

# Ice and Meteorological Data in the Christian Salvesen Archive

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### Introduction

The Christian Salvesen Shipping Company undertook whaling expeditions to Antarctic waters from 1907 and operated whale factory ships in the Southern Ocean until 1962, with a hiatus during the Second World War. The Company archive is held at the University of Edinburgh, Special Collections and consists mainly of Company records and correspondence. There is a significant part of the archive devoted to the Company's whaling activities including ship logbooks, whale catch books, ice charts and other documents in both English and Norwegian. These documents contain data of scientific interest to meteorology, oceanography, sea-ice studies, and marine biology.

The Special Collections are housed in the Centre for Research Collections (CRC) on the sixth floor of the University Library located at George Square, Edinburgh, EH8 9LJ, and about 20 minutes walking distance south from Edinburgh Waverley rail station. Consultation of the archive requires photographic ID, proof of address (dated within three months) and a passport sized colour photograph. Details of opening times and other information can be found at:

<http://www.ed.ac.uk/schools-departments/information-services/services/library-museum-gallery/crc/collections/special-collections/eua>

### Overview

The Salvesen Collection is in three tranches, two of which are catalogued. Tranches 1 and 2, hereafter Salvesen 1 and Salvesen 2, have an associated handlist, providing a brief overview of the collection.

Salvesen 1, section A contains whaling station records 1909-1945. These were not examined. Section B contains subsections of interest. Salvesen 1/B/6 contains information about tanker voyages 1931-33. Salvesen 1/B/88-90, includes folders containing H1-9 US Hydrographic Office Current Reports, Whale and Oil Books, Ice Charts, Day Reports and Weather and Ice Conditions, covering the years 1932-1936. Section D, subsection 13-14, are Position Books, and these provide data on the movements of selected vessels in the whaling fleet during the period 1933-1945. Section H contains eight large files designated 'Miscellaneous 19<sup>th</sup>-20<sup>th</sup> centuries'. These had no relevant material.

Salvesen 2, shelf A6, boxes 7 and 8 consist of 20 'Chief Officers Whaling Logbooks' for the *Southern Venturer* 1952-1959, and *Southern Harvester* 1952-1960. Shelves E3 and E4, consist of 'Logbooks of Operations' at Leith Harbour and Stromness on South Georgia. These were not examined. Shelf E5 consists of 14 'Whale Catch Books' for the vessels *Sourabaya*, *Salvestria*, *New Sevilla* and *Svend Foyn*, for the period 1932-1941 and made up of 'fangst dagboks', and British Board of Trade 'whale fishery catch books'. Shelf E6 has 6 British Ministry of Transport 'whale fishery catch logbooks' for the *Southern Harvester* and *Southern Venturer*, 1956-1958. Shelf F5 has logbooks for the Norwegian line, but these do not contain relevant data from the Southern Ocean.

## Document Descriptions

Relevant Documents can be divided into seven categories.

- Chief Officers' Whaling Logbook
- Dagrappporter - Daily Reports
- Dagbok or Fangst-Dagbok – Catch Log
- H1-9 US Hydrographic Office Current report
- Ice Charts
- Whale Catch Books
- Hval og Oljebok - Whale Oil Book

## Chief Officers' Whaling Logbook

There are 20 Chief Officers' Whaling Logbooks, 11 for the *Southern Harvester* 1950-1960 and 9 for the *Southern Venturer* 1951-1959. The format of the logbook is a double (facing) page per day. The left-hand page is a typical navigational log and the right-hand page contains data concerning the arrival of whale catchers and the transfer of catches. The logbooks contain data only for the operating period on the whaling grounds of the Southern Ocean. The voyages to and from the whaling grounds from Norway or from the United Kingdom are not included and are most likely to be found in a separate deck or navigational logbook. These other logbooks are not held in the Archive and their location has not yet been determined.

The navigational section of the logbook has lines for each hour of the day, with either 4 or 6 observations per day, in the latter instance at 0400, 0800, noon, 1600, 2000 and midnight. The first set of data columns, 'compass courses', has the both the magnetic and true course as well as compass variation and deviation. The second section, 'winds', has the wind direction and wind force (Beaufort). The wind direction recorded is likely to be magnetic as it is not specifically designated as true in the wind column and the necessary correction can

be calculated from the compass variation in a previous column. Note that it is common in (British) pre-printed navigational logs to have true bearings designated as true and other bearings with no designation to be assumed as magnetic. Three additional columns indicate sea state (Douglas Scale), barometric pressure and air temperature. The last column has a sections for 'Remarks' which can include general observations on the weather, the sea, an intermediate (not noon) dead reckoning position, incidents, and ice observations. The noon position, both observed and by account (estimated or dead reckoning) is recorded in the centre of the page. The example below is a page from the log of the *Southern Harvester*, 16 December 1950. The remarks section at 0200 hours records 'large area of pack ice bearing SW 10-20 miles'. At 0300, 'a/c (altered course) to clear point of ice. At 0800, 'overcast, good visibility, ice bergs'. The estimated position at noon is 55.25S, 4.22W.

