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GÖTEBORGS UNIVERSITET

25 FEB. 1971

Ödsnä i Kville sn, Bohuslän

Hällristning
Fiskare från
bronsåldern

Rock carving
Bronze age
fishermen



**MEDDELANDE från
HAVSFISKELABORATORIET • LYSEKIL**

nr
99

Hydrografiska avdelningen, Göteborg

Storage of Oceanographic Observations at
Light-vessels and Coastal Stations in the
Baltic and the Transition Area.

by

Artur Svansson

January 1971

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This is a short compilation of all the oceanographical observations at light-vessels and coastal stations which were and are still being carried out in the Baltic and its transition to the sea. The Tables 1 - 10 present 1) The name of the light-vessel or coastal station. Only Finnish coastal stations and Bornö (Sweden) have been included. (Danish station e.g. from which only surface observations are reported are therefore excluded). 2) Observing period. For Swedish and Finnish stations the periods are given in years only. For Danish stations further data are presented but still not the periods when the light-vessels were in harbor due to ice. 3) The national punch cards or mag. tape and WDC-A mag. tape. While most results are published, they are usually punched or put on mag. tape only in part. WDC-A have some data in their files, information of which appears in the last column. A copy of the mag. tapes with data from our region has very kindly been sent to the Fishery Board of Sweden.

The maps presented as Fig:s 1 - 5 shows positions of nearly all the stations of the tables. (The maps include some information irrelevant to this paper, e.g. sections for water level computations, and water level stations.)

A few references to publications presenting the mean values are given below. The Danish publication of 1933 contains data for the period between approximately 1903 and 1930, while the mean values for the period 1931 - 1960 can be found in recent ordinary publications.

Acknowledgement.

The information in this paper was kindly checked by D. Kohnke, Deutsches Ozeanographisches Datenzentrum, Hamburg and H. Thomsen, Meteorological Institute, Copenhagen.

References.

- Anon., 1933: Mean values of observations from Danish light-vessels.
Special print of the Nautical - Meteorological Annual 1932.
- Granquist, G., 1938: Zur Kenntnis der Temperatur und des Salzgehaltes des
Baltischen Meeres an den Küsten Finnlands.
Havsforskningsinstitutet, skrift n:o 122.
- Koczy, F.F., 1955: Monthly average values of hydrographical observations on
Swedish lightships 1923 - 1952.

Legends to the Maps.

- ⊕ Lightship
 - Coastal station
 - + Open sea station
- FB = Femarn Belt
- R = River
- Water level station

Table 1.

Danish Light-vessels

Published by Det Danske Meteorologiske Institut, Charlottenlund,
 1897 - 1898: Observations Météorologiques - Nautiques
 1899 - 1961: Nautical - Meteorological Annual
 1962 - Oceanographical observations from Danish Light-vessels and coastal
 stations (551.46. 062. 5/8)

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Skagens Rev	1897 - May 1940, Sept. 1945 -	1931 - 1960 1962 -	
Östre Flak	Aug. 1908 - May 1940, Aug. 1942 - Oct. 1942		
Ålborg Bugt	May 1943 - Nov. 1943, Sept. 1945 -	1931 - 1960 1962 -	
Iaesö - Trindel	1897 - May 1940, Aug. 1942 - April 1943 April 1943 - April 1945 Sept. 1945 -	1931 - 1960 1962 -	1931 - 1960 1962 -
Iaesö - Trindel (Position slightly changed)			
Iaesö Nord			

Table 2.

Danish Light-vessels

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Anholt - Knob	1897 - April 1945	1931 - 1960	
Anholt Nord	Aug. 1945 -	1962 -	
Schultz's - Grund	1897 - Sept. 1944	1931 - 1960	
Kattegat SW	Sept. 1945 -	1962 -	
Lappegrund	1897 - June 1969	1931 - 1960 1962 - 1969	
Gedser Rev	1897 - 1915, 1920 - Oct. 1939, Sept. 1945 -	1931 - 1960 1962 -	
Halskov Rev	July 1921 - April 1945, July 1946 -	1931 - 1960 1962 -	
Kattegat S	March 1966 -	1966 -	

Table 3.

