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CNS. 322 (Revised 1963)

7530-21-562-1292

See Q.R.C.N. Art. 48.54, 45.47, 48.31;
71.4803, 48.32, 48.22, 48.51.

This Log when completed is to be transmitted to the Senior Officer in Command for inspection. Upon return it is to be retained in the ship for reference. Completed Logs shall be forwarded in batches of twelve bound in CNS 321B to Naval Records Centre, Sydney, N.S., in accordance with QRCN article 48.54.

HMCS

PROTECTEUR

Class of Ship

AOR

SHIP'S LOG

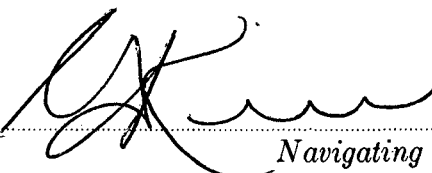
FOR

Month of

SEPTEMBER

1971

| | |
|--------------------|--------|
| Days at Sea | 23 |
| Days in Harbour | 7 |
| Total Distance Run | 6866.4 |


Navigating Officer.


Captain.

Senior Officer in Command.

ARTICLES 48.31 AND 48.54 QUEEN'S REGULATIONS AND ORDERS FOR THE CANADIAN NAVY

48.31 — TOUCHING GROUND AND COLLISIONS

- (1) When one of Her Majesty's Canadian Ships touches ground or is involved in a collision with another vessel, or with a floating or sunken object, every effort shall be made to obtain the exact position of the ship at the time of the accident, and an entry shall be made in the ship's log giving the position and the method by which it was obtained. (*See article 71.4803—"Report of Touching Ground and Collisions."*)
- (2) *Possibility of Damage.* When one of Her Majesty's Canadian Ships comes into such close proximity to another vessel that there is a possibility of damage, being sustained by either the ship or the vessel, the details listed in article 71.4803—(Report of Touching Ground and Collisions) shall be carefully noted.
- (3) *Preservation of Records.*
 - (a) When a collision or narrow escape from a collision occurs, or the ship has touched ground, the Captain shall ensure that the following items are preserved:
 - (i) the Ship's Log Book,
 - (ii) all Engine Room Registers,
 - (iii) the Navigating Officer's Note Book,
 - (iv) the Officer of the Watch's Note Book,
 - (v) the plot, if one was in use,
 - (vi) the charts by which Her Majesty's Canadian Ship was being navigated at the time,
 - (vii) if the ship has touched ground, the echo sounding machine trace, and
 - (viii) the Operations Room Log.
 - (b) Entries in the records shall not be erased, but if correction is found necessary, the entry shall be crossed through and initialled. Subsequent marking or amendment of the chart or plot shall not be made in any circumstances, other than the use of the chart for the continued safe navigation of the ship.
- (4) *Collisions with Docks or Basins.* When a ship collides with or bears hard against the side of a dock or basin, the relevant reports prescribed in Article 71.4803—(Report of Touching Ground and Collisions) shall be made.

48.54 — SHIP'S LOG

- (1) *Responsibility.* The Navigating Officer shall have charge of the Ship's Log (Form C.N.S. 322). He shall be responsible for its maintenance, storage and disposal and he shall see that it is produced for inspection at the proper times.
- (2) *Entries.* Entries in the Ship's Log shall be made in pencil and shall include:
 - (a) *general*
 - (i) the employment of the ship's company,
 - (ii) holding Divine Service and reading of prayers,
 - (iii) leave granted, stating in which watch or part of the watch,
 - (iv) joining and leaving, rank and name of officers, total number of men only,
 - (v) general payments,
 - (vi) offences committed by officers and punishments requiring warrants, the serial numbers being given (*see Article 101.11—Logging Conduct of Officers*),
 - (vii) every alteration of clocks (to be noted in the remarks column),
 - (viii) the time kept each day at noon,
 - (ix) salutes and ceremonies, half-masting and re-hoisting of colours,
 - (x) dressing ship, stating the reason,
 - (xi) evolutions, exercises and landings of parties for service or drill,
 - (xii) closing and opening of water-tight doors, or damage control state where applicable,
 - (xiii) embarkation and disembarkation of passengers,
 - (xiv) details and times of any accident or death occurring on board,
 - (xv) notation of any births, baptisms and marriages which take place on board,
 - (xvi) notation of damage to, or loss of, important store articles or fixtures, making reference, where necessary, to details in lists kept with store accounts,
 - (xvii) terms entered into when engaging a pilot,
 - (xviii) any occasion of touching ground or being in collision,
 - (xix) any relevant information concerning fishing vessels or gear in the vicinity,
 - (xx) the description of weather, wind and sea, the corrected barometer reading and any unusual phenomenon on completion of each watch and at least every hour during threatening weather,
 - (xxi) all occasions of testing boats, life rafts, night lifebuoys and their releasing gear,
 - (xxii) notation of corrections to meteorological instruments,
 - (xxiii) matter whose entry is required by regulations, and
 - (xxiv) other important occurrences;
 - (b) *when in harbour*
 - (i) daily notice of main engines for steam at noon and on any alteration,
 - (ii) arrival and departure of any ship of Her Majesty's forces, of ships-of-war of another nation and movements of other vessels should they be of interest,
 - (iii) names or descriptions of any vessels, lighters, barges or similar craft berthing alongside, with the time of arrival and departure and a statement of the purpose of their coming,
 - (iv) damage caused by or to vessels berthing alongside;
 - (c) *when proceeding to or on arrival from sea*
 - (i) times of weighing or slipping and proceeding,
 - (ii) times of anchorage or mooring the ship, giving depth of water, amount of cable veered and position by bearings of each anchor; and of securing the ship to a wharf or buoy,
 - (iii) the draught of water, fore and aft, before sailing and on arrival in harbour,
 - (iv) times of embarking and disembarking a pilot,
 - (v) if a pilot is relieved of his duties, the time the action was taken;
 - (d) *when at sea*
 - (i) meeting or finding at anchor of any ship of Her Majesty's forces, a ship of war of another nation, and any other vessel whose presence or movement is of interest,
 - (ii) every occurrence connected with the navigation and pilotage of the ship,
 - (iii) all discovered or suspected dangers,
 - (iv) the set and velocity of currents and tidal streams encountered,
 - (v) results of observations made and angles or bearings taken to ascertain the ship's position, currents between noon and noon, and currents experienced on leaving and making land or when running along the land (with the number of hours between observations),
 - (vi) the behaviour of the ship during threatening or stormy weather shall be noted occasionally,
 - (vii) when in company, the position of the leading ships and, if out of station, the particulars concerning all ships involved, if known,
 - (viii) details of aircraft sighted, together with the time of observation (and marks of identification, if known). Movements of aircraft working with the fleet need not be entered unless of unusual interest.
- (3) *Signatures and Initials.* The Ship's Log shall be:
 - (a) initialled by the Officer of the Watch or the Officer of the Day when he is relieved;
 - (b) signed by the
 - (i) Captain weekly,
 - (ii) Senior Officer in Command monthly,
 - (iii) Inspecting Officer at inspections of the ship,
 - (iv) Navigating Officer upon supersession.
- (4) *Corrections.* No erasures shall be made in the Ship's Log. When it is necessary to make a correction, a single line shall be drawn through any error and the necessary entry made. The alteration shall then be initialled by the officer who made the original entry.
- (5) *Inspections.* The Ship's Log shall be inspected by the:
 - (a) Captain weekly; (*See article 45.47—"Inspection of Ship's Books by Captain"*.)
 - (b) Senior Officer in Command monthly;
 - (c) Inspecting Officer at inspections of the ship. (*See article 45.46—"Inspection of Ship's Books by Senior Officer in Command"*.)
- (6) *Disposal.* The Ship's Log shall be:
 - (a) Placed in the cover for Current Ship's Log Book (Form C.N.S. 321A) and kept on the bridge or at the gangway when in use;
 - (b) forwarded to the Senior Officer in Command on completion; (*See (3) (b) of this article*)
 - (c) returned to the ship after the Senior Officer in Command has signed it, and placed in the Cover for Completed Ship's Log Books (Form C.N.S. 321B) and retained on board;
 - (d) forwarded to Naval Records Centre, Sydney, N.S., in batches of twelve:
 - (i) commencing on the second anniversary of the first Log of the series, and
 - (ii) annually thereafter.

CNS. 322

SHIP'S LOG BOOK

For use at Sea and in Harbour

1. The Log Book is to be carefully preserved. When in use, it is to be kept in the covers provided. When filled, it is to be taken charge of by the Captain, and, after inspection by the Senior Officer in Command, kept on board for reference, if required. Logs shall be forwarded, in batches of twelve, on the expiration of two years from the first log of the series.

2. The Officer of the Watch is responsible for the Log, and for the due observance of the regulations respecting it; and he is to see that it is properly written up, in pencil, and he will sign it with the initials of his name before he leaves the Deck.

3. The Log reading is to be entered hourly in the column provided for the purpose. In the column marked "Distance Run", the distance through the water for each hour is to be registered according to the judgment of the Officer of the Watch, using the Log readings, their errors, if known and the Revolutions as a guide, with allowances for the wind and sea. When the ship has steered on more than one course during the hour, the distance run on each course must be entered.

4. The Standard or Gyro Compass Course, the Direction and Force of the Wind, the State of the Weather, Sea and Swell, are to be registered at the end of each Watch, and when any change occurs.

5. The corrected Barometric Pressure in millibars and the Air and Sea Temperatures are to be registered at 0400, 0800, 1200, 1600, 2000 and 2400; and in stormy weather the corrected Barometric Pressure in millibars is to be registered every hour. Aneroid barometers should be kept corrected to mean sea-level pressure.

6. In recording the Force of the Wind and State of the Weather, Sea and Swell, the scheme on the facing page is to be adopted.

7. The mean number of revolutions of the Engines per minute is to be registered hourly in the column for that purpose.

8. When in sight of Land, or of any known danger, cross bearings of, or angles between, well-defined objects, should be recorded at frequent intervals, and entered in the Log at least once in each Watch, for the information of the relieving Officers. The time of first sighting, and the bearing of land or any marks, and of first obtaining soundings, with the results, are to be recorded.

9. In the space left for *Remarks*, must be recorded full information on all matters of importance or interest; as detailed in QRCN Article 48.54 of which a copy is printed on this form.

At Sea, the Remarks column should contain all relevant information for working up the position of the ship at any moment, taking into consideration all the data logged on the left-hand page of each day.

PRESENT WEATHER CODE (ww)

If precipitation (drizzle, rain, snow, etc.) is occurring at the ship at the time of the weather observation choose the most appropriate number in the range 50 to 99. If no precipitation is occurring at the ship at the time of the weather observation choose the most appropriate number in the range 00 to 49. ALWAYS USE THE HIGHEST CODE NUMBER APPLICABLE.

00-03 CHANGE OF SKY IN LAST HOUR

- 00 Cloud development not observed
- 01 Clouds becoming less developed
- 02 State of sky on the whole unchanged
- 03 Clouds developing

04-10 HAZE, ETC.

- 04 Smoky
- 05 Dry haze
- 06 Widespread dust
- 07 Dust raised near station } Not for
- 08 Dust devils within last hour } marine use
- 09 Duststorm or sandstorm within last hour
- 10 Mist (visibility 1/2 nautical mile or more)

11-12 SHALLOW FOG

- 11 In patches } Not deeper than 30'
- 12 More or less continuous } at sea or 6' ashore

13-17 PHENOMENA WITHIN SIGHT BUT NOT AT STATION

- 13 Lightning, no thunder heard
- 14 Precip. in sight, not reaching surface at ship
- 15 Precipitation beyond 3 miles, reaching surface
- 16 Precipitation within 3 miles, reaching surface

17-19 PHENOMENA WITHIN LAST HOUR OR AT TIME OF OBSN.

- 17 Thunder heard, but no precipitation at station
- 18 Squall(s)
- 19 Funnel cloud(s)

20-29 PHENOMENA WITHIN HR. BUT NOT AT TIME OF OBSN.

- 20 Drizzle
- 21 Rain
- 22 Snow
- 23 Rain and snow
- 24 Drizzle or rain, freezing
- 25 Shower(s) of rain
- 26 Shower(s) of snow, or of rain and snow

- 27 Shower(s) of hail, or of hail and rain
- 28 Fog
- 29 Thunderstorm, with or without precipitation

30-39 (Not likely to be used in ship reports)

- | | |
|----------------------------------|---------------|
| <i>Slight or moderate</i> | <i>Severe</i> |
| 30 Dust or sandstorm, decreasing | 33 |
| 31 Dust or sandstorm, unchanging | 34 |
| 32 Dust or sandstorm, increasing | 35 |
| 36 Drifting snow, generally low | 37 |
| 38 Blowing snow, generally high | 39 |

40-49 FOG

- 40 Fog at a distance
 - 41 Fog in patches
- | | | |
|------------------------------------|--|----------------------------|
| <i>Sky discernible</i> | <i>Visibility less than 1/2 mi. at time of observation</i> | <i>Sky not discernible</i> |
| 42 Fog, thinning in last hour | | 43 |
| 44 Fog, unchanging in last hour | | 45 |
| 46 Begin'g or thick'g in last hour | | 47 |
| 48 Fog, depositing hard rime | | 49 |

50-59 DRIZZLE (Consists of numerous minute drops)

- | | |
|---------------------|-------------------|
| <i>Intermittent</i> | <i>Continuous</i> |
| 50 Slight drizzle | 51 |
| 52 Moderate drizzle | 53 |
| 54 Thick drizzle | 55 |

- | | |
|---------------------|--------------------------|
| <i>Slight</i> | <i>Moderate or thick</i> |
| 56 Freezing drizzle | 57 |
| 58 Drizzle and rain | 59 |

60-69 RAIN

- | | |
|---------------------|-------------------|
| <i>Intermittent</i> | <i>Continuous</i> |
| 60 Slight rain | 61 |
| 62 Moderate rain | 63 |
| 64 Heavy rain | 65 |
- | | |
|------------------------------|--------------------------|
| <i>Slight</i> | <i>Moderate or heavy</i> |
| 66 Freezing rain | 67 |
| 68 Rain or drizzle with snow | 69 |

70-79 SOLID PRECIPITATION, NOT IN SHOWERS

- | | |
|------------------------------------|-----------------------|
| <i>Intermittent</i> | <i>Continuous</i> |
| 70 Slight snow in flakes | 71 |
| 72 Moderate snow in flakes | 73 |
| 74 Heavy snow in flakes | 75 |
| 76 Ice needles | } With or without fog |
| 77 Granulated snow | |
| 78 Isolated starlike snow crystals | |
| 79 Ice pellets | |

80-84 RAIN SHOWER(S)

- 80 Slight, with or without squalls
- 81 Moderate or heavy, with or without squalls
- 82 Violent, with squalls,
- 83 Slight, mixed with snow
- 84 Moderate or heavy, mixed with snow

85-90 SOLID PRECIPITATION IN SHOWER(S)

- | | |
|--------------------------|--------------------------|
| <i>Slight</i> | <i>Moderate or heavy</i> |
| 85 Snow | 86 |
| 87 Soft or small hail* | 88 |
| 89 Hail* without thunder | 90 |
- (*The hail may be with or without rain or snow)

91-94 THUNDER HEARD DURING PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION (Note, choose numbers 17 or 29 whenever applicable)

- | | |
|---|--|
| 91 Slight rain | } Precipitation occurring at time of observation |
| 92 Moderate or heavy rain | |
| 93 Slight snow and rain, or hail | |
| 94 Moderate or heavy snow and rain, or hail | |

95-99 THUNDERSTORM AT TIME OF OBSERVATION

- | | |
|------------------------------------|--|
| 95 Slight or mdt tstm without hail | } Precipitation occurring at time of obsn. |
| 96 Slight or mdt tstm with hail | |
| 97 Hvy thunderstm without hail | |
| 98 Tstm with dust or sandstorm | |
| 99 Heavy thunderstorm with hail | (Ditto) |

BEAUFORT WIND SCALE AND CORRELATIVE SEA DISTURBANCE TABLE

| Beaufort Scale Number | Mean Wind Speed Knots | Limits of Wind Speed in Knots | Descriptive Terms | Coastal Criterion | Sea Criterion | Approximate Equivalent Sea Disturbance Table in Open Sea* | | ABBREVIATIONS FOR USE IN THE SHIP'S LOG | |
|-----------------------|-----------------------|-------------------------------|----------------------|---|--|---|--|---|---------|
| | | | | | | Probable Mean Height of Waves in Feet† | | NBCD state | NBCD |
| | | | | | | Maximum Height in brackets | | | |
| 0 | 0 | Less than 1 | Calm..... | — | Sea like a mirror..... | | | Abeam | ⊥ |
| 1 | 2 | 1—3 | Light air..... | Sufficient to give good steerage to fishing smacks with the "wind free". | Ripples with the appearance of scales are formed but without foam crests. | —(1/2) | | Alter course | a/c |
| | | | | | | | | Anchor | ⚓ |
| | | | | | | | | As requisite | as req |
| 2 | 5 | 4—6 | Light breeze.... | Fishing smacks with topsails and light canvas, "full and by", make up to 2 knots. | Small wavelets, still short but more pronounced; crests have a glassy appearance and do not break..... | 1/2(1) | | Base course | b/c |
| | | | | | | | | Bearing | bg |
| 3 | 9 | 7—10 | Gentle breeze... | Smacks begin to heel over slightly under topsails and light canvas, make up to 3 knots "full and by". | Large wavelets. Crests begin to break. Foam of glassy appearance. Perhaps scattered white horses..... | 2(3) | | Cable | c |
| | | | | | | | | Cape | Cp |
| | | | | | | | | Cease fire | CF |
| | | | | | | | | Compass | (C) |
| | | | | | | | | Course | co |
| | | | | | | | | Course and speed | co & sp |
| 4 | 13 | 11—16 | Moderate breeze..... | Good working breeze. Smacks heel over considerably on a wind under all sail. | Small waves, becoming longer; fairly frequent white horses..... | 3 1/2(5) | | Dead reckoning position | DR |
| | | | | | | | | Direction finder | D/F |
| | | | | | | | | Distance | dist |
| | | | | | | | | Distance made good | DMG |
| 5 | 19 | 17—21 | Fresh breeze... | Smacks shorten sail. | Moderate waves, taking a more pronounced long form; many white horses are formed. (Chance of some spray) | 6 (8 1/2) | | Estimated position | EP |
| | | | | | | | | Fathom | fm |
| | | | | | | | | Feet | ft |
| | | | | | | | | Fix by any method | fix |
| 6 | 24 | 22—27 | Strong breeze... | Smacks double-reef gaff main-sails. | Large waves begin to form; the white foam crests are more extensive everywhere. (Probably some spray)..... | 9 1/2(13) | | Green, in relative bearing | G |
| | | | | | | | | Harbour | Hbr |
| | | | | | | | | Head | Hd |
| | | | | | | | | High, for gyro error | H |
| | | | | | | | | Hour | Hr |
| 7 | 30 | 28—33 | Moderate gale | Smacks remain in harbour and those at sea lie to. | Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind. (Spindrift begins to be seen) | 13 1/2(19) | | Island | Is |
| | | | | | | | | Jetty | Jty |
| 8 | 37 | 34—40 | Fresh gale..... | Smacks take shelter if possible. | Moderately high waves of greater length; edges of crests break into spindrift. The foam is blown in well-marked streaks along the direction of the wind..... | 18 (25) | | Knot | kt |
| | | | | | | | | Left hand edge | ← |
| | | | | | | | | Light | Lt |
| | | | | | | | | Light Buoy | Lt By |
| | | | | | | | | Light House | Lt Ho |
| | | | | | | | | Light Vessel | Lt Vsl |
| 9 | 44 | 41—47 | Strong gale..... | — | High waves. Dense streaks of foam along the direction of the wind. Sea begins to roll. Spray may affect visibility..... | 23 (32) | | Low, for gyro error | L |
| | | | | | | | | Magnetic | (M) |
| | | | | | | | | Minute | m |
| 10 | 52 | 48—55 | Whole gale..... | — | Very high waves with long overhanging crests. The resulting foam in great patches is blown in dense white streaks along the direction of the wind. On the whole the surface of the sea takes a white appearance. The rolling of the sea becomes heavy and shocklike. Visibility is affected.. | 29 (41) | | Observed Position | OP |
| | | | | | | | | Open fire | OF |
| | | | | | | | | Point | Pt |
| | | | | | | | | Port | pt |
| | | | | | | | | Position | pos |
| 11 | 60 | 56—63 | Storm..... | — | Exceptionally high waves. (Small and medium-sized ships might for a long time be lost to view behind the waves.) The sea is completely covered with long white patches of foam lying along the direction of the wind. Everywhere the edges of the wave crests are blown into froth. Visibility affected..... | 37 (52) | | Radar | Ra |
| | | | | | | | | Radar Beacon | Racon |
| | | | | | | | | Radio Beacon | Ro Bn |
| | | | | | | | | Radio Direction Finder | Ro D/F |
| | | | | | | | | Range | rg |
| | | | | | | | | Red, in relative bearing | R |
| | | | | | | | | Revolution | rev |
| | | | | | | | | Right hand edge | → |
| 12 | 68 | 64—71 | Hurricane..... | — | The air is filled with foam and spray. Sea completely white with driving spray; visibility very seriously affected..... | Over 45 | | Second | sec |
| | | | | | | | | Set course | s/c |
| | | | | | | | | Shackle | sh |
| | | | | | | | | Special Sea Dutymen | SSD |
| | | | | | | | | Speed | sp |
| | | | | | | | | Starboard | st |
| 13 | 76 | 72—80 | | | | | | Transit | ø |
| | | | | | | | | True | (T) |
| 14 | 85 | 81—89 | | | | | | Various | var |
| | | | | | | | | Visibility | vis |
| 15 | 95 | 90—99 | | | | | | Wharf | Whf |
| 16 | 104 | 100—108 | | | | | | Yard | x |
| 17 | 114 | 109—118 | | | | | | Zigzag | ZZ |

* Determined at coast stations for a height of 33 feet above sea level.
† Figures in brackets indicate the probable maximum height reached by about one wave in ten.

* Determined at coast stations for a height of 33 feet above sea level.
† Figures in brackets indicate the probable maximum height reached by about one wave in ten.

NOTES

(1) The Approximate Equivalent Sea Disturbance Table is only intended as a guide to show roughly what may be expected in the open sea remote from land. It should never be used in the reverse way, that is for logging or reporting the state of the sea. In enclosed waters, or when near land with an off-shore wind, wave heights and lengths will be smaller.

(2) Sea Waves are waves caused by the present wind. Swell Waves are waves-originally generated at a distance from the observer and, in general, travel in a direction differing from that of the present wind.
(3) The Height of a Sea or Swell Wave is the vertical distance of the crest above the trough.

VISIBILITY CODE (VV)

| Code figures | |
|--------------|----------------------------|
| 90 | Under 50 yards. |
| 91 | 50 yards. |
| 92 | 200 yards. |
| 93 | 500 yards. |
| 94 | 1000 yards. |
| 95 | 1 Nautical Mile. |
| 96 | 2 Nautical Miles. |
| 97 | 5 Nautical Miles. |
| 98 | 10 Nautical Miles. |
| 99 | 25 Nautical Miles or more. |


NOTE:—If the visibility distance is between two of the distances given in the table use the code figure for the lower distance—e.g. 4 Miles will be coded as 96.

HMCS MAPLELEAF

FRI DAY

1st OF MARCH

| Time | Zone Suffix | Log (Stating type) Electro- magnetic | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|--|---|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | 0000.1 | 0.1 | — | Var | Var | Var | Var | 23°W | | | | | | | | | | | | |
| 0300 | | 0007.4 | 8.0 | 131 | Var | Var | Var | Var | 23°W | | | | | | | | | | | | |
| 0310 | | 0010.3 | 3.0 | | 156 | 156 | 182 | 3°W | | | | | | | | | | | | | |
| 0326 | | 0015 | 4.5 | | 101 | 101 | 127 | 3°W | | | | | | | | | | | | | |
| 0400 | +4 | 0024.5 | 10.0 | 157 | 083 | 083 | 108 | 2°W | 23°W | 6 | 220 | 12 | 4 | 220 | 7 | 96 | 10 | 1000.5 | 18.3 | 16.7 | 14.4 |
| 0450 | | 0039.8 | 15.0 | | 083 | 083 | 108 | 2°W | | | | | | | | | | | | | |
| 0500 | | 0043.1 | 3.0 | 160 | 068 | 068 | 093 | 1°W | 24°W | | | | | | | | | | | | |
| 0600 | | 0061.0 | 18.0 | 160 | 068 | 068 | 093 | 1°W | 24°W | | | | | | | | | | | | |
| 0645 | | 0074.5 | 13.5 | | 068 | 068 | | | | | | | | | | | | | | | |
| 0700 | | 0078.2 | 4.5 | 160 | 068 | 066 | 093 | 1°W | 24°W | | | | | | | | | | | | |
| 0800 | +4 | 0095.4 | 18.0 | 160 | 068 | 066 | 093 | 1°W | 24°W | 8 | 230 | 18 | 5 | 220 | 7 | 95 | 10 | 999.0 | 17.2 | 16.1 | 13.9 |
| 0900 | | 0112.5 | 18.0 | 160 | 068 | 066 | 093 | 1°W | 24°W | 8 | 250 | 23 | 6 | 220 | 8 | 96 | 10 | 995.0 | | | |
| 1000 | | 0130.0 | 18.0 | 160 | 068 | 066 | 094 | 1°W | 25°W | 8 | 250 | 30 | 6 | 240 | 10 | 95 | 10 | 988.5 | | | |
| 1100 | | 0147.3 | 18.0 | 160 | 068 | 066 | 094 | 1°W | 25°W | 8 | 270 | 32 | 6 | 240 | 10 | 94 | 61 | 983.0 | | | |
| 1200 | +4 | 0164.5 | 18.0 | 160 | 068 | 066 | 094 | 1°W | 25°W | 8 | 275 | 26 | 5 | 240 | 8 | 94 | 61 | 986.0 | 16.7 | 16.1 | 13.3 |
| 1203 | | 0165.3 | 0.9 | — | | | | | | | | | | | | | | | | | |
| 1300 | | 0179.5 | 14.3 | 141 | 002 | 000 | 025 | 2°E | 25°W | 8 | 295 | 22 | 5 | 240 | 8 | 94 | 60 | 988.0 | | | |
| 1345 | | 0190.5 | 11.0 | — | — | — | — | — | — | | | | | | | | | | | | |
| 1355 | | 0192.5 | 2.5 | — | 002 | 000 | 025 | 2°E | | | | | | | | | | | | | |
| 1400 | | 0193.5 | 1.0 | 51 | 265 | 263 | 288 | 2°E | 25°W | | | | | | | | | | | | |
| 15 | | 0195.1 | 1.6 | — | Var | Var | Var | Var | 25°W | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1513 | | | | 50 | Var | Var | Var | Var | 25°W | | | | | | | | | | | | |
| 1600 | +4 | 0197.1 | 2.0 | | | | | | | 5 | 320 | 7 | — | — | — | 98 | 01 | 995.0 | 17.2 | 15.6 | 13.9 |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | 3 | 345 | 3 | — | — | — | 98 | 01 | 997.0 | 15.6 | 15.0 | 13.9 |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | +4 | | | | | | | | | 0 | 350 | 2 | — | — | — | 98 | 01 | 999.5 | 15.6 | 15.0 | 13.9 |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | +4 | | | | | | | | | 0 | 000 | 2 | — | — | — | 98 | 00 | 1000.0 | 15.0 | 14.4 | 13.9 |

| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
|--|---|--|--|--|
| | Starboard and 1st of Port Watches. | | 1410  | |
| 200.9 | CPO & PO 1630 - 0755 Tuesday. LS & below 1640 - 0745 " OSUT 1640 - 0100 " WK 1640 - 1015 " | | { Anglican Church Steeple 348°. ← Dominion Coal Jetty 019°. → Old Railway Pt. 106°. Careening Pt. Bw. 142°. | |

19 63

FROM HALIFAX

TO ST. JOHN'S, NFLD.

, OR AT SEA & LOUISBURG.

| REMARKS | | Initials of the Officer of the Watch |
|---|--|--------------------------------------|
| 0001 - Came to immediate notice for steam. | | |
| 0115 - Called the hands. 0145 SSD closed up, assumed NBCD 1. | | |
| 0150 - Tug "Whelp" alongside port side. Singled up. | | |
| 0155 - Slipped, hauled off by tug. Switched on Nav. Lts. 0159 Tug cast off. Proceeded. | | |
| 0203 - $\frac{1}{2}$ c 142° sp. 7 kts. 0211 - a/c 160°. 0221 - a/c 153°. 0229 - a/c 159° sp. 10° kts. SSD secured. | | |
| 0230 - Reverted to NBCD 3. 0242 - a/c 175° sp. 15 kts. 0249 - a/c 156°. | | |
| 0310 - a/c 101° sp. 18 kts. 0326 - Outer Automatic Buoy 1 pt. 1.1 m. (Ra) a/c 083° | | |
| 0450 - { Egg Is. Lt. 350°, 10.45 m. (Ra.) Egg Is. Buoy 000°, 5.7 m. (Ra.) a/c 068° | | |
| 0615 - { Beaver Pt. Lt. 282° Liscombe Is. Lt. 350° | | |
| Current since 0450 - Set 205° - $\frac{1}{4}$ kt. | | |
| 0642 - Sunrise. Switched off Navigation lights Gyro 2° L. by Sun's Amplitude a/c 066° (G). | | |
| 0758 - { Liscombe Is. Lt. 281° Country Is. Lt. 352° | | |
| 0730 - Lifebuoy Sentry exercised. Lifebuoy Alarm tested | | J.E. |
| 0800 - Divisions and prayers. | | |
| 0815 - Hands employed cleaning ship. | | |
| 0930 - Hands employed painting forward messdeck. (WS) and (RP) classes to instruction. | | |
| 1000 - Exercised seaboats crew. | | |
| 1016 - One man suffered broken arm while securing # 4 Carley Float. (ABBN1 - A.N. OTHER - 1234 H). | | |
| 1030 - General Alarm tested. | | |
| 1030 Cape Canso brg. 287° - 17.8 m. (Ra.) | | |
| 1142 - One pair binoculars Patt. # 1900 A., Serial 58274, lost overboard. | | |
| 1203 - a/c 002° sp. 15 kts. | | |
| 1230 - Communications publications correct. | | |
| 1323 - Louisburg Bell Buoy brg. 000° - 7 m. (Ra.) | | |
| 1340 SSD closed up, assumed NBCD 1. | | |
| 1355 - Louisburg Bell Buoy 1 pt. 1 m. (Ra.) a/c 275° sp. 10 knots. | | |
| 1401 - Co. and sp. as reg. for coming to Lt. 1410 Let go pt. Lt. 1415 Came to in 6 fms. with 3 sh. on deck. | | |
| 1420 - SSD secured, Lt. watches set. Remained at immediate notice for steam. | | |
| 1430 - Hands to General Payment. | | |
| 1500 - SSD closed up. 1508 - Shortened in to 1 sh. on deck. | | |
| 1513 Weighed and proceeded. Co. & sp. as reg. to berth alongside. | | P.J. |
| 1530 - Secured alongside Sydney & Louisburg Railway Wharf pt. side to. Reverted to 2 hour notice for steam. | | |
| 1532 - SSD secured, reverted to NBCD 4. | | |
| 1600 - ABBN1 - A.N. OTHER, 1234 - H. landed to Louisburg General Hospital. | | |
| 1615 - Cleared Lower Deck. Read Warrant # 72. | | |
| 1630 Duty watch to fire drill. | | |
| 1754 - Sunset. | | |
| 1800 - Shore patrol landed. | | |
| 1905 - Sub-Lieutenant P. Smith - O-32414 RCN, joined ship from HMCS "STADACONA". Eight men joined ship from HMCS "STADACONA". | | |
| 2300 - RCAF aircraft reported missing 50 m. SE. Louisburg. Recalled libertymen. | | |
| 2330 - Came to immediate notice for steam. | | |
| 2345 - Shore patrol returned on board. | | |

| Position | Latitude N. | Longitude W. | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|--------------|-----------------|---------|---------|--------|---------------------------------|
| 0800 | 44° 53' 3 | 61° 29' 1 | 0758 (+4) FIX. | Time | Forward | Aft | |
| 1200 | 45° 25' 4 | 59° 58' 8 | 1159 (+4) (Ra.) | 0145 | 12' 5" | 16' 6" | |
| 2000 | ° | ° | | 1425 | 12' 3" | 16' 4" | |

HMCS PROTECTEUR

SUNDAY

1ST OF

SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|--|-------------|--|----------------------------------|--------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 8 | 220 | 10 | | | | 98 | 03 | 1013 | 18.9 | 18.3 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | CALM | | | | | 98 | 02 | 1013 | 17.2 | 16.1 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +3 | | | | | | | | | 4 | 270 | 5 | | | | 98 | 01 | 1013 | 21.7 | 18.9 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 8 | 190 | 10 | | | | 96 | 40 | 1013 | 22.2 | 20.6 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | CALM | | | | | 96 | 02 | 1013 | 21.1 | 19.4 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 7 | 270 | 5 | | | | 96 | 10 | 1014 | 18.9 | 18.3 | |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company PNEED FROM 0900 SUNDAY TO 0755 TUESDAY 3 SEP 74 | | | | | | | | | | Anchor Bearings | | | | | | | | | |

Initials
of the
Officer
of the
Watch

1945 - Rounds Corner
1953 - Sinsor

57B

001170

HMCS PROTECTOR

MON. DAY

2nd OF

SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|--------------------------|---|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 4 | 270 | 10 | | | | 96 | 02 | 1014 | 18.3 | 17.8 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 0 | 310 | 5 | | | | 98 | 01 | 1014 | 18.0 | 17.9 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +3 | | | | | | | | | 7 | CALM | | | | | 98 | 03 | 1014 | 18.3 | 16.7 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 7 | CALM | | | | | 98 | 60 | 1015 | 18.3 | 17.2 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 7 | 010 | 5 | | | | 98 | 02 | 1015 | 17.8 | 15.6 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 8 | 320 | 5 | | | | 97 | 03 | 1016 | 17.3 | 16.7 | |

| | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|--|--|--|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| | ARRIVED FROM 0900 MONDAY TU 0755 TUESDAY | | | | | | | | | | | | | | | | | | | |

19 74

FROM

TO

, OR AT HALIFAX, N.S.