**CHIEF OFFICERS WHALING LOG BOOK.**

FL P. *Southern Harvester* on Antarctic Whaling Grounds. Date: *16<sup>th</sup> December 1950*

Time	Compass Course					Wind		Sea	Bar.	Temp.	REMARKS
	Speed	Star	True	Err.	Var.	Dir.	Direct				
0100		367°	278°								
0200		352°	340°			N.	3	1	29.90	31°	0000 Half Wind 298° T. 298° Gyro. Large area of pack ice Brg. SW 10-20 mls. 0230 a/c 340° T. 340° Gyro. to clear point of ice. 0300 Stop. Overcast, fine, cloudy and clear.
0300		278°	270°								
0400		269°	260°			N. by E.	3	2	29.70	32°	0440 Half Ahead 270° T. 270° Gyro. 0615 Full Ahead 260° T. 260° Gyro. Overcast, good visibility. Occ. 'Bergs'. 1040 Radar on.
0500											
0600											
0700											
0800		268°	260°			N. by E.	3-4	3	29.52	33°	Heavily Overcast, Occ. Snow and Fog. Vis. poor to Moderate. Occ. 'Bergs'.
0900											
1000											
1100											
1200											

POSITION AT NOON —

Latitude by Account	Latitude by Observation	Longitude by Account	Longitude by Observation
55° 25' S	55° 25' S	4° 22' W	4° 22' W

Time	Compass Course					Wind		Sea	Bar.	Temp.	REMARKS
	Speed	Star	True	Err.	Var.	Dir.	Direct				
1300											
1400											
1500											
1600		209°	187°			N. by E.	3-4	3	29.28	33°	Thick Fog. Occasional 'Bergs' Vis. Poor.
1700		219°	205°								
1800						S.W.					
1900						S. by E.	4	3	29.28	32°	Thick Fog. Vis. Poor. Sights of Pack ice. One 'Berg' 2000. Stop. 2010-2200. So. Dist along-side for bunkers. 2225-2345. " " " " " "
2000											
2100											
2200											
2300											
2400						SSE.	5.	3	29.30	31°	Overcast, fine and clear.

Master: *W. Wilhelmsson* Chief Officer: *W. Wilhelmsson*

24-80	31°	0000 Half Wind 298° T. 298° Gyro. Large area of pack ice Brg. SW 10-20 mls. 0230 a/c 340° T. 340° Gyro. to clear point of ice. 0300 Stop. Overcast, fine, cloudy and clear.
29-70	32°	0440 Half Ahead 270° T. 270° Gyro. 0615 Full Ahead 260° T. 260° Gyro. Overcast, good visibility. Occ. 'Bergs'. 1040 Radar on.
29-52	33°	Heavily Overcast, Occ. Snow and Fog. Vis. poor to Moderate.

## Dagrapporter - Daily Reports

The Archive holds six of these day reports, all of them for the factory ship *Sourabaya*, for whaling seasons during years 1932-1936. These documents have data for one month per page and are written in Norwegian. Most of the document is concerned with the delivery of whales from each catcher assigned to the factory ship. The right-hand section of the report has a column for air temperature and barometric pressure and the observations are taken at 8am (8 morgen). The ship's noon position is recorded in the column for remarks 'Anmerkninge'. A variety of other observations are also recorded, the column usually headed 'Anmerkningen av alt som kunde vaere av interessa (vaer skiftninger) posisjon hvalbaaten ute av fangst, kjeler eller apparater istykker tankbaaten lang side andre kokerier i sikte' which roughly translated means, 'Annotation of anything that might be of interest (the weather shifts), position, whalers out of hunting, boilers or appliances, ice pieces, tankers alongside and factory ships in sight'. Ice observations are found in this section as well as general remarks on the weather.

Uret	Kvart og	Kl. 8	Anmerkninger av alt som kunde være av interesse (Vær, skiftninger, posisjon, hvalbaater ute av fangst, kjeler eller apparater istykker, tankbaater langs siden.)	
nat	brøkket	Temp.	Baro.	
	A. Spukk Skred	Pat. ur.	meten	Andre kokerier i sikte.
.		36°	29,60	60°22'S. 20°20'W. Frisk vind, lett froke.
.		36°	29,34	60°22'S. 19°41'W. Tint bris, østt. tuff. Høvel standlig dønning.
.		38°	29,86	60°24'S. 19°22'W. Let bris, smul sjø.
.		36°	29,70	60°27'S. 19°33'W. - - - endel dønning. Østt. tuff.
.		34°	29,56	60°53'S. 21°48'W. Let bris, lett froke.
.		34°	29,34	61°6'S. 22°13'W. Let bris med froke. Andrisning senere. Høvel tafjell og partier.
.		32°	29,48	60°51'S. 23°0'W. Let bris, østt. tuff, orange tafjell. Begynner at sne W. kl. 5,30 t. med.
.		34°	29,00	61°22'S. 23°48'W. Kuling med snebygge, endel dønning. Sjø.
.		34°	28,84	

Section from a 'Dagsrapporter' *Sourabaya*, February 1936. (Salvesen 1, B/90, Folder 5)

## Dagbok or Fangst-Dagbok – Catch Log

There are 7 catch logs of this particular format in the archive for the vessels *Sourabaya* 1932-35, *Salvestria* 1932-33, and *New Sevilla* 1932-34. All are in Norwegian. Each double facing page headed 'Driftsoversikt' provides a weekly operational overview. The upper half of the left-hand page details the noon position (Middagsposisjon) followed by weather



conditions (Vaerforhold) including observations of barometric pressure and air temperature. There is no indication of the time of day of the observations and it is assumed to be noon.