Danish Light-vessels

Station	Observing Period	National Punchcards or Mag. tape	WDC-A
Læsø Rende	1897 - May 1940, July 1942 - Oct. 1942	1931 - 1960	Mag. tape
Læsø Rende (Position slightly changed)	May 1943 - 1965	1962 - 1965	
Drogden	1897 - June 1937	1931 - 1960	
Drogden Lighthouse	June 1937 - Dec. 1944, May 1945 -	1962 -	
Kobbergrund	1897 - May 1908		
Langelandsbaelt	Nov. 1940 - Dec. 1942		
Storebaelt	Nov. 1940 - Dec. 1944		
Samsø Baelt	Nov. 1940 - Dec. 1942		

Table 4.

Estonian Light-vessels

Published by Tartu Ulikooli Veeekogude Uurimise Komissjoni, Välijanne nr:o 12, Dorpat 1930.

Station	Observing Period	National Punchcards Or Mag. tape	WDC-A Mag. tape
Revalstein	July 1923 - 1928		
Nekmanngrund	July 1923 - 1928		

Table 5.

Finnish Light-vessels

Published in - 1913: Finl. Hydrogr. - Biol. Untersuchungen.
 1914 - : Havsforskningsinstitutet, Helsingfors (Skrifter).

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Kemi (Plevna)	1900-1905, 1908-1914, 1919- 1958, 1960-1964		1928-1940
Nakkainen	1900-1956		1928-1940
Snipan	1903-1914, 1919-1960		1928-1940
Storkallegrund	1900-1914, 1921-1956		1928-1940
Rauha (Relandersgrund)	1900-1914, 1919-1953		1928-1940
Storbotten	1908-1914, 1921-1939, 1948-1958		1928-1939
Helsinki (Åransgrund)	1900-1914, 1919-1941, 1946-1959		1928-1940
Kalbådagrund	1921-1941, 1945-1953		1928-1940
Taipaleenluoto (Ladoga)	1908-1916, 1922-1938		1928-1938
Helsingkallan	1900-1914, 1919-1932		1928-1932
Werkkomatala	1900-1916, 1921-1922, 1924-1931		1928-1931

Table 6.

Finnish Coastal StationsPublished by Havsforskningsinstitutet, Helsingfors (*Skrifter*).

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Marijanemi	1920-1950		1929-1940
Ulkokalla	1914-1943, 1945-1961		1929-1940
Tankar	1919-1961		1929-1940
Välsörarna (Valassaaret)	1919-1961		1929-1940
Norrskär	1919-1961		1929-1940
Sälgrund	1919-1943, 1946-1948		1929-1940
Säbbskär (Säppi)	1914, 1919-1961		1929-1940
Enskär (Isokari)	1919-1952, 1954		1929-1940
Märket	1914, 1919-1940, 1942-1961		1929-1940
Lågskär	1921-1961		1929-1940
Utö	1914-1961		1929-1940
Jungfruskär	1920-1961		1929-1940
Lohm	1920-1961		1929-1940
Bengtskär	1920-1941, 1943-1961		1929-1940
Russarö	1914-1939, 1942-1961		1929-1939
Tvärminne	1926-1940, 1942-1961		1929-1940
Kalibådan (Porkkala)	1914-1944		1929-1940

Table 7.

Finnish Coastal Stations

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Gråhara (Harmaja)	1914-1961		1929-1940
Helsingfors (Helsinki)	1914-1952		1928-1940
Söderskär	1914-1961		1928-1940
Aspö (Haapasaari)	1920-1947		1929-1940
Hogland (Suurisaari)	1914-1916, 1919-1939, 1944		1930-1939
Sommarö (Someri)	1920-1939		1928-1939
Stamö (Tammio)	1920-1961		1928-1940
Martinsaari	1920-1939		1928-1939
Virtnaniemi	1932-1939		1932-1939
Styrsudd (Seivästö)	1920-1939		1928-1939
Järsö	1920-1921		
Jussarö	1919-1926		
Rödhäll	1920-1922		
Torsö	1920		
Kökar	1951-1961		
Säggö	1955-1961		

Table 8.