REMARKS

Initials
of the
Officer
of the
Watch

0636 - SUNRISE

0800 - COLONIAL - DUTY WATCH EMPLOYED AT CLEANING STATIONS

S/R

0900 SECURE

1130 EXERCISED EMERGENCY PARTY - FIRE IN SHIPS OFFICE

1920 ROUNDS CORRECT
1951 SUNSET

LW

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|--------------|---------|---------|-----|------------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° ' , | ° ' , | | | | | 12 HOURS |
| 1200 | ° ' , | ° ' , | | | | | |
| 2000 | ° ' , | ° ' , | | | | | |

HMCS PROTECTEUR

TUE'S DAY

3RD OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|--|----------------------------------|-----------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|------------------|-----------------|-------------------------|-----------------------|------------------|-------------------------|------------------------------|---|-----------------------|----------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 8 | 050 | 5 | | | | 98 | 50 | 1015.5 | 16.1 | 15.0 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | 290 | 5 | | | | 98 | 02 | 1015 | 16.1 | 15.0 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +3 | | | | | | | | | 8 | 270 | 5 | | | | 98 | 02 | 1015.5 | 17.2 | 17.0 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 8 | CALM | | | | | 96 | 50 | 1015.5 | 18.9 | 18.3 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | 270 | 6 | | | | 96 | 50 | 1014 | 16.7 | 16.7 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 8 | CALM | | | | | 96 | 20 | 1014 | 18.3 | 17.8 | |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| | | PAUSED FROM 1600 TUESDAY TO 0735 WEDNESDAY | | | | | | | | | | | | | | | | | | | |

Initials
of the
Officer
of the
Watch

REMARKS

0755 TWO MEN JOINED SHIP FROM PORT STE. JEAN
0800 COLOURS

0200 - HANDS EMPLOYED BY DEPARTMENT

1200-RELINQUISHED DUTIES OF SCOPA - CANCOMDESRON ONE ASSUMED SCOPA

1600-
SECURE

1910 - EXERCISED EMERGENCY PTY AT FIRE SYNS - PILOT READY ROOM

1940 - ROUNDS CORRECT

1949-SUNSET

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° ' ' | ° ' ' | | | | | 12 Hours |
| 1200 | ° ' ' | ° ' ' | | | | | |
| 2000 | ° ' ' | ° ' ' | | | | | |

HMCS PROTECTOR

WEDNES DAY

4TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 8 | 050 | 5 | | | | 98 | 50 | 1015.5 | 16.1 | 15 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | 290 | 5 | | | | 98 | 02 | 1015 | 16.1 | 15 | |
| 0838 | | 8337.34 | 0.0 | | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 0900 | | 8337.44 | 0.6 | 0.05 | VAR | VAR | VAR | VAR | 23°W | | | | | | | | | | | | |
| 1000 | | 8349.77 | 12.4 | 62.3 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1005 | | 8351.63 | 1.4 | | 160 | 160 | 179 | 3°E | | | | | | | | | | | | | |
| 1026 | | 8358.29 | 6.1 | 59.4 | 170 | 170 | 189 1/2 | 2 1/2°E | 22°W | | | | | | | | | | | | |
| 1100 | | 8363.52 | 5.5 | | 200 | 200 | 223 | 1°W | 22°W | | | | | | | | | | | | |
| 1100 | | 8367.10 | 3.2 | | 200 | 200 | 223 | 1°W | | | | | | | | | | | | | |
| 1200 | +3 | 8375.93 | 7.1 | 52.9 | 270 | 270 | 292 1/4 | 1 1/4°W | 22°W | 6 | 200 | 15 | 2 | 200 | 4 | 96 | 42 | 1015.5 | 22.1 | 21.1 | 17.2 |
| 1300 | | 8384.83 | 9.3 | 46.4 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1400 | | 8391.50 | 10.4 | 52.2 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1500 | | 8403.32 | 8.0 | 40.2 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1600 | +3 | 8420.39 | 17.7 | 88.5 | VAR | VAR | VAR | VAR | 22°W | 8 | 200 | 15 | 3 | 200 | 4 | 96 | 47 | 1016.0 | 23.9 | 21.1 | 17.2 |
| 1700 | | 8430.00 | 9.6 | 48.0 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1705 | | 8430.01 | 0.0 | 0.0 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | 200 | 15 | | | | 95 | 60 | 1015 | 21.7 | 20.6 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|---|---|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | PORFD FROM SECURE WEDNESDAY TO 0755 THURSDAY | | | |
| 91.3 | | | | |

19.74 FROM HALIFAX

TO SEA

, OR AT HALIFAX

REMARKS

Initials
of the
Officer
of the
Watch

0639 - SUNRISE

0745 - EMBARKED 88 RAC CADETS FOR "SHOP WINDOW"
0800 - COLOURS HANDS TO STATIONS FOR LEANING AND BOW

0805 - PILOT IN ROSE EMBARKED 0831 - TUG LIFEBUOY
0810 - 550 AND CABLE PARTY CLOSED UP 0831 - SECURED PORT QUARTER
BLIND PILOT FOR WATER CLOSED UP 0831 - SHIP AND PROCEED
RETURNED CONDITION Y 0831 - RETURN AT TUG

0830 - OBSERVE TELEGRAPHS 0842 - COMMENCED TURNING TUG
0908 - A/C 133° 0907 - A/C 200 0913 - TUGS KNOW GUY LIFT
0904 - A/C 135° 0910 - A/C 150° 0916 - COMMENCED FOR SIGNALS
0905 - A/C 150° 0911 - BRKW 1330 0917 - INNER TUG, A/C 150° 0930 - A/C 170°

1005 - A/C 170 1026 - A/C 200. COMMENCED FOR SIGNALS
1010 - RAS 550 CLOSED UP 1035 - MARGAREE COMMENCED TRIAL RAS APPROACH
1020 - CEASED FOR SIGNALS 1040 - MARGAREE COMMENCED TRIAL RAS APPROACH
1024 - SP 12 1040 - MARGAREE COMPLETED TRIAL RAS APPROACH
1025 - SP 10 1040 - MARGAREE RETURNED TO WAITING STATIONS

1112 - COMPLETED RAS - FEELING + SOUND TRANSFER 1138 - MARGAREE ALONGSIDE PORTSIDE
1115 - MARGAREE TOOK STATION 500' ON PORT QUARTER FIRST LINES PAST
1118 - A/C 270. CEASED FOR SIGNALS
1129 - MARGAREE COMMENCED RAS APPROACH 1145 - COMMENCED JACKSTAY TRANSFER

1202 - ALL LINES RECOVERED 1211 - SECURED RAS 550 1254 - A/C 060°
1201 - SP 5 1240 - A/C 105° SP 8
1210 - LOWERED SONAR DOME 1248 - SP 18

1310 - A/C 045° SP 10 1330 - COMMENCED GUN FUNCTIONING TRIALS 1345 - A/C 085° SP 15
1319 - A/C 000° 1336 - A/C 330° 1357 - SP 18
1321 - SP 5 1340 - COMPLETED GUN FUNCTIONING TRIALS 1401 - CO + SP VAS FOR TRIALS

1413 - SP 0 1444 - TRIALS COMPLETED 1455 - A/C 120°
1435 - FLYING STATION 1445 - SET CO OPS SP 12 1500 - RECOVERED SK 09
1442 - RAISED SONAR DOME 1450 - SP 18

1502 - A/C 060° 1512 - SECURED FLYING STATIONS 1531 - A/C 332° 1557 - A/C 328
1508 - A/C 054° 1519 - A/C 350° 1535 - A/C 332° 1557 - CABLE PARTY
1511 - A/C 045° 1523 - A/C 335° 1545 - 550 CLOSED UP 1557 - CABLE PARTY
CLOSED UP

1603 - A/C 355° 1615 - MARGAREE BENCH LIFTED 1620 - SP10 AT PRESENT 1630 - COMMENCED SHOW
1611 - A/C 339° 1616 - SP15 1631 - SP8 1645 - COMMENCED APPROACH
1613 - SP16 1617 - SP12 1631 - SECURED PORT QUARTER 1645 - COMMENCED APPROACH
1614 - A/C 340° 1618 - M.G. RUCY LIFT 1631 - SECURED PORT QUARTER 1645 - COMMENCED APPROACH
1614 - A/C 340° 1618 - M.G. RUCY LIFT 1631 - SECURED PORT QUARTER 1645 - COMMENCED APPROACH

1704 - TUGS SHIPPED 1717 - SECURED 550 CABLE PARTY
1705 - SECURED STATION SIDE TO SETTY 8; FINISHED WITH MAIN ENGINES
1725 - PILOT WASH MARKED
REVERTED TO 12 HRS NES 1730 - RAC CADETS DISEMBARKEED

1945 - ROUNDS CORRECT
1947 - SUNSET

2000 - EXERCISED EMERGENCY PARTY - FLOODING IN SONAR COMPARTMENT

2359 - GUARD OFFICER CHALLENGED AND IDENTIFIED AT BROW

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|-----------------|---------|---------|--------|---------------------------------|
| 0800 | ° | ° | | Time | Forward | Aft | |
| 1200 | 44° 13.3N | 63° 42.9W | 1200 (+3) DECCA | 0800 | 30' 2" | 32' 4" | STEERING |
| 2000 | ° | ° | | 1710 | 30' 1" | 32' 3" | |

HMCS PROTECTOR

THURSDAY

5TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|---|----------------------------------|-----------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|-----------------------|----------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 8 | 360 | 20 | | | | 96 | 63 | 1014 | 16.1 | 15.6 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 6 | 360 | 25 | | | | 97 | 01 | 1015 | 13.9 | 11.7 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +3 | | | | | | | | | 6 | 000 | 20 | | | | 98 | 02 | 1021 | 16.1 | 13.9 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 1 | 360 | 20 | | | | 98 | 01 | 1024 | 18.9 | 14.4 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 1 | 020 | 10 | | | | 98 | 02 | 1024 | 15.6 | 14.4 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 1 | CALM | | | | | 98 | 02 | 1028 | 14.4 | 12.2 | |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| | | PERSONNEL NOT REQUIRED FOR DUTY FROM 1600 THURSDAY TO 0755 WEDNESDAY FRIDAY | | | | | | | | | | | | | | | | | | | |

19 74 FROM

TO

, OR AT HALIFAX

REMARKS

Initials
of the
Officer
of the
Watch

0641 - SUNRISE

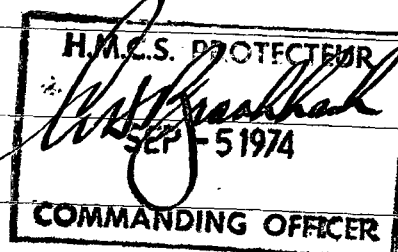
0800 - COLOURS - HANDS EMPLOYED AT CLEANING STATIONS

0900 HANDS EMPLOYED BY DEPARTMENTS

1600 SECURED

1748 EXERCISED FIRE STATIONS JPS FUELLING COMPARTMENT

1940 ROUNDS CORRECT
1946 SUNSET



| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° ' , | ° ' , | | | | | |
| 1200 | ° ' , | ° ' , | | | | | |
| 2000 | ° ' , | ° ' , | | | | | |

12 HOURS

HMCS PROTECTEUR

FRI DAY

6TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revns. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|---------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 1 | CALM | | | | | 97 | 02 | 1020 | 13.9 | 12.2 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 7 | CALM | | | | | 97 | 03 | 1029 | 12.2 | 10.6 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | 13 | | | | | | | | | 3 | CALM | | | | | 98 | 01 | 1029 | 16.1 | 13.9 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 8 | 270 | 5 | | | | 98 | 03 | 1029.5 | 18.2 | 15.6 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | 270 | 5 | | | | 98 | 02 | 1030.0 | 16.7 | 15.6 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 4 | CALM | | | | | 98 | 01 | 1029.0 | 15.6 | 14.4 | |

Distance run
through the Water
Midnight to
Midnight

Leave Granted to Ship's Company

PNRFD From 0925 Fri 6 Sept
to 0755 Sat Sun 8 Sept

Anchor Bearings

HMCS PROTECTEUR

SATUR DAY

7th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|--|---------------------------------|--------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|------------------|-----------------|-------------------------|-----------------------|------------------|-------------------------|------------------------------|--|-----------------------|----------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 7 | CALM | | | | | 98 | 03 | 1027 | 15.6 | 14.4 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | CALM | | | | | 98 | 02 | 1025 | 15.6 | 14.4 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +3 | | | | | | | | | 8 | 270 | 5 | | | | 98 | 50 | 1024 | 15.0 | 15.0 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 8 | 270 | 5 | | | | 98 | 63 | 1020 | 15.6 | 15.6 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 6 | 270 | 5 | | | | 98 | 01 | 1019 | 15.0 | 11.1 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 4 | 290 | 5 | | | | 98 | 01 | 1017 | 13.9 | 13.3 | |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| | | PERSONNEL NOT REQUIRED FOR DUTY FROM 0700 SATURDAY UNTIL 0800 SUNDAY | | | | | | | | | | | | | | | | | | | |

19 74

FROM

TO

, OR AT HALIFAX

REMARKS

Initials
of the
Officer
of the
Watch

s.19(1)

0643 SUNRISE

0800 COLOURS DUTY WATCH EMPLOYED AT CLEANING STATIONS

0900 - SECURED FRIDAY'S DUTY WATCH

1935- ROUNDS CORRECT

1942- SUNSET

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|--------------|---------|---------|-----|------------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° / | ° / | | | | | 12 HOURS |
| 1200 | ° / | ° / | | | | | |
| 2000 | ° / | ° / | | | | | |

HMCS PROTECTOR

SUN DAY

8TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|---------------------------------|----------------------------------|-----------------------|-------------|---------------------|-------------------------|------------|-----------|------------------------|------------------|-----------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 4 | 270 | 5 | | | | 98 | 02 | 1017 | 13.9 | 13.2 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 7 | 090 | 5 | | | | 98 | 02 | 1017 | 12.8 | 12.2 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 0930 | | 8431.51 | 0.0 | - | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1000 | | 8434.75 | 2.9 | 18.8 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1100 | | 8449.45 | 14.8 | 76.7 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1200 | +3 | 8463.40 | 13.8 | 68.2 | VAR | VAR | VAR | VAR | 22°W | 8 | 055 | 12 | 3 | 100 | 2 | 98 | 02 | 1021.5 | 18.3 | 15.6 | 16.7 |
| 1300 | | 8474.99 | 11.6 | 57.0 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | |
| 1400 | | 8485.90 | 9.9 | 48.9 | 180 | 180 | 201 | 1°E | 22°W | | | | | | | | | | | | |
| 1500 | | 8497.74 | 12.0 | 59.9 | 180 | 180 | 201 | 1°E | 22°W | | | | | | | | | | | | |
| 1600 | +3 | 8499.23 8511.80 | 1.5 12.3 | 180 68.6 | 180 030 | 180 030 | 201 063 | 1°E 1°W | 22°W | 3 | 040 | 12 | 1 | 120 | 3 | 98 | 01 | 1021.5 | 21.1 | 13.3 | 16.7 |
| 1700 | | 8526.72 | 14.9 | 73.5 | 175 | 175 | 196 | 1°E | 22°W | | | | | | | | | | | | |
| 1800 | +3 | 8541.84 | 15.1 | 73.7 | 175 | 175 | 196 | 1°E | 22°W | 4 | 175 | 2 | 1 | 050 | 6 | 98 | 02 | 1022.0 | 20.0 | 15.6 | 16.7 |
| 1900 | | 8555.87 | 14.5 | 73.6 | 175 | 175 | 196 | 1°E | 22°W | | | | | | | | | | | | |
| 2000 | +3 | 8573.00 | 14.3 | 75.0 | 175 | 175 | 196 | 1°E | 22°W | 6 | 175 | 2 | 1 | 040 | 3 | 98 | 02 | 1022.0 | 18.3 | 15.6 | 17.2 |
| 2100 | | 8587.90 | 14.90 | 73.5 | 175 | 175 | 196 | 1°E | 22°W | | | | | | | | | | | | |
| 2200 | | 8603.51 | 15.61 | 73.5 | 175 | 175 | 196 | 1°E | 22°W | | | | | | | | | | | | |
| 2300 | | 8618.28 | 14.77 | 70.9 | 175 | 175 | 196 | 1°E | 22°W | | | | | | | | | | | | |
| 2400 | +3 | 8633.31 | 15.03 | 68.9 | 175 | 175 | 196 | 1°E | 22°W | 6 | 175 | 2 | 1 | 040 | 3 | 98 | 02 | 1022.5 | 16.7 | 14.4 | 17.2 |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| 197.8 | | | | | | | | | | | | | | | | | | | | | |

1974 FROM

TO

OR AT

REMARKS

Initials
of the
Officer
of the
Watch

0644-SUNRISE

0800- COLOURS HANDS EMPLOYED PREPARING FOR SEA

0800- PILOT NR RISE

0830- CAME TO 1 AN NFS

0845- PILOT NR ROSE ONBOARD

0915- SSB AND CABLE CLOSED UP

0925- BOTH MACHS READY FOR

0930- CAME T IMMEDIATE NFS

1001- SPIG

1002- PT PLEASANT SNOW

1004- A/C 150

1009- MACHS BEHAT LAT

1101- SPIG

1103- A/C 156

1111- A/C 230

1116- SPIG

1210- A/C 040

1217- A/C 080

1225- A/C 130

1400- RAS STATIONS

1430- SP 14KTS

1500- IRAGUOS COMMENCED RAS APPROACH

1508- JLG 030

1516- FIRST LINE ACROSS

1535- FLYING STATIONS

1615- SH 13 LAUNCHED TO AND SHEARWATER

1622- 57000 DOWN FLYING STAS

1700- FLYING STATIONS

1735- SH 13 RECOVERED ON BOARD

1745- SECURED FLYING STATIONS

1935- SUNSET - GYRO COMPASS BY BEARING AMPLITUDE

1940- MACHS SWITCHED OFF

2029- DECCA

2123- DECCA

2230- SP 14KTS

2235- DECCA

2333- DECCA

2335- DECCA

2337- DECCA

2339- DECCA

2341- DECCA

2343- DECCA

2345- DECCA

2347- DECCA

2349- DECCA

2351- DECCA

2353- DECCA

2355- DECCA

2357- DECCA

2359- DECCA

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3101- DECCA

3103- DECCA

3105- DECCA

3107- DECCA

3109- DECCA

3111- DECCA

3113- DECCA

3115- DECCA

311

HMCS PROTECTEUR

MONDAY

9TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 8648.02 | 14.71 | 68.7 | 175 | 175 | 196 | 1°E | 22W | | | | | | | | | | | | |
| 0200 | | 8663.33 | 15.31 | 68.8 | 175 | 175 | 196 | 1°E | 22W | | | | | | | | | | | | |
| 0240 | | | | | 175 | 175 | 196 | 1°E | | | | | | | | | | | | | |
| 0300 | | 8677.31 | 13.98 | 68.7 | 110 | 110 | 126 | 3°E | 22W | | | | | | | | | | | | |
| 0314 | | | | | 110 | 110 | 126 | 3°E | | | | | | | | | | | | | |
| 0350 | | | | | 000 | 000 | 022 | 1/2°W | | | | | | | | | | | | | |
| 0400 | +3 | 8685.96 | 8.5 | 42.9 | 090 | 090 | 091 | 1 1/2°E | 22W | 5 | 135 | 12 | 1 | 040 | 5 | 98 | 02 | 1022 | 19.4 | 15.6 | 26.1 |
| 0420 | | 8688.55 | 2.6 | | 090 | 090 | 109 1/2 | 1 1/2°E | | | | | | | | | | | | | |
| 0500 | | 8694.26 | 5.2 | 39.0 | 180 | 180 | 200 | 1°E | 21W | | | | | | | | | | | | |
| 0600 | | 8702.54 | 7.8 | 38.9 | 180 | 180 | 200 | 1°E | 21W | | | | | | | | | | | | |
| 0642 | | 8706.01 | 5.5 | | 180 | 180 | 200 | 1°E | | | | | | | | | | | | | |
| 0700 | | 8711.64 | 2.5 | 40.5 | 000 | 000 | 021 1/2 | 1 1/2°W | 21W | | | | | | | | | | | | |
| 0725 | | 8714.93 | 3.3 | 35.2 | 090 | 090 | 109 1/2 | 1 1/2°E | | | | | | | | | | | | | |
| 0800 | +3 | 8717.11 | 3.7 | 71.5 | 075 | 075 | 095 | 1°E | 21W | 6 | 100 | 6 | 1 | 050 | 4 | 98 | 02 | 1023 | 20.6 | 17.2 | 26.1 |
| 0900 | | 8731.21 | 14.7 | 71.5 | 075 | 075 | 095 | 1°E | 21W | | | | | | | | | | | | |
| 1000 | | 8745.00 | 14.8 | 73.0 | 075 | 075 | 095 | 1°E | 21W | | | | | | | | | | | | |
| 1100 | | 8760.74 | 14.8 | 73.4 | 075 | 075 | 095 | 1°W | 21W | | | | | | | | | | | | |
| 1200 | +3 | 8775.69 | 14.9 | 73.6 | 075 | 075 | 095 | 1°W | 21W | 5 | 090 | 14 | 1 | 050 | 6 | 98 | 01 | 1023.0 | 22.5 | 17.8 | 22.8 |
| 1206 | | | 1.5 | | 055 | 055 | 075 | 1°E | | | | | | | | | | | | | |
| 1300 | | 8790.36 | 13.3 | 73.4 | 075 | 075 | 095 | 1°E | 21W | | | | | | | | | | | | |
| 1400 | | 8805.25 | 14.7 | 73.5 | 075 | 075 | 095 | 1°E | 21W | | | | | | | | | | | | |
| 1500 | | 8820.60 | 14.8 | 73.5 | 075 | 075 | 095 | 1°E | 21W | | | | | | | | | | | | |
| 1600 | +3 | 8836.36 | 14.8 | 73.9 | 075 | 075 | 095 | 1°E | 21W | 2 | 145 | 7 | 2 | 060 | 4 | 98 | 02 | 1023.5 | 23.3 | 17.8 | 26.1 |
| 1700 | | 8849.92 | 13.6 | 73.5 | 075 | 075 | 096 | 1°E | 22W | | | | | | | | | | | | |
| 1800 | +3 | 8864.20 | 13.6 | 73.4 | 075 | 075 | 096 | 1°E | 22W | 1 | 160 | 10 | 1 | 060 | 8 | 98 | 02 | 1023.5 | 22.8 | 17.8 | 21.7 |
| 1900 | | 8879.34 | 14.5 | 73.4 | 075 | 075 | 096 | 1°E | 22W | | | | | | | | | | | | |
| 2000 | +3 | 8894.90 | 15.8 | 73.5 | 075 | 075 | 096 | 1°E | 22W | 1 | 160 | 10 | 1 | 060 | 6 | 98 | 02 | 1024.0 | 22.2 | 17.2 | 21.1 |
| 2100 | | 8909.34 | 15.0 | 75.0 | 075 | 075 | 096 | 1°E | 22W | | | | | | | | | | | | |
| 2200 | | 8924.44 | 14.1 | 69.9 | 075 | 075 | 096 | 1°E | 22W | | | | | | | | | | | | |
| 2300 | | 8939.83 | 14.0 | 68.1 | 075 | 075 | 096 | 1°E | 22W | | | | | | | | | | | | |
| 2400 | +3 | 8955.10 | 15.7 | 76.7 | 075 | 075 | 096 | 1°E | 22W | 0 | 140 | 5 | 1 | 060 | 6 | 98 | 01 | 1024.5 | 18.3 | 15.6 | 26.1 |

Distance run through the Water
Midnight to Midnight

317.7

Leave Granted to Ship's Company

Anchor Bearings

1974 FROM TO , OR AT SEA

| REMARKS | | | | | | | Initials of the Officer of the Watch |
|---|-------------|-------------|-----------------------------|---------|---------|-----|--|
| C0175 SP14 | | | | | | | |
| 0030 { 42° 13' 5" N DECCA { 63° 03' 1" W | | | | | | | |
| 0130 { 41° 56' N DECCA { 63° 00' W | | | | | | | |
| 0230 { 41° 47' N DECCA { 62° 57' W | | | | | | | |
| 0304 - HMCS SKEENA ASSUMED GUIDE 0305 - DETACHED FROM TASK GROUP 508 0814 - 01C 000 | | | | | | | |
| 0340 - 01C 090 | | | | | | | |
| 0420 - 01C 180 | | | | | | | |
| 0421 { 41° 35' N DECCA { 62° 48.5' W | | | | | | | |
| 0539 { 41° 29' N DECCA { 62° 43' W | | | | | | | |
| 0642 - 01C 000 0645 - SUNRISE - GYRO BEAM 4' LOW BY BEARING AMPLITUDE 0700 - 01C 090 | | | | | | | |
| 0630 { 41° 21' N DECCA { 62° 42.5' W | | | | | | | |
| 0725 - 01C 075 SP 5 | | | | | | | |
| 0730 { 41° 20.5' N DECCA { 62° 38.5' W | | | | | | | |
| 2800 SP 15 | | | | | | | |
| 0930 - FLYING STATIONS | | | | | | | |
| 1000 - RAS STATIONS; RAS STD CLOSED UP | | | | | | | |
| 1005 - LAUNCHED SK 13 1008 - FLYING STNS STOOD DOWN 1030 - CONTINUED RAS APPROACHES 1113 - FLYING STATIONS 1114 - LAST LINE SKEENA 1116 - RECOVERED SK 13 | | | | | | | |
| 1036 - FIRST LINE PASSED MARGAREE STD 1042 - FIRST LINE PASSED IROQUOIS PORT 1048 - LAST LINE IROQUOIS 1055 - LAST LINE MARGAREE 1145 - FLYING STNS STOOD DOWN 1150 - FIRST LINE SKEENA PORT (DISTANCE LINE ONLY) 1200 - 01C 070 055 | | | | | | | |
| 1206 - 01C 075 1213 - SKEENA COMPLETED RAS ALONGSIDE + RETURN TO SECTOR SCREEN 1215 - MARGAREE - IROQUOIS COMPLETED RAS APPROACH 1222 - MARGAREE ALONGSIDE STARBOARD 1224 - IROQUOIS ALONGSIDE PORTSIDE 1226 - MARGAREE + IROQUOIS COMPLETED RAS APPROACHES + RETURN TO SECTOR SCREEN | | | | | | | |
| 1200 { 41° 32' N DECCA { 61° 25' W FIX | | | | | | | |
| 1226 SECURED RAS STD 1227 DECCA { 41° 36.5' N 61° 19.0' W | | | | | | | |
| 1311 { 41° 38.0' N DECCA { 61° 06.0' W | | | | | | | |
| 1400 COMMENCED SCREENING WITH MARGAREE | | | | | | | |
| 1450 COMPLETED SCREENING WITH MARGAREE 1455 MARGAREE COMPLETED RAS APPROACH PORTSIDE | | | | | | | |
| 1443 { 41° 44.0' N DECCA { 60° 39.0' W | | | | | | | |
| 1505 MARGAREE ALONGSIDE PORTSIDE 1510 HANDS TO RAFT STATIONS 1515 MARGAREE DEPARTED RAS STATION + TOOK WAITING STATION ON STD QUARTER 1520 MARGAREE COMPLETED RAS APPROACH 1525 SECURED RAFT STATIONS 1530 EMERGENCY FLYING STATIONS 1535 MARGAREE COMPLETED RAS APPROACH + RETURNED TO SECTOR SCREEN 1550 SECURED EMERGENCY FLYING STATIONS FLYING STATIONS STOOD FAST 1600 - SECURED FLYING STATIONS | | | | | | | |
| 1630 - FLYING STATIONS 1635 - RECOVERED SK 05 1652 - LAUNCHED SK 05 1653 - SECURED FLYING STATIONS | | | | | | | |
| 1700 { 41° 51.5' N OMEGA { 59° 55.5' W | | | | | | | |
| 1812 { 41° 56.0' N OMEGA { 59° 36.0' W | | | | | | | |
| 1912 FLYING STN ON DECK TEST RUN 1923 SUNSET 1950 SECURED FLYING STNS | | | | | | | |
| 2000 { 42° 02' N OMEGA { 59° 03' W FIX | | | | | | | |
| 2100 COMPLETED SCREENING EXERCISE 2105 SP 14 | | | | | | | |
| 2210 { 42° 11' N OMEGA { 58° 24' W FIX | | | | | | | |
| 2300 - COMPLETED SCREENING EXERCISE; PROTECTIVE GUIDE THROUGHOUT 2315 - SP 16 | | | | | | | |
| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
| 0800 | 41° 19.5' N | 62° 34.5' W | 0800 (+3) DECCA | Time | Forward | Aft | STEERING |
| 1200 | 41° 32.5' N | 61° 25.0' W | 1200 (+3) DECCA LOGAN OMEGA | | | | |
| 2000 | 42° 02' N | 59° 03' W | 2000 (+3) OMEGA FIX | | | | |

HMCS PROTECTOR

TUES DAY

10th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|-----------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 8472.70 | 15.0 | 79.5 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 0200 | | 8485.20 | 15.0 | 79.4 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 0300 | | 9001.33 | 15.0 | 79.3 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 0400 | +3 | 9017.39 | 15.0 | 79.2 | 075 | 075 | 097 | 1°E | 23°W | 1 | 180 | 15 | 2 | 065 | 4 | 98 | 02 | 1022.5 | 18.3 | 16.1 | 18.9 |
| 0500 | | 9033.18 | 15.8 | 79.2 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 0600 | | 9048.94 | 15.8 | 79.2 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 0700 | | 9065.00 | 16.0 | 79.4 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 0800 | +3 | 9080.55 | 16.8 | 79.5 | 075 | 075 | 097 | 1°E | 23°W | 1 | 200 | 9 | 0 | 065 | 4 | 98 | 02 | 1023 | 21.1 | 18.3 | 18.3 |
| 0900 | | 9096.60 | 16.1 | 79.7 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 1000 | | 9112.14 | 15.6 | 79.2 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 1100 | | 9127.80 | 15.7 | 79.1 | 075 | 075 | 097 | 1°E | 23°W | | | | | | | | | | | | |
| 1200 | +3 | 9143.00 | 15.2 | 79.1 | 075 | 075 | 098 | 1°E | 24°W | 6 | 230 | 18 | 1 | 070 | 4 | 98 | 02 | 1023 | 21.7 | 18.3 | 22.2 |
| 1300 | | 9159.22 | 15.6 | 78.2 | 075 | 075 | 098 | 1°E | 24°W | | | | | | | | | | | | |
| 1400 | | 9174.15 | 15.2 | 78.0 | 075 | 075 | 098 | 1°E | 24°W | | | | | | | | | | | | |
| 1500 | | 9189.20 | 14.6 | 72.8 | 075 | 075 | 098 | 1°E | 24°W | | | | | | | | | | | | |
| 1600 | +3 | 9204.60 | 14.8 | 73.3 | 075 | 075 | 098 | 1°E | 24°W | 5 | 215 | 20 | 3 | 070 | 6 | 98 | 02 | 1022 | 22.2 | 18.3 | 13.9 |
| 1700 | | 9220.00 | 15.4 | 78.7 | VAR | VAR | VAR | VAR | 24°W | | | | | | | | | | | | |
| 1800 | +3 | 9235.84 | 15.5 | 78.1 | 080 | 080 1/2 | 103 | 1°E | 24°W | 7 | 200 | 17 | 2 | 070 | 5 | 98 | 02 | 1021 | 17.2 | 16.1 | 12.8 |
| 1900 | | 9251.44 | 15.6 | 79.3 | VAR | VAR | VAR | VAR | 24°W | | | | | | | | | | | | |
| 2000 | +3 | 9267.32 | 15.9 | 79.2 | 080 | 080 | 103 | 1°E | 24°W | 5 | 205 | 17 | 2 | 070 | 5 | 98 | 02 | 1022 | 16.1 | 15.6 | 15.9 |
| 2100 | | 9283.10 | 15.9 | 79.2 | 080 | 080 | 103 | 1°E | 24°W | | | | | | | | | | | | |
| 2200 | | 9298.74 | 15.9 | 79.2 | 080 | 080 | 103 | 1°E | 24°W | | | | | | | | | | | | |
| 2300 | | 9314.20 | 16.0 | 80.1 | 080 | 080 | 103 | 1°E | 24°W | | | | | | | | | | | | |
| 2400 | +3 | 9330.20 | 15.8 | 80.5 | 080 | 080 | 103 | 1°E | 24°W | 0 | 225 | 17 | 2 | 070 | 5 | 98 | 02 | 1021.5 | 16.9 | 15.6 | 18.0 |

Distance run
through the Water
Midnight to
Midnight

Leave Granted to Ship's Company

Anchor Bearings

373.2

19 74

FROM

TO

OR AT SEA

REMARKS

Initials
of the
Officer
of the
Watch

0001 { 42° 17' N
OMEGA { 57° 53' W

0200 } 42° 25' N
OMEGA { 57° 14' W

0400 { 42° 33' N
OMEGA { 56° 33' W

0600 { 42° 42' N.
OMEGA { 53° 53' W.