10 Driftsoversikt for "New Sevilla" for uken: 25/12 til 31/12 1932 10

1. Dag	2. Datum	3. Middagsposisjon		4. Vaerforhold
		Bredde	Langde	
Søndag	25/12	56°18'	8°34'	S svak vind. Klart. Pakis horisonten rundt.
Mandag	26/12	56°11'	8°57'	WNW svak vind. Klart. Pakis horisonten rundt.
Tirsdag	27/12	56°17'	8°53'	NO sterk vind. Regntykke. Pakis horisonten rundt.
Onsdag	28/12	56°29'	9°02'	WNW sterk vind. Tåke. Lite is. Endel små isstrimer.
Torsdag	29/12	56°43'	9°51'	WNW frisk vind. Skyet. Endel små isstrimer.
Fredag	30/12	57°14'	8°15'	NNO frisk vind. Skyet. Endel isstrimer.
Lørdag	31/12	58°11'	5°46'	WSW svak vind. Skyet. Ingen is.
Sum				

5. Antall hval innbragt		6. Fat olje produsert av:						7. Syregrad i %	
Bla	Sum	Kokkeler		Hartmannspekk		Bla		Spikk	Kiort og andre
Fin	Kval	Spikk	Gras	Spikk	Kiort	Spikk	Kiort og andre	Spikk	Kiort og andre
	0			420	420	480	420	900	0,25
	10			538	945	745	535	1500	0,33
	11			570	735	735	510	1675	0,40
	11			384	516	516	384	900	0,50
	9			565	860	860	385	1405	0,40
	0			300	0	0	300	300	0,52
	3			50	100	100	50	150	0,40
	44			2804	3636	3636	2804	6450	

8. Hval oparbeidet		9. Anmerkninger	
Dag	Sort	10. Ukeproduksjon	
Dag	Sort	Spikk	Kiort
Søndag	Bla	6	14
Mandag	Fin	6	18
Tirsdag	Kval	7	22
Onsdag	Kval	6	17
Torsdag	Andre	9	23
Fredag	Andre	2	12
Lørdag	Andre		
Sum			

Tillegg og Båte kokes på Hartmann Spektapparatet.

Page from Fangst-Dagbok, New Sevilla 25/12-31/12/1932 (Salvesen 2 Shelf E5)

10 Driftsoversikt for "New Sevilla"

1. Dag	2. Datum	3. Middagsposisjon		4. Vaerforhold
		Bredde	Langde	
Søndag	25/12	56°18'	8°34'	S svak vind. Klart. Pakis horisonten rundt.
Mandag	26/12	56°11'	8°57'	WNW svak vind. Klart. Pakis horisonten rundt.
Tirsdag	27/12	56°17'	8°53'	NO sterk vind. Regntykke. Pakis horisonten rundt.
Onsdag	28/12	56°29'	9°02'	WNW sterk vind. Tåke. Lite is. Endel små isstrimer.
Torsdag	29/12	56°43'	9°51'	WNW frisk vind. Skyet. Endel små isstrimer.
Fredag	30/12	57°14'	8°15'	NNO frisk vind. Skyet. Endel isstrimer.
Lørdag	31/12	58°11'	5°46'	WSW svak vind. Skyet. Ingen is.
Sum				

There are ice observations recorded. The first entry above records a light wind from the south, clear, with pack ice all around the horizon. A later entry 'Endel isstrimer' translates as 'some ice streaks' (stream ice?) and the last entry 'ingen is' is 'no ice'.

## H1-9 US Hydrographic Office Current report

There are ten sets of H1-9 Current Reports in Salvesen 1, B/88 (folders 4,5,6) and B89 (folders 2, 6,8, 9). These reports are for the vessels *Sourabaya* 1932-1934, *Salvestria* 1933-1936 and new *Sevilla* 1932-1935. Three of the reports associated with the *New Sevilla* have an additional report on weather and ice conditions. The H1-9 is a pre-printed form issued by the US Hydrographic Office. One of the sets in this collection is typed on plain paper and annotated that the original had been sent to Washington. Most of the reports are typed, a few are hand-written, and all are in English.

N. H. O. 407

**CURRENT REPORT H1-9**  
FOR RECORD IN THE UNITED STATES HYDROGRAPHIC OFFICE  
(FOR LEGIBILITY PLEASE PRINT)

Vessel (name, flag, type) s/s "Salvestria" BRITISH Whaling Factory

Master (name) K. Grande Owner's name and address Chr. Salvesen & Co.

Observer (name and rank) Jas. M<sup>c</sup>Naughtan, 5th Mate 29 Bernard Street, Leith, Scotland.

Address to which an acknowledgment should be made c/o Chr. Salvesen & Co.

Voyage: From On Whaling Grounds. to \_\_\_\_\_

Draft: Departure \_\_\_\_\_ Forward \_\_\_\_\_ Aft. Arrival \_\_\_\_\_ Forward \_\_\_\_\_ Aft. \_\_\_\_\_

The set and drift to be entered below should be the difference between the dead reckoning position (corrected for all errors, except current) and the position determined by astronomical or other fixes. As currents of changing velocity and direction are frequently experienced along a track in 24 hours, they should be determined at shorter intervals than 24 hours and checked with the noon to noon result. The time and latitude and longitude of each position should be entered. This interval as a rule should not be less than 6 hours. Fixes by stellar observations at twilight are the most reliable. The patent log and revolutions should be used whenever possible to ascertain the distance run through the water. If temperature of sea water is given at injection, state depth below surface. Use "NIL" to denote absence of current, and "NO OBS" when no observations of current were determined. When a position is given in relation to a geographical location, enter also the latitude and longitude of the position.