German Light-vessels

Published by 1924 - 1942: Deutsche Seewarte, Hamburg (Meereskundliche Beobachtungen auf deutschen Feuerschiffen der Nord- und Ostsee),

1943 - 1947: Unpublished

1948 - : Deutsches Hydrographisches Institut, Hamburg (Meereskundliche Beobachtungen und Ergebnisse: Beobachtungen auf den deutschen Feuerschiffen der Nord- und Ostsee).

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape	Mag. tape
Adlergrund	1924 - 1939	Observations will be on Mag. tape in Summer 1971	Data in WDC-A in late 1971	
Fehmarn Belt	1924 - 1942			
	Aug. 1943 - Nov. 1944			
	Febr. 1945 - Sept. 1945	"	"	
	May 1947 - 1970			
Flensburg	1936 - Aug. 1943			
	March 1944 - Dec. 1945	"	"	
	April 1947 - 1963			
Kiel	1936 - 1943			
	Febr. 1944 - March 1945	"	"	
	April 1947 - July 1967			

Table 9.

Swedish Light-vessels

Published by 1880 - 1913: Svenska hydrografisk- biologiska kommissionen (Fyrskerpsunder-
sökningen 1923, monthly means of temperature only; monthly means of
salinities will be published in 1971).

1923 - 1947: Svenska hydrografisk- biologiska kommissionen (Fyrskerpsundersökningen)

1948 - 1969: Fishery Board of Sweden, Report, Series Hydrography.
(Hydrographical observations on Swedish lightships and (from 1964) fjord stations)

Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Dynekil	1940 - 1945		1940 - 1945
Falsterborev	1880 - 1914, 1923 - 1939, 1949 - "	1960 - 1949 -	1935, 1938 - 1939, 1951, 1956 - 1957
Finngrundet	1880 - 1918, 1923 - 1942, 1945 - 1969	1960 - 1969	1935, 1938 - 1942, 1945 - 1949, 1951, 1956 - 1957
Fladen	1893 - 1914, 1923 - 1939, 1947 - 1969	1960 - 1969	1935, 1938 - 1939, 1947 - 1949, 1951, 1956 - 1957
Grisbådarne	1923 - 1929		

Table 10.

