	13.92	13.86
1931 - 1940	16.66	16.56	13.86	13.03	11.50	13.38	13.44	12.55	13.51	15.87	14.82	15.89	14.15	13.63
1951 - 1960	16.14	14.75	13.81	13.53	12.52	13.02	14.01	13.61	14.99	15.32	14.90	17.04	14.43	14.02
1901 - 1930	16.72	15.34	13.76	13.51	12.14	12.98	12.70	13.88	13.79	14.70	16.20	15.83	14.18	13.77

Svinbådan 5 m

1881 - 1890 ^x	18.72	17.96	18.88	16.63	16.38	16.06	15.95	16.12	15.67	17.98	18.60	19.09	17.19	16.68
1891 - 1900 ^x	18.91	18.15	17.28	15.29	14.63	14.57	14.23	14.89	17.03	17.05	18.12	18.79	16.50	15.79
1901 - 1910 ^x	18.27	18.38	15.77	16.04	14.63	14.56	14.84	15.56	15.12	15.83	19.10	19.17	16.44	15.66
1911 - 1920 ^x (6 years only)	18.22	18.68	17.82	15.85	13.70	13.92	13.56	15.21	15.63	17.04	19.28	19.51	16.39	15.47
1921 - 1930	18.31	16.39	16.59	17.07	14.55	15.37	14.65	14.58	15.71	16.85	16.98	17.30	15.87	15.53
1931 - 1940	19.02	19.03	16.43	16.22	15.22	15.13	14.99	14.50	15.69	17.59	16.96	18.03	16.62	15.81
1951 - 1960	17.76	16.93	17.75	16.23	14.92	14.58	15.28	15.00	15.90	16.96	16.69	18.68	16.33	15.60
1901 - 1930	18.28	17.85	16.56	16.39	14.39	14.72	14.47	15.10	15.47	16.48	18.29	18.49	16.21	15.57

x 0.45 has been added to the original values

Svinbådan 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1881 - 1890 ^x	23.76	25.51	24.72	23.12	23.29	20.74	19.40	19.63	21.20	23.98	24.02	24.61	22.58	21.75
1891 - 1900 ^x	24.25	23.08	23.22	21.61	20.64	18.79	18.34	18.67	20.12	22.36	24.74	24.04	21.46	20.52
1901 - 1910 ^x	23.90	23.57	24.45	24.00	22.38	21.28	19.07	18.86	20.67	22.89	25.04	26.05	22.68	21.46
1911 - 1920 ^x (6 years only)	23.83	24.05	24.41	21.26	19.83	18.75	17.46	19.15	20.15	24.01	25.07	26.85	21.86	20.74
1921 - 1930	23.80	23.58	24.26	23.21	22.50	19.66	19.15	18.57	20.26	21.32	22.50	23.06	21.64	20.57
1931 - 1940	25.61	24.94	23.56	24.50	23.10	19.58	19.13	19.56	20.56	22.58	23.62	23.68	22.57	21.20
1951 - 1960	21.96	22.31	24.54	22.18	19.92	18.47	17.77	18.25	19.33	21.51	21.96	23.01	20.83	19.56
1901 - 1930	23.85	23.70	24.38	23.06	21.84	20.07	18.73	18.81	20.39	22.49	24.03	25.01	22.09	20.95
15 m (1923 - 1960 14 m)														
1881 - 1890 ^x	27.85	29.06	27.77	28.91	30.25	28.17	27.10	25.01	27.32	28.09	29.11	27.85	28.01	27.87
1891 - 1900 ^x	28.03	26.63	26.76	27.75	28.83	28.06	26.56	26.21	25.26	26.95	28.94	27.59	27.26	27.25
1901 - 1910 ^x	28.54	27.78	29.08	30.14	30.73	29.68	27.38	24.64	25.41	29.22	29.45	29.77	28.49	28.07
1911 - 1920 ^x (6 years only)	27.84	27.77	28.61	27.68	28.95	27.59	28.49	26.41	26.66	29.36	29.48	30.21	28.23	28.30
1921 - 1930	27.70	27.34	29.15	29.31	29.84	25.70	23.75	25.28	24.48	25.96	26.52	27.14	26.52	25.93
1931 - 1940	29.02	27.88	27.58	28.90	29.51	28.64	26.56	26.00	26.38	26.89	28.99	27.83	27.85	27.55
1951 - 1960	25.43	26.00	28.13	27.33	24.89	23.99	21.47	22.26	22.84	25.01	26.63	26.60	24.95	23.83
1901 - 1930	28.08	27.65	28.98	29.25	29.98	27.67	26.24	25.30	25.34	27.94	28.28	28.81	27.67	27.30