YEAR 19 <u>36</u>			POSITION		CURRENT		WIND		WATER TEMP. (FAHR.)		CONDITION OF SEA			SPECIFIC GRAVITY
MONTH	DAY	TIME (L.M.T.)	LATITUDE	LONGITUDE	SET (TRUE) 0° to 360°	HOURLY DRIFT	DIRECTION (TRUE) (POINTS)	FORCE (KNOTS)	SURFACE	INJECTION	SEA FROM (POINTS)	AMOUNT (POINTS)	SWELL FROM (POINTS)	
Jan	8	1207 <sup>From</sup>	57°41'S	10°57'W			ENE	1		32°	ENE	1	NW	2
		To	No Obs.				S	1		32°	Calm	0	NW	2
Jan	9	1207 <sup>From</sup>	57°44'S	11°32'W			S	1		32°	Calm	0	NW	2
		To	No Obs.				S	1		32°	Calm	0	NW	2

### H1-9 Current Report *Salvestria*, January 1936 (Salvesen 1 B/89, folder 9)

There are minor differences in data recorded on the H1-9, for instance sea colour is recorded on some of the H1-9s but not others. The usual data is month/day/time, position, current set and drift, wind direction and force, sea temperature, either at the surface or at the injector, sometimes both, sea state, swell and specific gravity of seawater. In the case of sea temperatures measured at the engine room injector, the depth of the injector below the surface is given, in the section 'Additional Remarks' on the reverse of the form. This section is also used to record ice observations and the general situation of the vessel within the ice. The ice observations in the example below, give a date and description of the ice. The position of the observation can be determined by finding the corresponding date in the main part of the H1-9 form.



Jan	23	121	From	57°45'S	8°36'W			NE	2	02°	NE	1	NNW	4
			To	No Obs.				NExN	2	02°	NE	1	NNW	4
Jan	24	121	From	57°51'S	8°39'W			NxE	5	02°	NxE	4	NNW	4
			To	No Obs.				NWxW	2	02°	NWxW	2	NNW	4

**ADDITIONAL REMARKS**

Water temperatures given at injection, 20 ft below surface. Jan 8th to Jan 10th s/s lying amongst slack packice, on 10th ice forming into small packs and drifting S'wds. Jan 11th to Jan 15th s/s lying amongst small scattered packs, a few small bergs vis. Jan 14th to Jan 17th s/s steamed a few miles to S'rd every day keeping to N'rd of ice much scattered packs, a few bergs. Jan 18th to Jan 20th s/s steamed E'wards thro' slack packice (mod. & heavy) passed a few bergs. Jan 21st to Jan 24th s/s lying amongst small scattered packs, light ice, several bergs vis. Bergs mostly small with a few moderate size. /

U. S. GOVERNMENT PRINTING OFFICE: 1922 4-1724

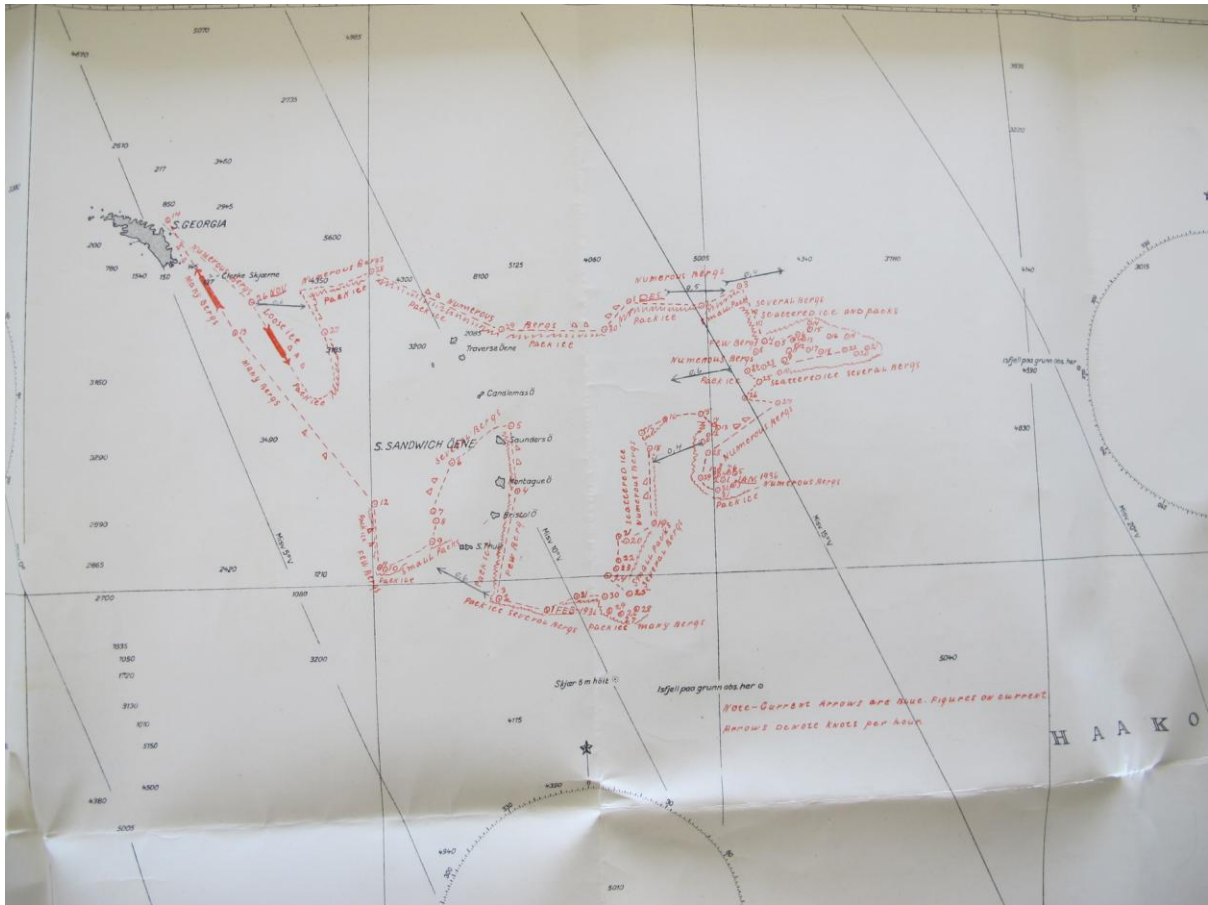
Several of the H1-9 reports for the *New Sevilla* have an attached weather and ice report (example below). These additional reports record the date, daily barometric pressure and air temperature, general weather conditions and ice observations. The report needs to be matched to the corresponding H1-9 in order to obtain the vessel's noon position.