Swedish Light-vessels

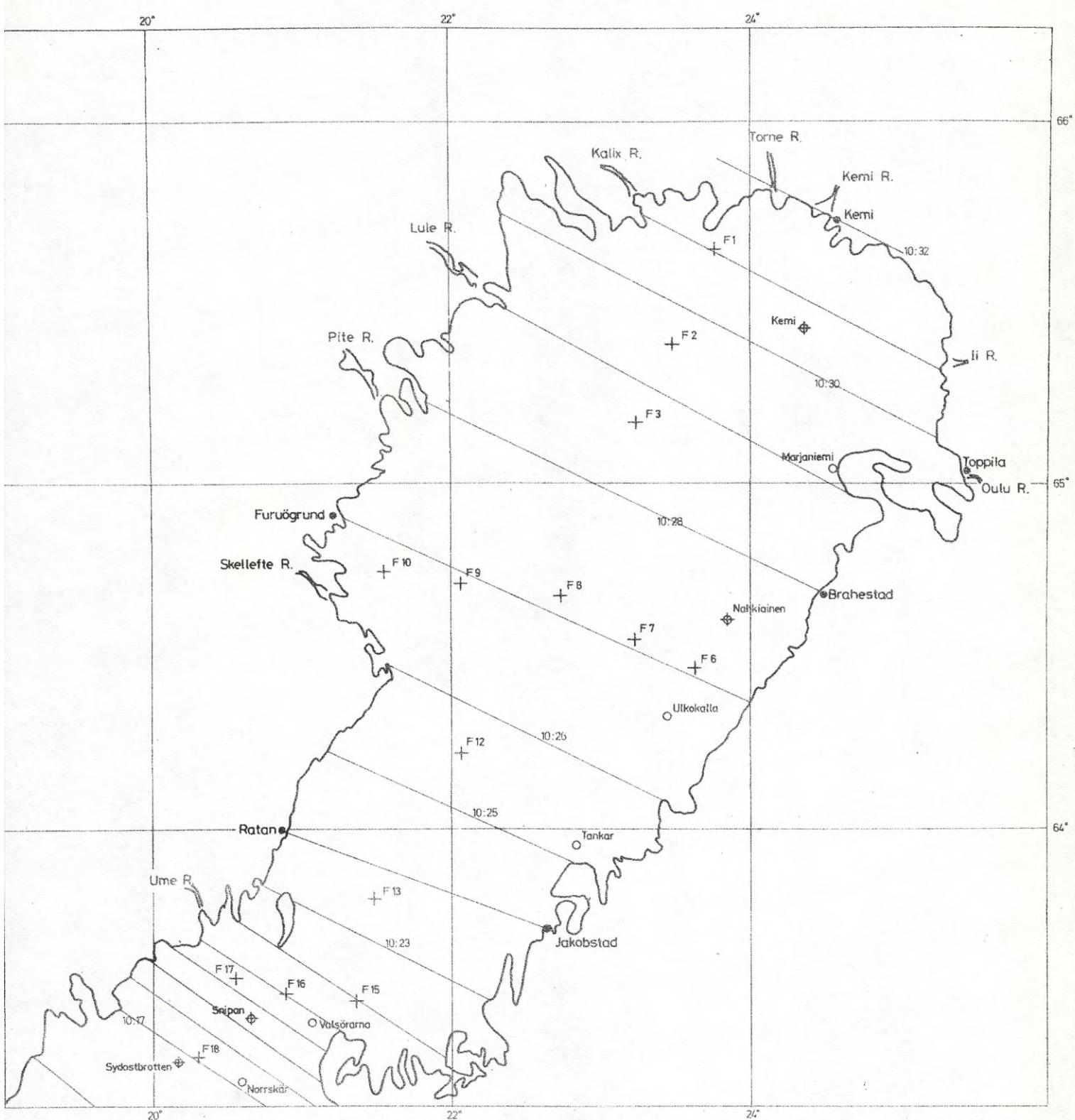
Station	Observing Period	National Punchcards or Mag. tape	WDC-A Mag. tape
Grundkallen	1880 - 1917, 1923 - 1939, 1946 - 1960	1960	1935, 1938 - 1939, 1946 - 1949, 1951, 1956 - 1957
Hävringe	1951 - 1967	1960 - 1967	1951, 1956 - 1957
Oskarsgrundet ^t	1881 - 1914 1923 - 1939, 1949 - 1961	1960 - 1961	1935, 1938 - 1939, 1949, 1951, 1956 - 1957
Svenska Björn	1880 - 1915, 1923 - 1939, 1946 - 1968	1960 - 1968	1935, 1938 - 1939, 1946 - 1949, 1956 - 1957
Svinbåden	1880 - 1914, 1923 - 1940, 1949 - 1960	1960	1935, 1938 - 1940, 1951, 1956 - 1957
Sydstorbotten	1880 - 1916, 1923 - 1963	1960 - 1963	1935, 1938 - 1949, 1951, 1956 - 1957
Vinga	1930 - 1939, 1946 - 1965	1960 - 1965	1935, 1938 - 1939, 1946 - 1949, 1951, 1956 - 1957
Ölandsrev	1923 - 1941, 1946 - 1951		1935, 1938 - 1941, 1946 - 1949, 1951

Table 11.