^x 0.45 has been added to the original values

Fladen 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1891 - 1900 ^x	25.35	27.37	25.90	24.65	25.06	27.11	25.75	23.78	26.40	25.30	25.19	26.35	25.70	25.55
1901 - 1910 ^x	27.21	26.70	24.87	25.63	26.01	26.07	26.26	26.31	24.63	23.49	25.11	26.51	25.75	25.42
1911 - 1920 ^x (5-6 years)	26.04	25.97	25.56	25.11	23.65	25.71	26.73	25.52	25.69	24.69	25.47	26.14	25.48	25.35
1921 - 1930	26.52	24.90	24.19	25.72	25.65	26.40	25.65	24.43	24.23	25.67	24.71	24.60	25.08	25.18
1931 - 1940	26.32	27.31	26.03	24.18	25.48	25.43	26.09	24.71	24.64	26.28	25.40	26.02	25.66	25.43
1951 - 1960	26.36	25.38	26.48	27.29	26.80	26.10	26.61	25.16	25.90	25.96	24.30	26.92	26.10	25.93
1961 - 1970	25.95	26.58	25.97	25.98	24.94	26.06	26.69	24.97	24.89	25.04	25.44	26.26	25.74	25.48
1901 - 1930	26.68	26.01	24.87	25.53	25.31	26.10	26.13	25.42	24.72	24.56	25.04	25.72	25.43	25.31
1931 - 1940	26.22	26.50	26.14	25.87	25.78	25.87	26.47	24.95	25.17	25.77	25.00	26.43	25.84	25.63

15 m

1951 - 1960	29.01	28.84	30.70	32.42	31.26	30.89	29.98	29.19	29.42	28.98	28.38	28.87	29.85	29.74
1961 - 1970	28.78	29.00	29.88	31.02	31.69	31.90	29.88	29.10	28.74	28.15	29.07	29.42	29.78	29.79

x 0.45 has been added to the original values

Fladen 20 m

	J	F	M	A	M	A	J	J	J	A	S	O	N	D	Year	May-Nov
1891 - 1900 ^x	30.21	30.77	30.97	32.75	33.03	33.03	33.03	31.80	30.76	30.95	29.48	29.99	30.06	31.00	30.68	
1901 - 1910 ^x	30.12	30.53	30.65	32.12	32.82	33.07	32.31	30.83	29.77	31.43	31.25	30.18	31.64	31.16	31.64	
1911 - 1920 ^x (5-6 years)	28.70	30.49	30.31	31.26	31.50	32.58	31.90	31.51	31.25	30.97	30.76	29.74	30.96	31.52	31.52	
1921 - 1930	30.20	30.36	32.11	33.19	33.16	32.12	31.24	31.35	30.65	30.43	30.00	30.85	31.15	31.16	31.16	
1931 - 1940	30.60	31.10	31.81	32.52	33.12	32.70	32.09	31.29	31.21	31.20	30.33	30.64	31.55	31.77	31.77	
1951 - 1960	31.03	31.10	32.32	33.49	32.75	32.47	31.78	31.24	31.27	31.28	30.69	30.75	31.66	31.65	31.65	
1961 - 1970	31.47	31.16	31.69	32.64	33.20	32.93	31.29	31.51	31.33	30.96	30.71	31.35	31.74	31.73	31.73	
1901 - 1930	29.84	30.47	30.97	32.29	32.63	32.61	31.80	31.17	30.45	30.96	30.68	30.34	31.15	31.43	31.43	
1931 - 1940	31.02	31.12	31.92	32.91	33.02	32.69	31.72	31.34	31.27	31.15	30.57	30.89	31.65	31.69	31.69	