DATE.	BAR.	THERM.	WEATHER, ICE CONDITIONS.
Dec. 24.	28.32	32°F	Foggy and misty. Packice in West and NW.
" 25.	27.96	30°F	Foggy and misty. Scattered ice all around the Horizon.
" 26.	28.20	30°F	Snowing and misty. Scattered ice all around the Horizon.
" 27.	28.22	33°F	Sky cloudy. Packice in South.
" 28.	28.80	30°F	Sky cloudy. Packice in South and SW.
" 29.	29.12	30°F	Overcast. Packice in South and SW.
" 30.	29.44	33°F	Sky cloudy. Packice in South and West.
" 31.	29.34	33°F	Foggy and misty. Packice in North and NW.
<u>1934.</u>			
Jan. 1.	29.02	31°F	Foggy and overcast. Packice in West and SW.
" 2.	28.48	34°F	Sky cloudy. Scattered ice all around the Horizon.
" 3.	29.63	34°F	Overcast. Scattered ice all around the Horizon.
" 4.	29.46	36°F	Sky cloudy. Scattered ice all around the Horizon.

**Weather and ice conditions *New Sevilla*, Dec 1933-Jan 1934** (Salvesen 1 B/88, folder 4)

### Ice Charts

The archive holds eight ice charts in Salvesen 1, B/88 (folders 1,4, 5,6), B/89 (folders 5,6) and B/90 (folder 5 x 2 charts). These are for the vessels and whaling seasons *New Sevilla* (1933/4, 1934-5, 1935/6), *Salvestria* (1934/5, 1935/6) and *Sourabaya* (1933/4, 1934/5).



Ice Chart – *New Sevilla*, season 1935-1936 (Salvesen 1, B88, folder 6)

### Whale Catch Books

The whale catch books are a variation of the fangst-dagbok and the example below is identical to the earlier example from the *New Sevilla*, except for variations in format including dedicated columns for temperature and barometric pressure.

5 Driftoversikt for F<sub>K</sub> SOURABAYA

1. Dag	2. Datum	3. Middagsposisjon		TEMP. METER	BAROM. METER	4. Værforhold		Antall		
		Bredde → YD	Langde ← ST					Bil	Finn R	
Søndag	24/12	57° 50'	36° 41'	38°	29.26	svak vind	frøstige	Pakis rent.	5	-
Mandag	24/12	58° 36'	29° 55'	38°	29.47	svak vind	overkast.	— " —	4	-
Tirsdag	25/12	58° 37'	29° 4'	36°	29.22	hv. med blandede	luft.	— " —	1	-
Onsdag	26/12	58° 41'	29° 00'	37°	29.25	svak vind	luft.	Pakis i S. endel isfjell.	6	-
Torsdag	27/12	57° 48'	27° 49'	37°	29.10	hv. med	luft.	Pakis.	10	9
Fredag	28/12	57° 48'	28° 01'	36'	29.15	svak vind	hv. luft.	— " —	12	2
Lørdag	29/12	57° 41'	28° 19'	35°	29.4	—	svak vind	isfjell	4	-
						Sum			42	11

7. Påfyllinger

Kokekjeler			Hartmannsapp.			10.
Spekk	Graks	Kjøtt	Ben	Spekk	Kjøtt	Ben

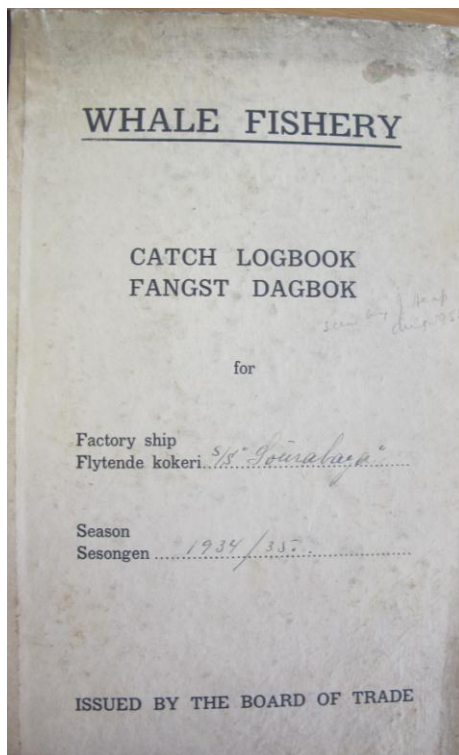
Ukeproduksjon 4849

Dag

Fangst-Dagbok - *Sourabaya*, December 1934 (Salvesen 2, shelf E5)



The next example, also the *Sourabaya*, for the following season 1934-35, is in all respects identical but this catch book is issued by the British Board of Trade and is printed in both English and Norwegian. As with the former fangst-dagbok, there are columns observations of temperature and barometric pressure and remarks including ice observations. According to the instructions near the front of the book, the position recorded is the noon position while the pressure and temperature observation are at 8am, weather and sea conditions refer to the previous 24 hours.