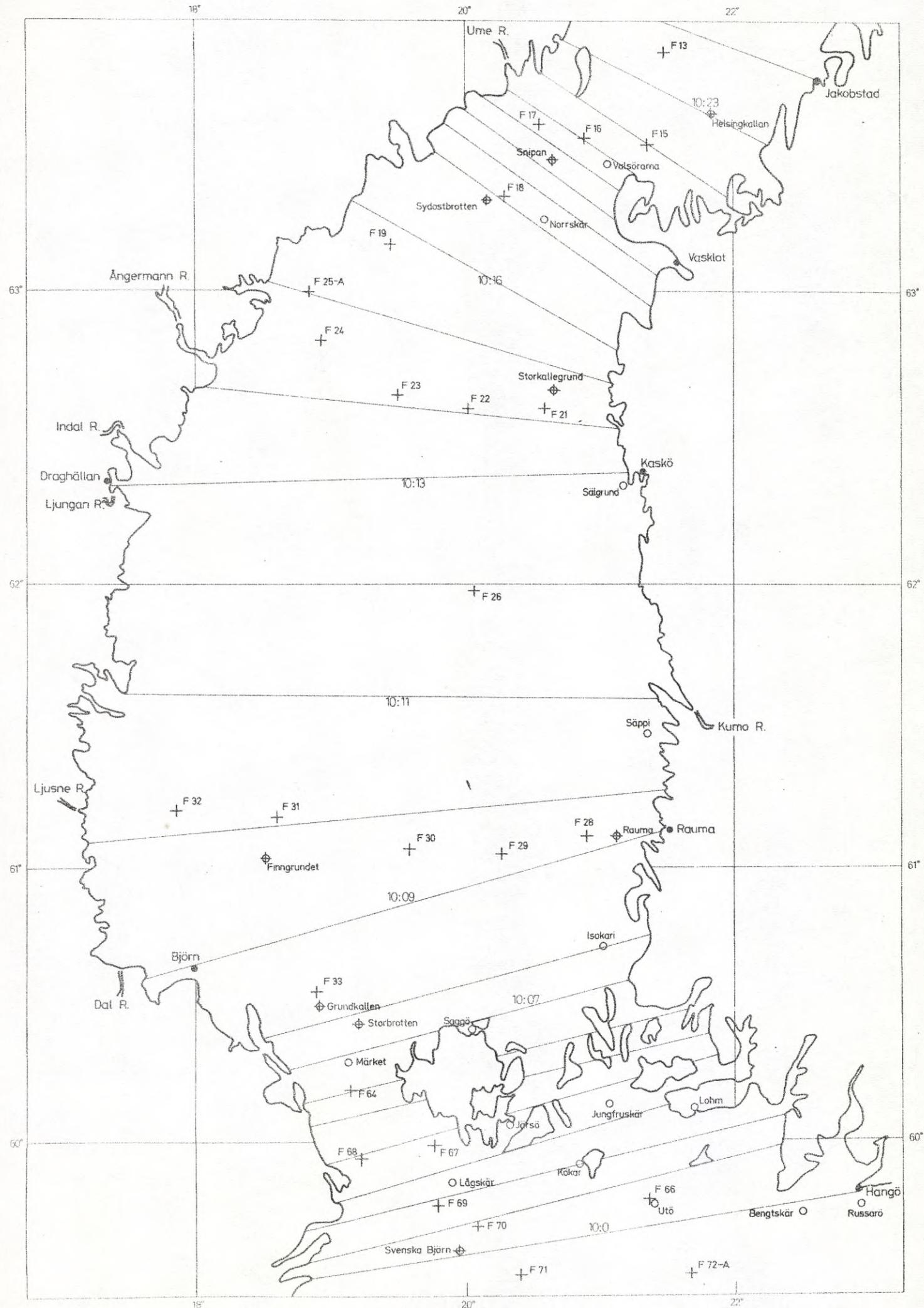
Swedish Light-vessels

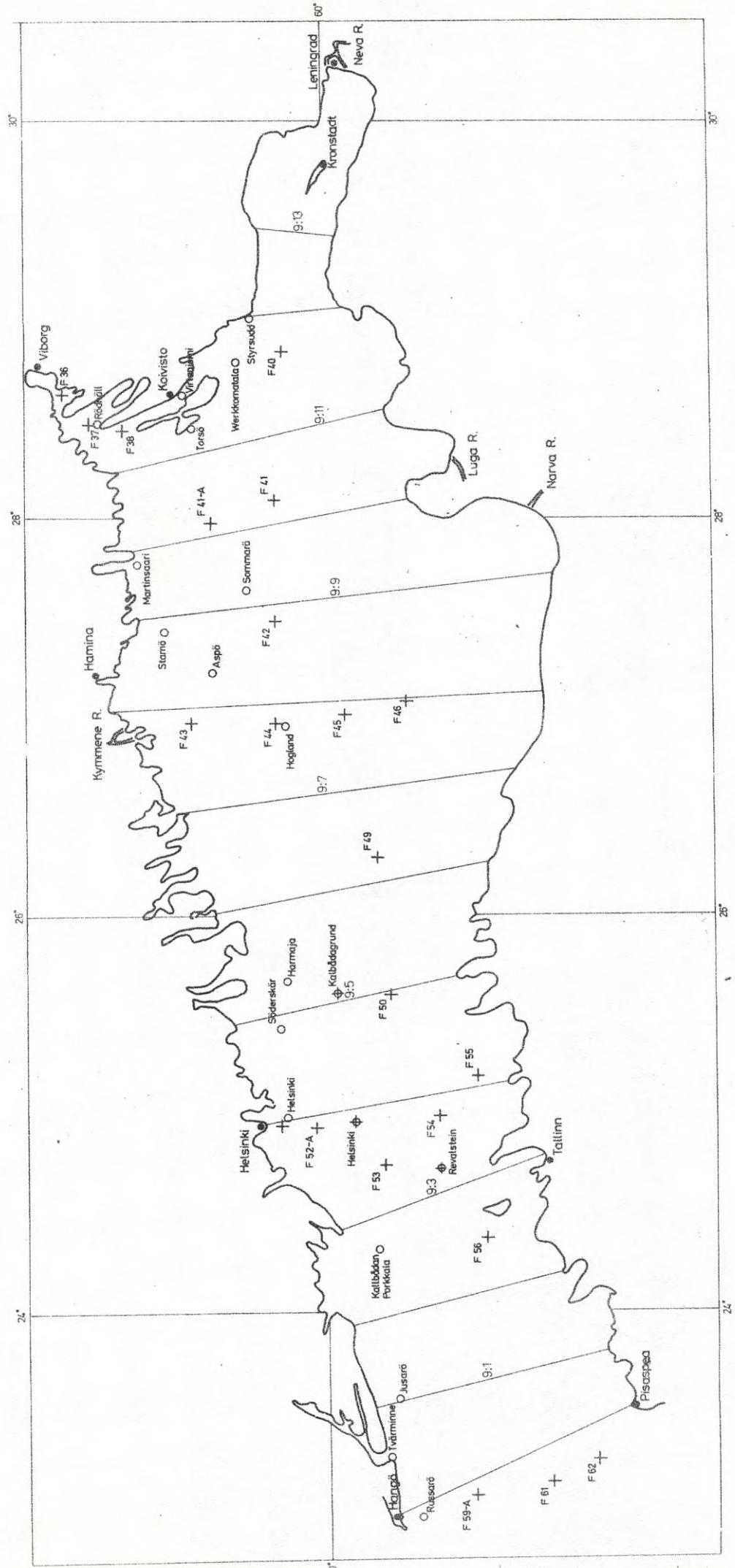
Station	Observing Period	National Punchcards or Mag. tape	VDC-A Mag. tape
Kalkgrundet	1880 - 1914		
Kopparstenarne	1883 - 1915		