^x 0.45 has been added to the original values

Vinga 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	24.80	25.48	23.23	21.96	19.28	19.78	21.44	21.16	22.84	24.80	24.54	24.05	22.80	22.02
1951 - 1960	25.19	24.07	21.72	21.88	20.90	20.98	22.00	22.45	23.66	23.97	23.81	25.84	23.04	22.54
1961 - 1970 (66-68 V. Västra)	25.18	25.35	21.92	19.69	19.60	19.72	21.49	21.99	23.13	22.64	23.35	23.99	21.94	21.65

5 m

1931 - 1940	25.37	26.06	24.31	22.97	20.08	21.18	22.97	22.31	23.80	25.43	25.06	24.54	23.69	23.01
1951 - 1960	26.11	24.78	22.71	23.16	22.54	22.24	23.66	23.54	24.77	24.72	24.63	26.54	24.12	23.73
1961 - 1970 (66-68 V. Västra)	25.87	26.20	22.87	20.82	20.91	20.89	22.87	22.98	23.77	23.52	23.89	24.79	22.90	22.88

10 m

1931 - 1940	26.87	27.52	26.66	25.64	24.00	25.10	25.76	24.90	26.19	27.58	26.57	26.00	26.08	25.74
1951 - 1960	27.47	26.15	25.71	26.50	25.97	25.33	26.74	25.80	27.03	26.67	26.05	27.59	26.44	26.23
1961 - 1970 (66-68 V. Västra)	27.00	27.79	24.93	23.64	23.25	24.64	25.90	25.38	25.44	25.57	25.77	26.34	25.20	25.33

15 m

1951 - 1960	25.65	28.41	28.92	30.20	29.95	29.66	29.61	28.58	29.06	28.94	27.69	28.97	29.09	29.09
1961 - 1970 (66-68 V. Västra)	28.37	29.39	28.14	28.50	27.21	29.02	28.54	27.93	27.67	26.96	27.67	28.08	27.93	28.09

Vinga 20 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	30.50	30.78	31.18	32.37	32.69	32.49	31.72	31.10	30.96	30.54	29.88	30.16	31.21	31.34
1951 - 1960	30.97	30.87	31.65	33.05	32.57	32.34	31.69	31.07	31.03	31.01	29.90	30.62	31.40	31.37
1961 - 1970 (66-68 V. Västra)	30.27	30.90	31.58	31.60	31.95	32.13	30.78	30.81	30.33	29.54	30.25	30.58	30.85	30.94

30 m

1931 - 1940	32.67	32.63	33.56	33.79	33.99	33.68	33.10	32.92	32.76	32.54	32.63	32.68	33.09	33.09
1951 - 1960	33.05	33.43	33.68	34.17	33.98	33.63	33.23	33.00	32.96	32.87	32.89	32.99	33.31	33.22
1961 - 1970 (66-68 V. Västra)	32.72	32.66	33.84	33.13	33.62	33.42	32.40	32.62	32.56	32.71	32.92	32.94	32.89	32.97

40 m

1931 - 1940	33.72	33.66	34.33	34.21	34.33	33.99	33.77	33.53	33.52	33.50	33.97	33.75	33.87	33.80
1951 - 1960	33.90	34.21	34.17	34.44	34.34	33.99	33.68	33.52	33.51	33.71	33.99	33.85	33.93	33.82
1961 - 1970 (66-68 V. Västra)	33.68	33.51	34.37	33.97	34.17	33.94	33.13	33.27	33.41	33.72	33.94	33.93	33.69	33.70