**UK Board of Trade Whale Fishery  
Catch Logbook – *Sourabaya*, March  
1935 (Salvesen 2, shelf E5)**

The image shows a page from the logbook with a table titled 'Summary of operations in Factory Ship SOURABAYA' and 'Driftoversigt for Flytende Kokeri'. The table has columns for Day, Date, Noon position (Latitude & Longitude), and Weather Conditions. The data is as follows:

1 Day / Dag	2 Date / Datum	3 Noon position / Middags position		4 Weather Conditions / Væretforhold	
		Latitude & Bredder	Longitude of Longitude		
SUNDAY	24/3	66° 15'	29° 28'	25.0	Light, overcast, drizzle till 10.0. Ice in sight at 10.0.
MONDAY	25/3	66° 10'	29° 15'	28.0	Ice and light haze. Drizzle till 10.0 on ice.
TUESDAY	26/3	65° 30'	28° 05'	26.0	Ice and overcast till 10.0. Ice in sight at 10.0.
WEDNESDAY	27/3	65° 30'	28° 20'	26.0	Light drizzle, overcast till 10.0. Ice in sight at 10.0.
THURSDAY	28/3	66° 01'	27° 39'	27.0	Light breeze, blizzard till 10.0. Ice in sight at 10.0.
FRIDAY	29/3	65° 44'	27° 45'	26.0	Light breeze, overcast till 10.0. Ice in sight at 10.0.
SATURDAY	30/3	64° 58'	28° 07'	25.0	Light drizzle, overcast till 10.0. Ice in sight at 10.0.

Below the table, there are sections for '5 No. of Whales delivered' and '6 Number of fillings' with sub-columns for 'Bulbers', 'Kokkekyler', 'Hartmanns app.', and 'Kvaerner app.'.

The following season, 1935/36, the format changed significantly. The catch book, still issued by the Board of Trade has the meteorological and other environmental observations spread across the upper half of a double facing page, with one week's data per view. Most of the book is printed in English. The example below, again the *Sourabaya*, records noon position, barometric pressure and temperature, wind direction and wind force (Beaufort). A general description of the weather follows, and then pack ice bearing and distance. Finally, there is a section for recording the size and number of icebergs. The remaining observations concern the capture of whales and oil production. The first pages of the catch logbook give instructions for its completion in English and Norwegian. All observations are made at noon (previous to the 1935/36 season, pressure and temperature had been observed at 8am). There is no indication as to whether the wind directions are true or magnetic. There are particular instructions concerning the observation of pack ice.

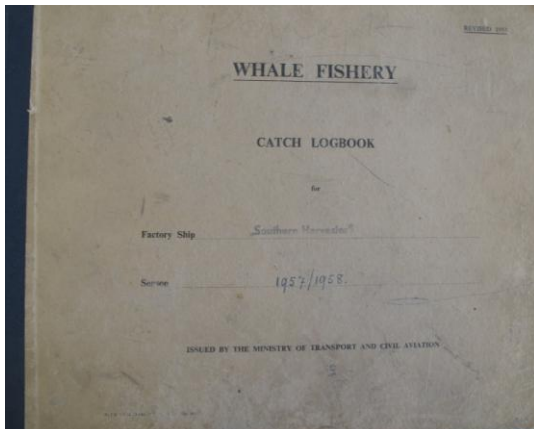
'Line 6. Enter the approximate estimated bearing and distance in miles from the ship of the nearest known pack ice. If the pack ice is in sight of the ship insert (S) after the distance.'

There is no indication as to whether the bearings to the pack ice are magnetic or true, but it is apparent that observations out of sight of the ship must have been provided by the whale catchers.

DAILY RECORD														
DAY	LONG	MONDAY 26/1	TUESDAY 27/1	FOR THE WEEK ENDING 42-1936 42										
LATITUDE	1	59°52'	59°52'	60° 1'	WEDNESDAY 28/1									
LONGITUDE	2	172°5'	172°21'	20°48'	THURSDAY 29/1									
BAROMETR. THERMOMETER	3	29.30	29.33	29.12	FRIDAY 30/1									
WIND DIRECTION FORCE	4	W.N.W. 5	E. 4	3.5 W. 4	SATURDAY 31/1									
WEATHER	5	Overcast snow	Snow	Snow	WIND DIRECTION FORCE									
PACK ICE BEARING DISTANCE	6	Heavy	S.W. to S.E.	Heavy	WEATHER									
BEING KILLED SIZE	7	Heavy	None	Several	PACK ICE BEARING DISTANCE									
WHALES	8				BEING KILLED SIZE									
DEPART AT MIDNIGHT 24hrs	9				WHALES									
KILLED	10	12 4	3	10 5	DEPART AT MIDNIGHT 24hrs									
SEW	11	12 6	9 1	10 5	KILLED									
WORKED UP	12	6 5	9 1	5 1	SEW									
LOST, ETC.	13				WORKED UP									
REMAINING AT MIDNIGHT 24hrs	14	6 1		5 4	LOST, ETC.									
BLISSERS	15				REMAINING AT MIDNIGHT 24hrs									
BLISSERS	16				BLISSERS									
NUMBER OF	17				BLISSERS									
BLISSERS	18				NUMBER OF									
BLISSERS	19				BLISSERS									
BLISSERS	20	688 330 343	618 345 366	528 130 136	BLISSERS									
BLISSERS	21				BLISSERS									
BLISSERS	22	688 330 343	618 345 366	528 130 136	BLISSERS									
BLISSERS	23	1361	1329	796	BLISSERS									
BLISSERS	24	1361	1329	796	BLISSERS									
BLISSERS	25				BLISSERS									
BLISSERS	26				BLISSERS									
BLISSERS	27				BLISSERS									
BLISSERS	28				BLISSERS									
REMARKS														
2 Blises on Tuesday such as fenders were blown more cut away after the Polar Progen left.														
P. Hamilton LOGKEEPER														
first. The carcasses The same not as on page 13 should be done.														
AVERAGE BARRELS per CALC. BLUE - 1411.4														
MANAGER														
NOTE: Readings D, F, H & S, indicate Blue, Fin, Humpback & Spinn.														