0618 - SUNRISE - GYRO ERROR $\frac{1}{2}^{\circ}$ LOW BY AMPLITUDE BEARING

0800 } 42° 50.5' N
OMEGA { 55° 12.0' W

0900 { 42 56 N
0754A { 54 45 W

001 CONDUCTED PAC
0430 FLYING STNS

1010 LAUNDED SKOT
1011 SECURED FLYING STAS
1052. MANAGED NBOD EXERCISE
1042 COMPLETED NBOD EXERCISE

1127 FLYING STNS
1150 RECOVERED SAOT
1155 SECURED FLYING STNS

1110 { 43 06.5N
0426A { 54 05W

1230 { 43° 10' N
OMEGA { 53° 36' W

14.00 { 43° 20' N
27.56A { 52° 54' W

1322 - SP 15
1400 - RAS STATIONS

1410 - RAS SED CLOSED UP
1432 - 1ST LINE PASSED SKEENA STBD
1438 - 1ST LINE PASSED MANAGAGE PORT

| | |
|--|---|
| 1513 - LAST LINE MARGARET PASSED 628 BBL DIST. | 1520 - FLYING STATIONS |
| 1514 - LAST LINE SKEENA PASSED 937 DIST. | 1542 - EXERCISED RAS ALTERATION TO STD |
| 1528 - 1ST LINE PASSED 1800 HOURS STD | 1600 - LAST LINE 1200 HOURS PASSED 1084 BBL DIST. |
| 1601 A/C 120 | 1605 A/C 080 SP 16 |
| 1603 A/C 075 SECURED RAS STD | 1607 SECURED FLYING STATIONS |
| 1604 LAUNCHED SK 13 | |

1545 { 43° 19' N
OMEGA { 52° 29' W

1759 { 43° 28.0' N
OMEGA { 51° 38.0' W

| | |
|------------------|-----------------------------|
| 1838-FLYING STNS | 1848-RECOVERED SK13 |
| 1845-AK 120 | 1852-A/C D80 |
| 1847-SUNSET | 1900-STOOD DOWN FLYING STNS |

1930 - RAS STATIONS
1945 - RAS SSD CLOSED UP
2000 - COMMENCED RAS APPROACH, FRENCH

2000 { 43° 25' N
04500 { 51° 04' W

2005 - 1st LINE PASSED, SKENNA STED / MARGARET PONT 2034 - 1st LINE PASSED IRONHILL STED
 2024 - LAST LINE MARGARET
 2027 - LAST LINE SKENNA 2050 - LAST LINE IRONHILL

2128 - COMPUTER RAS APPROACH EXERCISE
2130 - LUCARD RAS SSA

Q200 { 43° 29' N
04564 { 50° 18' W

2400 { 43° 30.5' N
0456A { 49° 41' W

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 42° 50' 5N | 55° 12' 0W | OMEGA | | | | STEAMING. |
| 1200 | 43° 09' 8 N | 53° 49' 8 W | OMEGA | | | | |
| 2000 | 43° 25' N | 51° 04' W | OMEGA | | | | |

HMCS PROTECTOR

WEDNES DAY

11.24 OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|-------------------------------------|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 9346.13 | 16.0 | 80.7 | 080 | 080 | 103 | 1E | 24W | | | | | | | | | | | | |
| 0200 | | 9362.40 | 16.0 | 80.7 | 080 | 080 | 103 | 1E | 24W | | | | | | | | | | | | |
| 0300 | | 9378.23 | 16.0 | 80.7 | 080 | 080 | 103 | 1E | 24W | | | | | | | | | | | | |
| 0400 | +3 | 9394.13 | 16.0 | 80.6 | 080 | 080 | 103 | 1E | 24W | 1 | 200 | 17 | 2 | 225 | 6 | 98 | 03 | 1020.5 | 12.2 | 11.1 | 15.6 |
| 0500 | | 9409.98 | 16.0 | 80.4 | 080 | 080 | 103 | 1E | 24W | | | | | | | | | | | | |
| 0600 | | 9425.73 | 16.0 | 80.4 | 080 | 080 | 103 | 1E | 24W | | | | | | | | | | | | |
| 0700 | | 9441.80 | 16.0 | 80.2 | 080 | 080 | 103 | 1E | 24W | | | | | | | | | | | | |
| 0800 | +3 | 9458.24 | 16.4 | 85.2 | 070 | 070 | 093 | 1E | 24W | 6 | 220 | 20 | 2 | 240 | 5 | 98 | 03 | 1021.5 | 15.6 | 15.0 | 139 |
| 0900 | | 9475.00 | 16.8 | 84.8 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 1000 | | 9491.54 | 16.5 | 83.8 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 1045 | | | | | 130 | 130 | 151 | 30E | | | | | | | | | | | | | |
| 1047 | | | | | 070 | 070 | 093 | 1E | | | | | | | | | | | | | |
| 1100 | | 9507.64 | 16.1 | 86.6 | 130 | 130 | 151 | 30E | 24W | | | | | | | | | | | | |
| 1105 | | | | | 070 | 070 | 093 | 1E | | | | | | | | | | | | | |
| 1153 | | | | | 130 | 130 | 151 | 30E | | | | | | | | | | | | | |
| 1200 | +3 | 9523.44 | 15.8 | 85.2 | 070 | 070 | 093 | 1E | 24W | 7 | 210 | 20 | 2 | 240 | 5 | 98 | 01 | 1021.5 | 15.6 | 14.4 | 11.1 |
| 1300 | | 9538.00 | 17.0 | 86.7 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 1400 | | 9554.20 | 17.0 | 85.1 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 1500 | | 9572.58 | 17.0 | 85.1 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 1600 | +3 | 9589.30 | 17.0 | 85.2 | 070 | 070 | 093 | 1E | 24W | 8 | 250 | 13 | 2 | 230 | 8 | 96 | 50 | 1020 | 17.2 | 16.7 | 123 |
| 1700 | | 9605.53 | 17.0 | 84.0 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 1800 | +3 | 9622.22 | 17.0 | 85.9 | 070 | 070 | 093 | 1E | 24W | 8 | 250 | 15 | 2 | 230 | 6 | 95 | 63 | 1019.5 | 17.2 | 16.7 | 139 |
| 1900 | | 9638.98 | 17.0 | 85.1 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 2000 | +3 | 9654.32 | 17.0 | 85.2 | 070 | 070 | 093 | 1E | 24W | 8 | 300 | 17 | 2 | 230 | 4 | 95 | 63 | 1019.0 | 17.2 | 16.7 | 139 |
| 2100 | | 9671.66 | 17.1 | 85.2 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 2200 | | 9687.00 | 16.4 | 85.3 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 2300 | | 9704.06 | 17.1 | 85.3 | 070 | 070 | 093 | 1E | 24W | | | | | | | | | | | | |
| 2320 | | 9710.15 | 5.6 | | 070 | 070 | 093 | 1E | | | | | | | | | | | | | |
| 2330 | | 9718.30 | 2.8 | 85.0 | 230 | 230 | 255 | 30E | | | | | | | | | | | | | |
| 2400 | +3 | 9721.40 | 8.5 | | 235 | 235 | 260 | 30E | 24W | 8 | 300 | 8 | 2 | 310 | 5 | 97 | 63 | 1019 | 16.7 | 15.6 | 120 |

Distance run
through the Water
Midnight to
Midnight

397.1

Leave Granted to Ship's Company

Anchor Bearings

1974 FROM **HALIFAX** TO **HAMBURG** , OR AT

| REMARKS | | Initials of the Officer of the Watch |
|---|--|--------------------------------------|
| 0001- RADAR AT STANDBY | | |
| 0200 OMEGA FIX { 43°34'N 48°54'W | | |
| 0330 OMEGA FIX { 43°39'N 48°30'W | | |
| 0546 SUNRISE. NAV LGS SWITCH. OFF | | |
| 0510 OMEGA { 43° 43'N 47° 49'W | | |
| 0630 OMEGA { 43° 49'N 47° 22'W | | |
| 0740 OMEGA { 43° 53'N 46° 52'W | | |
| 0900 OMEGA { 44° 00'N 46° 30'W | | |
| 0914- S/W TO MCR CONTROL 0927- S/W TO BRIDGE CONTROL 1000- FLYING STNS | | |
| 1045- a/c 130 1100- a/c 130 1046- LAUNCHED SK13 1047- a/c 070 1105- a/c 070 1155- a/c 130 1107- STOOD DOWN FLYING STNS 1115- FLYING STNS 1158- RECOVERED SK13 | | |
| 1203- LAUNCHED SK05 1204- a/c 070 1215- STOOD DOWN FLYING STATIONS | | |
| 1230- RAS STATIONS 1345- RAS SET CALLED UP | | |
| 1405- 1st LINE PASSED IROQUOIS STAD 1406- 1st LINE PASSED MARLBOROUGH STAD 1437- LAST LINE MARLBOROUGH PASSED 552 DIST 1500- 1st LINE PASSED SKEENA STAD PASSED 455 DIST 1733- LAST LINE IROQUOIS PASSED 557 DIST | | |
| 1515- FLYING STATIONS 1535- LAUNCHED SK 19 1547- LAST LINE IROQUOIS | | |
| 1615- COMPLETED ENGINE TEST (ON DECK) SK07 1631- COMPLETED ENGINE TEST 1635- SECURED FLYING STNS 1707- BEGAN RADAR TO OPERATE | | |
| 1715- IROQUOIS POSITIONED PORT SIDE 2001 | | |
| 1824 SUNSET. NAV LGS SWD OFF | | |
| 1805 OMEGA { 44° 49'N 43° 01'W | | |
| 1920 OMEGA { 44° 52'N 42° 34'W | | |
| 2100 OMEGA { 45° 09'N 41° 57'W | | |
| 2213 { 45° 15'N 41° 24'W | | |
| 2320 - a/c 230 2330 - a/c 235 | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|-----------------|---------|---------|-----|---------------------------------|
| 0800 | 43° 55'0N | 46° 47'0W | 0740 (+3) OMEGA | Time | Forward | Aft | STEAMING |
| 1200 | 44° 14'5N | 45° 20'0W | 1200 (+3) OMEGA | | | | |
| 2000 | 44° 54'5N | 42° 22'5W | 1920 (+3) OMEGA | | | | |

HMCS PROTECTEUR

THURSDAY

12th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|--------------------------|---|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 9736.70 | 17.1 | 85.7 | VAR | VAR | VAR | VAR | 24°W | | | | | | | | | | | | |
| 0200 | | 9752.90 | 17.5 | 82.6 | 250 | 250 | 275½ | 1½°W | 24°W | | | | | | | | | | | | |
| 0300 | | 9769.43 | 17.0 | 84.8 | 250 | 250 | 275½ | 1½°W | 24°W | | | | | | | | | | | | |
| 0400 | +3 | 9788.65 | 17.0 | 85.4 | 250 | 250 | 275½ | 1½°W | 24°W | 4 | 330 | 10 | 2 | 310 | 5 | 92 | 02 | 1019.0 | 15.0 | 13.3 | 16.7 |
| 0430 | | 9775.45 | 6.8 | | 250 | 250 | 275½ | 1½°W | 24°W | | | | | | | | | | | | |
| 0455 | | 9762.56 | 7.1 | | 030 | 030 | 055 | 1°W | 24°W | | | | | | | | | | | | |
| 0500 | | 9800.60 | 1.1 | 72.2 | 000 | 000 | 025 | 1°W | 24°W | | | | | | | | | | | | |
| 0514 | | 9802.80 | 2.1 | | 000 | 000 | 025 | 1°W | 24°W | | | | | | | | | | | | |
| 0530 | | 9808.30 | 2.5 | | 180 | 180 | 203 | 1°E | 24°W | | | | | | | | | | | | |
| 0600 | | 9810.52 | 2.7 | 45.4 | 335 | 335 | 358 | 1°E | 24°W | | | | | | | | | | | | |
| 0614 | | 9813.529 | 3.0 | | 335 | 335 | 358 | 1°E | 24°W | | | | | | | | | | | | |
| 0633 | | 9817.10 | 3.5 | | 040 | 040 | 065 | 1°W | 24°W | | | | | | | | | | | | |
| 0700 | | 9823.60 | 6.5 | 59.7 | 130 | 130 | 151 | 3°E | 24°W | | | | | | | | | | | | |
| 0730 | | 9830.51 | 7.2 | | 130 | 130 | 151 | 3°E | 24°W | | | | | | | | | | | | |
| 0800 | +3 | 9837.43 | 7.2 | 68.7 | 040 | 040 | 065 | 1°W | 24°W | 6 | 330 | 17 | 2 | 310 | 5 | 98 | 02 | 1021.5 | 15.6 | 12.8 | 16.7 |
| 0900 | | 9851.84 | 13.0 | 64.3 | 024 | 024 | 048½ | 1½°W | 24°W | | | | | | | | | | | | |
| 1000 | | 9866.05 | 13.0 | 64.6 | 024 | 024 | 048½ | 1½°W | 24°W | | | | | | | | | | | | |
| 1033 | | | | | | | | | | | | | | | | | | | | | |
| 1037 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | 9879.53 | 12.1 | 60.6 | VAR | VAR | VAR | VAR | 24°W | | | | | | | | | | | | |
| 1200 | +3 | 9889.10 | 8.2 | 41.8 | 000 | 000 | 024½ | 1½°W | 24°W | 6 | 000 | 6 | - | 310 | 3 | 98 | 01 | 1022.0 | 18.9 | 13.9 | 18.3 |
| 1300 | | 9902.83 | 13.7 | 60.9 | 030 | 030 | 054½ | 1½°W | 24°W | | | | | | | | | | | | |
| 1306 | | | | | 030 | 030 | 054½ | 1½°W | 24°W | | | | | | | | | | | | |
| 1400 | | 9913.68 | 10.8 | 48.3 | 210 | 210 | 235 | ¾°W | 24°W | | | | | | | | | | | | |
| 1409 | | | | | 000 | 000 | 024½ | 1½°W | 24°W | | | | | | | | | | | | |
| 1500 | | 9928.23 | 14.6 | 69.6 | 210 | 210 | 235 | ¾°W | 24°W | | | | | | | | | | | | |
| 1552 | | | | | 000 | 000 | 024½ | 1½°W | 24°W | | | | | | | | | | | | |
| 1600 | +3 | 9944.34 | 16.1 | 80.7 | 025 | 025 | 050 | 1°W | 24°W | 7 | 245 | 8 | 1 | 180 | 2 | 98 | 02 | 1021.5 | 17.8 | 12.2 | 18.9 |
| 1610 | | 9947.05 | 2.8 | | 025 | 025 | 050 | | | | | | | | | | | | | | |
| 1635 | | 9954.13 | 7.1 | | 032 | 032 | 057 | 1°W | 24°W | | | | | | | | | | | | |
| 1700 | | 9960.60 | 7.1 | 85.4 | 026 | 026 | 051 | | | | | | | | | | | | | | |
| 1718 | | 9955.75 | 5.1 | | 026 | 026 | 051 | | | | | | | | | | | | | | |
| 1800 | +3 | 9977.12 | 11.9 | 85.1 | 030 | 030 | 055 | 1°W | 24°W | 8 | 220 | 8 | 1 | 110 | 2 | 98 | 03 | 1021.0 | 15.0 | 12.2 | 18.4 |
| 1900 | +3 | 9993.41 | 17.0 | 85.2 | 030 | 030 | 055 | 1°W | 24°W | | | | | | | | | | | | |
| 2000 | +2 | | | | | | | | | | | | | | | | | | | | |
| 2010 | | 9995.60 | 2.5 | | 030 | 030 | 055 | 1°W | 24°W | | | | | | | | | | | | |
| 2100 | | 0009.70 | 14.5 | 85.2 | 034 | 034 | 059 | 1°W | 24°W | | | | | | | | | | | | |
| 2200 | | 0026.83 | 17.0 | 85.2 | 034 | 034 | 059 | 1°W | 24°W | | | | | | | | | | | | |
| 2300 | | 0043.50 | 17.0 | 85.2 | 034 | 034 | 059 | 1°W | 24°W | | | | | | | | | | | | |
| 2340 | | 0054.24 | 11.7 | | 034 | 034 | 059 | 1°W | 24°W | | | | | | | | | | | | |
| 2348 | | 0056.15 | 1.8 | 85.2 | 255 | 255 | 280½ | 1½°W | 24°W | 8 | 225 | 18 | 1 | 110 | 2 | 98 | 60 | 1018.0 | 13.3 | 12.2 | 14.4 |
| 2400 | +2 | 0057.00 | 3.5 | | 034 | 034 | 059 | 1°W | 24°W | | | | | | | | | | | | |

Distance run
through the Water
Midnight to
Midnight

339.8

Leave Granted to Ship's Company

Anchor Bearings

19 74

FROM

TO

, OR AT

REMARKS

Initials
of the
Officer
of the
Watch

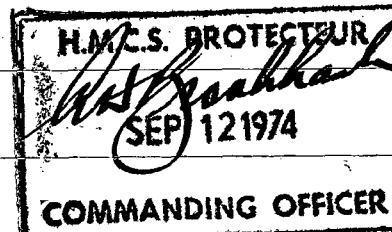
0010 - 216 250°
0025 - 216 280°
0032 - 216 280°

0115 { 45° 02' N
LORAN { 41° 49' W

0309 { 44° 51.5' N
LORAN / OMEGA { 42° 28.0' W

0425 - SIGHTED ~~WAS~~ ~~AT~~ 401, CTF 401 VADA 30 FINNEMAN USN
EMBARKED 401 NEWPORT NEWS, 0100 225 / 401,

0430 - a/c 020 SPIR 0455 - a/c 000°
0502 - SP7 0527 - SUNRISE, NAV LBS SWITCHED OFF
0514 - a/c 180° 0530 - a/c 335°
0525 - SP8
0614 - a/c 040°



0633 - a/c 134 130 SP15

0730 - a/c 040° SP15, ASSUMED G4108 0800 - HANDS EMPLOYED PREPARING TO RBL IROQUOIS A/c 024

0845 RAS SSD CLOSED UP
IROQUOIS TOOK STATION 500' ON STBD. QUARTER

0830 { 45° 28.0' N
OMEGA { 42° 45.0' W

0900 IROQUOIS COMMENCED RAS APPROACH

0903 IROQUOIS ALONGSIDE STBD SIDE 0951 COMPLETED RAS
FIRST LINES FAST IROQUOIS RETURNED TO SECTOR SCREEN

0916 FLYING STATIONS

1032 A/C 070 SP10 1037 A/c 024 SP13 SECURED FLYING STATIONS

1034 SK 03 COMMENCED VERTREP 1053 A/c 000 SP10

1036 SK 03 COMPLETED VERTREP

1114 SP8

1130 { 42° 24' N
DR { 46° 09' W

1200 - RAS SSD CLOSED UP a/c 030 SP14

1224 - 12 FLINETS HMCSS KENNA

1245 - SP12

1248 - SP10

1301 - EXERCISED EMERGENCY BREAKAWAY

1306 - a/c 210

1332 - FLYING STATIONS

1402 - RECOVERED SK05 1412 - SP15

1407 - LAUNCHED SK05 1455 - LAUNCHED SK 07

1409 - a/c 000 SP12 1459 - RECOVERED SK33

1410 - SP14

1502 - LAUNCHED SK33

1505 - STOOD DOWN FLYING STNS 1521 - SP17 - FLYING STNS

1511 - RAS STNS 1525 - 1ST LINE TO HMCSS MARGAREE

1517 - RAS SSD CLOSED UP 1533 - RECOVERED SK07

1533 - RECOVERED SK33

1539 - STOOD DOWN FLYING STNS

1546 - EXERCISED EMERGENCY BREAKAWAY

1548 - SECURED RAS SSD

1552 - a/c 025

1610 - a/c 032°

1615 - FLYING STATIONS

1623 - RECOVERED SK 05

1718 - a/c 030°

1745 - FLYING STATIONS

1700 { 47° 09' N
DR { 41° 58' W

NAV LBS

1806 - SUNSET, SWITCHED ON

1830 - RECOVERED SK17 (KENNA)

1832 - SK17 LAUNCHED

1900 - RECOVERED SK17, CLOCKS ADVANCED TO 2000 (42)

2010 - SECURED FLYING STNS A/C 034

2115 { 47° 13' N
LORAN { 41° 26' W

2245 { 47° 28' N
LORAN { 40° 57' W

2300 FLYING STATIONS

2340 A/c 255

2345 LAUNCHED SK 07

2348 A/c 034

2350 - SECURED FLYING STATIONS

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|------------------|---------|---------|-----|---------------------------------|
| 0800 | 45° 22.0' N | 42° 38.0' W | 0309 OMEGA/LORAN | Time | Forward | Aft | STEAMING |
| 1200 | 42° 30.0' N | 45° 58.5' W | 1130 DR | | | | |
| 2000 | 47° 42.0' N | 41° 33' W | DR | | | | |

HMCS PROTECTEUR

FRI DAY

13TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|--------------------------|---|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 0075.25 | 14.3 | 84.9 | 038 | 038 | 06.3 | 1°W | 24°W | | | | | | | | | | | | |
| 0200 | | 0090.39 | 15.1 | 84.8 | 038 | 038 | 06.3 | 1°W | 24°W | | | | | | | | | | | | |
| 0300 | | 0107.01 | 15.62 | 84.4 | 038 | 038 | 06.3 | 1°W | 24°W | | | | | | | | | | | | |
| 0400 | +2 | 0123.90 | 17.0 | 84.9 | 038 | 038 | 06.3 | 1°W | 24°W | 8 | 220 | 22 | 3 | 110 | 5 | 98 | 02 | 1018 | 13.9 | 12.8 | 15.6 |
| 0500 | | 0139.74 | 16.6 | 83.0 | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 0600 | | 0156.09 | 17.0 | 85.0 | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 0700 | | 0173.09 | 17.0 | 85.0 | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 0800 | +2 | 0188.77 | 17.0 | 85.0 | 038 | 038 | 06.4 | 1°W | 25°W | 8 | 220 | 22 | 3 | 110 | 8 | 97 | 50 | 1010.0 | 12.2 | 11.7 | 15.1 |
| 0900 | | 0204.91 | 16.0 | 85.2 | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 0938 | | 0213.91 | 9.0 | | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 1000 | | 0221.07 | 16.00 | 82.2 | 032 | 032 | 05.8 | 1°W | 25°W | | | | | | | | | | | | |
| 1002 | | 0222.13 | 0.9 | | 032 | 032 | 05.8 | 1°W | 25°W | | | | | | | | | | | | |
| 1013 | | 0224.42 | 2.8 | | 032 | 032 | 05.8 | 1°W | 25°W | | | | | | | | | | | | |
| 1048 | | 0231.72 | 2.8 | | 032 | 032 | 05.8 | 1°W | 25°W | | | | | | | | | | | | |
| 1100 | | 0236.80 | 3.3 | 81.9 | 030 | 030 | 05.6 | 1°W | 25°W | | | | | | | | | | | | |
| 1107 | | 0238.80 | 2.0 | | 030 | 030 | 05.6 | 1°W | 25°W | | | | | | | | | | | | |
| 1200 | +2 | 0253.20 | 14.5 | 84.6 | 037 | 037 | 06.5 | 1°W | 25°W | 8 | 230 | 20 | 12 | 210 | 6 | 97 | 50 | 1004.5 | 15.0 | 13.9 | 11.1 |
| 1300 | | 0269.93 | 17.8 | 84.9 | 037 | 037 | 06.5 | 1°W | 25°W | | | | | | | | | | | | |
| 1400 | | 0285.21 | 15.0 | 74.4 | 037 | 037 | 06.5 | 1°W | 25°W | | | | | | | | | | | | |
| 1400 | | 0289.44 | 4.2 | | 020 | 020 | 04.6 | 1°W | 25°W | | | | | | | | | | | | |
| 1415 | | | 2.8 | | 355 | 355 | 020 1/2 | 1 1/2°W | 25°W | | | | | | | | | | | | |
| 1425 | | 0300.62 | 9.9 | 85.4 | 020 | 020 | 04.6 | 1°W | 25°W | | | | | | | | | | | | |
| 1500 | | | | | 020 | 020 | 04.6 | 1°W | 25°W | | | | | | | | | | | | |
| 1512 | +2 | 0317.13 | 16.5 | 87.2 | 038 | 038 | 06.4 | 1°W | 25°W | 7 | 335 | 20 | 1 | 230 | 5 | 98 | 42 | 1004 | 13.9 | 12.2 | 10.6 |
| 1600 | | | | | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 1640 | | 0333.37 | 16.2 | 83.4 | 045 | 045 | 07.1 | 1°W | 25°W | | | | | | | | | | | | |
| 1700 | | | | | 045 | 045 | 07.1 | 1°W | 25°W | | | | | | | | | | | | |
| 1800 | +2 | 0348.73 | 15.4 | 79.4 | 045 | 045 | 07.1 | 1°W | 25°W | 7 | 336 | 20 | 1 | 230 | 5 | 98 | 80 | 1005 | 13.3 | 12.2 | 10.6 |
| 1900 | | 0363.77 | 15.6 | 78.0 | Var | Var | Var | Var | 25°W | | | | | | | | | | | | |
| 2000 | +2 | 0380.00 | 16.2 | 83.6 | Var | Var | Var | Var | 25°W | 8 | 325 | 23 | 2' | 310 | 6' | 98 | 02 | 1006.5 | 12.2 | 11.1 | 10.6 |
| 2100 | | 0396.24 | 17.8 | 87.6 | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 2111 | | 0398.89 | 2.1 | | 038 | 038 | 06.4 | 1°W | 25°W | | | | | | | | | | | | |
| 2200 | | 0411.66 | 15.9 | 90.1 | 046 | 046 | 07.2 | 1°W | 25°W | | | | | | | | | | | | |
| 2300 | | 0428.00 | 17.5 | 90.2 | 046 | 046 | 07.2 | 1°W | 25°W | | | | | | | | | | | | |
| 2324 | | 0435.20 | 7.1 | | 046 | 046 | 07.2 | 1°W | 25°W | | | | | | | | | | | | |
| 2400 | +2 | 0448.28 | 10.4 | 90.1 | 040 | 040 | 06.6 | 1°W | 25°W | 2 | 325 | 21 | 3 | 330 | 6 | 98 | 01 | 1011.0 | 9.4 | 7.8 | 10.0 |

Distance run
through the Water
Midnight to
Midnight

397.3

Leave Granted to Ship's Company

Anchor Bearings

19 74 FROM HALIFAX N.S. TO HAMBURG, GERMANY , OR AT

REMARKS

Initials
of the
Officer
of the
Watch

0020 { 47°56'N
LORAN { 40°47'W

0609 - SUNSET

0640 { 49°20'N
LORAN { 39°07.5'W

0800 - HANDS EMPLOYED AT CLEANING CYNS (FRIDAY ROUTING)
0805 - ASSUMED GULF

0900 - SP 16
0938 - A/C 032°
0952 - USS AMERICA REPORTED SUBMARINE CONTACT 155/3.2 N FROM PROTECTIVE
1003 - A/C 330°
1013 - A/C 038°
1040 - CANNON'S ROUNDS
1048 - A/C 030°
1107 - SP 17 A/C 037

1300 { 50° 44'N
E.P { 37° 40'W

1334 SP 12
1350 SP 17
1400 A/C 020
1415 SP 18 A/C 355
1425 A/C 024
1430 - TRANSFERRED 2846 BBLs DIST-233 BBLs DIESEL
OIL FM CARGO TO SHIP'S TANKS

1450 { 51° 08'N
E.P { 37° 16'W

1512 A/C 038

1600 - TRANSFERRED FUEL FROM CARGO TO SHIP'S TANKS - 2866 BBLs DISTILLATE + 253 BBLs DIESEL

1640 - A/C 045 SP 16

1640 { 51° 19.9'N
LORAN { 36° 47'W

1725 - RAS STAS
1726 - RAS SBD CLOSED UP
1736 - 12 LINE STD SIDE TO HMCS SKEENA

1800 { 51° 45'N
LORAN/OMEGA { 36° 17'W

1805 - LAST LINE TO HMCS SKEENA PASSED
596 BBLs DISTILLATE & 120 BBLs STS
1807 - SECURED RAS SBD
1811 - A/C 030°
1816 - A/C 038° SP 17
1833 - A/C 020° SP 16
1842 - A/C 025°
1847 - SUNSET
1851 - A/C 250°

1908 - A/C 020°
1909 - A/C 018°
1912 - A/C 030° SP 17
1914 - RAS SBD CLOSED UP & RAS STATIONS
1938 - A/C 038°
1944 - 12 LINE PASSED MARONACH STB

2000 { 52° 10'N
LORAN/OMEGA { 36° 00'W

2015 - LAST LINE MARONACH STB
802 BBLs OF DISTILLATE
2017 SECURED RAS SBD
2033 - SP 18
2035 - DETACHED FROM USS
AMERICA (CT42112)

2111 - A/C 046

2300 { 52° 24'N
LORAN/OMEGA { 34° 55'W

2324 - A/C 040°

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|----------------------|---------|---------|-----|------------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 49° 32' N | 38° 45' W | 0640 LORAN FIX | | | | STEAMING |
| 1200 | 50° 30' N | 38° 00' W | 0640 LORAN FIX | | | | |
| 2000 | 52° 10' N | 36° 00' W | 2000 LORAN/OMEGA FIX | | | | |

HMCS PROTECTEUR

SATUR DAY

14TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0012 | | 0446.33 | 3.6 | | 040 | 040 | 066 | 1°W | | | | | | | | | | | | | |
| 0100 | | 0461.14 | 14.3 | 90.1 | 055 | 055 | 080½ | ½°W | 25°W | | | | | | | | | | | | |
| 0140 | | 0473.20 | 12.0 | | 055 | 055 | 080½ | ½°W | | | | | | | | | | | | | |
| 0200 | | 0479.40 | 6.1 | 90.1 | 100 | 100 | 122½ | 2½°E | 25°W | | | | | | | | | | | | |
| 0300 | | 0495.01 | 18.0 | 90.1 | VAR | VAR | VAR | VAR | 25°W | | | | | | | | | | | | |
| 0303 | | 0496.00 | .9 | | 047 | 047 | 072½ | ½°W | | | | | | | | | | | | | |
| 0400 | +2 | 0512.20 | 17.2 | 90.1 | 055 | 055 | 080½ | ½°W | 25°W | 2 | 325 | 23 | 2 | 330 | 4 | 98 | 02 | 1010.0 | 8.3 | 7.2 | 10.0 |
| 0444 | | | | | 055 | 055 | 080½ | | | | | | | | | | | | | | |
| 0500 | | 0529.22 | 17.0 | 90.1 | 047 | 047 | 072½ | ½°W | 25°W | | | | | | | | | | | | |
| 0600 | | 0545.64 | 16.4 | 90.0 | 047 | 047 | 072½ | ½°W | 25°W | | | | | | | | | | | | |
| 0601 | | | | | 047 | 047 | 072½ | ½°W | | | | | | | | | | | | | |
| 0700 | | 0562.33 | 16.7 | 90.0 | 050 | 050 | 075½ | ½°W | 25°W | | | | | | | | | | | | |
| 0800 | +2 | 0579.30 | 16.5 | 90.1 | 050 | 050 | 075½ | ½°W | 25°W | 4 | 340 | 20 | 3 | 290 | 5 | 98 | 02 | 1013 | 10.6 | 8.6 | 10.0 |
| 0900 | | 0596.60 | 18.0 | 90.1 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1000 | | 0618.00 | 18.0 | 90.0 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1100 | | 0629.20 | 18.0 | 89.9 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1200 | +2 | 0645.90 | 17.9 | 89.4 | 050 | 050 | 074½ | ½°W | 24°W | 5 | 295 | 16 | 2 | 325 | 3 | 98 | 02 | 1015.0 | 15.6 | 12.8 | 10.0 |
| 1300 | | 0668.80 | 17.0 | 89.9 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1400 | | 0679.00 | 17.0 | 89.6 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1500 | | 0696.58 | 17.0 | 89.7 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1600 | +2 | 0713.16 | 17.0 | 89.7 | 050 | 050 | 074½ | ½°W | 24°W | 8 | 300 | 16 | 2 | 300 | 4 | 98 | 03 | 1014.0 | 14.4 | 11.1 | 10.0 |
| 1700 | | 0729.98 | 18.0 | 89.7 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 1800 | +2 | 0746.62 | 18.0 | 89.7 | 050 | 050 | 074½ | ½°W | 24°W | 8 | 245 | 13 | 2 | 320 | 2 | 98 | 02 | 1014.0 | 11.1 | 9.4 | 10.6 |
| 1900 | | 0763.51 | 16.9 | 89.6 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 2000 | +2 | 0774.64 | 17.9 | 89.6 | 050 | 050 | 074½ | ½°W | 24°W | 8 | 230 | 15 | 2 | 320 | 2 | 98 | 02 | 1014 | 11.1 | 9.4 | 10.6 |
| 2100 | | 0791.97 | 17.9 | 89.5 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 2200 | | 0814.11 | 17.9 | 89.5 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 2300 | | 0830.26 | 17.9 | 89.5 | 050 | 050 | 074½ | ½°W | 24°W | | | | | | | | | | | | |
| 2330 | +2 | 0838.25 | 9.0 | 89.5 | 050 | 050 | 074½ | ½°W | 24°W | 8 | 240 | 17 | 2 | 320 | 2 | 98 | 02 | 1014.0 | 10.6 | 9.4 | 10.6 |
| 2400 | | | | | | | | | | | | | | | | | | | | | |