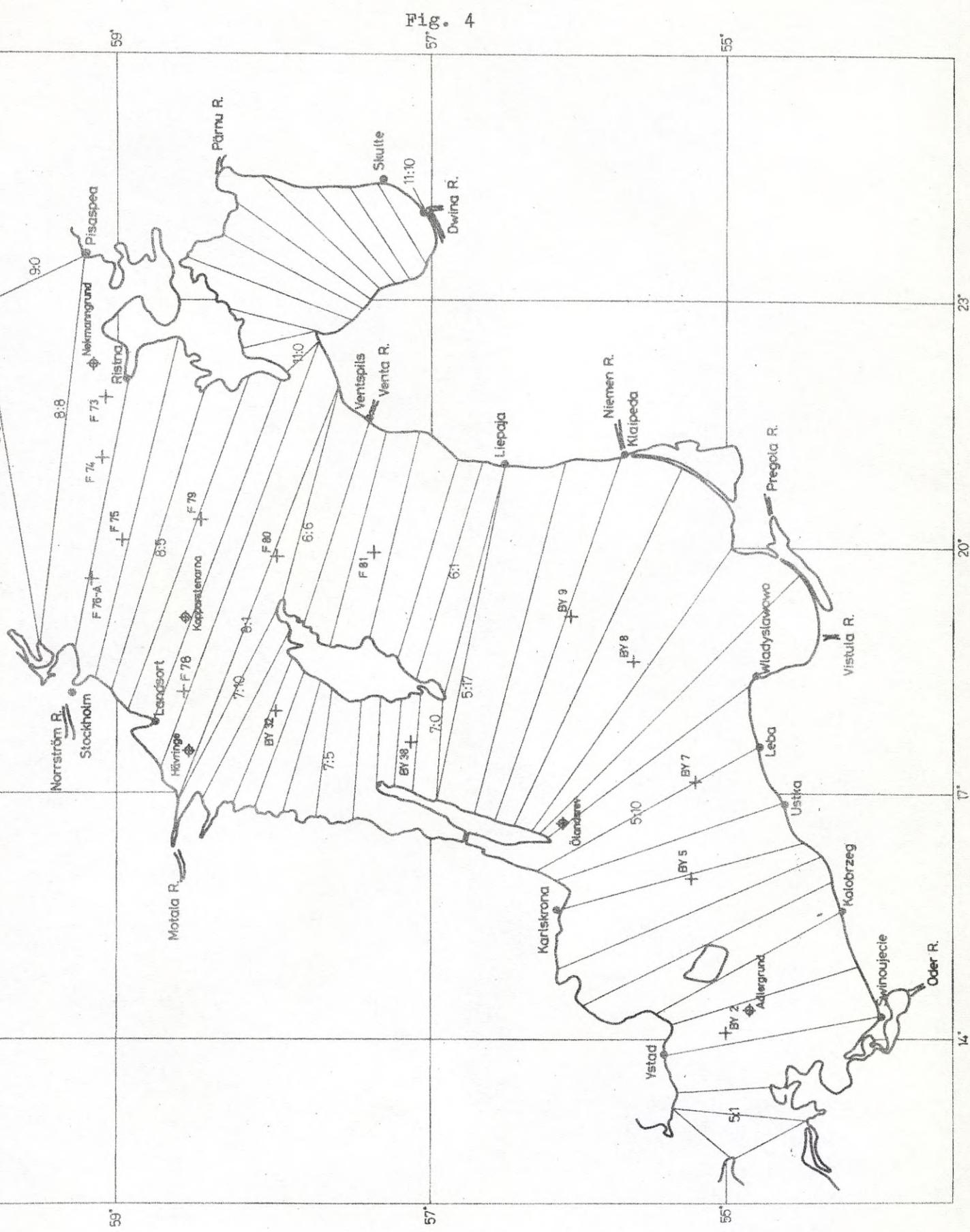
Fig. 1



Bothnian Bay







8°

10°

12°

Fig. 5