Board of Trade whale catch logbook - Sourabaya, January 1936 (Salvesen 2, shelf E5)

The final example of a catch book from the Salvesen archive is for the season 1957/58 and the factory ship *Southern Harvester*. The physical dimensions of this book, issued by the British Ministry of Transport and Civil Aviation, are larger than former examples with a week of data on each page. As before, observations are at noon, and the data recorded and the instructions for making observations do not differ from previous catch books. The bearing and distance to the pack ice is recorded in the same manner as before.



UK Ministry of Transport  
Whale Fishery Catch Book,  
*Southern Harvester*, 4  
January 1958  
Salvesen 2, shelf E5

DAILY RECORD FOR WEEK ENDING SATURDAY 4th January, 1958

DAY	Line No.	SUNDAY 27/12	MONDAY 28/12	TUESDAY 29/12	WEDNESDAY 30/12	THURSDAY 31/12	FRIDAY 1/1	SATURDAY 2/1	REMARKS
LOBBERS	1	66° 47'	66° 44'	67° 36'	66° 51'	66° 08'	66° 52'	67° 10'	Southern Opal, Transport, alongside 7th CR
LOBBETS	2	90° 28'	90° 15'	93° 08'	92° 29'	89° 39'	92° 19'	92° 20'	Departed 4th
BAROMETR. TEMPERATURE	3	981 0.0	976 0.0	990 -2.5	988 -2.0	965 0.0	977 -2.8	978 -2.2	
WIND DIRECTION, FORCE	4	N 4/4	SE 4/5	S 2/4	NW 2/4	E 4/4	ESE 5/5	S 4/4	
WEATHER	5	6-9 1/2	3/4	1/4	1/4	1/4	1/4	1/4	
FISH EG. BEING, LITONGE	6	-	S	S	2	-	-	S	"S" Marker" & "S" Sollar" joined
REMARKS, NUMBER, SIZE	7	-	Many	Many	Many	Many	Many	Many	explosion around midnight 3/1
WHALES	8	H I H S	H I H S	H I H S	H I H S	H I H S	H I H S	H I H S	WEEK'S TOTALS
Is Have a Mammot-Other	9	9	4	2	-	9	6	9	
TOBS	10	-	2	1	-	1	3	4	
SEA	11	9	6	3	-	9	10	13	
WORKERS UP FULL	12	5	4	3	-	4	-	7	
WORKERS UP PARTIAL	13	-	-	-	-	-	-	-	
LOST	14	-	-	-	-	-	-	-	
REMARKS BY MAMMOT-24 Box	15	4	2	-	-	9	6	9	
SEE WHOLE ENTRY WORKER BY	16	-	-	-	-	-	-	-	
Enter here time of day if is required	17	0600	-	-	-	-	-	-	
NUMBER OF BOILERS OR ROTARY COOKERS	18	-	-	-	-	-	-	-	
ON FROM BOILERS AND ROTARY COOKERS	19	14	7	6	-	7	-	15	49
OIL TOTAL	21	315	275	170	-	210	-	240	7565
WHALE OIL	22	-	-	-	-	-	-	-	25
SPERM OIL	23	315	275	170	-	210	-	240	7540
MEAT MEAL	24	132	67	54	-	76	-	114	1942
LIVER MEAL	25	-	-	-	-	-	-	-	600
LIVER OIL	26	70	-	-	-	-	-	-	-
MEAT EXTRACT	27	-	-	-	-	-	-	-	-
OTHER PRODUCTS	28	-	-	-	-	-	-	-	-

NOTE.—Headings B F H & S indicate Blue, Fin, Hampluck and Sperm. AVERAGE NO. OF BARRELS PER B.W.U. FOR WEEK —

## Hval og Oljebok - Whale Oil Book

There are four sets of whale oil books, 14 books in total, all associated with the factory ship *New Sevilla* during four whaling seasons from 1932 to 1936. The books are to be found in Salvesen 1, B88 (folders 2, 5 & 6). The book has data for one month on a double facing page. On the right-hand page is a section for remarks, describing the weather and ice conditions and the vessel's position at noon.

1/5. NEW SEVILLA - SESONGEN 1932/33.

KOP1  
AV  
HVAL-OG OLJEBOK  
(1/2-33 ~ 25/2-33)