Distance run through the Water Midnight to Midnight

412.1

Leave Granted to Ship's Company

Anchor Bearings

1974

FROM

TO

OR AT

REMARKS

Initials
of the
Officer
of the
Watch

0012 A/C 055

0140 A/C 100
0145 TRAS SSD CLOSED UP

0202 A/C 090 0245 Secured RAS SSD
0207 A/C 070
0224 A/C 047
0303 A/C 055

0310 { 53° 06' N
LORAN { 33° 40' W

0444 - a/c 047
0449 - RAS STNS
0456 - RAS SSD CLOSED UP
0506 - 1st LINE HMCS IROQUOIS 0541 - SECURED RAS SSD
0538 - LAST LINE HMCS IROQUOIS
PASSED 608 bbls of DIESEL
0540 - SUNRISE; NAV LITS S/W OFF
0601 - a/c 050

0645 { 53° 42' N
LORAN { 32° 45' W

1147 { 54° 43' N
Obs Pos { 30° 06.5' W

1315 - FLYING STATIONS 1351 - LAUNCHED SK 07 TO IROQUOIS - BRG 250/45M

1605 - FLYING STATIONS
1622 - RECOVERED SK 07

1707 RECOVERED SK 17

1812 - SUNSET; NAV LITS S/W ON
1836 - FLYING STNS

2030 - LAUNCHED SK 13
2032 - SECURED FLYING STATIONS

2330 (+2) - CLOCKS ADVANCED ONE HOUR TO ZONE (+1)

2310 { 56° 48.5' N
LORAN { 25° 42' W

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|------------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 54° 00' N | 31° 40' W | 0545 LORAN | | | | STEAMING |
| 1200 | 54° 43' N | 30° 02' W | 1147 Obs Pos | | | | |
| 2000 | 56° 22' N | 27° 08' W | 1147 Obs Pos | | | | |

HMCS PROTECTOR

SUNDAY

15TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|---------------------------|------------------|---------------|-------------------------|-----------------------|------------------|-------------------------|------------------------------|---|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | + | 0847.25 | 8.5 | 87.5 | 050 | 050 | 074 | 1W | 23W | | | | | | | | | | | | |
| 0200 | | 0864.02 | 17.2 | 87.6 | 050 | 050 | 074 | 1W | 23W | | | | | | | | | | | | |
| 0200 | | 0879.48 | 15.8 | | 050 | 050 | 074 | 1W | 23W | | | | | | | | | | | | |
| 0300 | | 0880.85 | 1.4 | 90.0 | 085 | 085 | 108 | 0 | 23W | | | | | | | | | | | | |
| 0300 | | 0881.90 | 1.1 | | 085 | 085 | 108 | 0 | 23W | | | | | | | | | | | | |
| 0400 | + | 0898.30 | 10.1 | 89.9 | 050 | 050 | 074 | 1W | 23W | 8 | 200 | 14 | 2 | 320 | 3 | 98 | 02 | 1014.0 | 10.0 | 8.9 | 10.0 |
| 0500 | | 0914.40 | 17.8 | 89.6 | 050 | 050 | 073 | 1W | 22W | | | | | | | | | | | | |
| 0600 | | 0930.79 | 17.9 | 89.7 | 050 | 050 | 073 | 1W | 22W | | | | | | | | | | | | |
| 0700 | | 0947.41 | 17.9 | 89.8 | 050 | 050 | 073 | 1W | 22W | | | | | | | | | | | | |
| 0800 | + | 0964.53 | 16.9 | 89.7 | 050 | 050 | 073 | 1W | 22W | 8 | 175 | 16 | 2 | 280 | 3 | 98 | 02 | 1012 | 10.6 | 8.9 | 10.0 |
| 0900 | | 0981.65 | 17.1 | 89.5 | 050 | 050 | 072 | 1W | 21W | | | | | | | | | | | | |
| 1000 | | 0998.40 | 16.8 | 89.5 | 050 | 050 | 072 | 1W | 21W | | | | | | | | | | | | |
| 1100 | | 1014.95 | 16.6 | 89.6 | 050 | 050 | 072 | 1W | 21W | | | | | | | | | | | | |
| 1200 | + | 1031.71 | 17.9 | 89.6 | 050 | 050 | 072 | 1W | 21W | 8 | 160 | 18 | 2 | 280 | 3 | 98 | 02 | 1011.5 | 10.6 | 9.4 | 11.1 |
| 1300 | | 1048.20 | 17.9 | 89.4 | 050 | 050 | 072 | 1W | 21W | | | | | | | | | | | | |
| 1400 | | 1064.85 | 17.9 | 89.4 | 050 | 050 | 071 | 1W | 20W | | | | | | | | | | | | |
| 1500 | | 1081.98 | 17.9 | 89.5 | 050 | 050 | 071 | 1W | 20W | | | | | | | | | | | | |
| 1600 | + | 1099.51 | 17.9 | 89.6 | 050 | 050 | 071 | 1W | 20W | 8 | 150 | 22 | 3 | 170 | 4 | 98 | 02 | 1009.5 | 10.6 | 10.0 | 11.1 |
| 1700 | | 1115.5 | 17.0 | 89.6 | 050 | 050 | 071 | 1W | 20W | | | | | | | | | | | | |
| 1800 | + | 1131.97 | 17.0 | 89.6 | 050 | 050 | 071 | 1W | 20W | 8 | 150 | 22 | 2 | 130 | 4 | 97 | 53 | 1006.0 | 9.4 | 6.1 | 11.1 |
| 1900 | | 1148.56 | 17.7 | 89.6 | 050 | 050 | 071 | 1W | 20W | | | | | | | | | | | | |
| 2000 | + | 1165.00 | 16.44 | 84.8 | 050 | 050 | 071 | 1W | 20W | 8 | 145 | 25 | 2 | 130 | 4 | 97 | 53 | 1006.0 | 8.9 | 6.1 | 11.1 |
| 2100 | | 1173.84 | 8.8 | 38.8 | 050 | 050 | 070 | 1W | 19W | | | | | | | | | | | | |
| 2200 | | 1182.10 | 8.8 | 38.2 | 050 | 050 | 070 | 1W | 19W | | | | | | | | | | | | |
| 2300 | | 1189.63 | 7.5 | 39 | 050 | 050 | 070 | 1W | 19W | | | | | | | | | | | | |
| 2330 | + | 1192.17 | 3.8 | 39.1 | 050 | 050 | 070 | 1W | 19W | 8 | 145 | 25 | 2 | 130 | 4 | 97 | 5 | 1000 | 9.4 | 9.4 | 10.6 |
| 2400 | | | | | | | | | | | | | | | | | | | | | |

Distance run
through the Water
Midnight to
Midnight

367.1

Leave Granted to Ship's Company

Anchor Bearings

1974 FROM ~~HALIFAX~~ ~~HAMBURG~~ TO HAMBURG

OR AT

| REMARKS | | Initials of the Officer of the Watch |
|--|--|--|
| | | |
| | | |
| | | |
| 0854- a/c 085 | | |
| 0304- a/c 050 | 0330 LORAN { 57° 13' N 24° 30' W | P |
| | 0415 LORAN { 57° 14' N 23° 55' W | |
| | 0540 LORAN { 57° 38' N 23° 22.5' W | |
| 0603 SUNRISE. NAV LGS SWITCHED OFF | 0700 LORAN { 57° 55.5' N 22° 45.0' W | |
| | | R.B. |
| | 0810 LORAN { 58° 07' N 22° 22' W | |
| | | |
| 1055- FLYING STATIONS | | |
| 1200- STOOD DOWN FLYING STATIONS | 1130 LORAN { 58° 40' N 20° 44' W | P |
| | | |
| | 1347 LORAN { 59° 09' N 19° 46' W | |
| 1415- FLYING STATIONS | | |
| 1450- LAUNCHED SK 09 | | |
| 1454- STOOD DOWN FLYING STATIONS | | |
| 1540- FLYING STATIONS | | |
| 1555- REVERSED SK 09 | | |
| 1600- STOOD DOWN FLYING STATIONS | 1650 LORAN { 59° 38' N 18° 26' W | S.B. |
| | | |
| 1838 SUBJECT. NAV LGS. SWITCHED ON | 1805 LORAN { 59° 49' N 17° 56' W | |
| 1950-SP16 1955-SP8 | 2000 LORAN { 60° 10.5' N 17° 04.6' W | R.B. |
| 1952-SP14 | | |
| 1954-SP12 | | |
| | | |
| | | |
| | 2245 LORAN { 60° 25' N 16° 32' W | |
| 2330 -CLOCK ADVANCED ONE HOUR TO TIME ZONE (D) | | P |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|-----------------|---------|---------|-----|------------------------------------|
| 0800 | 58° 04.4' N | 22° 34.5' W | 0700 (+1) LORAN | Time | Forward | Aft | STARTING |
| 1200 | 58° 40.0' N | 20° 58.0' W | 1130 (+1) LORAN | | | | |
| 2000 | 60° 10.5' N | 17° 04.0' W | 2000 (+1) LORAN | | | | |

HMCS PROTECTOR

MON DAY

16th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|-----------------------|---------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | Φ | 1196.30 | 3.9 | 39.1 | 050 | 050 | 070 | 1°W | 19°W | | | | | | | | | | | | |
| 0200 | | 1202.30 | 7.7 | 38.8 | 050 | 050 | 070 | 1°W | 19°W | | | | | | | | | | | | |
| 0300 | | 1207.22 | 7.8 | 39.2 | 050 | 050 | 070 | 1°W | 19°W | | | | | | | | | | | | |
| 0400 | Φ | 1212.64 | 6.3 | 39.2 | 050 | 050 | 070 | 1°W | 19°W | 8 | 145 | 30 | 3 | 130 | 8 | 97 | 50 | 996.0 | 9.9 | 10.0 | 10.6 |
| 0500 | | 1218.13 | 6.0 | 39.2 | 050 | 050 | 070 | 1°W | 19°W | | | | | | | | | | | | |
| 0600 | | 1230.51 | 11.4 | 68.0 | 050 | 050 | 070 | 1°W | 19°W | | | | | | | | | | | | |
| 0610 | | 1232.18 | 1.7 | | 050 | 050 | 070 | 1°W | 19°W | | | | | | | | | | | | |
| 0700 | | 1247.05 | 15.3 | 90.2 | 060 | 060 | 079 | 1°W | 18°W | | | | | | | | | | | | |
| 0800 | Φ | 1251.26 | 17.0 | 89.7 | 060 | 060 | 079 | 1°W | 18°W | 8 | 235 | 36 | 2 | 250 | 6 | 97 | 50 | 990.0 | 11.1 | 11.1 | 10.6 |
| 0900 | | 1258.60 | 17.0 | 89.7 | 060 | 060 | 079 | 1°W | 18°W | | | | | | | | | | | | |
| 1000 | | 1246.81 | 17.0 | 89.5 | VAR | VAR | VAR | VAR | 18°W | | | | | | | | | | | | |
| 1041 | | 1307.26 | 8.2 | | 060 | 060 | 079 | 1°W | | | | | | | | | | | | | |
| 1100 | | 1308.66 | 3.8 | 60.0 | 245 | 245 | 264½ | 1½°W | 18°W | | | | | | | | | | | | |
| 1155 | | 1318.02 | 10.8 | | 245 | 245 | 264½ | 1½°W | | | | | | | | | | | | | |
| 1200 | Φ | 1319.49 | 1.4 | 61.5 | 065 | 065 | 084 | 1°W | 18°W | 6 | 255 | 35 | 4 | 220 | 8 | 98 | 01 | 990.5 | 15.0 | 13.9 | 11.1 |
| 1208 | | 1321.10 | 1.7 | | 065 | 065 | 084 | 1°W | | | | | | | | | | | | | |
| 1300 | | 1329.10 | 10.6 | 62.4 | 245 | 245 | 264½ | 1½°W | 18°W | | | | | | | | | | | | |
| 1400 | | 1339.10 | 10.08 | 64.1 | VAR | VAR | VAR | VAR | 18°W | | | | | | | | | | | | |
| 1500 | | 1354.54 | 15.36 | 75.0 | 065 | 065 | 084 | 1°W | 18°W | | | | | | | | | | | | |
| 1600 | Φ | 1367.28 | 13.41 | 71.0 | 065 | 065 | 084 | 1°W | 18°W | 6 | 230 | 32 | 4 | 220 | 9 | 97 | 02 | 993.5 | 11.7 | 10.6 | 11.1 |
| 1700 | | 1383.20 | 15.0 | 85.4 | 065 | 065 | 084 | 1°W | 18°W | | | | | | | | | | | | |
| 1800 | Φ | 1398.61 | 15.0 | 75.4 | 065 | 065 | 083 | 1°W | 17°W | 7 | 230 | 35 | 4 | 230 | 8 | 98 | 25 | 992.5 | 10.6 | 10.0 | 11.1 |
| 1900 | | 1413.94 | 15.0 | 73.7 | 065 | 065 | 083 | 1°W | 17°W | | | | | | | | | | | | |
| 2000 | Φ | 1429.74 | 15.0 | 73.4 | 065 | 065 | 083 | 1°W | 17°W | 7 | 230 | 33 | 4 | 230 | 10 | 98 | 02 | 992.0 | 10.0 | 9.4 | 11.1 |
| 2100 | | 1444.84 | 14.7 | 72.9 | 065 | 065 | 083 | 1°W | 17°W | | | | | | | | | | | | |
| 2200 | | 1460.92 | 16.1 | 80.5 | 065 | 065 | 083 | 1°W | 17°W | | | | | | | | | | | | |
| 2300 | | 1476.80 | 18.0 | 89.4 | 065 | 065 | 082 | 1°W | 16°W | | | | | | | | | | | | |
| 2400 | Φ | 1493.47 | 16.7 | 89.1 | 065 | 065 | 082 | 1°W | 16°W | 6 | 250 | 32 | 4 | 225 | 9 | 97 | 02 | 991.0 | 10.0 | 10.0 | 11.1 |
| Distance run through the Water Midnight to Midnight | | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | |
| 311.9 | | | | | | | | | | | | | | | | | | | | | |

1974 FROM HALIFAX

TO HAMBURG OR AT

Document disclosed under the Access to Information Act
Document divulgué en vertu de la Loi sur l'accès à l'information

REMARKS

Initials
of the
Officer
of the
Watch0040 { 60° 29' N
LORAN { 16° 25' W0400 { 60° 44' N
LRN { 15° 55' W
FIX0530 - STEAM DRIVEN LUBRICATING OIL PUMP REPAIRED; SP18
0610 - a/c 060°0530 { 60° 53' N
LRN { 15° 33' W
FIX

0635 - SUNRISE; SWITCHED OFF NAV. LYS.

0800 - HANDS EMPLOYED AT CLEANING STNS

0720 { 61° 07' N
LRN { 14° 45' W
FIX0845 { 61° 20' N
LORAN { 14° 00' W0915 - a/c 225°
0939 - a/c 215°
0959 - RAS STATIONS
1000 - a/c 065°1009 - FLYING STATIONS
1031 - RAS 550 CLOSED UP
1041 - a/c 245° SP 101044 - RECOVERED SK 13
1052 - STOOD DOWN FLYING STATIONS
1055 - 122 LINE MARRIAGE TO PORT

1058 - 125 LINE SASEWA TO STBD

1140 - LAST LINE MARRIAGE
1151 - LAST LINE SASEWA
1155 - a/c 065° SP 151200 - FLYING STATIONS
1208 - a/c 245° SP 12
1220 - 125 LINE 120 QUITS TO PORT
1250 - LAUNCHED SK 071130 { 61° 18' N
LORAN { 13° 49' W1318 - LAST LINE 120 QUITS 1335 - a/c 245 SP8 1355 - SECURED FLYING STNS
1320 - a/c 065° SP 15 1342 - RECOVERED SK 06
1322 - SECURED RAS 550 1346 - a/c 120 SP15
1352 - a/c 0651345 { 61° 08' N
LORAN { 14° 04' W1510 - FLYING STNS 1536 - a/c 065 SP15
1530 - a/c 225 SP8 1537 - SECURED FLYING STNS
1535 - LAUNCHED SK051607 { 61° 20' N
LORAN { 13° 06' W1705 { 61° 25' N
LORAN { 12° 40' W

1904

1904 - SUNSET; SWITCHED ON NAV LYS 1934 - DRUNKENED SHIP; NAV LYS SWITCHED OFF.

2033 SP 18

2045 { 61° 46' N
LORAN { 11° 18' W2235 { 61° 59' N
LORAN { 9° 58.0' W

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|---------------|---------|---------|-----|---------------------------------|
| 0800 | 61° 15' N | 19° 15' W | 0720 LRN FIX | Time | Forward | Aft | STEAMING |
| 1200 | 61° 15' N | 13° 56' W | 1130 LORAN | | | | |
| 2000 | 61° 42' N | 11° 18' W | 2000(0) LORAN | | | | |

HMCS PROTECTEUR

TUES DAY

17TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|----------------------|-------------|-----------------------|-------------------------------------|-----------------------------|-------------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0054 0100 | | 150990 | 16.4 | 89.4 | 065 060 | 065 060 | 081 076 | 1°W | 15W | | | | | | | | | | | | |
| 0140 0150 0200 | | 1525.87 | 15.7 | 89.4 | 060 030 060 | 060 030 060 | 076 044 076 | 1°W | 15W | | | | | | | | | | | | |
| 0300 | | 1542.73 | 17.9 | 88.2 | 060 | 060 | 076 | 1°W | 15W | | | | | | | | | | | | |
| 0400 | Ø | 1558.60 | 17.9 | 89.5 | 060 | 060 | 075 | 1°W | 14W | 6 | 190 | 30 | 4 | 225 | 8 | 98 | 03 | 990 | 11.6 | 11.0 | 10.0 |
| 0500 | | 1575.01 | 17.8 | 88.9 | 060 | 060 | 075 | 1°W | 14W | | | | | | | | | | | | |
| 0600 | | 1589.32 | 14.1 | 70.6 | 060 | 060 | 075 | 1°W | 14W | | | | | | | | | | | | |
| 0700 | | 1603.66 | 15.1 | 76.5 | 060 | 060 | 075 | 1°W | 14W | | | | | | | | | | | | |
| 0800 | Ø | 1620.10 | 16.0 | 89.4 | 060 | 060 | 074 | 1°W | 13W | 6 | 185 | 35 | 4 | 190 | 8 | 98 | 02 | 985.0 | 10.6 | 8.8 | 10.0 |
| 0900 | | 1636.50 | 18.5 | 89.6 | 060 | 060 | 073 1/2 | 1/2W | 13W | | | | | | | | | | | | |
| 1000 | | 1652.60 | 17.0 | 85.7 | 060 | 060 | 073 1/2 | 1/2W | 13W | | | | | | | | | | | | |
| 1100 | | 1668.62 | 16.0 | 85.8 | 060 | 060 | 073 1/2 | 1/2W | 13W | | | | | | | | | | | | |
| 1200 | Ø | 1684.66 | 16.5 | 85.6 | 060 | 060 | 072 1/2 | 1/2W | 12W | 7 | 185 | 30 | 4 | 180 | 10 | 98 | 01 | 987.0 | 10.0 | 10.0 | 10.0 |
| 1300 | | 1700.70 | 17.0 | 85.6 | VAR | VAR | VAR | VAR | 12W | | | | | | | | | | | | |
| 1400 | | 1716.76 | 12.4 | 63.1 | 060 | 060 | 071 1/2 | 1/2W | 11W | | | | | | | | | | | | |
| 1500 | | 1728.50 | 12.4 | 63.1 | VAR | VAR | VAR | VAR | 11W | | | | | | | | | | | | |
| 1600 | Ø | 1741.80 | 12.0 | 62.0 | 020 | 020 | 032 | 1°W | 11W | 7 | 185 | 34 | 4 | 150 | 11 | 97 | 02 | 987.5 | 11.7 | 11.7 | 10.0 |
| 1700 | | 1753.99 | 12.0 | 60.1 | 020 | 020 | 032 | 1°W | 11°W | | | | | | | | | | | | |
| 1800 | Ø | 1766.52 | 12.8 | 64.0 | VAR | VAR | VAR | VAR | 11°W | 8 | 200 | 16 | 5 | 140 | 10 | 98 | 02 | 986.5 | 10.0 | 8.9 | 10.6 |
| 1900 | | 1795.90 | 12.2 | 60.8 | 210 | 210 | 222 | 1°W | 11°W | | | | | | | | | | | | |
| 2000 | Ø | 1791.93 | 15.0 | 74.5 | VAR | VAR | VAR | VAR | 11°W | 7 | 210 | 12 | 4 | 140 | 10 | 98 | 02 | 986.0 | 10.0 | 8.9 | 10.6 |
| 2100 | | 1805.37 | 12.0 | 62.5 | 075 | 075 | 086 | 1W | 10W | | | | | | | | | | | | |
| 2200 | | 1817.79 | 12.0 | 60.4 | 075 | 075 | 086 | 1W | 10W | | | | | | | | | | | | |
| 2300 | | 1830.22 | 12.0 | 56.3 | 075 | 075 | 085° | 1W | 9W | | | | | | | | | | | | |
| 2400 | Ø | 1843.1 | 12.0 | 56.7 | 075 | 075 | 085° | 1W | 9W | 4 | 210 | 38 | 3 | 190 | 7 | 98 | 01 | 991.0 | 12.2 | 10.6 | 10.0 |

Distance run
through the Water
Midnight to
Midnight

352.7

Leave Granted to Ship's Company

Anchor Bearings

19 74

FROM HALIFAX

TO HAMBURG

, OR AT

| REMARKS | | Initials of the Officer of the Watch |
|--|--|--|
| 0054 - a/c 060 | 0100 { 62° 16' N LORAN { 08° 38' W | |
| 0140 - a/c 030 | | |
| 0156 - a/c 060 | | |
| | | |
| | 0315 { 62° 29' N RDREN { 07° 31' W | ASP |
| | 0420 { 62° 39' N RADAR { 06° 51' W | |
| 0521 - Sp 12 | 0520 { 62° 44' N RADAR + { 06° 27' W LORAN | |
| 0533 - SUNRISE | | |
| 0625 - Sp 18 | 0700 { 62° 54' N LORAN { 05° 45' W | |
| 0800 - HANDS EMPLOYED AT CLEANING STNS | 0800 { 63° 01' N LRN FIX { 5° 12' W | SB |
| 0858 - SP 17 | 0900 { 63° 11' N LRN FIX { 4° 40' W | |
| | 1000 { 63° 19' N LRN FIX { 04° 08' W | |
| | 1100 { 63° 25' N LRN FIX { 3° 36' W | |
| | | |
| 1230 FLYING STATIONS | | |
| 1236 A/c 030 | 1238 A/c 020 1244 A/c 060 1245 SECURED FLYING STATIONS | |
| | 1355 { 63° 50' N DECCA { 2° 06' W | |
| 1423 A/c 020 Sp 12 | 1445 A/c 020 | |
| 1425 A/c 190 | | |
| 1435 A/c 180 | 1423 { 63° 53' N LORAN { 1° 48' W | |
| | 1555 { 64° 04' N LORAN { 1° 45' W | ReB |
| | | |
| 1710 - a/c 110° | 1755 - a/c 185° | |
| 1730 - RAS STATIONS | 1758 - a/c 210° | |
| 1745 - RAS SSD CLOSED UP | | |
| 1816 - 1st LINE MARGARET STB d | 1857 - SECURED RAS SSD | |
| 1825 - SUNSET | 1900 - a/c 089° Sp 15 | |
| 1852 - LAST LINE MARGARET | | |
| 1905 - a/c 098° Sp 17 | 1920 - a/c 100° | |
| 1912 - a/c 105° | 1935 - a/c 090° 1940 - a/c 095° | |
| | 1946 - SP 11 | |
| | 2000 { 64° 08' N LRN FIX { 0° 46' W | SP |
| | 2100 { 64° 10' N LRN FIX { 0° 14' W | |
| | | |
| | 2300 { 64° 16' N LRN FIX { 0° 31' E | |
| | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|------------|-----------|--------------|---------|---------|-----|------------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 63° 01' N | 5° 12' W | 0800 LRN FIX | | | | STEAMING |
| 1200 | 63° 34' 0N | 2° 58' 0W | 1200 LRN FIX | | | | |
| 2000 | 64° 08' N | 0° 46' W | 2000 LRN FIX | | | | |

HMCS PROTECTEUR

WEDNES DAY

10th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 1856.51 | 11.9 | 59.2 | 075 | 075 | 085 | 1°W | 9°W | | | | | | | | | | | | |
| 0200 | | 1870.89 | 12.3 | 64.2 | 075 | 075 | 085 | 1°W | 9°W | | | | | | | | | | | | |
| 0225 | | | 5.9 | | 075 | 075 | 085 | 1°W | 9°W | | | | | | | | | | | | |
| 0300 | | 1885.00 | 6.2 | 64.4 | 052 | 052 | 061 | 0° | | | | | | | | | | | | | |
| 0322 | | | | | 052 | 052 | 061 | 0° | | | | | | | | | | | | | |
| 0400 | 0 | 1895.5 | 10.50 | 55.7 | 180 | 180 | 180 | 1°E | 9°W | 7 | 285 | 28 | 2 | 190 | 6 | 98 | 02 | 999.6 | 9.4 | 8.3 | 10.6 |
| 0445 | | | | | 180 | 180 | 180 | 1°E | | | | | | | | | | | | | |
| 0500 | | 1903.40 | 7.9 | 51.2 | 120 | 120 | 126 | 2 1/2°E | 9°W | | | | | | | | | | | | |
| 0538 | | | | | 120 | 120 | 126 | 2 1/2°E | | | | | | | | | | | | | |
| 0600 | | 1912.82 | 9.4 | 48.2 | 220 | 220 | 230 | 1 1/4°W | 9°W | | | | | | | | | | | | |
| 0615 | | | | | 220 | 220 | 230 | 1 1/4°W | | | | | | | | | | | | | |
| 0700 | | 1916.70 | 3.9 | 44.7 | 230 | 230 | 240 | 1 1/4°W | 8°W | | | | | | | | | | | | |
| 0708 | | | | | 230 | 230 | 240 | 1 1/4°W | | | | | | | | | | | | | |
| 0717 | | | | | 240 | 240 | 250 | 1 1/2°E | | | | | | | | | | | | | |
| 0800 | 0 | 1926.90 | 10.2 | 62.3 | 065 | 065 | 058 | 1 1/2°E | 8°W | 8 | 285 | 37 | 3 | 270 | 15 | 97 | 02 | 998 | 8.9 | 7.8 | 10.6 |
| 0900 | | 1942.51 | 14.1 | 81.1 | 065 | 065 | 072 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 1000 | | 1958.11 | 14.0 | 80.8 | 065 | 065 | 072 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 1045 | | 1968.44 | 10.5 | | 065 | 065 | 071 1/2 | 1 1/2°E | | | | | | | | | | | | | |
| 1100 | | 1972.48 | 3.5 | 68.6 | 100 | 100 | 105 | 2°E | 7°W | | | | | | | | | | | | |
| 1200 | φ | 1987.26 | 11.1 | 71.5 | 100 | 100 | 105 | 2°E | 7°W | 8 | 280 | 30 | 3 | 290 | 12 | 97 | 02 | 1000.0 | 10.0 | 8.3 | 10.6 |
| 1245 | | 1998.14 | 9.0 | | 100 | 100 | 105 | 2°E | 7°W | | | | | | | | | | | | |
| 1300 | | 2000.56 | 3.0 | 67.6 | 210 | 210 | 210° | 3°E | 7°W | | | | | | | | | | | | |
| 1400 | | 2013.13 | 12.0 | 73.6 | 210 | 210 | 220° | 3°E | 7°W | | | | | | | | | | | | |
| 1500 | | 2026.44 | 14.0 | 78.6 | 210 | 210 | 220° | 3°E | 7°W | | | | | | | | | | | | |
| 1600 | φ | 2040.50 | 14.0 | 74.9 | 210 | 210 | 220° | 3°E | 7°W | 8 | 285 | 28 | 4 | 260 | 12 | 97 | 60 | 1000.0 | 8.3 | 7.2 | 10.0 |
| 1640 | | | | | 210 | 210 | 220 | 3°E | | | | | | | | | | | | | |
| 1649 | | | | | 230 | 230 | 239 1/2 | 2 1/2°E | | | | | | | | | | | | | |
| 1700 | | 2053.14 | 12.7 | 72.3 | 210 | 210 | 220 | 3°E | 7°W | | | | | | | | | | | | |
| 1721 | | | | | 210 | 210 | 220 | 3°E | | | | | | | | | | | | | |
| 1800 | φ | 2065.88 | 12.7 | 73.3 | 220 | 220 | 239 1/2 | 2 1/2°E | 7°W | 6 | 275 | 34 | 4 | 260 | 12 | 98 | 02 | 1010.0 | 8.3 | 6.7 | 10.6 |
| 1900 | | 2078.50 | 12.6 | 75.8 | 220 | 220 | 224 1/2 | 2 1/2°E | 7°W | | | | | | | | | | | | |
| 2000 | φ | 2092.60 | 19.2 | 71.3 | 220 | 220 | 224 1/2 | 2 1/2°E | 7°W | 7 | 270 | 30 | 3 | 260 | 12 | 98 | 02 | 1010 | 8.3 | 6.7 | 10.0 |
| 2100 | | 2105.60 | 19.7 | 73.6 | Var | Var | Var | Var | 7°W | | | | | | | | | | | | |
| 2200 | | 2117.00 | 15.2 | 76.1 | 310 | 310 | 316 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 2300 | | 2124.67 | 14.4 | 72.3 | Var | Var | Var | Var | 8°W | | | | | | | | | | | | |
| 2400 | φ | 2146.00 | 14.4 | 84.4 | 185 | 185 | 192 | 1°E | 8°W | 6 | 265 | 32 | 5 | 260 | 15 | 98 | 60 | 1011.0 | 8.9 | 5.6 | 10.6 |

Distance run through the Water Midnight to Midnight

293.9

Leave Granted to Ship's Company

Anchor Bearings

1974

FROM

HALIFAX

TO

HAMBERG

, OR AT

REMARKS

Initials
of the
Officer
of the
Watch

0025 SP12

0015 DECCA { 64° 22.5' N
01° 05.0' E

0123 DECCA { 64° 25.0' N
1° 36.0' E

0225 A/C 052

0250 DECCA { 64° 32.0' N
2° 18.0' E

0310 SP10
0322 A/C 180

0342 DECCA { 64° 32.6' N
2° 39.0' E

0445- A/C 120

0430 DECCA { 64° 25' N
02° 38' E

0500 - SUNRISE

0530 - A/C 150

0600 - A/C 220

0615 - A/C 220

0650 - SP12

0535 DECCA { 64° 19' N
02° 55' E

0630 DECCA { 64° 13' N
02° 52' E

0708 - A/C 240

0717 - SP14

0729 - A/C 065

0735 DECCA { 64° 12' N
02° 42' E

0937 DECCA { 64° 24.5' N
03° 46' E

1045 - A/C 100

1033 DECCA { 64° 28.5' N
04° 12' E

1131 DECCA { 64° 27.5' N
04° 44' E

1245 - A/C R10

1400 DECCA FIX { 64° 11' N
5° 06' E

1435 - 20 UPPER DECKS MARCHED OUT OF BORDERS

1500 DECCA FIX { 63° 59' N
4° 53' E

1530 DECCA FIX { 63° 59' N
4° 48' E

1640 A/C 230

1649 A/C 210

1657 DECCA { 63° 37' N
4° 57' E

1721 A/C 220

1740 DECCA { 63° 28' N
4° 42' E

1805 - SUNSET

1837 DECCA { 63° 16' N
04° 00' E

1930 DECCA { 63° 09' N
03° 46' E

2012 - A/C 180

2045 - A/C 305

2025 - A/C 150

2048 - SWITCHED ON NAV LIGHTS

2043 - A/C 310 SP19

2144 - SP12

2030 DECCA { 63° 00' N
03° 40' E

2200 - A/C 270

2200 DECCA { 63° 06.5' N
03° 14' E

2217 - A/C 180 SP15

2237 - A/C 185

2219 - A/C 150 SP16

2230 - A/C 190 SP18

2300 DECCA { 62° 57' N
03° 04' E

2400 DECCA FIX { 62° 04' N
03° 02' E

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|----------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 64° 15' N | 02° 58' E | 0800 DECCA FIX | | | | STEAMING |
| 1200 | 64° 27' N | 04° 59' E | 1200 DECCA | | | | |
| 2000 | 63° 03' N | 03° 34' E | 2000 DECCA | | | | |