Bornö 0 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	20.38	24.19	23.00	20.68	23.03	22.80	22.08	23.30	25.79	25.36	24.32	23.55	22.80	23.08
1941 - 1950	24.48	21.43	21.58	18.96	23.00	22.39	23.08	21.57	22.06	23.32	23.57	21.57	22.55	22.83
1951 - 1960	22.98	21.19	20.03	19.12	21.08	22.09	22.30	22.12	23.18	25.18	20.77	22.79	21.92	22.39
1961 - 1970	12.25	12.06	11.58	14.72	19.14	20.89	22.47	20.92	21.84	20.56	19.70	17.46	17.80	20.83
1931 - 1960	22.72	22.14	21.47	19.59	22.32	22.39	22.45	22.36	23.60	24.62	22.80	22.55	22.40	22.74

Bornö 2.5 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1961 - 1970	26.19	26.37	23.73	22.04	21.32	21.74	23.41	23.11	24.13	23.65	24.86	25.48	23.79	23.18

Bornö 5 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	27.09	28.15	28.44	25.32	24.49	23.85	24.91	25.06	26.58	27.20	26.61	27.15	26.23	25.79
1941 - 1950	28.07	27.04	26.30	25.36	24.72	23.89	25.19	23.98	25.19	26.85	27.16	27.51	26.02	25.30
1951 - 1960	27.96	26.87	24.94	24.87	24.65	23.71	24.59	24.56	25.81	27.16	26.08	27.96	25.75	25.14
1961 - 1970	26.95	27.42	25.51	23.91	23.14	22.80	24.42	23.78	25.08	25.00	26.21	26.58	25.07	24.35
1931 - 1960	27.74	27.34	26.43	25.17	24.63	23.81	24.90	24.53	25.86	27.07	26.60	27.55	25.99	25.40

Bornö 10 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	28.52	29.36	29.64	27.65	27.42	26.85	26.92	26.93	27.98	28.57	27.82	28.73	27.93	27.49
1941 - 1950	29.10	28.73	28.83	27.60	26.89	26.49	27.31	26.40	27.18	28.32	28.43	28.83	27.93	27.26
1951 - 1960	29.36	28.25	27.25	27.76	27.30	26.04	27.00	26.46	27.76	28.52	27.78	29.41	27.73	27.26
1961 - 1970	28.36	28.98	27.58	26.76	26.03	25.80	26.90	26.17	26.99	26.89	28.03	28.11	27.22	26.69
1931 - 1960	28.98	28.76	28.50	27.67	27.19	26.43	27.08	26.57	27.61	28.47	28.00	28.99	27.83	27.34

Bornö 15 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	30.11	30.51	30.57	29.75	30.30	29.45	28.81	29.11	29.50	29.73	28.97	29.87	29.66	29.39
1941 - 1950	29.95	30.47	30.36	29.71	29.49	29.32	29.54	28.50	29.04	29.74	29.36	29.97	29.63	29.28
1951 - 1960	30.42	29.50	29.48	30.55	29.84	29.01	29.34	28.67	29.31	29.58	28.99	30.22	29.58	29.28
1961 - 1970	29.74	30.32	29.54	29.37	28.89	28.91	28.94	28.83	28.71	28.48	29.56	29.54	29.24	28.90
1931 - 1960	30.16	30.15	30.11	30.02	29.87	29.24	29.23	28.76	29.37	29.68	29.11	30.03	29.62	29.32