Hvalfangst av:											DRUKKE P.L.E.S.M.	Antall av Whale Spekt. (Kv.)		Anmerkning on cell or entrance.		Rangering O.S.D. WEST	
B1	B2	B3	B4	SEVRA	SEVRA	TOTAL	O.P.A.	O.P.A.	O.P.A.	O.P.A.							
1	1	1	1	1	1	5	1	1	1	1	5	1	1	1	1	1	1
2	2	2	2	2	2	10	2	2	2	2	10	2	2	2	2	2	2
3	3	3	3	3	3	15	3	3	3	3	15	3	3	3	3	3	3
4	4	4	4	4	4	20	4	4	4	4	20	4	4	4	4	4	4
5	5	5	5	5	5	25	5	5	5	5	25	5	5	5	5	5	5
6	6	6	6	6	6	30	6	6	6	6	30	6	6	6	6	6	6
7	7	7	7	7	7	35	7	7	7	7	35	7	7	7	7	7	7
8	8	8	8	8	8	40	8	8	8	8	40	8	8	8	8	8	8
9	9	9	9	9	9	45	9	9	9	9	45	9	9	9	9	9	9
10	10	10	10	10	10	50	10	10	10	10	50	10	10	10	10	10	10
11	11	11	11	11	11	55	11	11	11	11	55	11	11	11	11	11	11
12	12	12	12	12	12	60	12	12	12	12	60	12	12	12	12	12	12
13	13	13	13	13	13	65	13	13	13	13	65	13	13	13	13	13	13
14	14	14	14	14	14	70	14	14	14	14	70	14	14	14	14	14	14
15	15	15	15	15	15	75	15	15	15	15	75	15	15	15	15	15	15
16	16	16	16	16	16	80	16	16	16	16	80	16	16	16	16	16	16
17	17	17	17	17	17	85	17	17	17	17	85	17	17	17	17	17	17
18	18	18	18	18	18	90	18	18	18	18	90	18	18	18	18	18	18
19	19	19	19	19	19	95	19	19	19	19	95	19	19	19	19	19	19
20	20	20	20	20	20	100	20	20	20	20	100	20	20	20	20	20	20
21	21	21	21	21	21	105	21	21	21	21	105	21	21	21	21	21	21
22	22	22	22	22	22	110	22	22	22	22	110	22	22	22	22	22	22
23	23	23	23	23	23	115	23	23	23	23	115	23	23	23	23	23	23
24	24	24	24	24	24	120	24	24	24	24	120	24	24	24	24	24	24
25	25	25	25	25	25	125	25	25	25	25	125	25	25	25	25	25	25
26	26	26	26	26	26	130	26	26	26	26	130	26	26	26	26	26	26
27	27	27	27	27	27	135	27	27	27	27	135	27	27	27	27	27	27
28	28	28	28	28	28	140	28	28	28	28	140	28	28	28	28	28	28
29	29	29	29	29	29	145	29	29	29	29	145	29	29	29	29	29	29
30	30	30	30	30	30	150	30	30	30	30	150	30	30	30	30	30	30



SW. sterke vind. Smedisig. Ispakker i Syd.	63°	46°20'
WSW. svake vind. Overstyrt. Spredd pakis horisonten rundt.	62°58'	46°20'
N. svake vind. Tåke. Is horisonten rundt.	63°1'	46°31'
OSO. frisk vind. Overstyrt. Is horisonten rundt.	63°9'	46°45'
O. svake vind. Overstyrt. Begynde gå ut av isen kl. 10 fm. med sakke fart. W. over. Stoppet kl. 4.20 eftm. i is er en ispakke.	63°22'	44°47'
OSO. svake vind. Klart. Inget is i syd.	63°25'	45°23'
OSO. svake vind. Klart. Ispakker i syd.	63°25'	45°40'
SSW. svake vind. Overstyrt. Ispakker i Syd.	63°20'	45°50'
S. svake vind. Overstyrt. Ispakker i Syd.	63°16'	46°3'
OSO. svake vind. Overstyrt. Ispakker i Syd 7 SO.	63°16'	46°5'
O. frisk vind. Snetykke. Ispakker i Syd og Ost.	63°19'	46°17'
Variabel svake vind. Tåke. Ispakker i Syd.	63°23'	46°30'
NNW. sterke vind. Tåke. Stor is. Begynde gå Vestover kl. 5.40 fm. for å finde is. Stoppet kl. 2.25 eftm. i is er en ispakke.	63°35'	47°27'
N. svake vind. Tåke. Ispakker i Syd.	63°15'	48°20'

## Whale Oil Book - New Sevilla, February 1933 (Salvesen 1, B88/folder 2)

### Metadata

Three sets of documents in the Collection provide useful metadata on ship movements. These are Salvesen 1, B6, 'Tanker Voyages 1931-1933', and Salvesen 1, D 13 and D 14, 'Position Books 1933-1941'. As well as the movements of selected factory ships, these three volumes indicate that there are many additional Salvesen vessels such as oil tankers and supply vessels operating in the Southern Ocean, servicing the factory ships with supplies and loading cargos of whale oil, for Europe. Complete sets of movements are documented, for the period 1933-1941, but the deck logs are not present in this archive. This is a useful indication that there is much more potential material to be found. All of the additional vessels found and all of the metadata concerning vessel movements has been added to the Inventory.

### Imaging

Some sample images were taken in the course of compiling the inventory. To image the remainder of the documents will require approximately 4,000 images or about four to five days work, with a further four to five days to process the images, rename and organize the files the and produce an image catalogue. Permission to undertake the photography must be sought from the head of CRC, Dr. Joseph Marshall.

### Additional Christian Salvesen Material

Although the Christian Salvesen archive is of significant scientific value, the archive itself holds only a fraction of the potential data that must have been produced by the Company's



whaling activities. The Chief Officers' logbooks only cover the period activity on the Antarctic whaling grounds, and the other types of documents cover the same period. The navigation or deck logs of the factory ships if still extant are archived elsewhere and their location is yet to be determined. These deck logs should contain data for the voyage south from European waters and the return voyage, as well as the period spent in the Southern Ocean. Additionally the archive only holds material for a narrow selection of vessels and specific time periods (mid 1930s & mid 1950s). There are other vessels and time periods not represented in the archive. The inventory of Salvesen vessels and activities will indicate the material still to be found. Furthermore logbooks and other documents for the tanker and supply ship vessels servicing the whaling fleet are still to be found.

## **Inventory**

The inventory of ice and meteorological data from the Christian Salvesen Archive, at the University of Edinburgh contains not only the relevant material found in the Archive, but as full an inventory as presently possible of the Company's vessels and movements in the Southern Ocean including factory ships, whale catchers, tankers and supply vessels. Where material was not found in Edinburgh, vessels are annotated with 'not yet sourced'. The inventory will be updated as new material is found.