HMCS PROTECTOR

THURSDAY

19th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|--------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 2162.22 | 16.0 | 88.1 | 185 | 185 | 192° | 1°E | 8°W | | | | | | | | | | | | |
| 0117 | | 2167.14 | 5.5 | | 185 | 185 | 192° | 1°E | 8°W | | | | | | | | | | | | |
| 0158 | | 2177.12 | 10.0 | | 175 | 175 | 182° | 1°E | 8°W | | | | | | | | | | | | |
| 0200 | | 2177.94 | 0.5 | 85.4 | 185 | 185 | 192° | 1°E | 8°W | | | | | | | | | | | | |
| 0300 | | 2194.00 | 17.0 | 82.7 | 185 | 185 | 192 | 1°E | 8°W | | | | | | | | | | | | |
| 0400 | 0 | 2204.23 | 17.0 | 84.3 | 185 | 185 | 192 | 1°E | 8°W | 8 | 230 | 25 | 4 | 260 | 10 | 97 | 03 | 1011.5 | 8.3 | 7.2 | 10.6 |
| 0403 | | 2210.99 | .9 | | 185 | 185 | 192 | 1°E | 8°W | | | | | | | | | | | | |
| 0415 | | 2214.62 | 3.3 | | 220 | 220 | 229 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 0500 | | 2226.13 | 13.9 | 85.1 | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 0530 | | 2233.51 | 6.9 | | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 0600 | | 2238.27 | 6.7 | 68.0 | 310 | 310 | 316 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 0700 | | 2250.94 | 13.0 | 67.9 | 310 | 310 | 316 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 0733 | | | | | 310 | 310 | 316 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 0800 | 0 | 2264.97 | 14.03 | 70.0 | 235 | 235 | 244 | 1 1/4°W | 8°W | 7 | 235 | 18 | 3 | 200 | 10 | 96 | 80 | 1008 | 12.2 | 12.2 | 10.6 |
| 0900 | | 2277.47 | 12.5 | 66.6 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1000 | | 2289.43 | 11.9 | 62.6 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1100 | | 2298.53 | 9.2 | 54.8 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1200 | 0 | 2310.50 | 12.0 | 63.0 | VAR | VAR | VAR | VAR | 8°W | 7 | 230 | 14 | 3 | 230 | 12 | 98 | 60 | 1005 | 12.2 | 11.1 | 11.7 |
| 1300 | | 2321.81 | 15.1 | 75.6 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1400 | | 2337.10 | 15.1 | 75.6 | 040 | 040 | 048 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 1500 | | 2352.92 | 14.7 | 73.3 | 040 | 040 | 048 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 1540 | | 2357.91 | 5.5 | | 040 | 040 | 048 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 1600 | 0 | 2361.70 | 2.6 | 39.7 | 090 | 090 | 096 1/2 | 1 1/2°E | 8°W | 6 | 230 | 18 | 2 | 230 | 6 | 98 | 01 | 1005.0 | 13.3 | 12.2 | 11.1 |
| 1628 | | 2365.44 | 4.0 | | 090 | 090 | 096 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 1700 | | 2370.97 | 4.0 | 37.1 | 250 | 230 | 239° | 1°E | 8°W | | | | | | | | | | | | |
| 1800 | 0 | 2373.52 | 8.0 | 36.2 | VAR | VAR | VAR | VAR | 8°W | 6 | 245 | 18 | 2 | 230 | 5 | 98 | 02 | 1005.0 | 12.2 | 11.1 | 11.1 |
| 1900 | | 2378.61 | 5.1 | 36.2 | 270 | 270 | 278 | 1/4°W | 8°W | | | | | | | | | | | | |
| 2000 | 0 | 2385.65 | 8.0 | 39.5 | 270 | 270 | 278 | 1/4°W | 8°W | 8 | 220 | 8 | 1 | 230 | 6 | 98 | 02 | 1005 | 16.7 | 10.6 | 11.1 |
| 2100 | | 2391.45 | 7.9 | 39.6 | 270 | 270 | 278 | 1/4°W | 8°W | | | | | | | | | | | | |
| 2110 | | 2392.30 | .9 | | 270 | 270 | 278 | 1/4°W | 8°W | | | | | | | | | | | | |
| 2200 | | 2400.12 | 8.0 | 43.3 | 000 | 000 | 008 1/2 | 1/2°W | 8°W | | | | | | | | | | | | |
| 2203 | | 2401.01 | .6 | | 000 | 000 | 008 1/2 | 1/2°W | 8°W | | | | | | | | | | | | |
| 2300 | | 2414.11 | 13.1 | 67.3 | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 2400 | 0 | 2430.60 | 14.9 | 74.2 | 180 | 180 | 187 | 1°E | 8°W | 8 | 335 | 18 | 1 | 230 | 6 | 98 | 02 | 1007 | 9.4 | 8.9 | 11.1 |

Distance run
through the Water
Midnight to
Midnight

300.8

Leave Granted to Ship's Company

Anchor Bearings

19 74

FROM HALIFAX

TO HAMBURG

OR AT

REMARKS

Initials
of the
Officer
of the
Watch

| | | | |
|---|--|------------------------|--|
| 0055- NAVLTS SWITCHED OFF | 0100 DECCA FIX | 62°00'N 3°00'E | |
| 0119- a/c 175 SP17 0158- a/c 185 SP16 | 0200 DECCA FIX | 62°10'N 3°06'E | |
| 0218- SP17 | 0300 DECCA FIX | 61°54'N 3°05'E | |
| | 0400 DECCA FIX | 61°37'N 3°04'E | |
| 0403- a/c 220 0415- a/c 180 0420- SP16 | 0500 DECCA | 61°20'N 3°05'E | |
| 0515- RAS SSD CLOSED UP 0529- SUNRISE 0530- a/c 310 SP 14 | 0536- 1ST LINE SKOTNA PORT 0541- 1ST LINE 1800001 STAD | 61°25'N 02°49'E | |
| 0619- LAST LINE SKOTNA 1080001 dist 0646- LAST LINE 1800001 950666 diesel | 0653- 1ST LINE MAREPAGE STAD | 61°33'N 02°31'E | |
| 0725- LAST LINE MAREPAGE 290666 diesel 0727- a/c 220 0728- SECURED SSD | 0733- a/c 235 SP15 0741- FLYING STATIONS 0800- STOOD DOWN FLYING STATIONS | 61°33'N 02°12'E | |
| 0815- a/c 220 0825- RAS STATIONS - RAS SSD CLOSED UP 0832- a/c 260 SP 14 | 0838- 1ST LINE MAREPAGE STAD 0841- a/c 270 0849- a/c 290 | 61°28'5"N 01°58'0"E | |
| 0903- FLYING STNS 0925- RECOVERED SK 04 0932- STOOD DOWN FLYING STNS 0941- LAST LINE MAREPAGE PASSED 290666 diesel 207666 JPS | 0943- SECURED RAS SSD 0944- a/c 180 SP10 0951- a/c 220 SP11 0959- a/c 180 | 61°29'N 01°50'E | |
| 1005- a/c 230 SP12 1008- a/c 260 1023- SP10 1025- a/c 275 1044- SP15 1045- a/c 280 1047- a/c 260 SP10 1049- a/c 100 1052- a/c 080 | 1035- a/c 245 1055- a/c 080 | 61°29'5"N 01°32'E | |
| 1137- RECOVERED SK 34 | | 61°21'N 01°49'E | |
| 1230- a/c 000 SP12 1240- a/c 020 | 1250- a/c 040 SP 15 | 61°26'N 01°51'E | |
| | | 61°36'N 02°13'E | |
| 1500- SP 8 | | 61°47'N 02°33'E | |
| 1510- FLYING STATIONS 1520- STOOD DOWN FLYING STATIONS 1552- FLYING STATIONS | | 61°50'5"N 02°46'E | |
| 1628- a/c 230 1635- LAUNCHED SK13 | | 61°59'N 2°47'E | |
| 1705- LAUNCHED SK14 1709- FLYING SENS STOOD DOWN 1710- a/c 240 1712- a/c 000 | 1730- FLYING SENS 1734- a/c 270 1749- SK07 RECOVERED 1756- FLYING STNS STOOD DOWN | 61°50'N 2°44'E | |
| | 1757- a/c 270 1759- SUNSET, DARKENED SEA | 61°51'N 02°41'E | |
| | | 61°51'N 02°26'E | |
| 2001- STEERING GEAR BROKEDOWN, STEERING FROM TILLER PLAT 2025- REVERTED TO FORWARD STEERING | 2057 FLYING STATIONS | 61°51'N 2°05'E | |
| 2110- a/c 000 2119- LAUNCHED SK 07 2124- SECURED FLYING STATIONS | 2126 SP 5 2139 FLYING STATIONS SP10 | 61°56'N 2°04'E | |
| 2203- RECOVERED SK 07 2217- a/c 180 SP 15 | | 61°42'N 2°03'E | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|----------------|---------|---------|-----|---------------------------------|
| 0800 | 61° 33' N | 02° 12' E | 0800 DECCA | Time | Forward | Aft | STEAMING. |
| 1200 | 61° 21' N | 01° 37' E | 1200 DECCA | | | | |
| 2000 | 61° 51' N | 02° 17' E | 2000 (0) DECCA | | | | |

HMCS

PROTECTOR

FRI DAY

20TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|-------------------------------------|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 2449.30 | 14.7 | 73.4 | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 0200 | | 2454.44 | 14.3 | 71.4 | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 0230 | | 2463.08 | 3.1 | | 270 | 270 | 278 | 1/2°W | 8°W | | | | | | | | | | | | |
| 0300 | | 2466.23 | 3.3 | 31.9 | 275 | 275 | 283 | 0 | 8°W | | | | | | | | | | | | |
| 0335 | | 2469.88 | 3.4 | | 275 | 275 | 283 | 0 | 8°W | | | | | | | | | | | | |
| 0400 | φ | 2473.00 | 3.3 | 37.0 | 290 | 290 | 297 | 1/2°E | 8°W | 6 | 335 | 13 | 1 | 280 | 6 | 98 | 02 | 1009.0 | 9.1 | 8.9 | 11.1 |
| 0415 | | 2474.5 | 2.1 | | 290 | 290 | 297 | 1/2°E | 8°W | | | | | | | | | | | | |
| 0500 | | 2480.20 | 4.2 | 38.9 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 0600 | | 2484.73 | 6.3 | 38.8 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 0700 | | 2497.30 | 7.8 | 39.0 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 0800 | φ | 2505.23 | 7.8 | 38.9 | 090 | 090 | 097 | 1°E | 8°W | 7 | 275 | 8 | 1 | 280 | 4 | 98 | 02 | 1008.5 | 10.0 | 9.4 | 11.1 |
| 0900 | | 2514.63 | 7.8 | 38.9 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1000 | | 2523.61 | 7.8 | 38.9 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1100 | | 2532.10 | 8.3 | 41.7 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1115 | | 2539.68 | 2.5 | 41.7 71.7 | 270 | 270 | 278 | 1/2°W | 8°W | | | | | | | | | | | | |
| 1200 | φ | 2545.40 | 12.3 | 71.7 12.3 | 310 | 310 | 316 1/2 | 1 1/2°E | 8°W | 8 | 270 | 8 | 1 | 330 | 5 | 97 | 60 | 1010.0 | 10.6 | 9.4 | 11.7 |
| 1207 | | | | | 310 | 310 | 316 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 1300 | | 2562.27 | 16.4 | 88.9 | 000 | 000 | 008 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 1400 | | 2579.00 | 17.7 | 89.8 | 000 | 000 | 008 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 1500 | | 2595.31 | 16.3 | 89.8 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1600 | φ | 2611.74 | 17.2 | 87.2 | VAR | VAR | VAR | VAR | 8°W | 8 | 280 | 13 | 1 | 330 | 5 | 98 | 02 | 1007 | 10.6 | 9.4 | 11.1 |
| 1700 | | 2624.47 | 15.0 | 75.2 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 1800 | φ | 2640.40 | 12.2 | 61.2 | VAR | VAR | VAR | VAR | 8°W | 8 | 245 | 9 | 1 | 245 | 4 | 98 | 02 | 1005.0 | 10.0 | 8.9 | 10.6 |
| 1900 | | 2656.5 | 15.6 | 77.5 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 2000 | φ | 2671.82 | 15.8 | 79.6 | VAR | VAR | VAR | VAR | 8°W | 8 | 245 | 7 | 1 | 250 | 4 | 98 | 02 | 1005.0 | 10.0 | 8.9 | 10.6 |
| 2100 | | 2688.50 | 15.9 | 79.5 | 035 | 035 | 043 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 2144 | | 2699.15 | 11.1 | | 035 | 035 | 043 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 2200 | | 2703.00 | 3.9 | 73.6 | 040 | 040 | 048 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 2220 | | 2706.10 | 2.8 | | 040 | 040 | 048 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 2300 | | 2714.24 | 7.1 | 49.7 | 070 | 070 | 077 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 2330 | | 2718.11 | 4.0 | | 070 | 070 | 077 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 2345 | | 2720.25 | 2.1 | | 045 | 045 | 053 1/2 | 1 1/2°W | 8°W | | | | | | | | | | | | |
| 2400 | φ | 2722.70 | 3.5 | 53.9 | 180 | 180 | 187 | 1°E | 8°W | 8 | 170 | 26 | 1 | 250 | 4 | 98 | 80 | 1000.0 | 10.0 | 8.9 | 11.1 |

Distance run
through the Water
Midnight to
Midnight

Leave Granted to Ship's Company

Anchor Bearings

285.6

1974

FROM HALIFAX

TO HAMBURG

OR AT

| REMARKS | | Initials of the Officer of the Watch |
|---|---------------------------------------|--------------------------------------|
| | 0100 { 61° 21' N DECCA { 02° 04' E | |
| 0130 - 845W 300T | 0200 { 61° 06' N DECCA { 02° 01' E | |
| 0200 - a/c 290° SP 8 | | |
| 0230 - a/c 295° | 0300 { 61° 06' N DECCA { 01° 47' E | |
| 0335 - a/c 240° | 0400 { 61° 07' N DECCA { 01° 33' E | JB |
| 0415 - a/c 090° | 0500 { 61° 07' N DECCA { 1° 34' E | |
| 0530 - SUNRISE | 0600 { 61° 07' N DECCA { 1° 47' E | |
| | 0700 { 61° 07' N DECCA { 2° 08' E | |
| 0800 - HANDS EMPLOYED AT CLEANING STATIONS (FRIDAY ROUTINE) | 0730 { 61° 07' N DECCA { 2° 15' E | JB |
| | 0850 { 61° 08' N DECCA { 02° 40' E | |
| 0940 - Flying Stations | 0930 { 61° 08' N DECCA { 02° 44' E | |
| 1011 - a/c 280° | 1030 - LANNED SK 05 | |
| 1017 - a/c 260° | 1030 - STOOD DOWN FLYING STATIONS | |
| 1021 - RECOVERED SK 05 | 1045 - a/c 290° SP 10 | |
| 1115 - a/c 310° SP 16 | 1118 { 61° 07' N DECCA { 02° 45' E | JB |
| 1207 - a/c 000 SP 10 | 1232 { 61° 22' N DECCA { 02° 27' E | |
| | 1323 { 61° 36' N DECCA { 02° 28' E | |
| 1417 - a/c 330 | 1439 { 61° 51' N DECCA { 02° 21' E | |
| 1431 - a/c 230 | | |
| 1446 - a/c 210 | 1530 { 61° 53' N DECCA { 02° 20' E | JB |
| 1459 - a/c 040 | | |
| 1505 - SP 17 | | |
| 1514 - SP 18 | | |
| 1518 - a/c 220 | | |
| 1525 - a/c 000 | | |
| 1604 - a/c 180° | 1619 { 61° 44' N DECCA { 02° 35' E | |
| 1617 - a/c 290° | | |
| 1642 - SP 19 | 1658 - a/c 245° SP 16 | |
| 1708 - LANNED SK 09 | 1723 - a/c 000° | |
| 1713 - STOOD DOWN FLYING STATIONS | 1735 - STOOD DOWN FLYING STATIONS | |
| 1719 - a/c 310° SP 12 | 1800 - a/c 070° SP 16 | |
| 1801 - SUNSET | 1828 { 61° 56' N DECCA { 3° 19' E | |
| 1808 - SP 16 | | |
| 1819 - a/c 100° | 1851 - a/c 040° | |
| 1906 - a/c 035° | 1855 - a/c 055° | |
| 1917 - a/c 025° | 1900 - a/c 040° | |
| 1920 - a/c 030° | 1925 - a/c 035° | |
| | 1945 - 2ND TA OPERATIONAL | |
| | 2030 { 62° 15' N DECCA { 3° 04' E | |
| 2126 SP 14 | 2108 { 62° 23' N DECCA { 3° 17' E | |
| 2144 a/c 040 | | |
| 2220 a/c 070 SP 8 | 2230 { 62° 37' N DECCA { 3° 45' E | |
| | 2330 { 62° 41' N DECCA { 4° 04' E | JB |
| 2330 a/c 045 | | |
| 2345 a/c 180 SP 14 | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|----------------|---------|---------|-----|---------------------------------|
| 0800 | 61° 07' N | 2° 21' E | 0730 DECCA FIX | Time | Forward | Aft | STEAMING |
| 1200 | 61° 14' N | 2° 29' E | 1200 DECCA | | | | |
| 2000 | 62° 09' N | 2° 53' E | 2000 DECCA FIX | | | | |

HMCS PROTECTOR

SATURDAY

21ST OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|---------------------------------|----------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|-----------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 2736.89 | 14.0 | 54.8 | VAR | VAR | VAR | VAR | 7°W | | | | | | | | | | | | |
| 0200 | | 2746.62 | 9.7 | 45.0 | VAR | VAR | VAR | VAR | 7°W | | | | | | | | | | | | |
| 0255 | | | | | 180 | 180 | 186 | 1°E | | | | | | | | | | | | | |
| 0259 | | | | | 200 | 200 | 206 | | | | | | | | | | | | | | |
| 0300 | | 2752.75 | 6.1 | 45.0 | 220 | 220 | 228 | 8°W | 7°W | | | | | | | | | | | | |
| 0320 | | | | | 220 | 220 | 228 | 8°W | 7°W | | | | | | | | | | | | |
| 0335 | | | | | 320 | 320 | 326 | | | | | | | | | | | | | | |
| 0400 | 0 | 2758.80 | 9.3 | 46.5 | 135 | 135 | 141 1/2 | 2 1/2°E | 7°W | 8 | 170 | 26 | 2- | 250 | 6 | 98 | 02 | 996 | 10.6 | 10.6 | 10.6 |
| 0438 | | 2764.48 | 7.6 | | 135 | 135 | 139 | 3°E | | | | | | | | | | | | | |
| 0500 | | 2767.00 | 7.2 | 55.8 | 320 | 320 | 328 1/2 | 1 1/2°W | 7°W | | | | | | | | | | | | |
| 0550 | | 2780.20 | 14.8 | | 330 | 330 | 338 1/2 | 1 1/2°W | 7°W | | | | | | | | | | | | |
| 0600 | | 2782.45 | 3.0 | 88.9 | 320 | 320 | 328 1/2 | 1 1/2°W | 7°W | | | | | | | | | | | | |
| 0619 | | 2786.48 | 4.2 | | 320 | 320 | 328 1/2 | 1 1/2°W | 7°W | | | | | | | | | | | | |
| 0700 | | 2795.65 | 10.0 | 71.0 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 0800 | 0 | 2810.42 | 14.7 | 93.4 | 180 | 180 | 186 | 1°E | 7°W | 8 | 170 | 32 | 3 | 165 | 10 | 97 | 64 | 991.5 | 11.7 | 11.7 | 10.6 |
| 0900 | | 2825.58 | 14.0 | 74.4 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 1000 | | 2840.36 | 14.0 | 74.3 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 1100 | | 2855.56 | 14.0 | 74.3 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 1101 | | 2856.00 | 0.5 | | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 1200 | 0 | 2870.66 | 13.5 | 74.3 | 210 | 210 | 218 | 1°W | 7°W | 7 | 225 | 10 | 1 | 165 | 4 | 98 | 01 | 991.5 | 11.7 | 11.1 | 12.8 |
| 1300 | | 2886.11 | 15.40 | 74.3 | 210 | 210 | 218 | 1°W | 7°W | | | | | | | | | | | | |
| 1400 | | 2896.37 | 10.21 | 52.0 | 210 | 210 | 218 | 1°W | 7°W | | | | | | | | | | | | |
| 1403 | | 2897.05 | .7 | | 230 | 230 | 234 | 3°E | | | | | | | | | | | | | |
| 1417 | | 2899.85 | 2.9 | | 000 | 000 | 007 1/2 | 1/2°W | 7°W | | | | | | | | | | | | |
| 1500 | | 2910.67 | 11.1 | 72.1 | 060 | 060 | 068 1/2 | 1 1/2°W | 7°W | | | | | | | | | | | | |
| 1550 | 0 | 2923.15 | 13.1 | | 060 | 060 | 068 1/2 | 1 1/2°W | 7°W | | | | | | | | | | | | |
| 1600 | 0 | 2924.50 | 1.2 | 64.9 | 190 | 190 | 196 1/2 | 1/2°E | 7°W | 4 | 185 | 16 | 1 | 180 | 6 | 98 | 02 | 992.0 | 11.7 | 10.6 | 14.4 |
| 1700 | | 2931.74 | 7.2 | 39.4 | VAR | VAR | VAR | VAR | 7°W | | | | | | | | | | | | |
| 1730 | | | | | 093 | 093 | 098 1/2 | 1 1/2°E | | | | | | | | | | | | | |
| 1758 | 0 | 2938.74 | 7.0 | 39.1 | 210 | 210 | 218 | 2 1/4°W | 7°W | 5 | 175 | 16 | 1 | 180 | 4 | 98 | 02 | 992.0 | 11.7 | 10.0 | 12.8 |
| 1800 | | | | | 000 | 000 | 007 1/2 | 1/2°W | | | | | | | | | | | | | |
| 1900 | | 2944.96 | 7.8 | 39.2 | VAR | VAR | VAR | VAR | 7°W | | | | | | | | | | | | |
| 1908 | | 2946.45 | 1.5 | 45.9 | 180 | 180 | 186 | 1°E | | | | | | | | | | | | | |
| 2000 | 0 | 2951.18 | 5.5 | 38.5 | 279 | 279 | 286 1/2 | 1/2°W | 7°W | 5 | 150 | 10 | 1 | 180 | 4 | 98 | 02 | 992.5 | 12.2 | 11.7 | 13.3 |
| 2100 | | 2955.46 | 4.5 | 27.6 | 279 | 279 | 286 1/2 | 1/2°W | 7°W | | | | | | | | | | | | |
| 2125 | | 2956.82 | 1.8 | | 279 | 279 | 286 1/2 | 1/2°W | 7°W | | | | | | | | | | | | |
| 2200 | | 2958.54 | 2.7 | 27.6 | 270 | 270 | 277 | 0° | 7°W | | | | | | | | | | | | |
| 2210 | | 2959.00 | 0.6 | | 270 | 270 | 277 | 0° | 7°W | | | | | | | | | | | | |
| 2300 | | 2966.00 | 5.4 | 41.5 | 255 | 255 | 263 | 1°W | 7°W | | | | | | | | | | | | |
| 2307 | | 2966.75 | 1.0 | | 255 | 255 | 263 | 1°W | 7°W | | | | | | | | | | | | |
| 2400 | 0 | 2976.92 | 10.1 | 60.0 | 270 | 270 | 277 | 0° | 7°W | 2 | 140 | 16 | 1 | 240 | 8 | 99 | 01 | 999.5 | 12.8 | 11.1 | 12.8 |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| 263.3 | | | | | | | | | | | | | | | | | | | | | |

1974

FROM

TO

OR AT

| REMARKS | | | | Initials of the Officer of the Watch |
|---|---|---|--|--------------------------------------|
| 0004 - A/C 015 0014 - A/C 088 SP18 0030 - A/C 000 | 0045 - A/C 070 SP10 0141 - A/C 150 0154 - A/C 136 | 0100 { 62° 41.6' N DECCA { 04° 18' E | | |
| 0114 - A/C 000 0121 - A/C 270 SP15 0138 - A/C 180 SP10 | | 0200 { 62° 56.3' N DECCA { 04° 14' E | | |
| 0234 - SP8 0255 - A/C 200 0254 - A/C 280 | | 0300 { 62° 49' N DECCA { 04° 29' E | | |
| 0320 - A/C 320 SP10 0334 - A/C 135 | | 0325 { 62° 48.2' N DECCA { 04° 26.8' E | | |
| 0438 - A/C 320 SP12 0445 - SP14 0450 - SP16 | 0500 - A/C 330 SP19 | 0449 { 62° 46' N DECCA { 04° 38' E | | |
| 0519 - Sunrise 0550 - A/C 320 | | 0600 { 63° 03' N DECCA { 04° 22' E | | |
| 0619 - A/C 180 SP14 0629 - SP10 0649 - SP15 | | 0700 { 63° 00' N DECCA { 04° 15' E | | |
| | | 0800 { 62° 41' N DECCA { 04° 17' E | | |
| 0859 - A/C 210 | | | | |
| 1051 - RAS STATIONS | | 0930 { 62° 28' N DECCA { 40° 7' E | | |
| 1101 - A/C 210 | | 1030 { 62° 16' N DECCA { 30° 58' E | | |
| 1100 - RAS 550 CLOSED UP 1117 - ZROUOIS COMMENCED APPROACH PORTSIDE 1124 - FIRST LINE PASSED TO ZROUOIS | | 1200 { 61° 59' N DECCA { 30° 34' E | | |
| 1219 - SKEENA COMMENCED APPROACH STBD SIDE 1243 - 1st LINE MARGAREE 1223 - SKEENA ALONGSIDE STBD SIDE - FIRST LINE 1255 - FLYING STATIONS 1235 - LAST LINE ZROUOIS 1240 - MARGAREE COMMENCED RAS APPROACH PORTSIDE | | 1256 { 61° 47.5' N DECCA { 30° 19.0' E | | |
| 1312 - LAST LINE SKEENA 1321 - LAST LINE MARGAREE 1328 - SP8 1329 - SECURED RAS 650 - A/C 000 | | 1327 { 61° 44.0' N DECCA { 30° 09.5' E | | |
| 1402 LAUNCHED SK 17 1403 A/C 000 SP15 1417 A/C 060 | | 1425 { 61° 47.0' N DECCA { 30° 09.0' E | | |
| 1543 SP8 1550 A/C 190 | | 1525 { 61° 54.0' N DECCA { 30° 39.5' E | | |
| 1601 - A/C 210 1632 - A/C 090 1603 - RECOVERED SK17 1641 - A/C 093 1610 - A/C 000 | | 1627 { 61° 57.0' N DECCA { 30° 43.0' E | | |
| 1710 - FLYING STNS 1757 - STOOD DOWN FLYING STNS 1730 - A/C 210 1759 - A/C 000 1753 - SUNSET 1756 - LAUNCHED SK17 | | 1703 { 61° 58' N DECCA { 03° 51' E | | |
| 1807 - A/C 270 1853 - A/C 210 1844 - Flying Stations 1855 - A/C 180 1850 - A/C 250 1900 - SP12 | | 1900 { 61° 56' N DECCA { 03° 45' E | | |
| 1907 - RECOVERED SK 19 1908 - A/C 279 SP6 1912 - 1 SECURED FLYING STATIONS | | 2000 { 61° 58' N DECCA { 03° 35' E | | |
| | | 2100 { 61° 59' N DECCA { 30° 28' E | | |
| 2125 - A/C 270 2150 - NAV LPS SWITCHED ON (NA) | | 2200 { 62° 01' N DECCA { 30° 22' E | | |
| 2210 - A/C 255 SP7 2245 - SKEENA 30100 FEET SE AND PASSED IN A 30000 ON 2000 ROW 2245 - MARGAREE 30100 FEET WEST AND PASSED IN A 30000 ON 2000 ROW | | 2300 { 62° 01' N DECCA { 30° 10' E | | |
| 2307 - A/C 270 2311 - OVERRUN BY A HELO AND ILLUMINATED 2327 - NAV LPS SWITCHED OFF | | 2330 { 62° 01' N DECCA { 2° 57' E | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|----------------|---------|---------|-----|---------------------------------|
| 0800 | 62° 46' N | 04° 17' E | 0800 DECCA | Time | Forward | Aft | STEAMING |
| 1200 | 61° 59' N | 3° 34' E | 1200 DECCA FIX | | | | |
| 2000 | 61° 58' N | 3° 35' E | 2000 DECCA | | | | |

HMCS PROTECTEUR

SUN DAY

22nd OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 2904.53 | 8.9 | 44.0 | 270 | 270 | 277 | 0° | 7°W | | | | | | | | | | | | |
| 0200 | | 2987.88 | 6.4 | 38.6 | 270 | 270 | 277 | 0° | 7°W | | | | | | | | | | | | |
| 0225 | | 2991.25 | 4.2 | | 270 | 270 | 277 | 0° | 7°W | | | | | | | | | | | | |
| 0300 | | 2998.30 | 8.2 | 62.9 | 255 | 255 | 263 | 1°W | 7°W | | | | | | | | | | | | |
| 0400 | Ø | 3010.13 | 13.15 | | 270 | 270 | 263 | 1°W | 7°W | 4 | 115 | 18 | 4 | 200 | 10 | 98 | 13 | 990.0 | 11.7 | 10.0 | 11.7 |
| 0443 | | | | | 130 | 130 | 134 1/2 | 2 1/2°E | | | | | | | | | | | | | |
| 0500 | | 3022.86 | 12.73 | 68.1 | 180 | 180 | 181 | 1°E | 7°W | | | | | | | | | | | | |
| 0600 | | 3037.75 | 14.9 | 77.9 | 180 | 180 | 186 1/2 | 1°E | 7 1/2°W | | | | | | | | | | | | |
| 0700 | | 3050.9 | 13.2 | 72.0 | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 0800 | Ø | 3062.23 | 13.4 | 73.7 | 180 | 180 | 187 | 1°E | 8°W | 5 | 175 | 26 | 1 | 200 | 10 | 98 | 02 | 983 | 12.2 | 11.7 | 11.7 |
| 0900 | | 3072.53 | 12.0 | 63.4 | 180 | 180 | 187 | 1°E | 8°W | | | | | | | | | | | | |
| 1000 | | 3082.29 | 9.0 | 64.7 | 180 | 180 | 189 | 1°E | 8°W | | | | | | | | | | | | |
| 1100 | | 3090.10 | 8.2 | 52.8 | 270 | 270 | 278 | 1/4°W | 8°W | | | | | | | | | | | | |
| 1200 | Ø | 3097.03 | 6.5 | 47.5 | 270 | 270 | 278 | 1/4°W | 8°W | 8 | 180 | 30 | 3 | 190 | 10 | 98 | 80 | 980.0 | 12.2 | 12.2 | 11.7 |
| 1250 | | 3102.97 | 5.5 | | 270 | 270 | 278 | 0° | 8°W | | | | | | | | | | | | |
| 1300 | | 3103.77 | 1.5 | 48.4 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1337 | | 3109.45 | 3.5 | | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1352 | | 3111.70 | 2.3 | | 105 | 105 | 112° | 1°E | 8°W | | | | | | | | | | | | |
| 1400 | | 3112.78 | 1.2 | 48.4 | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1500 | | 3122.44 | 9.1 | 48.4 | 090° | 090° | 097° | 1°E | 8°W | | | | | | | | | | | | |
| 1600 | Ø | 3132.06 | 9.0 | 48.4 | 090° | 090° | 097° | 1°E | 8°W | 8 | 180 | 30 | 4 | 190 | 8 | 98 | 80 | 981.0 | 11.1 | 10.6 | 12.2 |
| 1700 | | 3142.06 | 9.7 | 48.4 | 090° | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1800 | Ø | 3152.15 | 9.6 | 48.4 | 090 | 090 | 097 | 1°E | 8°W | 7 | 210 | 30 | 4 | 200 | 8 | 98 | 80 | 981.5 | 11.1 | 10.6 | 12.2 |
| 1815 | | | | | 090 | 090 | 097 | 1°E | 8°W | | | | | | | | | | | | |
| 1900 | | 3159.29 | 7.1 | 48.8 | 270 | 270 | 278 1/4 | 1 1/4°W | 8°W | | | | | | | | | | | | |
| 2000 | Ø | 3166.22 | 7.0 | 49.1 | 270 | 270 | 278 | 1 1/4°W | 8°W | 6 | 230 | 30 | 3 | 245 | 8 | 96 | 02 | 982 | 11.7 | 11.7 | 12.8 |
| 2100 | | 3174.22 | 9.2 | 50.1 | 320 | 320 | 326 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 2200 | | 3184.26 | 8.8 | 58.8 | 320 | 320 | 326 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 2300 | | 3192.75 | 12.2 | 73.2 | 320 | 320 | 326 1/2 | 1 1/2°E | 8°W | | | | | | | | | | | | |
| 2400 | Ø | 3213.22 | 11.0 | 73.3 | 330 | 330 | 336 1/2 | 1 1/2°E | 8°W | 8 | 250 | 30 | 4 | 245 | 10 | 98 | 02 | 985.0 | 11.7 | 11.1 | 12.2 |

| | | | | |
|--|---------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | 253.4 | | | |