Bornó 20 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	31.07	31.40	31.50	31.59	32.18	31.53	30.38	30.47	30.50	30.85	30.32	31.00	31.02	31.01
1941 - 1950	30.90	31.85	31.70	31.37	31.45	31.09	30.80	30.34	30.47	31.01	30.64	31.11	31.06	30.83
1951 - 1960	31.31	30.76	31.60	32.42	31.62	30.91	30.54	30.34	30.47	30.80	30.43	31.16	31.03	30.73
1961 - 1970	31.05	31.65	31.55	31.60	31.36	30.92	30.29	30.39	30.17	29.96	30.81	31.00	30.89	30.56
1931 - 1960	31.10	31.34	31.61	31.80	31.75	31.15	30.57	30.38	30.48	30.89	30.46	31.09	31.04	30.86

Bornó 25 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	32.06	32.07	32.42	32.87	32.89	32.52	31.37	31.16	31.40	31.67	31.64	31.68	31.95	31.76
1941 - 1950	31.90	32.70	32.68	32.56	32.58	32.07	31.44	31.19	31.63	31.93	31.90	32.09	32.06	31.82
1951 - 1960	32.20	31.85	32.87	33.26	32.50	31.80	31.30	31.28	31.57	31.84	31.46	31.94	31.99	31.68
1961 - 1970	32.37	32.60	32.74	32.77	32.54	31.87	31.09	31.24	31.30	31.16	31.82	32.00	31.96	31.58
1931 - 1960	32.06	32.21	32.67	32.90	32.65	32.10	31.37	31.21	31.53	31.82	31.66	31.92	32.00	31.75

Bornö 30 m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	32.74	32.64	33.14	33.45	33.25	32.92	31.91	31.55	31.82	32.26	32.49	32.37	32.52	32.27
1941 - 1950	32.73	33.21	33.32	33.10	33.09	32.51	31.90	31.79	32.11	32.46	32.62	32.85	32.64	32.35
1951 - 1960	32.87	32.76	33.51	33.64	33.05	32.41	31.85	31.74	32.15	32.42	32.51	32.74	32.64	32.30
1931 - 1960	32.80	32.88	33.34	33.39	33.12	32.59	31.89	31.69	32.06	32.39	32.54	32.64	32.60	32.31

Bornö 33 (34) m

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
1931 - 1940	33.42	33.11	33.27	33.55	33.42	33.22	32.33	31.85	32.00	32.67	33.05	32.70	32.85	32.60
1941 - 1950	33.11	33.49	33.57	33.38	33.30	32.77	32.15	32.07	32.30	32.60	33.09	33.19	32.92	32.61
1951 - 1960	33.19	33.21	33.74	33.81	33.35	32.69	32.11	31.94	32.36	32.69	32.90	33.07	32.92	32.58
1961 - 1970	33.47	33.55	33.60	33.60	33.29	32.75	31.79	31.88	32.12	32.39	32.75	33.09	32.86	32.42
1931 - 1960	33.21	33.29	33.57	33.58	33.35	32.84	32.19	31.96	32.23	32.65	33.01	33.01	32.90	32.59

Grisbåderna 1921 - 1930 (1923 - 1929)

	J	F	M	A	M	J	J	A	S	O	N	D	Year	May-Nov
0 III	28.85	28.01	26.21	24.81	23.12	23.18	23.58	24.02	25.55	27.48	27.44	28.37	25.87	24.92
5 III	29.10	28.62	27.17	26.03	24.98	26.19	26.55	26.27	27.25	28.31	27.91	28.93	27.28	26.77
10 III	29.95	29.76	28.91	28.74	27.66	28.94	28.91	28.29	29.21	29.56	28.99	29.91	29.07	28.79
20 III	31.30	31.27	31.46	32.60	32.34	31.88	31.01	31.09	31.16	31.53	31.21	31.47	31.49	31.43
30 III	32.72	32.32	32.99	33.62	33.41	33.05	32.24	32.25	32.23	32.63	32.64	32.86	32.70	32.60
40 III	33.42	32.96	33.75	34.02	33.78	33.40	33.02	32.95	32.96	33.24	33.45	33.68	33.35	33.22