19

FROM

TO

, OR AT

REMARKS

Initials
of the
Officer
of the
Watch

0030 SP6

0055 DECCA { 62° 01.5'N
2° 31.0'E

0157 DECCA { 62° 02.0'N
2° 23.5'E

0214 SP12
0225 A/C 255 SP14
0300 A/C 270
0303 SP12

0400 A/C 130

0346 DECCA { 61° 59.0'N
2° 02.0'E

0438-SP15
0443-A/C180

0428 DECCA { 61° 56'N
01° 58'E

0537-SUNRISE

0534 DECCA { 61° 42'N
02° 02'E

0634 DECCA { 61° 30'N
02° 02'E

0734 DECCA { 61° 16'N
02° 00'E

0830- FLYING STATIONS
0832- SP10

0900 DECCA { 61° 04'N
01° 58'E

0908- LAUNCHED SK 17
0910- STAB DOWN FLYING STATIONS - SP 15
1000- A/C 270° SP 10

1000 DECCA { 60° 55'N
01° 58'E

1052- FLYING

1100 DECCA { 60° 55'N
01° 39'E

1104- RECOVERED SK 17
1113- SECURED FLYING STATIONS

1200 DECCA { 60° 55'N
01° 24'E

1250-A/C 090°

1300 DECCA FIK { 60° 55'N
1° 16'E

1337-A/C 105°

1400 DECCA FIK { 60° 55'N
1° 33'E

1352-A/C 090°

1500 DECCA FIK { 60° 55'N
1° 56'E

1530 DECCA FIK { 60° 55.5'N
2° 01'E

1648 DECCA { 60° 56.0'N
2° 26'E

1748 SUNSET. NAV LTS ON

1726 DECCA { 60° 56.0'N
2° 39.0'E

1815-A/C 270

1900 DECCA { 60° 57'N
02° 47.5'E

2000-A/C 320

1931 DECCA { 60° 57'N
02° 40'E

2100 DECCA { 61° 03'N
2° 25'E

2135- SP 15

2200 DECCA { 61° 10'N
2° 14'E

2300- A/C 330°

2300 DECCA { 61° 14'N
1° 58'E

2400 DECCA { 61° 29.5'N
01° 49'E

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 61° 15' N | 02° 00' E | 0800 DECCA | | | | STEAMING. |
| 1200 | 60° 55' N | 01° 24' E | 1200 DECCA | | | | |
| 2000 | 60° 58' N | 02° 35' E | 2000 DECCA | | | | |

HMCS PROTECTEUR

MON DAY

23RD OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|---------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 3224.85 | 12.0 | 59.7 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 0200 | | 3232.90 | 10.1 | 50.8 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 0300 | | 3240.97 | 9.1 | 42.2 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 0319 | | 3242.72 | 1.8 | | 165 | 165 | 170 | 3E | 8W | | | | | | | | | | | | |
| 0400 | φ | 3250.00 | 6.3 | 44.9 | 090 | 090 | 097 | 1E | 8W | 7 | 215 | 15 | 2 | 145 | 8 | 98 | 01 | 984.0 | 11.7 | 11.0 | 11.1 |
| 0500 | | 3259.36 | 8.0 | 39.9 | 090 | 090 | 097 | 1E | 8W | | | | | | | | | | | | |
| 0600 | | 3266.75 | 10.4 | 50.6 | 270 | 270 | 278 1/2 | 1/2W | 8W | | | | | | | | | | | | |
| 0700 | | 3275.00 | 10.4 | 51.0 | 270 | 270 | 278 1/2 | 1/2W | 8W | | | | | | | | | | | | |
| 0800 | φ | 3284.66 | 8.4 | 45.7 | 090 | 090 | 097 | 1E | 8W | 6 | 240 | 30 | 2 | 240 | 6 | 98 | 02 | 987.0 | 10.6 | 9.4 | 11.7 |
| 0853 | | 3294.21 | 8.9 | | 090 | 090 | 097 | 1E | 8W | | | | | | | | | | | | |
| 0900 | | 3295.32 | 1.0 | 49.0 | 240 | 240 | 249 1/2 | 1 1/2W | 8W | | | | | | | | | | | | |
| 1000 | | 3306.54 | 12.0 | 60.2 | 240 | 240 | 249 1/2 | 1 1/2W | 8W | | | | | | | | | | | | |
| 1100 | | 3320.24 | 13.7 | 73.9 | 240 | 240 | 249 1/2 | 1 1/2W | 8W | | | | | | | | | | | | |
| 1200 | φ | 3335.74 | 15.5 | 85.5 | 240 | 240 | 249 1/2 | 1 1/2W | 8W | 6 | 235 | 24 | 2 | 240 | 5 | 98 | 02 | 988.5 | 10.6 | 9.4 | 11.1 |
| 1300 | | 3350.49 | 13.3 | 66.7 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 1400 | | 3359.38 | 11.2 | 56.2 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 1500 | | 3368.65 | 11.3 | 56.8 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 1526 | | 3374.90 | 5.2 | | 060 | 060 | 069 1/2 | 1/2E | 8W | | | | | | | | | | | | |
| 1600 | φ | 3381.90 | 5.9 | 56.8 | 225 | 225 | 234 1/2 | 1 1/2W | 8W | 6 | 220 | 25 | 1 | 240 | 5 | 98 | 02 | 990.5 | 11.7 | 9.4 | 11.1 |
| 1700 | | 3393.52 | 11.8 | 56.9 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 1728 | | 3399.54 | 5.5 | | 150 | 150 | 156 0 | 3E | 9W | | | | | | | | | | | | |
| 1800 | φ | 3404.72 | 5.5 | 55.1 | 000 | 000 | 009 | 1W | 8W | 5 | 240 | 20 | 2 | 300 | 5 | 98 | 01 | 991.5 | 10.6 | 9.4 | 11.1 |
| 1900 | | 3417.45 | 12.4 | 62.1 | 000 | 000 | 009 1/2 | 1W | 8W | | | | | | | | | | | | |
| 2000 | φ | 3432.20 | 14.7 | 74.2 | 300 | 300 | 307 | 1E | 8W | 6 | 240 | 25 | 2 | 300 | 4 | 98 | 02 | 992.0 | 10.6 | 9.4 | 11.1 |
| 2100 | | 3447.43 | 15.2 | 74.0 | 300 | 300 | 307 | 1E | 8W | | | | | | | | | | | | |
| 2140 | | | | | 300 | 300 | 307 | 1E | 8W | | | | | | | | | | | | |
| 2200 | | 3457.40 | 9.9 | 52.4 | 330 | 330 | 337 | 1E | 8W | | | | | | | | | | | | |
| 2201 | | | | | 330 | 330 | 337 | 1E | 8W | | | | | | | | | | | | |
| 2300 | | 3468.45 | 11.1 | 60.2 | 000 | 000 | 008 1/2 | 1/2W | 8W | | | | | | | | | | | | |
| 2400 | φ | 3483.86 | 14.9 | 71.5 | 045 | 045 | 053 1/2 | 1/2W | 8W | 8 | 280 | 14 | 2 | 235 | 4 | 98 | 01 | 992 | 10.6 | 10.0 | 11.1 |

Distance run through the Water Midnight to Midnight

Leave Granted to Ship's Company

Anchor Bearings

274.5

001213

1974. . . . FROM HALIFAX

TO HAMBURG

OR AT

REMARKS

Initials
of the
Officer
of the
Watch

0004 - A/C 310° SP16 TO TAKE SPN IN AYEAN IROQUOIS 0051 - A/C 280
0049 - A/C 280° 0057 - A/C 270 SPB
0050 - A/C 270° 0100 - NAV LTS SWITCHED OFF
0111 - A/C 090° 0159 - A/C 090°
0114 - SP 10 0135 { 61°34'N
0145 - A/C 310 DECCA { 01°32'E
0154 - A/C 300 IROQUOIS RECOVERED HEAD
0220 - A/C 120° NAV LTS SWITCHED ON 0245 - A/C 165°
0230 - A/C 140° 0246 - DIMMER NAV LTS
0248 - A/C 090° NAV LTS SWITCHED OFF SWITCHED ON
0312 - A/C 090
0400 { 61°30'N
0400 DECCA { 1°55'E
0453 { 61°30'N
0453 DECCA { 2°11'E
0547 SUNRISE. NAV LTS OFF
0533 { 61°30'5"N
0533 DECCA { 2°07'0"E
0656 { 61°30'0"N
0656 DECCA { 1°45'0"E
0748 { 61°30'0"N
0748 DECCA { 1°57'5"E
0820 - FLYING STATIONS 0844 - RAS 330 CLOSED UP
0830 - RAS STATIONS 0853 - A/C 240°
0841 - SP 12 0900 { 61°28'5"N
0904 - FIRST LINE, IROQUOIS - PORT 0930 - FIRST LINE, SKEMA - SPB 1000 - FIRST LINE, MARGAREE - SPB DECCA { 02°19'E
0916 - LAUNCHED SK 17 0937 - LAST LINE, IROQUOIS TRANSFERRED 542 BBL DIESEL OIL 1052 { 61°24'N
0919 - STOOD DOWN FLYING STATIONS 0952 - LAST LINE, SKEMA TRANSFERRED 928 BBL DIST. DECCA { 02°02'5"E
1030 - LAST LINE, MARGAREE TRANSFERRED 819 BBL DIST.
1031 - A/C 025° SP 12
1032 - SECURED RAS 330
1200 - TRANSFERRED 4410 BBL DIST FROM CARGO TO SHIPS TANKS.
1205 - CL + SP VAR TO TAKE STATION ON IROQUOIS 1248 - RECOVERED SK 33
1233 - FLYING STATIONS 1255 - LAUNCHED SK 33
1247 - A/C 250° SP13 1256 - STOOD DOWN FLYING STATIONS
1319 - IN STATION IROQUOIS + 2000° CO 090° SP 10 1258 - CL + SP VAR TO TAKE STATION ON IROQUOIS
1355 - A/C 225° 1300 { 61°24'N
1415 - FLYING STATIONS 1454 - LAUNCHED SK 17 DECCA { 02°34'E
1417 - A/C 090° 1457 - A/C 060° 1400 { 61°24'N
1451 - A/C 225° 1500 - STOOD DOWN FLYING STATIONS DECCA { 02°39'E
1524 - FLYING STATIONS 1530 - LAUNCHED SK 33
1526 - A/C 225° 1558 - RECOVERED SK 17 1500 { 61°21'N
1532 - RECOVERED SK 33 1600 - A/C 060° DECCA { 02°46'E
1624 - A/C 140° 1651 - A/C 140°
1627 - A/C 160° 1655 - A/C 150° SP12
1652 - A/C 150° 1655 - A/C 150° SP12
RESUMED GUIDE
1728 - A/C 000° SP10 1710 { 61°02'N
1710 DECCA { 3°01'E
1822 NAV LTS ON
1825 A/C 270
1827 A/C 300 SP15
1951 { 61°25'N
1951 { 3°03'5"E
2001 - A/C 310° 2100 { 61°33'N
2100 DECCA { 02°37'E
2111 - SP10
2140 - A/C 000°
2147 - A/C 330° SP15
2201 - A/C 000° SP10
2246 - SP15 2235 { 61°39'N
2235 DECCA { 02°28'E
2316 - A/C 045

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|---------------|---------|---------|-----|---------------------------------|
| 0800 | 61°30'N | 02°03.5'E | 0800 DECCA | Time | Forward | Aft | STEAMING |
| 1200 | 61°23.0N | 02°35.5'E | 1200 DECCA | | | | |
| 2000 | 61°27.0N | 3°01.5'E | 1951(0) DECCA | | | | |

HMCS PROTECTEUR

TUES DAY

24th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|--------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 3498.70 | 15.0 | 76.0 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 0200 | | 3514.64 | 15.1 | 77.3 | 090 | 090 | 095½ | 1½E | 7°W | | | | | | | | | | | | |
| 0300 | | 3531.30 | 15.2 | 73.4 | 090 | 090 | 095½ | 1½E | 7°W | | | | | | | | | | | | |
| 0315 | | 3535.62 | 3.9 | | 090 | 090 | 095½ | 1½E | 7°W | | | | | | | | | | | | |
| 0400 | Ø | 3545.75 | 11.4 | 77.7 | 000 | 000 | 007½ | ½W | 7W | 4 | 290 | 16 | 2 | 235 | 4 | 98 | 02 | 992.0 | 11.1 | 10.6 | 11.1 |
| 0430 | | 3554.28 | 7.0 | | 000 | 000 | 007½ | ½W | 7W | | | | | | | | | | | | |
| 0500 | | 3560.00 | 7.0 | 68.3 | 270 | 270 | 277 | 0 | 7W | | | | | | | | | | | | |
| 0600 | | 3574.96 | 12.0 | 73.6 | 270 | 270 | 277 | 0 | 7W | | | | | | | | | | | | |
| 0630 | | 3557.20 | 10.0 | | 270 | 270 | 277 | 0 | 7W | | | | | | | | | | | | |
| 0700 | | 3589.00 | 2.0 | 69.7 | 230 | 230 | 238' | 1W | 7W | | | | | | | | | | | | |
| 0713 | | 3598.30 | 9.0 | | 230 | 230 | 239 | 1W | 7W | | | | | | | | | | | | |
| 0800 | Ø | 3601.65 | 3.0 | 60.3 | 270 | 270 | 277 | 0 | 7W | 6 | 290 | 16 | 1 | 310 | 5 | 98 | 03 | 992.5 | 10.0 | 9.4 | 10.6 |
| 0900 | | 3616.15 | 14.3 | 71.6 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1000 | | 3628.86 | 12.5 | 62.5 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1100 | | 3642.18 | 14.4 | 72.0 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1200 | Ø | 3655.35 | 13.1 | 67.1 | VAR | VAR | VAR | VAR | 7W | 7 | 335 | 12 | Ø | 310 | 4 | 98 | 02 | 993.0 | 10.6 | 9.4 | 10.6 |
| 1300 | | 3667.39 | 12.0 | 59.2 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1400 | | 3680.00 | 12.6 | 59.9 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1500 | | 3693.36 | 13.4 | 59.9 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1600 | Ø | 3703.90 | 15.54 | 60.0 | VAR | VAR | VAR | VAR | 7W | 6 | 330 | 11 | 1 | 325 | 4 | 98 | 02 | 993 | 11.1 | 10.6 | 10.6 |
| 1630 | | 3713.70 | 8.1 | | 115 | 115 | 119 | 3°E | 7°W | | | | | | | | | | | | |
| 1700 | | 3719.44 | 4.8 | 64.5 | 090 | 090 | 095½ | 1½E | 7°W | | | | | | | | | | | | |
| 1800 | Ø | 3734.56 | 14.6 | 72.7 | 090 | 090 | 095½ | 1½E | 7°W | 7 | 030 | 20 | 1 | 325 | 4 | 98 | 02 | 991.5 | 11.1 | 10.0 | 10.6 |
| 1820 | | 3741.20 | 3.5 | | 090 | 090 | 095½ | 1½E | 7W | | | | | | | | | | | | |
| 1900 | | 3749.5 | 7.0 | 73.3 | 260 | 260 | 267 | 0 | 7W | | | | | | | | | | | | |
| 2000 | Ø | 3764.68 | 10.5 | 73.3 | 260 | 260 | 267 | 0 | 7W | 7 | 025 | 22 | 1 | 320 | 4 | 98 | 02 | 992.0 | 11.1 | 10.0 | 10.6 |
| 2100 | | 3780.08 | 14.5 | 73.0 | 260 | 260 | 267 | 0 | 7W | | | | | | | | | | | | |
| 2148 | | 3793.70 | 11.6 | | 260 | 260 | 267 | 0 | 7W | | | | | | | | | | | | |
| 2200 | | 3796.00 | 2.9 | 72.9 | 000 | 000 | 007½ | ½W | 7W | | | | | | | | | | | | |
| 2225 | | 3804.15 | 6.3 | | 000 | 000 | 007½ | ½W | 7W | | | | | | | | | | | | |
| 2300 | | 3810.77 | 7.5 | 76.3 | 030 | 030 | 037½ | ½W | 7W | | | | | | | | | | | | |
| 2310 | | 3813.20 | 2.2 | | 030 | 030 | 037½ | ½W | 7W | | | | | | | | | | | | |
| 2400 | Ø | 3826.28 | 12.1 | 74.9 | 090 | 090 | 095½ | 1½E | 7W | 4 | 000 | 16 | 1 | 320 | 5 | 98 | 02 | 990.0 | 10.0 | 8.9 | 10.6 |

Distance run
through the Water
Midnight to
Midnight

324.0

Leave Granted to Ship's Company

Anchor Bearings

19 74

FROM HALIFAX

TO HAMBURG

, OR AT

REMARKS

Initials
of the
Officer
of the
Watch

| | | | |
|---|---|---|----|
| 0010 - A/C 000° 0015 - A/C 020° 0045 - A/C 090° | 0050 - A/C 080° 0100 - A/C 090° | 0100 { 61° 58.5' N DECCA { 03° 00' E | |
| 0145 - SWITCHED ON BIG WARNING LIGHTS 0155 - SWITCHED OFF BIG WARNING LIGHTS | | 0200 { 61° 57.5' N DECCA { 03° 32.5' E | |
| 0250 - BLOW SOFT | | 0300 { 61° 56.5' N DECCA { 04° 04' E | |
| 0315 - A/C 000° | | 0400 { 62° 03' N DECCA { 04° 12' E | BR |
| 0430 - A/C 270° | | 0500 { 62° 08' N DECCA { 3° 58' E | |
| 0515 - COMMENCED LONG LEGGED ZIG ZAG. | | 0600 { 62° 09' N DECCA { 3° 37' E | |
| 0524 - SUNRISE; NAVIGATORS SWITCHED OFF | 0652 - A/C 230° 0655 - SPIR | 0700 { 62° 07' N DECCA { 3° 12' E | |
| 0639 - RADAR SWITCHED OFF 0641 - SPIR | | 0800 { 62° 05' N DECCA { 2° 48' E | D |
| 0743 - A/C 270° - STOPPED ZIG ZAG 0745 - RESUMED ZIG ZAG | | 0829 { 62° 06.5' N DECCA { 2° 45.0' E | |
| 0800 - HANDS EMPLOYED AT CLEANING STNS | 0822 A/C 010 SP15 0825 FLYING STATIONS 0826 A/C 000 | 0952 A/C 260 0955 STOPPED DOWN FLYING STATIONS | |
| 0812 A/C 000 0816 SP15 0819 A/C 310 0820 SURFACE DEFENCE STATIONS | 0924 A/C 300 SP15 0934 FLYING STATIONS 0944 A/C 380 0950 RECOVERED SK 12 | 1058 { 62° 18.5' N DECCA { 2° 33.0' E | |
| 0902 SP10 0913 A/C 330 SK 17 LAUNCHES 0915 STOPPED DOWN FLYING STATIONS | | 1200 { 62° 21.0' N DECCA { 2° 34.0' E | CR |
| 1006 A/C 160 1010 A/C 140 1018 A/C 090 1022 A/C 270 SP12 | 1026 SP 8 1038 A/C 000 SP18 1050 A/C 340 | 1300 { 62° 22.8' N DECCA { 2° 13.8' E | |
| 1102 SP15 1112 A/C 270 SP10 1122 A/C 180 SP18 1132 SP10 | 1138 A/C 090 SP15 1145 A/C 000 SP18 1155 A/C 180 SP10 | 1400 { 62° 19.4' N DECCA { 01° 57.5' E | |
| 1202 A/C 270 SP12 1218 - COMMENCED ZIG ZAG BASE CO 270 CO UAR AS REQ. | | 1500 { 62° 12.5' N DECCA { 02° 11' E | |
| 1336 - CEASED ZIG ZAG 1354 - A/C 115 | | 1600 { 62° 11.5' N DECCA { 02° 27' E | BR |
| 1520 - FLYING STNS 1536 - A/C 030 1538 - RECOVERED SK 05 | 1546 - LAUNCHED SK 05 1547 - RESUMED ZIG ZAG BASE CO 115 SP12 CO AS REQ. | 1700 { 62° 10.5' N DECCA { 02° 50' E | |
| 1639 - A/C 090 SP15 1644 - RESUMED ZIG ZAG | | 1800 { 62° 09' N DECCA { 03° 10' E | BR |
| 1747 - SUNSET | | 1900 { 62° 08' N DECCA { 3° 10' E | |
| 1820 - A/C 260° 1826 - SP RESUMED 22 PLANES | | 2000 { 62° 05' N DECCA { 2° 47' E | BR |
| 2148 A/C 000 | | 2105 { 62° 07.0' N DECCA { 2° 19.0' E | |
| 2225 A/C 030 SP16 | | 2253 { 62° 12.0' N DECCA { 2° 16.0' E | |
| 2310 A/C 090 2325 SP15 | | 2359 { 62° 10.5' N DECCA { 2° 49.0' E | CR |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|------------|----------------|---------|---------|-----|---------------------------------|
| 0800 | 62° 05.0' N | 2° 48.0' E | 0800 (φ) DECCA | Time | Forward | Aft | STARTING |
| 1200 | 62° 21.0' N | 2° 34.0' E | 1200 (φ) DECCA | | | | |
| 2000 | 62° 05' N | 2° 47' E | 2000 DECCA FIX | | | | |

HMCS PROTECTEUR

WEDNESDAY

25TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|---|----------------|---------------------------------|---|--------------------------------|----------------|--------------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 3841.46 | 15.2 | 73.0 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 0200 | | 3856.37 | 14.9 | 74.0 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 0300 | | 3871.50 | 15.3 | 67.0 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 0400 | Ø | 3885.12 | 13.6 | 69.3 | VAR | VAR | VAR | VAR | 7W | 5 | 010 | 18 | 1 | 315 | 4 | 98 | 02 | 991 | 10.6 | 8.9 | 10.6 |
| 0500 | | 3900.62 | 9.0 | 71.2 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 0600 | | 3915.76 | 8.1 | 68.3 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 0609 | | 3919.10 | 1.5 | | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 0640 | | 3926.05 | 7.9 | | 240 | 240 | 248½ | 1½°W | 7°W | | | | | | | | | | | | |
| 0700 | | 3930.87 | 4.3 | 68.3 | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 0800 | Ø | 3945.40 | 8.6 | 68.3 | 180 | 180 | 186 | 1°E | 7°W | 8 | 345 | 19 | 1 | 320 | 5 | 97 | 02 | 985.0 | 9.4 | 8.9 | 10.6 |
| 0846 | | 3956.74 | 6.2 | | 180 | 180 | 186 | 1°E | 7°W | | | | | | | | | | | | |
| 0900 | | 3954.88 | 2.4 | 67.7 | 000 | 000 | 007½ | ½°W | 7°W | | | | | | | | | | | | |
| 1000 | | 3972.44 | 8.6 | 60.4 | 000 | 000 | 007½ | ½°W | 7°W | | | | | | | | | | | | |
| 1100 | | 3984.65 | 8.5 | 60.4 | 000 | 000 | 007½ | ½°W | 7°W | | | | | | | | | | | | |
| 1200 | Ø | 3997.26 | 7.0 | 60.4 | 000 | 000 | 007½ | ½°W | 7W | 8 | 355 | 23 | 1 | 320 | 6 | 97 | 61 | 985.0 | 10.0 | 10.0 | 10.6 |
| 1221 | | 3999.80 | 4.1 | | 000 | 000 | 007½ | ½°W | 7W | | | | | | | | | | | | |
| 1242 | | 4005.10 | 4.2 | | 180 | 180 | | | | | | | | | | | | | | | |
| 1300 | | 4009.70 | 3.9 | 60.6 | 000 | 000 | 007½ | ½°W | 7W | | | | | | | | | | | | |
| 1330 | | 4015.10 | 6.5 | | 000 | 000 | 007½ | ½°W | 7W | | | | | | | | | | | | |
| 1349 | | 4018.63 | 3.4 | | 336 | 336 | 341½ | 1½°E | 7W | | | | | | | | | | | | |
| 1400 | | 4022.50 | 3.0 | 64.5 | 025 | 025 | 033 | 1°W | 7W | | | | | | | | | | | | |
| 1500 | | 4036.84 | 14.0 | 69.3 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1600 | Ø | 4049.63 | 12.8 | 63.3 | VAR | VAR | VAR | VAR | 7W | 8 | 240 | 17 | 1 | 330 | 4 | 98 | 02 | 986.0 | 10.6 | 10.6 | 10.6 |
| 1700 | | 4061.10 | 11.5 | 59.5 | VAR | VAR | VAR | VAR | 7W | | | | | | | | | | | | |
| 1800 | Ø | 4073.58 | 12.5 | 59.5 | VAR | VAR | VAR | VAR | 7W | 8 | 350 | 18 | 1 | 330 | 4 | 97 | 21 | 986.0 | 10.6 | 10.6 | 10.6 |
| 1815 | | 4077.75 | 2.9 | 59.5 | 000 | 000 | 008½ | ½°W | 8°W | | | | | | | | | | | | |
| 1900 | | 4086.15 | 6.4 | 59.5 | 270 | 270 | 278 | ½°W | 8°W | | | | | | | | | | | | |
| 2000 | Ø | 4099.01 | 11.2 | 59.2 | 270 | 270 | 278 | ½°W | 8°W | 8 | 345 | 21 | 1 | 290 | 4 | 98 | 02 | 987.0 | 10.0 | 10.0 | 10.6 |
| 2100 | | 4111.90 | 10.2 | 59.1 | 090 | 090 | 097 | 1°E | 8W | | | | | | | | | | | | |
| 2200 | | 4124.67 | 10.2 | 59.0 | 090 | 090 | 097 | 1°E | 8W | | | | | | | | | | | | |
| 2300 | | 4137.14 | 10.2 | 58.9 | 070 | 070 | 078 | 0 | 8W | | | | | | | | | | | | |
| 2400 | Ø | 4149.36 | 10.2 | 73.6 | 070 | 070 | 078 | 0 | 8W | 7 | 345 | 14 | 1 | 315 | 5 | 98 | 02 | 990.0 | 10.0 | 10.0 | 11.1 |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| 270.3 | | | | | | | | | | | | | | | | | | | | | |

1974

FROM HALIFAX

TO HAMBURG

, OR AT

| REMARKS | | | | | | | Initials of the Officer of the Watch |
|---|-------------|-----------|----------------|---------|---------|-----|--|
| 0159 - CEASED ZIG ZAG CO 083 | | | | | | | |
| 0223 - O/C 090 0234 - COMMENCED ZIG ZAG BASE CO 000 SP15 0227 - SP7 0234 - O/C 000 | | | | | | | |
| 0320 - CEASED ZIG ZAG CO 030 0351 - O/C 180 0356 - RESUMED ZIG ZAG BASE CO 000 SP15 0446 - SP 14 | | | | | | | |
| 0535 - SUNRISE | | | | | | | |
| 0602 - O/C 240 0629 - RESUMED ZIG ZAG 0640 - O/C 180 | | | | | | | |
| 0643 - RESUMED ZIG ZAG | | | | | | | |
| 0830 - RAS STATIONS 0830 - FLYING STATIONS 0846 - O/C 000 SP 12 0900 - 1st LINE PASSED, SCREEN, STBD | | | | | | | |
| 0924 - SHOT DOWN FLYING STATIONS 0938 - LAST LINE, SCREEN TRANSFERRED 913 BLS DIST. 130 BLS JPS 0946 - FLYING STATIONS 0953 - 1st LINE PASSED, MANUVER, STBD | | | | | | | |
| 1025 - LAST LINE, MANUVER TRANSFERRED 769 BLS DIST. 1039 - SHOT DOWN FLYING STATIONS 1040 - 1st LINE PASSED, MANUVER, STBD 1100 - O/C 345 | | | | | | | |
| 1110 - LAST LINE, MANUVER TRANSFERRED 171 BLS DIST. 241 BLS JPS 1112 - O/C 000 1114 - SECURED RAS STBD 1116 - FLYING STATIONS 1200 - TRANSFERRED 91 BLS JPS FROM CARRIAGE TO SHIP'S TANKS | | | | | | | |
| 1221 A/C 180 1242 A/C 000 1251 FLYING STATIONS | | | | | | | |
| 1303 RECOVERED SK 17 1305 SHOT DOWN FLYING STATIONS 1325 SP 15 1330 COMMENCED ZIG ZAG PLAN A K 336 | | | | | | | |
| 1406 A/C 046 1436 A/C 335 1450 A/C 290 | | | | | | | |
| 1510 A/C 000 1518 A/C 294 SP 12 1540 A/C 337 1600 O/C 017 | | | | | | | |
| 1629 - A/C 339 1653 - RECOVERED SK 05 1639 - FLYING STNS 1641 - A/C 025 | | | | | | | |
| 1704 - LAUNCHED SK 05 1706 - A/C 046 1726 - CEASED ZIG ZAG CO 046 1800 - O/C 000 SP 16 1815 - O/C 270 SP 12 | | | | | | | |
| 1736 - O/C 270 1739 - SUNSET | | | | | | | |
| 1915 - COMMENCED ZIG ZAG 1943 - CEASED ZIG ZAG 2000 - O/C 090 - RECOMMENCED ZIG ZAG | | | | | | | |
| 2142 - CEASED BIG BIG RESUMED BASE CO 090 2145 - SCREEN PROCEEDING TO NEW STATIONS BASE CO R20 2200 - O/C 270 COMMENCED ZIG ZAG PLAN 17 | | | | | | | |
| 2352 | | | | | | | |
| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
| 0800 | 61° 43.5' N | 03° 43' E | 0800 DECCA | Time | Forward | Aft | |
| 1200 | 62° 00' N | 3° 38' E | 1200 DECCA FIX | | | | STEAMING |
| 2000 | 63° 01.5' N | 01° 53' E | 2000 DECCA | | | | |

HMCS PROTECTEUR

THURSDAY

26TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Compass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Barometric Pressure in Millibars | Temperature (Celsius) | | |
|---|-------------|---------------------------------|----------------------------------|-----------------------|-------------|---------------------|-------------------------|-----------|-----------|------------------------|------------------|-----------------|----------------------|-----------------------|------------------|----------------------|---------------------------|--|-----------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 4461.88 | 11.9 | 58.9 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0200 | | 4474.18 | 11.9 | 59.0 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0300 | | 4487.94 | 11.8 | 58.9 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0400 | Ø | 4201.00 | 11.8 | 58.9 | VAR | VAR | VAR | VAR | 9°W | 7 | 325 | 18 | 1 | 315 | 4 | 98 | 02 | 990.0 | 10.0 | 10.6 | 10.6 |
| 0500 | | 4213.80 | 12.8 | 58.9 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0600 | | 4226.83 | 13.0 | 58.9 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0700 | | 4240.00 | 13.7 | 59.0 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0800 | 0 | 4253.00 | 6.5 | 58.9 | VAR | VAR | VAR | VAR | 9°W | 6 | 315 | 15 | 1 | 310 | 4 | 98 | 02 | 992 | 8.9 | 8.3 | 10.6 |
| 0900 | | 4266.30 | 10.2 | 59.0 | 180 | 180 | 188 | 1°E | 9°W | | | | | | | | | | | | |
| 1000 | | 4278.92 | 12.6 | 58.1 | 180 | 180 | 188 | 1°E | 9°W | | | | | | | | | | | | |
| 1100 | | 4291.70 | 7.4 | 59.4 | 180 | 180 | 188 | 1°E | 9°W | | | | | | | | | | | | |
| 1200 | Ø | 4304.54 | 10.1 | 59.3 | 180 | 180 | 188 | 1°E | 9°W | 6 | 335 | 23 | 1 | 300 | 4 | 98 | 25 | 995.5 | 9.4 | 8.3 | 10.6 |
| 1248 | | 4314.80 | 8.0 | | 180 | 180 | 188 | 1°E | 9°W | | | | | | | | | | | | |
| 1300 | | 4317.06 | 4.0 | 59.3 | 090 | 090 | 097 | 1°E | 8W | | | | | | | | | | | | |
| 1400 | | 4329.83 | 12.0 | 59.2 | 090 | 090 | 097 | 1°E | 8W | | | | | | | | | | | | |
| 1430 | | 4336.36 | 6.0 | | 090 | 090 | 097 | 1°E | 8W | | | | | | | | | | | | |
| 1500 | | 4342.13 | 6.0 | 59.2 | 000 | 000 | 009 | 1W | 8W | | | | | | | | | | | | |
| 1600 | Ø | 4358.06 | 16.0 | 78.1 | 180 | 180 | 187 | 1°E | 8W | 4 | 270 | 28 | 1 | 280 | 4 | 98 | 01 | 996.0 | 8.5 | 7.2 | 11.1 |
| 1700 | | 4373.98 | 15.9 | 79.7 | 180 | 180 | 187 | 1°E | 8W | | | | | | | | | | | | |
| 1800 | Ø | 4390.18 | 16.3 | 79.7 | 180 | 180 | 187 | 1°E | 8W | 4 | 280 | 26 | 1 | 265 | 4 | 98 | 02 | 997.0 | 9.4 | 7.2 | 11.1 |
| 1900 | | 4406.00 | 15.8 | 79.8 | 180 | 180 | 187 | 1°E | 8W | | | | | | | | | | | | |
| 1904 | | | | | 180 | 180 | 187 | 1°E | 8W | | | | | | | | | | | | |
| 2000 | | 4421.74 | 15.7 | 79.8 | 000 | 000 | 008½ | ½°W | 8W | 4 | 280 | 26 | 1 | 265 | 4 | 98 | 02 | 998.5 | 10.0 | 8.3 | 11.1 |
| 2020 | | 4426.75 | 5.2 | | 000 | 000 | 008½ | ½°W | 8W | | | | | | | | | | | | |
| 2100 | | 4439.86 | 10.5 | 79.6 | 040 | 040 | 048½ | ½°W | 8W | | | | | | | | | | | | |
| 2112 | | 4440.90 | 3.3 | | 040 | 040 | 048½ | ½°W | 8W | | | | | | | | | | | | |
| 2200 | | 4453.99 | 14.2 | 86.8 | 060 | 060 | 068 | 0 | 8W | | | | | | | | | | | | |
| 2300 | | 4469.20 | 15.8 | 79.2 | VAR | VAR | VAR | VAR | 8°W | | | | | | | | | | | | |
| 2400 | Ø | 4484.90 | 15.0 | 73.6 | 000 | 000 | 008½ | ½°W | 8W | 4 | 270 | 22 | 1 | 265 | 4 | 98 | 02 | 998.0 | 10.0 | 8.3 | 11.1 |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| 313.4 | | | | | | | | | | | | | | | | | | | | | |

1974

FROM HALIFAX

TO HAMBURG

, OR AT

| REMARKS | | | | | | | Initials of the Officer of the Watch |
|--|--|--|--------------|-------------------|----------------------------|-----|--------------------------------------|
| 0009 A/C 292 0034 A/C 267 0100 A/C 251 | | | | 0048 DECCA | 62° 57.5' N 1° 38.5' E | | |
| 0110 A/C 214 0132 A/C 324 0200 A/C 270 CEASED ZIGZAG PLAN | | | | 0155 DECCA | 62° 57.5' N 1° 17.5' E | | |
| 0214 A/C 180 0221 COMMENCED ZIGZAG PLAN A/C 166 0239 A/C 217 | 0253 A/C 171 | | | 0248 DECCA | 62° 52.5' N 1° 07.0' E | | |
| 0309 A/C 202 0334 A/C 177 0400 - A/C 161 0410 - A/C 124 0432 - A/C 143 0439 - A/C 183 0500 - A/C 254 | | | | 0338 DECCA | 62° 44.0' N 1° 01.0' E | | Rab |
| 0516 - A/C 166 0537 - SUNRISE 0539 - A/C 217 0553 - A/C 171 | | | | 0428 DECCA | 62° 34.4' N 01° 15' E | | |
| 0604 - A/C 180 0632 - A/C 202 0634 - A/C 177 0700 - A/C 161 0710 - A/C 124 0732 - A/C 234 0740 - A/C 210 0800 - A/C 143 | | | | 0534 DECCA | 62° 24.7' N 01° 11.8' E | | |
| | | | | 0631 DECCA | 62° 14.8' N 01° 10.5' E | | |
| | | | | 0728 DECCA | 62° 04.5' N 01° 17.6' E | | JP |
| 0833 - FLYING STATIONS | | | | 0827 DECCA | 61° 54' N 01° 22' E | | |
| 0903 - LAUNCHED SK 19 0904 - STOOD DOWN FLYING STATIONS 0945 - SURFACE DEFENCE STATIONS | | | | 1000 DECCA | 61° 40' N 01° 11' E | | |
| 1005 - SECURED SURFACE DEFENCE STATIONS 1045 - FLYING STATIONS | | | | 1100 DECCA | 61° 32' N 01° 09' E | | |
| 1114 - RECOVERED SK 19 1113 - STOOD DOWN FLYING STATIONS | | | | 1200 DECCA | 61° 23' N 01° 08' E | | JP |
| 1240 - NEW SCREEN FORMED ON 090; CEASED RESUMED BASE COURSE OF 180° 1348 - A/C 070; RESUMED 22 | | | | | | | |
| 1353 - CEASED 22; RESUMED BASE COURSE OF 090° | | | | 1305 DECCA FIX | 61° 14' N 1° 19' E | | |
| 1418 - NEW SCREEN FORMED ON 000° 1430 - A/C 000° 1500 - A/C 180° | | | | 1520 DECCA FIX | 61° 18' N 1° 39' E | | JP |
| | | | | 1645 DECCA | 60° 55.5' N 1° 37.0' E | | |
| 1741 SUNSET. | | | | 1715 DECCA | 60° 47.5' N 1° 37.0' E | | Rab |
| | | | | 1830 DECCA | 60° 52.1' N 01° 38' E | | JP |
| 2020 - A/C 040° - SWITCHED ON NAVIGATION LIGHTS 2025 - SWITCHED OFF NAVIGATION LIGHTS | | | | 2100 DECCA | 60° 44' N 01° 55' E | | |
| 2112 - A/C 060° SP 18 2200 - A/C 000° | | | | 2200 DECCA | 60° 54' N 02° 14' E | | |
| 2218 - SP 15 2222 - FLYING STATIONS 2229 - A/C 330° | 2230 - RECOVERED SK 07 2235 - LAUNCHED SK 09 2236 - A/C 000° | 2239 - SECURED FLYING STATIONS 2245 - A/C 345° 2255 - A/C 000° | | 2300 DECCA | 61° 09' N 02° 16' E | | |
| | | | | 2400 DECCA | 61° 22' N 02° 24' E | | JP |
| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
| 0800 | 62° 02' N | 01° 14' E | 0800 DECCA | Time | Forward | Aft | |
| 1200 | 61° 23' N | 01° 09' E | 1200 DECCA | | | | |
| 2000 | 60° 32' N | 01° 39' E | 2000 DECCA | | | | STEAMING. |

HMCS PROTECTEUR

FRI DAY

27TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|-----------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0000 | | 4487.05 | 0.9 | | 000 | 000 | 008.6 | 7.4 | 8W | | | | | | | | | | | | |
| 0100 | | 4498.80 | 14.6 | 73.1 | 270 | 270 | 278 | 0° | 8W | | | | | | | | | | | | |
| 0138 | | 4507.74 | 8.0 | | 070 | 070 | 078 | 0° | 8W | | | | | | | | | | | | |
| 0200 | | 4513.30 | 7.0 | 72.2 | 180 | 180 | 187 | 1E | 8W | | | | | | | | | | | | |
| 0300 | | 4523.54 | 12.3 | 64.0 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 0400 | φ | 4538.92 | 12.3 | 61.0 | VAR | VAR | VAR | VAR | 8W | 4 | 315 | 20 | 1 | 265 | 4 | 98 | 02 | 998.5 | 10.6 | 7.8 | 10.6 |
| 0440 | | 4545.91 | 8.0 | | 090 | 090 | 097 | 1E | | | | | | | | | | | | | |
| 0500 | | 4550.50 | 4.2 | 61.8 | 270 | 270 | 278 | 0° | 8W | | | | | | | | | | | | |
| 0535 | | 4551.71 | 1.2 | | 270 | 270 | 278 | 0° | | | | | | | | | | | | | |
| 0555 | | 4551.01 | 8.9 | | 180 | 180 | 187 | 1E | 8W | | | | | | | | | | | | |
| 0600 | | 4552.04 | 1.0 | 55.8 | 000 | 000 | 009 | 1W | | | | | | | | | | | | | |
| 0635 | | 4557.87 | 5.2 | | 000 | 000 | 009 | 1W | | | | | | | | | | | | | |
| 0700 | | 4572.00 | 3.6 | 47.9 | 150 | 150 | 155 | 3E | 8W | | | | | | | | | | | | |
| 0723 | | 4576.21 | 4.0 | | 150 | 150 | 155 | 3E | | | | | | | | | | | | | |
| 0738 | φ | 4579.53 | 3.6 | 53.9 | 215 | 215 | 225 | 2°W | 8W | 4 | 265 | 13 | - | 265 | 4 | 98 | 02 | 999.5 | 9.4 | 7.8 | 10.6 |
| 0800 | | 4582.98 | 4.1 | | 270 | 270 | 278 | 0° | | | | | | | | | | | | | |
| 0900 | | 4595.99 | 13.0 | 60.3 | 270 | 270 | 278 | 0° | 8W | | | | | | | | | | | | |
| 1000 | | 4610.78 | 14.8 | 77.5 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 1100 | | 4627.09 | 16.3 | 83.4 | VAR | VAR | VAR | VAR | 8W | | | | | | | | | | | | |
| 1200 | φ | 4641.60 | 14.5 | 70.8 | VAR | VAR | VAR | VAR | 8W | 7 | 240 | 8 | φ | 265 | 4 | 98 | 80 | 999 | 10.6 | 8.9 | 11.1 |
| 1300 | | 4655.15 | 11.6 | 58.1 | 180 | 180 | 187 | 1E | 8W | | | | | | | | | | | | |
| 1400 | | 4668.60 | 12.0 | 59.9 | 180 | 180 | 187 | 1E | 8W | | | | | | | | | | | | |
| 1500 | | 4682.24 | 12.0 | 59.9 | 180 | 180 | 187 | 1E | 8W | | | | | | | | | | | | |
| 1600 | φ | 4695.76 | 11.9 | 59.7 | 150 | 150 | 156 | 2E | 8W | 7 | 110 | 9 | φ | 210 | 3 | 98 | 60 | 999.0 | 15.0 | 12.2 | 10.6 |
| 1700 | | 4709.41 | 6.5 | 60.0 | 135 | 135 | 140 | 3E | 8W | | | | | | | | | | | | |
| 1800 | φ | 4722.84 | 12.0 | 60.0 | 135 | 135 | 140 | 3E | 8W | 6 | 110 | 9 | φ | 210 | 3 | 99 | 01 | 998.0 | 10.6 | 8.9 | 10.6 |
| 1900 | | 4736.67 | 12.0 | 60.0 | 150 | 150 | 156 | 2E | 8W | | | | | | | | | | | | |
| 2000 | φ | 4750.70 | 12.0 | 60.0 | 150 | 150 | 156 | 2E | 8W | 6 | 235 | 9 | φ | 210 | 3 | 98 | 02 | 998.0 | 10.6 | 8.7 | 12.8 |
| 2100 | | 4764.00 | 13.3 | 65.4 | 150 | 150 | 156 | 2E | 8W | | | | | | | | | | | | |
| 2200 | | 4777.92 | 13.9 | 60.0 | 150 | 150 | 156 | 2°E | 8W | | | | | | | | | | | | |
| 2300 | | 4791.50 | 13.6 | 60.0 | 150 | 150 | 156 | 2°E | 8W | | | | | | | | | | | | |
| 2330 | φ | 4798.39 | 6.5 | 60.1 | 150 | 150 | 156 | 2°E | 8W | 7 | 050 | 6 | 1 | 210 | 3 | 98 | 02 | 995.5 | 10.6 | 9.4 | 12.2 |
| 2400 | | | | | | | | | | | | | | | | | | | | | |

Distance run
through the Water
Midnight to
Midnight

299.1

Leave Granted to Ship's Company

Anchor Bearings

1974 FROM HALIFAX TO HAMBURG, OR AT

| REMARKS | | Initials of the Officer of the Watch |
|---|-----------------------------------|--------------------------------------|
| 0008- a/c 270° | | |
| POSSIBLE | 0100 DECCA FIX { 61°19'N 1°56'E | |
| 0135- RED FLAG BRG 090° 0140- IROQUOIS MARGAREE SKREENA FORMER 4000 LINE OF SSG 5000 CO. 090 SPI4 TO SEARCH 0800N | 0140 DECCA FIX { 61°23.5'N 1°37'E | |
| 0138- a/c 180 TO CLEAR FORMATION | | |
| 0102- a/c 245 0225- a/c 135° 0255- a/c 270° SPI4 | | |
| 0212- a/c 000° 0235- a/c 110° 0240- a/c 105° | | |
| 0330- a/c 270° 0330- a/c 270° | 0400 DECCA FIX { 61°18'N 1°37'E | |
| 0335- a/c 280° 0341- a/c 090 SPI2 | | |
| 0319- a/c 270° | | |
| 0440 A/c 270 | 0450 DECCA { 61° 18.5'N 1° 51.0'E | |
| 0448 Sp 14 | | |
| 0505 A/c 180 | 0537 DECCA { 61° 15.0'N 1° 43.0'E | |
| 0520 Sp 10 | | |
| 0546 SUNRISE NAV 45 OFF | | |
| 0555 A/c 000 | | |
| 0626 FLYING STATIONS 0642 STOOD DOWN FLYING STATIONS | 0647 DECCA { 61° 16.0'N 1° 45.5'E | |
| 0635 A/c 150 | | |
| 0637 RECOVERED SK 07 | 0758 DECCA { 61° 10.0'N 1° 43.0'E | |
| 0639 LAUNCHED SK 07 | | |
| 0723 A/c 215 | | |
| 0730 FLYING STATIONS | | |
| 0738 A/c 270 SPI2 | | |
| 0800 LAUNCHED SK 07 | 0900 DECCA { 61°11.2'N 01°19'E | |
| | | |
| 0906- a/c 180 0930- CLEARED ZIG ZAG CO 160 | | |
| 0907- SPI5 | | |
| 0910- COMMENCED ZIG ZAG BASE CO 180 SPI5 | | |
| 1019- a/c 180 1037- a/c 160 SPI7 1045- a/c 270 | 1056 DECCA { 60°52'N 01°23'E | |
| 1020- RECOVERED SK 33 1038- RESUMED ZIG ZAG CO 180 1046- SPI5 | | |
| 1025- LAUNCHED SK 33 1042- CLEARED ZIG ZAG 1043- a/c 240 | | |
| 1102- a/c 240 1130- a/c 261 1148- FLYING STATIONS | | |
| 1105- a/c 190 1132- a/c 236 1150- RAS STATIONS | | |
| 1106- RECOVERED SK 17 1132- CLEARED ZIG ZAG CO 180 SPI2 1200- RECOVERED SK 33 | | |
| 1203- LAUNCHED SK 33 1214- MARGAREE 1st FIRST LINE PASSED | 1249 DECCA { 60° 38'N 01° 09'E | |
| 1204- RAS 550 CLOSING UP 1250- LAST LINE MARGAREE | | |
| 1205- STOOD DOWN FLYING STATIONS | | |
| 1305- SKREENA 1st FIRST LINE PASSED | | |
| 1339- LAST LINE SKREENA | | |
| 1354- IROQUOIS 1st FIRST LINE PASSED | | |
| 1418- FLYING STATIONS 1437- LAST LINE IROQUOIS | 1425 DECCA { 60° 04'N 0° 58'E | |
| 1430- RECOVERED SK 33 1439- SECURED RAS 550 | | |
| 1435- LAUNCHED SK 33 1442- STOOD DOWN FLYING STATIONS | 1600 DECCA { 59° 51'N 01° 09'E | |
| 1515- FLYING STATIONS 1557- SECURED FLYING STATIONS | | |
| 1522- RECOVERED SK 09 | | |
| 1554- LAUNCHED SK 19 | | |
| 1604- SECURED FLYING STATIONS 1625- SECURED FLYING STATIONS | 1700 DECCA FIX { 59°41'N 1°20'E | |
| 1606- FLYING STATIONS | 1800 DECCA FIX { 59°32'N 1°35'E | |
| 1610- RECOVERED IROQUOIS | | |
| 1612- LAUNCHED HELIX 1617 TO SKREENA | 1845 DECCA { 59° 24.0'N 1° 43.0'E | |
| 1725- a/c 135° | 1923 DECCA { 59° 18.0'N 1° 50.0'E | |
| 1744- SUNSHINE SWITCHED ON NAVATS | | |
| 1800- a/c 150 | 2100 DECCA { 59°00'N 02°07'E | |
| | 2200 DECCA { 58°49.8'N 02°19.9'E | |
| | 2300 DECCA { 58°38.5'N 02°33.0'E | |
| 2330(φ) - CLOCK ADVANCED ONE HR TO TIME ZONE (-1) | 2315 DECCA { 58°36.5'N 02°34.9'E | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|------------|-----------|----------------|---------|---------|-----|---------------------------------|
| 0800 | 61° 10.0'N | 1° 41.5'E | 0758 (φ) DECCA | Time | Forward | Aft | STEAMING |
| 1200 | 60° 38' N | 00° 58' E | 1200 DECCA | | | | |
| 2000 | 59° 12.0'N | 1° 57.0'E | 2000 (φ) DECCA | | | | |

HMCS PROTECTOR

SATUR DAY

28th OF

SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|----------------------------------|--------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | -1 | 4805.37 | 6.1 | 60.1 | 150 | 150 | 155 | 2°E | 7°W | | | | | | | | | | | | |
| 0200 | | 4818.00 | 12.1 | 60.0 | 150 | 150 | 155 | 2°E | 7°W | | | | | | | | | | | | |
| 0300 | | 4831.00 | 12.2 | 60.4 | 150 | 150 | 155 | 2°E | 6°W | | | | | | | | | | | | |
| 0400 | -1 | 4844.16 | 12.0 | 64.8 | 150 | 150 | 155 | 2°E | 6°W | 8 | 050 | 24 | 1 | 210 | 3 | 97 | 61 | 988.5 | 11.1 | 10.6 | 12.2 |
| 0500 | | 4857.77 | 11.0 | 60.0 | 150 | 150 | 155 | 1°E | 6°W | | | | | | | | | | | | |
| 0600 | | 4870.41 | 11.0 | 60.1 | 150 | 150 | 154.8 | 2°E | 6°W | | | | | | | | | | | | |
| 0700 | | 4883.90 | 11.0 | 60.0 | 150 | 150 | 154.8 | 2°E | 6°W | | | | | | | | | | | | |
| 0709 | | 4894.24 | 1.7 | | 150 | 150 | 154.8 | 2°E | 6°W | | | | | | | | | | | | |
| 0714 | | 4895.60 | 1.3 | | 150 | 150 | 154.8 | 2°E | 6°W | | | | | | | | | | | | |
| 0719 | | 4896.54 | 1.1 | | 150 | 150 | 154.8 | 2°E | 6°W | | | | | | | | | | | | |
| 0800 | -1 | 4898.21 | 6.9 | 60.0 | 142 | 142 | 146.0 | 2°E | 6°W | 5 | 030 | 22 | 2 | 210 | 8 | 98 | 01 | 993.0 | 12.2 | 11.1 | 12.2 |
| 0900 | | 4907.1 | 11.93 | 58.3 | 143 | 142 | 144 | 2½E | 4½W | | | | | | | | | | | | |
| 1000 | | 4918.4 | 11.22 | 55.8 | 143 | 142 | 144 | 2½E | 4½W | | | | | | | | | | | | |
| 1100 | | 4929.6 | 11.25 | 56.2 | 143 | 142 | 144 | 2½E | 4½W | | | | | | | | | | | | |
| 1200 | (-1) | 4941.79 | 11.9 | 58.3 | 143 | 142 | 144 | 2½E | 4½W | 7 | 220 | 28 | 2 | 220 | 8 | 98 | 02 | 987.0 | 10.0 | 9.4 | 133 |
| 1204 | | | | | 143 | 142 | 144 | 2½E | 4½W | | | | | | | | | | | | |
| 1300 | | 4953.00 | 11.2 | 60.2 | 145 | 144 | 146 | 2½E | 4½W | | | | | | | | | | | | |
| 1400 | | 4965.33 | 12.3 | 60.2 | 145 | 144 | 146 | 2½E | 4½W | | | | | | | | | | | | |
| 1500 | | 4975.70 | 10.4 | 52.2 | 145 | 144 | 146 | 2½E | 4½W | | | | | | | | | | | | |
| 1600 | -1 | 4981.50 | 7.2 | 39.7 | 145 | 144 | 146 | 2½E | 4½W | 7 | 260 | 16 | 1 | 230 | 8 | 98 | 02 | 991.5 | 11.1 | 8.9 | 133 |
| 1700 | | 4987.63 | 6.8 | 38.4 | 145 | 144 | 146½ | 2½E | 4°W | | | | | | | | | | | | |
| 1800 | 11 | 4993.85 | 6.9 | 38.4 | 145 | 144 | 146½ | 2½E | 4°W | 7 | 260 | 22 | 1 | 230 | 8 | 98 | 02 | 995.5 | 11.1 | 8.9 | 133 |
| 1810 | | 4994.02 | 1.0 | | 145 | 144 | 146½ | 2½E | 4°W | | | | | | | | | | | | |
| 1900 | | 5004.60 | 7.9 | 55.7 | 154 | 155 | 156 | 2E | 4°W | | | | | | | | | | | | |
| 2000 | -1 | 5014.72 | 10.0 | 54.3 | 154 | 155 | 156 | 2E | 4°W | 8 | 230 | 16 | 3 | 230 | 7 | 97 | 80 | 998.0 | 11.7 | 10.0 | 144 |
| 2100 | | 5027.80 | 13.1 | 60.7 | 154 | 155 | 156 | 2E | 4W | | | | | | | | | | | | |
| 2200 | | 5041.6 | 13.1 | 62.2 | 154 | 155 | 156 | 2E | 4W | | | | | | | | | | | | |
| 2256 | | 5053.61 | 11.8 | | 154 | 155 | 156 | 2E | 4W | | | | | | | | | | | | |
| 2300 | | 5054.83 | 13.2 | 62.2 | 162 | 163 | 164 | 2E | 4W | | | | | | | | | | | | |
| 2400 | -1 | 5068.05 | 13.1 | 62.1 | 162 | 163 | 164 | 2E | 4W | 4 | 240 | 24 | 1 | 210 | 5 | 98 | 02 | 1001.5 | 10.0 | 8.9 | 15.0 |

Distance run
through the Water
Midnight to
Midnight

260.9

Leave Granted to Ship's Company

Anchor Bearings

1974 FROM HALIFAX TO HAMBURG, OR AT

| REMARKS | | | | | | | Initials of the Officer of the Watch |
|---|-------------------------------------|-------------|----------------|---------|---------|-----|--------------------------------------|
| | | | | | | | |
| 0100 DECCA { 58° 28' N 02° 42' E | | | | | | | |
| 0200 - BLEW SOOT | 0200 DECCA { 58° 17' N 02° 53' E | | | | | | |
| 0300 DECCA { 58° 06' N 03° 03' E | | | | | | | |
| 0330 DECCA { 58° 02' N 03° 08' E | | | | | | | SVB |
| 0500 DECCA { 57° 48' N 3° 23' E FIX | | | | | | | |
| | | | | | | | |
| 0643 - SUNRISE; NAV LTS SWITCHED OFF | | | | | | | |
| 0700 DECCA { 57° 24' N 3° 46' E FIX | | | | | | | |
| 0709 - A/C 160° 0714 - A/C 150° 0719 - A/C 142° 0800 - HANDS EMPLOYED CLEANING SHIP (FRIDAY ROUTINE) | | | | | | | SVB |
| 0832 DECCA { 57° 13.5' N 03° 59.0' E | | | | | | | |
| | | | | | | | |
| 0950 DECCA { 57° 04.0' N 04° 12.0' E | | | | | | | |
| 1040 COMMENCED CAPTAINS ROUNDS | | | | | | | |
| 1035 DECCA { 56° 58.5' N 04° 20.0' E | | | | | | | |
| 1130 DECCA { 56° 51.0' N 04° 30.0' E | | | | | | | SVB |
| 1204 - A/C 145 | | | | | | | |
| | | | | | | | |
| 1330 DECCA { 56° 32.6' N 04° 56.8' E | | | | | | | |
| 1432 - SPB | | | | | | | |
| 1439 DECCA { 56° 21.2' N 05° 13.0' E | | | | | | | |
| 1530 DECCA { 56° 18.8' N 05° 18.9' E | | | | | | | SVB |
| 1630 DECCA { 56° 14' N 05° 29' E | | | | | | | |
| | | | | | | | |
| 1730 DECCA { 56° 09' N 05° 39' E | | | | | | | SVB |
| 1810 - A/C 155° & 154° (T) 1819 - SP12 1822 - SUNSET; NAV LTS SWITCHED ON 1930 - SPB (106 SET) 1945 - SONAR DOME HOUSED; SP12 | | | | | | | SVB |
| 1900 DECCA { 55° 58' N 5° 51' E FIX | | | | | | | |
| 2000 DECCA { 55° 49.7' N 6° 00.0' E FIX | | | | | | | SVB |
| 2030 DECCA { 55° 44.3' N 6° 05.4' E | | | | | | | |
| 2106 DECCA { 55° 38.5' N 6° 11.3' E | | | | | | | |
| 2227 DECCA { 55° 23.7' N 6° 24.8' E | | | | | | | |
| 2256 - A/C 162 | | | | | | | |
| 2344 DECCA { 55° 10.7' N 6° 34.8' E | | | | | | | SVB |
| | | | | | | | |
| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
| 0800 | 58° 17.8' N | 03° 52.0' E | 0800 (-) DECCA | Time | Forward | Aft | STEAMING |
| 1200 | 56° 45.6' | 04° 37.8' E | 1200 (-) DECCA | | | | |
| 2000 | 55° 49.7' N | 06° 00.0' E | 2000 (-) DECCA | | | | |
| 001222 | | | | | | | |

HMCS PROTECTEUR

SUN DAY

29TH OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenth | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|---------------------------------|-----------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 5080.60 | 12.6 | 62.2 | 160 | 159 | 161 1/2 | 2 1/2 E | 4 W | | | | | | | | | | | | |
| 0200 | | 5094.47 | 13.8 | 62.0 | 160 | 159 | 161 1/2 | 2 1/2 E | 4 W | | | | | | | | | | | | |
| 0300 | | 5108.32 | 13.8 | 63.7 | 160 | 159 | 161 1/2 | 2 1/2 E | 4 W | | | | | | | | | | | | |
| 0335 | | | | | 160 | 159 | 161 1/2 | 2 1/2 E | | | | | | | | | | | | | |
| 0400 | -1 | 5122.11 | 11.9 | 63.2 | 145 | 144 | 147 1/2 | 1 1/2 E | 4 W | 4 | 240 | 24 | 1 | 210 | 5 | 98 | 02 | 1002.2 | 10.0 | 8.9 | 12.8 |
| 0500 | | 5135.90 | 12.8 | 64.9 | 147 | 146 | 148 1/2 | 1 1/2 E | 4 W | | | | | | | | | | | | |
| 0600 | | 5150.48 | 13.2 | 67.9 | 147 | 146 | 148 1/2 | 1 1/2 E | 4 W | | | | | | | | | | | | |
| 0637 | | 5158.50 | 7.6 | | 147 | 146 | 148 1/2 | 1 1/2 E | | | | | | | | | | | | | |
| 0700 | | 5165.22 | 6.1 | 66.2 | 090 | 089 | 090 1/2 | 2 1/2 E | 4 W | | | | | | | | | | | | |
| 0800 | -1 | 5176.30 | 10.9 | 58.3 | VAR | VAR | VAR | VAR | 4 W | 3 | 215 | 16 | CALM | - | | 98 | 02 | 1002.5 | 9.4 | 8.3 | 15.0 |
| 0900 | | 5192.88 | 15.0 | 71.5 | VAR | VAR | VAR | VAR | 4 W | | | | | | | | | | | | |
| 1000 | | 5208.63 | 16.5 | 82.5 | VAR | VAR | VAR | VAR | 4 W | | | | | | | | | | | | |
| 1100 | | 5220.68 | 12.4 | 61.9 | VAR | VAR | VAR | VAR | 4 W | | | | | | | | | | | | |
| 1200 | (-1) | 5225.35 | 13.1 | 66.1 | VAR | VAR | VAR | VAR | 3 W | 3 | 200 | 12 | 0 | - | 0 | 98 | 02 | 1007.5 | 10.0 | 9.4 | 14.4 |
| 1300 | | 5236.48 | 8.7 | 42.6 | VAR | VAR | VAR | VAR | 3 W | | | | | | | | | | | | |
| 1400 | | 5227.10 | 0.8 | 7.2 | VAR | VAR | VAR | VAR | 3 W | | | | | | | | | | | | |
| 1405 | | 5227.11 | 0.0 | 0.0 | VAR | VAR | VAR | VAR | 3 W | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 4 | - | 0 | - | - | - | 98 | 03 | 1009.0 | 13.1 | 11.9 | 13.1 |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 4 | - | 0 | - | - | - | 98 | 02 | 1009.0 | 13.9 | 11.8 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 4 | - | 0 | - | - | - | 98 | 02 | 1009.0 | 11.1 | 9.4 | |

Distance run
through the Water
Midnight to
Midnight

169.2

Leave Granted to Ship's Company

PERSONNEL NOT REQUIRED FOR DUTY
FROM 1600 SUNDAY TO 0755 MONDAY

Anchor Bearings

Initials
of the
Officer
of the
Watch

HMCS

PROTECTOR

MON DAY

30th OF SEPTEMBER

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revs. per Minute | True Course | Gyro Com- pass Course | Standard Compass Course | Deviation | Variation | Cloud Amount (Eighths) | Wind | | Sea Height (In Feet) | Swell | | Visibility (Code vv) | Present Weather (Code ww) | Corrected Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|--|-------------|--|----------------------------------|--------------------------|-------------|--------------------------|----------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|--|--------------------------|----------|-----|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | | | | | | | | | | | | | | | | | | | | |
| 0200 | | | | | | | | | | | | | | | | | | | | | |
| 0300 | | | | | | | | | | | | | | | | | | | | | |
| 0400 | | | | | | | | | | 1 | CALM | - | - | - | 97 | 01 | 1009.0 | 8.9 | 7.2 | - | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 5 | CALM | - | - | - | 97 | 03 | 1009.0 | 9.4 | 8.3 | - | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | (-1) | | | | | | | | | 5 | CALM | - | - | - | 97 | 02 | 1011.5 | 11.7 | 10.6 | - | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 7 | CALM | - | - | - | 97 | 03 | 1011.0 | 12.8 | 10.7 | - | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 6 | CALM | - | - | - | 97 | 01 | 1015.0 | 11.1 | 10.0 | - | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 0 | CALM | - | - | - | 98 | 01 | 1015.3 | 11.1 | 10.0 | - | |
| Distance run through the Water Midnight to Midnight | | Leave Granted to Ship's Company | | | | | | | | | | Anchor Bearings | | | | | | | | | |
| | | PERSONNEL NOT REQUIRED FOR DUTY FROM 1200 MONDAY TO 0755 TUESDAY. | | | | | | | | | | | | | | | | | | | |

19 74

FROM

TO

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HAMBURG GERMANY

, OR AT ÜBERSEEBRÜCKE JE

REMARKS

Initials
of the
Officer
of the
Watch

0618 - SUNRISE

0620 - ESSO FUELLING BARGE BERGERVALEN ALONGSIDE

0800 - COLOURS; HANDS EMPLOYED AT CLEANING STATIONS.

0900 - SECURED CLEANING STATIONS; HANDS EMPLOYED BY DEPARTMENTS.

1030 - COMMANDING OFFICER DEPARTED FOR OFFICIAL CALLS ON CANADIAN CONSUL GENERAL MR E.H. MACQUIRE; SENATOR NOLLING REPRESENTATIVE OF SENATE OF HAMBURG AND CAPTAIN BRASACK COMMANDER HAMBURG GARRISON.

1110 - FUELLING BARGE SLIPPED 2511 BBL DIST TAKEN ON BOARD.

1200 - SECURE

1210 - ESSO FUELLING BARGE ALTONA ALONGSIDE

1415 - COMMANDING OFFICER RETURNED ON BOARD FROM OFFICIAL CALLS; 1418 - CANADIAN CONSUL GENERAL RETURNED CALL.

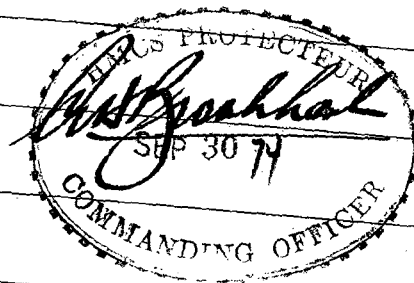
1430 - FUELLING BARGE SLIPPED 3372 BBL DIST TAKEN ON BOARD.

1500 - REPRESENTATIVE OF SENATE OF HAMBURG RETURNED CALL. REGIERUNGSDIREKTOR DR. H.-H. DÖRMER

1515 - COMMANDER, HAMBURG GARRISON RETURNED CALL. KAPITAN ZUR SEE PAUL BRASACK.

1801 - SUNSET

1920 - ROUNDS CORRECT



| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|--------------|---------|---------|--------|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° , | ° , | | 1500 | 28' 7" | 27' 0" | 12/11/74 4 HOURS |
| 1200 | ° , | ° , | | | | | |
| 2000 | ° , | ° , | | | | | |

REGULATIONS FOR PREVENTING COLLISIONS AT SEA

Established by Order-in-Council P.C. 1953-1287 dated 13 Aug. 1953. (Effective 1 January, 1954).

Part A.—Preliminary and Definitions

Rule 1

(a) These Rules shall be followed by all vessels and seaplanes upon the high seas and in all waters connected therewith navigable by seagoing vessels, except as provided in Rule 30. Where, as a result of their special construction, it is not possible for seaplanes to comply fully with the provisions of Rules specifying the carrying of lights and shapes, these provisions shall be followed as closely as circumstances permit.

(b) The Rules concerning lights shall be complied with in all weathers from sunset to sunrise, and during such times no other lights shall be exhibited, except such lights as cannot be mistaken for the prescribed lights or impair their visibility or distinctive character, or interfere with the keeping of a proper look-out.

(c) In the following Rules, except where the context otherwise requires:

- (i) the word "vessel" includes every description of water craft, other than a seaplane on the water, used or capable of being used as a means of transportation on water;
- (ii) the word "seaplane" includes a flying boat and any other aircraft designed to manoeuvre on the water;
- (iii) the term "power-driven vessel" means any vessel propelled by machinery;
- (iv) every power-driven vessel which is under sail and not under power is to be considered a sailing vessel, and every vessel under power, whether under sail or not, is to be considered a power-driven vessel;
- (v) a vessel or seaplane on the water is "under way" when she is not at anchor, or made fast to the shore, or aground;
- (vi) the term "height above the hull" means height above the upper-most continuous deck;
- (vii) the length and breadth of a vessel shall be deemed to be the length and breadth appearing in her certificate of registry;
- (viii) the length and span of a seaplane shall be its maximum length and span as shown in its certificate of airworthiness, or as determined by measurement in the absence of such certificate;
- (ix) the word "visible", when applied to lights, means visible on a dark night with a clear atmosphere;
- (x) the term "short blast" means a blast of about one second's duration;
- (xi) the term "prolonged blast" means a blast from four to six seconds' duration;
- (xii) the word "whistle" means whistle or siren;
- (xiii) the word "tons" means gross tons.

Part B.—Lights and Shapes

Rule 2

(a) A power-driven vessel when under way shall carry:

- (i) On or in front of the foremast, or if a vessel without a foremast then in the forepart of the vessel, a bright white light so constructed as to show an unbroken light over an arc of the horizon of 20 points (112½ degrees), so fixed as to show the light 10 points (112½ degrees) on each side of the vessel, that is, from right ahead to 2 points (22½ degrees) abaft the beam on either side, and of such a character as to be visible at a distance of at least 5 miles.
- (ii) Either forward of or abaft the white light mentioned in subsection (i) a second white light similar in construction and character to that light. Vessels of less than 150 feet in length, and vessels engaged in towing, shall not be required to carry this second white light but may do so.
- (iii) These two white lights shall be so placed in a line with and over the keel that one shall be at least 15 feet higher than the other and in such a position that the lower light shall be forward of the upper one. The horizontal distance between the two white lights shall be at least three times the vertical distance. The lower of these two white lights or, if only one is carried, then that light, shall be placed at a height above the hull of not less than 20 feet, and, if the breadth of the vessel exceeds 20 feet, then at a height above the hull not less than such breadth, so however, that the light need not be placed at a greater height above the hull than 40 feet. In all circumstances the light or lights, as the case may be, shall be so placed as to be clear of and above all other lights and obstructing superstructures.
- (iv) On the starboard side a green light so constructed as to show an unbroken light over an arc of the horizon of 10 points of the compass (112½ degrees), so fixed as to show the light from right ahead to 2 points (22½ degrees) abaft the beam on the starboard side, and of such a character as to be visible at a distance of at least 2 miles.
- (v) On the port side a red light so constructed as to show an unbroken light over an arc of the horizon of 10 points of the compass (112½ degrees), so fixed as to show the light from right ahead to 2 points (22½ degrees) abaft the beam on the port side, and of such a character as to be visible at a distance of at least 2 miles.
- (vi) The said green and red side lights shall be fitted with inboard screens projecting at least 3 feet forward from the light, so as to prevent these lights from being seen across the bows.

(b) A seaplane under way on the water shall carry:

- (i) In the forepart amidships where it can best be seen a bright white light, so constructed as to show an unbroken light over an arc of the horizon of 220 degrees of the compass, so fixed as to show the light 110 degrees on each side of the seaplane, namely, from right ahead to 20 degrees abaft the beam on either side, and of such a character as to be visible at a distance of at least 3 miles.
- (ii) On the right or starboard wing tip a green light, so constructed as to show an unbroken light over an arc of the horizon of 110 degrees of the compass, so fixed as to show the light from right ahead to 20 degrees abaft the beam on the starboard side, and of such a character as to be visible at a distance of at least 2 miles.
- (iii) On the left or port wing tip a red light, so constructed as to show an unbroken light over an arc of the horizon of 110 degrees of the compass, so fixed as to show the light from right ahead to 20 degrees abaft the beam on the port side, and of such a character as to be visible at a distance of at least 2 miles.

Rule 3

(a) A power-driven vessel when towing or pushing another vessel shall, in addition to her sidelights, carry two bright white lights in a vertical line one over the other, not less than 6 feet apart, and when towing more than one vessel shall carry an additional bright white light 6 feet above or below such lights, if the length of the tow, measuring from the stern of the towing vessel to the stern of the last vessel towed, exceeds 600 feet. Each of these lights shall be of the same construction and character and one of them shall be carried in the same position as the white light mentioned in Rule 2 (a) (i), except the additional light, which shall be carried at a height of not less than 14 feet above the hull. In a vessel with a single mast, such lights may be carried on the mast.

(b) The towing vessel shall also show either the stern light specified in Rule 10 or in lieu of that light a small white light abaft the funnel or aftermast for the tow to steer by, but such light shall not be visible forward of the beam. The carriage of the white light specified in Rule 2 (a) (ii) is optional.

(c) A seaplane on the water, when towing one or more seaplanes or vessels, shall carry the lights prescribed in Rule 2 (b) (i), (ii) and (iii); and, in addition, she shall carry a second white light of the same construction and character as the white light mentioned in Rule 2 (b) (i), and in a vertical line at least 6 feet above or below such light.

Rule 4

(a) A vessel which is not under command shall carry, where they can best be seen, and, if a power-driven vessel, in lieu of the lights required by Rule 2 (a) (i) and (ii), two red lights in a vertical line one over the other not less than 6 feet apart, and of such a character as to be visible all round the horizon at a distance of at least 2 miles. By day, she shall carry in a vertical line one over the other not less than 6 feet apart, where they can best be seen, two black balls or shapes each not less than 2 feet in diameter.

(b) A seaplane on the water which is not under command may carry, where they can best be seen, two red lights in a vertical line, one over the other, not less than 3 feet apart, and of such a character as to be visible all round the horizon at a distance of at least 2 miles, and may by day carry in a vertical line one over the other not less than 3 feet apart, where they can best be seen, two black balls or shapes, each not less than 2 feet in diameter.

(c) A vessel engaged in laying or in picking up a submarine cable or navigation mark, or a vessel engaged in surveying or underwater operations when from the nature of her work she is unable to get out of the way of approaching vessels, shall carry, in lieu of the lights specified in Rule 2 (a) (i) and (ii), three lights in a vertical line one over the other not less than 6 feet apart. The highest and lowest of these lights shall be red, and the middle light shall be white, and they shall be of such a character as to be visible all round the horizon at a distance of at least 2 miles. By day, she shall carry in a vertical line one over the other not less than 6 feet apart, where they can best be seen, three shapes each not less than 2 feet in diameter, of which the highest and lowest shall be globular in shape and red in colour, and the middle one diamond in shape and white.

(d) The vessels and seaplanes referred to in this Rule, when not making way through the water, shall not carry the coloured sidelights, but when making way they shall carry them.

(e) The lights and shapes required to be shown by this Rule are to be taken by other vessels and seaplanes as signals that the vessel or seaplane showing them is not under command and cannot therefore get out of the way.

(f) These signals are not signals of vessels in distress and requiring assistance. Such signals are contained in Rule 31.

Rule 5

(a) A sailing vessel under way and any vessel or seaplane being towed shall carry the same lights as are prescribed by Rule 2 for a power-driven vessel or a seaplane under way, respectively, with the exception of the white lights specified therein, which they shall never carry. They shall also carry stern lights as specified in Rule 10, provided that vessels towed, except the last vessel of a tow, may carry, in lieu of such stern light, a small white light as specified in Rule 3 (b).

(b) A vessel being pushed ahead shall carry, at the forward end, on the starboard side a green light and on the port side a red light, which shall have the same characteristics as the lights described in Rule 2 (a) (iv) and (v) and shall be screened as provided in Rule 2 (a) (vi), provided that any number of vessels pushed ahead in a group shall be lighted as one vessel.

Rule 6

(a) In small vessels, when it is not possible on account of bad weather or other sufficient cause to fix the green and red sidelights, these lights shall be kept at hand lighted and ready for immediate use, and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side nor the red light on the starboard side, nor, if practicable, more than 2 points (22½ degrees) abaft the beam on their respective sides.

(b) To make the use of these portable lights more certain and easy, the lanterns containing them shall each be painted outside with the colour of the lights they respectively contain, and shall be provided with proper screens.

Rule 7

Power-driven vessels of less than 40 tons, vessels under oars or sails of less than 20 tons, and rowing boats, when under way shall not be required to carry the lights mentioned in Rule 2, but if they do not carry them they shall be provided with the following lights:

(a) Power-driven vessels of less than 40 tons, except as provided in section (b), shall carry:

- (i) In the forepart of the vessel, where it can best be seen, and at a height above the gunwale of not less than 9 feet, a bright white light constructed and fixed as prescribed in Rule 2 (a) (i) and of such a character as to be visible at a distance of at least 3 miles.
- (ii) Green and red sidelights constructed and fixed as prescribed in Rule 2 (a) (iv) and (v), and of such a character as to be visible at a distance of at least 1 mile, or a combined lantern showing a green light and a red light from right ahead to 2 points (22½ degrees) abaft the beam on their respective sides. Such lantern shall be carried not less than 3 feet below the white light.

(b) Small power-driven boats, such as are carried by seagoing vessels, may carry the white light at a less height than 9 feet above the gunwale, but it shall be carried above the sidelights or the combined lantern mentioned in subsection (a) (ii).

(c) Vessels of less than 20 tons, under oars or sails, except as provided in section (d), shall, if they do not carry the sidelights, carry where it can best be seen a lantern showing a green light on one side and a red light on the other, of such a character as to be visible at a distance of at least 1 mile, and so fixed that the green light shall not be seen on the port side, nor the red light on the starboard side. Where it is not possible to fix this light, it shall be kept ready for immediate use and shall be exhibited in sufficient time to prevent collision and so that the green light shall not be seen on the port side nor the red light on the starboard side.

(d) Small rowing boats, whether under oars or sail, shall only be required to have ready at hand an electric torch or a lighted lantern showing a white light, which shall be exhibited in sufficient time to prevent collision.

(e) The vessels and boats referred to in this Rule shall not be required to carry the lights or shapes prescribed in Rules 4 (a) and 11 (e).

Rule 8

- (a) (i) Sailing pilot-vessels, when engaged on their station on pilotage duty and not at anchor, shall not show the lights prescribed for other vessels, but shall carry a white light at the masthead visible all round the horizon at a distance of at least 3 miles, and shall also exhibit a flare-up light, or flare-up lights at short intervals, which shall never exceed 10 minutes.

- (ii) On the near approach of or to other vessels they shall have their sidelights lighted ready for use and shall flash or show them at short intervals, to indicate the direction in which they are heading, but the green light shall not be shown on the port side, nor the red light on the starboard side.
- (iii) A sailing pilot-vessel of such a class as to be obliged to go alongside of a vessel to put a pilot on board may show the white light instead of carrying it at the masthead and may, instead of the sidelights above mentioned, have at hand ready for use a lantern with a green glass on the one side and a red glass on the other to be used as prescribed above.

(b) A power-driven pilot-vessel when engaged on her station on pilotage duty and not at anchor shall, in addition to the lights and flares required for sailing pilot-vessels, carry at a distance of 8 feet below her white masthead light a red light visible all round the horizon at a distance of at least 3 miles, and also the sidelights required to be carried by vessels when under way. A bright intermittent all round white light may be used in place of a flare.

(c) All pilot-vessels, when engaged on their stations on pilotage duty and at anchor, shall carry the lights and show the flares prescribed in sections (a) and (b), except that the sidelights shall not be shown. They shall also carry the anchor light or lights prescribed in Rule 11.

(d) All pilot-vessels, whether at anchor or not at anchor, shall, when not engaged on their stations on pilotage duty, carry the same lights as other vessels of their class and tonnage.

Rule 9

(a) Fishing vessels when not fishing shall show the lights or shapes prescribed for similar vessels of their tonnage. When fishing they shall show only the lights or shapes prescribed by this Rule, which lights or shapes, except as otherwise provided, shall be visible at a distance of at least 2 miles.

(b) Vessels fishing with trolling (towing) lines, shall show only the lights prescribed for a power-driven or sailing vessel under way as may be appropriate.

(c) Vessels fishing with nets or lines, except trolling (towing) lines, extending from the vessel not more than 500 feet horizontally into the seaway shall show, where it can best be seen, one all round white light and in addition, on approaching or being approached by another vessel, shall show a second white light at least 6 feet below the first light and at a horizontal distance of at least 10 feet away from it (6 feet in small open boats) in the direction in which the outlying gear is attached. By day such vessels shall indicate their occupation by displaying a basket where it can best be seen; and if they have their gear out while at anchor, they shall, on the approach of other vessels, show the same signal in the direction from the anchor ball towards the net or gear.

(d) Vessels fishing with nets or lines, except trolling (towing) lines, extending from the vessel more than 500 feet horizontally into the seaway shall show, where they can best be seen, three white lights at least 3 feet apart in a vertical triangle visible all round the horizon. When making way through the water, such vessels shall show the proper coloured sidelights but when not making way they shall not show them. By day they shall show a basket in the forepart of the vessel as near the stem as possible not less than 10 feet above the rail; and, in addition, where it can best be seen, one black conical shape, apex upwards. If they have their gear out while at anchor they shall, on the approach of other vessels, show the basket in the direction from the anchor ball towards the net or gear.

(e) Vessels when engaged in trawling, by which is meant the dragging of a dredge net or other apparatus along or near the bottom of the sea, and not at anchor:

- (i) If power-driven vessels, shall show in the same position as the white light mentioned in Rule 2 (a) (i) a tri-coloured lantern, so constructed and fixed as to show a white light from right ahead to 2 points (22½ degrees) on each bow, and a green light and a red light over an arc of the horizon from 2 points (22½ degrees) on each bow to 2 points (22½ degrees) abaft the beam on the starboard and port sides, respectively; and not less than 6 nor more than 12 feet below the tri-coloured lantern a white light in a lantern, so constructed as to show a clear, uniform, and unbroken light all round the horizon. They shall also show the stern light specified in Rule 10 (a).

- (ii) If sailing vessels, shall carry a white light in a lantern so constructed as to show a clear, uniform, and unbroken light all round the horizon, and shall also, on the approach of or to other vessels show, where it can best be seen, a white flare-up light in sufficient time to prevent collision.

- (iii) By day, each of the foregoing vessels shall show, where it can best be seen, a basket.

(f) In addition to the lights which they are by this Rule required to show vessels fishing may, if necessary in order to attract attention of approaching vessels, show a flare-up light. They may also use working lights.

(g) Every vessel fishing, when at anchor, shall show the lights or shapes specified in Rule 11 (a), (b) or (c); and shall, on the approach of another vessel or vessels, show an additional white light at least 6 feet below the forward anchor light and at a horizontal distance of at least 10 feet away from it in the direction of the outlying gear.

(h) If a vessel when fishing becomes fast by her gear to a rock or other obstruction she shall in daytime haul down the basket required by sections (c), (d) or (e) and show the signal specified in Rule 11 (c). By night she shall show the light or lights specified in Rule 11 (a) or (b). In fog, mist, falling snow, heavy rainstorms or any other condition similarly restricting visibility, whether by day or by night, she shall sound the signal prescribed by Rule 15 (c) (v), which signal shall also be used, on the near approach of another vessel, in good visibility.

NOTE.—For fog signals for fishing vessels, see Rule 15 (c) (ix).

Rule 10

(a) A vessel when under way shall carry at her stern a white light, so constructed that it shall show an unbroken light over an arc of the horizon of 12 points of the compass (135 degrees), so fixed as to show the light 6 points (67½ degrees) from right aft on each side of the vessel, and of such a character as to be visible at a distance of at least 2 miles. Such light shall be carried as nearly as practicable on the same level as the sidelights.

NOTE.—For vessels engaged in towing or being towed, see Rules 3 (b) and 5.

(b) In a small vessel, if it is not possible on account of bad weather or other sufficient cause for this light to be fixed, an electric torch or a lighted lantern shall be kept at hand ready for use and shall, on the approach of an overtaking vessel, be shown in sufficient time to prevent collision.

(c) A seaplane on the water when under way shall carry on her tail a white light, so constructed as to show an unbroken light over an arc of the horizon of 140 degrees of the compass, so fixed as to show the light 70 degrees from right aft on each side of the seaplane, and of such a character as to be visible at a distance of at least 2 miles.

Rule 11

(a) A vessel under 150 feet in length, when at anchor, shall carry in the forepart of the vessel, where it can best be seen, a white light in a lantern so constructed as to show a clear, uniform, and unbroken light visible all round the horizon at a distance of at least 2 miles.

(b) A vessel of 150 feet or upwards in length, when at anchor, shall carry in the forepart of the vessel, at a height of not less than 20 feet above the hull, one such light, and at or near the stern of the vessel and at such a height that it shall be not less than 15 feet lower than the forward light, another such light. Both these lights shall be visible all round the horizon at a distance of at least 3 miles.

(c) Between sunrise and sunset every vessel when at anchor shall carry in the forepart of the vessel, where it can best be seen, one black ball not less than 2 feet in diameter.

(d) A vessel engaged in laying or in picking up a submarine cable or navigation mark, or a vessel engaged in surveying or underwater operations, when at anchor, shall carry the lights or shapes prescribed in Rule 4 (c) in addition to those prescribed in the appropriate preceding sections of this Rule.

(e) A vessel aground shall carry by night the light or lights prescribed in sections (a) or (b) and the two red lights prescribed in Rule 4 (a). By day she shall carry, where they can best be seen, three black balls, each not less than 2 feet in diameter, placed in a vertical line one over the other, not less than 6 feet apart.

(f) A seaplane on the water under 150 feet in length, when at anchor, shall carry, where it can best be seen, a white light, visible all round the horizon at a distance of at least 2 miles.

(g) A seaplane on the water 150 feet or upwards in length, when at anchor, shall carry, where they can best be seen, a white light forward and a white light aft, both lights visible all round the horizon at a distance of at least 3 miles; and, in addition, if the seaplane is more than 150 feet in span, a white light on each side to indicate the maximum span, and visible, so far as practicable, all round the horizon at a distance of 1 mile.

(h) A seaplane aground shall carry an anchor light or lights as prescribed in sections (f) and (g), and in addition may carry two red lights in a vertical line, at least 3 feet apart, so placed as to be visible all round the horizon.

Rule 12

Every vessel or seaplane on the water may, if necessary in order to attract attention, in addition to the lights which she is by these Rules required to carry, show a flare-up light or use a detonating or other efficient sound signal that cannot be mistaken for any signal authorized elsewhere under these Rules.

Rule 13

(a) Nothing in these Rules shall interfere with the operation of any special rules made by the Government of any nation with respect to additional station and signal lights for ships of war, for vessels sailing under convoy, or for seaplanes on the water; or with the exhibition of recognition signals adopted by shipowners, which have been authorized by their respective Governments and duly registered and published.

(b) Whenever the Governments concerned shall have determined that a naval or other military vessel or waterborne seaplane of special construction or purpose cannot comply fully with the provisions of any of these Rules with respect to the number, position, range or arc of visibility of lights or shapes, without interfering with the military function of the vessel or seaplane, such vessel or seaplane shall comply with such other provisions in regard to the number, position, range or arc of visibility of lights or shapes as her Government shall have determined to be the closest possible compliance with these Rules in respect of that vessel or seaplane.

Rule 14

A vessel proceeding under sail, when also being propelled by machinery, shall carry in the daytime forward, where it can best be seen, one black conical shape, point upwards, not less than 2 feet in diameter at its base.

Rule 15

(a) A power-driven vessel shall be provided with an efficient whistle, sounded by steam or by some substitute for steam; so placed that the sound may not be intercepted by any obstruction, and with an efficient fog-horn, to be sounded by mechanical means, and also with an efficient bell. A sailing vessel of 20 tons or upwards shall be provided with a similar fog-horn and bell.

(b) All signals prescribed by this Rule for vessels under way shall be given:

- (i) by power-driven vessels on the whistle;
- (ii) by sailing vessels on the fog-horn;
- (iii) by vessels towed on the whistle or fog-horn.

(c) In fog, mist, falling snow, heavy rainstorms, or any other condition similarly restricting visibility, whether by day or night, the signals prescribed in this Rule shall be used as follows:

- (i) A power-driven vessel making way through the water, shall sound at intervals of not more than 2 minutes a prolonged blast.
- (ii) A power-driven vessel under way, but stopped and making no way through the water, shall sound at intervals of not more than 2 minutes two prolonged blasts, with an interval of about 1 second between them.
- (iii) A sailing vessel under way shall sound, at intervals of not more than 1 minute, when on the starboard tack one blast, when on the port tack two blasts in succession, and when with the wind abaft the beam three blasts in succession.
- (iv) A vessel when at anchor shall at intervals of not more than 1 minute ring the bell rapidly for about 5 seconds. In vessels of more than 350 feet in length the bell shall be sounded in the forepart of the vessel, and in addition there shall be sounded in the after part of the vessel, at intervals of not more than 1 minute for about 5 seconds, a gong or other instrument, the tone and sounding of which cannot be confused with that of the bell. Every vessel at anchor may in addition, in accordance with Rule 12, sound three blasts in succession, namely, one short, one prolonged, and one short blast, to give warning of her position and of the possibility of collision to an approaching vessel.
- (v) A vessel when towing, a vessel engaged in laying or in picking up a submarine cable or navigation mark, and a vessel under way which is unable to get out of the way of an approaching vessel through being not under command or unable to manoeuvre as required by these Rules shall, instead of the signals prescribed in subsections (i), (ii) and (iii) sound, at intervals of not more than 1 minute, three blasts in succession, namely, one prolonged blast followed by two short blasts.
- (vi) A vessel towed, or, if more than one vessel is towed, only the last vessel of the tow, if manned, shall, at intervals of not more than 1 minute, sound four blasts in succession, namely, one prolonged blast followed by three short blasts. When practicable, this signal shall be made immediately after the signal made by the towing vessel.
- (vii) A vessel aground shall give the signal prescribed in subsection (iv) and shall, in addition, give three separate and distinct strokes on the bell immediately before and after each such signal.
- (viii) A vessel of less than 20 tons, a rowing boat, or a seaplane on the water, shall not be obliged to give the above-mentioned signals, but if she does not, she shall make some other efficient sound signal at intervals of not more than 1 minute.
- (ix) A vessel when fishing, if of 20 tons or upwards, shall at intervals of not more than 1 minute, sound a blast, such blast to be followed by ringing the bell; or she may sound, in lieu of these signals, a blast consisting of a series of several alternate notes of higher and lower pitch.

Rule 16

Speed to be moderate in fog, etc.

(a) Every vessel, or seaplane when taxi-ing on the water, shall, in fog, mist, falling snow, heavy rainstorms or any other condition similarly restricting visibility, go at a moderate speed, having careful regard to the existing circumstances and conditions.

(b) A power-driven vessel hearing, apparently forward of her beam, the fog-signal of a vessel the position of which is not ascertained, shall, so far as the circumstances of the case admit, stop her engines, and then navigate with caution until danger of collision is over.

Part C.—Steering and Sailing Rules

Preliminary

1. In obeying and construing these Rules, any action taken should be positive, in ample time, and with due regard to the observance of good seamanship.
2. Risk of collision can, when circumstances permit, be ascertained by carefully watching the compass bearing of an approaching vessel. If the bearing does not appreciably change, such risk should be deemed to exist.
3. Mariners should bear in mind that seaplanes in the act of landing or taking off, or operating under adverse weather conditions, may be unable to change their intended action at the last moment.

Rule 17

When two sailing vessels are approaching one another, so as to involve risk of collision, one of them shall keep out of the way of the other, as follows:

- (a) A vessel which is running free shall keep out of the way of a vessel which is close-hauled.
- (b) A vessel which is close-hauled on the port tack shall keep out of the way of a vessel which is close-hauled on the starboard tack.
- (c) When both are running free, with the wind on different sides, the vessel which has the wind on the port side shall keep out of the way of the other.
- (d) When both are running free, with the wind on the same side, the vessel which is to windward shall keep out of the way of the vessel which is to leeward.
- (e) A vessel which has the wind aft shall keep out of the way of the other vessel.

Rule 18

(a) When two power-driven vessels are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each may pass on the port side of the other. This Rule only applies to cases where vessels are meeting end on, or nearly end on, in such a manner as to involve risk of collision, and does not apply to two vessels which must, if both keep on their respective courses, pass clear of each other. The only cases to which it does apply are when each of two vessels is end on, or nearly end on, to the other; in other words, to cases in which, by day, each vessel sees the masts of the other in a line, or nearly in a line, with her own; and by night, to cases in which each vessel is in such a position as to see both the sidelights of the other. It does not apply, by day, to cases in which a vessel sees another ahead crossing her own course; or, by night, to cases where the red light of one vessel is opposed to the red light of the other or where the green light of one vessel is opposed to the green light of the other or where a red light without a green light or a green light without a red light is seen ahead, or where both green and red lights are seen anywhere but ahead.

(b) For the purposes of this Rule and Rules 19 to 29 inclusive, except Rule 20 (b), a seaplane on the water shall be deemed to be a vessel, and the expression "power-driven vessel" shall be construed accordingly.

Rule 19

When two power-driven vessels are crossing, so as to involve risk of collision, the vessel which has the other on her own starboard side shall keep out of the way of the other.

Rule 20

- (a) When a power-driven vessel and a sailing vessel are proceeding in such directions as to involve risk of collision, except as provided in Rules 24 and 26, the power-driven vessel shall keep out of the way of the sailing vessel.
- (b) A seaplane on the water shall, in general, keep well clear of all vessels and avoid impeding their navigation. In circumstances, however, where risk of collision exists, she shall comply with these Rules.

Rule 21

Where, by any of these Rules one of two vessels is to keep out of the way, the other shall keep her course and speed. When, from any cause the latter vessel finds herself so close that collision cannot be avoided by the action of the giving-way vessel alone, she also shall take such action as will best aid to avert collision (see Rules 27 and 29).

Rule 22

Every vessel which is directed by these Rules to keep out of the way of another vessel shall, if the circumstances of the case admit, avoid crossing ahead of the other.

Rule 23

Every power-driven vessel which is directed by these Rules to keep out of the way of another vessel shall, on approaching her, if necessary, slacken her speed or stop or reverse.

Rule 24

- (a) Notwithstanding anything contained in these Rules, every vessel overtaking any other shall keep out of the way of the overtaken vessel.
- (b) Every vessel coming up with another vessel from any direction more than 2 points (22½ degrees) abaft her beam, i.e. in such a position, with reference to the vessel which she is overtaking, that at night she would be unable to see either of that vessel's sidelights, shall be deemed to be an overtaking vessel; and no subsequent alteration of the bearing between the two vessels shall make the overtaking vessel a crossing vessel within the meaning of these Rules, or relieve her of the duty of keeping clear of the overtaken vessel until she is finally past and clear.

(c) If the overtaking vessel cannot determine with certainty whether she is forward of or abaft this direction from the other vessel, she shall assume that she is an overtaking vessel and keep out of the way.

Rule 25

(a) In a narrow channel every power-driven vessel when proceeding along the course of the channel shall, when it is safe and practicable, keep to that side of the fairway or mid-channel which lies on the starboard side of such vessel.

(b) Whenever a power-driven vessel is nearing a bend in a channel where a power-driven vessel approaching from the other direction cannot be seen, such vessel, when she shall have arrived within one-half mile of the bend, shall give a signal by one prolonged blast of her whistle, which signal shall be answered by a similar blast given by any approaching power-driven vessel that may be within hearing around the bend. Regardless of whether an approaching vessel on the farther side of the bend is heard, such bend shall be rounded with alertness and caution.

Rule 26

All vessels not engaged in fishing shall, when under way, keep out of the way of any vessels fishing with nets or lines or trawls. This Rule shall not give to any vessel engaged in fishing the right of obstructing a fairway used by vessels other than fishing vessels.

Rule 27

In obeying and construing these Rules due regard shall be had to all dangers of navigation and collision, and to any special circumstances, including the limitations of the craft involved, which may render a departure from the above Rules necessary in order to avoid immediate danger.

Part D.—Miscellaneous

Rule 28

(a) When vessels are in sight of one another, a power-driven vessel under way, in taking any course authorized or required by these Rules, shall indicate that course by the following signals on her whistle, namely:—

- One short blast to mean "I am altering my course to starboard."
- Two short blasts to mean "I am altering my course to port."
- Three short blasts to mean "My engines are going astern."

(b) Whenever a power-driven vessel which, under these Rules, is to keep her course and speed, is in sight of another vessel and is in doubt whether sufficient action is being taken by the other vessel to avert collision, she may indicate such doubt by giving at least five short and rapid blasts on the whistle. The giving of such a signal shall not relieve a vessel of her obligations under Rules 27 and 29 or any other Rule, or of her duty to indicate any action taken under these Rules by giving the appropriate sound signals laid down in this Rule.

(c) Nothing in these Rules shall interfere with the operation of any special rules made by the Government of any nation with respect to the use of additional whistle signals between ships of war or vessels sailing under convoy.

Rule 29

Nothing in these Rules shall exonerate any vessel, or the owner, master or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper look-out, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Rule 30

Reservation of Rules for Harbours and Inland Navigation

Nothing in these Rules shall interfere with the operation of a special rule duly made by local authority relative to the navigation of any harbour, river, lake, or inland water, including a reserved seaplane area.

Rule 31

Distress Signals

When a vessel or seaplane on the water is in distress and requires assistance from other vessels or from the shore, the following shall be the signals to be used or displayed by her, either together or separately, namely:

- (a) A gun or other explosive signal fired at intervals of about a minute.
- (b) A continuous sounding with any fog-signal apparatus.
- (c) Rockets or shells, throwing red stars fired one at a time at short intervals.
- (d) A signal made by radiotelegraphy or by any other signalling method consisting of the group — — — in the Morse Code.
- (e) A signal sent by radiotelephony consisting of the spoken word "Mayday".
- (f) The International Code Signal of distress indicated by N.C.
- (g) A signal consisting of a square flag having above or below it a ball or anything resembling a ball.
- (h) Flames on the vessel (as from a burning tar barrel, oil barrel, etc.).
- (i) A rocket parachute flare showing a red light.

The use of any of the above signals, except for the purpose of indicating that a vessel or a seaplane is in distress, and the use of any signals which may be confused with any of the above signals, is prohibited.

Note.—A radio signal has been provided for use by vessels in distress for the purpose of actuating the auto-alarms of other vessels and thus securing attention to distress calls or messages. The signal consists of a series of twelve dashes, sent in 1 minute, the duration of each dash being 4 seconds, and the duration of the interval between two consecutive dashes 1 second.

Rule 32

All orders to helmsmen shall be given in the following sense: right rudder or starboard to mean "put the vessel's rudder to starboard"; left rudder or port to mean "put the vessel's rudder to port".

ST. LAWRENCE RIVER REGULATIONS

Established by Order in Council P.C. 1954-1925. (Effective 8 December, 1954).

REGULATIONS FOR THE ST. LAWRENCE RIVER FROM FATHER POINT TO VICTORIA BRIDGE AT MONTREAL

1. These regulations may be cited as the St. Lawrence River Regulations.

2. These Regulations apply to the St. Lawrence River between Victoria Bridge at Montreal and Father Point including the harbours of Montreal, Three Rivers and Quebec.

3. When any aid to navigation or any mark or dredge of the Department of Transport is moved, carried away or damaged by any person, vessel or vehicle, such person or the person in charge of the vessel or vehicle shall forthwith replace or repair the aid to navigation, mark or dredge, to the fullest extent possible in the circumstances.

4. The owner of every vessel is liable to the Crown for damage done by such vessel to any aid to navigation or other property of the Crown.

5. No person shall encumber navigable waters or in any way obstruct the navigation thereof with stones, filth, rubbish, timber, logs, spars, rafts, cribs or wrecks of vessels; or throw therein fuel-oil, coal ashes, cinders, hay, straw, ballast or any other matter or thing by which navigation may be impeded or injured; and a further like penalty to that which is hereinafter imposed for a breach of this section shall be incurred by any person guilty of such breach, if he does not remove or cause to be removed any such obstruction within a reasonable time to the satisfaction of the Minister of Transport after being required to do so by any officer appointed for such purpose by the Minister; and a further like penalty shall be incurred for every subsequent day during which such obstruction is not removed.

6. No vessel while under way or drifting shall trail its anchor.

7. No vessel drawing nine feet of water or less and no barge or raft shall, except in case of accident, stress of weather or force of current use the deep water channels

(a) near Pointe aux Trembles (en haut);

(b) at, between or near Varennes and Buoy 5-M St. Ours Traverse, except between Buoys 104-M and 116-M, and between Buoys 122-M and 124-M;

(c) in Lake St. Peter between the upper end of the St. Francis Bank and the English Bank;

(d) at or near Port St. Francis;

(e) at, between or near Batiscan and Cap Charles;

(f) in the dredged channel below Quebec known as Madame Reef-Brule Bank Channel, between Buoys 120½B and 112B, except between Buoys 114½B and 114B; or

(g) at or near Buoys 109½B, 109B and 108B.

8. Vessels drawing nine feet of water or less and barges and rafts shall at all times keep to the proper side of the fairway and away from the established steamer track between Quebec and Father Point, except when crossing the steamer track at right angles.

9. Rafts descending the river, whether in tow or otherwise, shall

(a) keep to the north of Ile Deslauriers or Laurette Island, and Ile Bellegarde; and

(b) when opposite to Ile au Raisin in Lake St. Peter, keep to the south of the Ship Channel, as far as Nicolet Traverse.

10. No vessel, when passing any dredge, wreck or tow of barges, shall move at greater than slow speed.

11. Between Victoria Bridge at Montreal and the western limits of the harbour of Quebec every vessel overtaking another and intending to pass shall, at a distance of one-half mile from the other vessel, give one prolonged blast on its whistle, to which the other shall, if safe and practicable, reply by a similar signal, decrease its speed, to dead slow if necessary, and direct its course to port, and the overtaking vessel, upon arriving in close proximity to the overtaken vessel, shall also reduce its speed, maintaining only sufficient speed to enable it to pass the overtaken vessel to starboard; after having answered the prolonged blast of the overtaking vessel by a similar signal, if the overtaken vessel does not consider it safe and practicable to allow the other vessel to pass to starboard, it shall, after an interval of not less than one minute and not more than two minutes, give one short blast and direct its course to starboard and the overtaking vessel shall direct its course to port and pass accordingly.

12. A vessel navigating against the current or tide shall before meeting another vessel at any sharp turn or narrow passage, or where the navigation is intricate, stop, and if necessary, come to a position of safety below or above the point of danger and there remain until the channel is clear.

13. The following conditions apply to vessels being towed:

(a) if canal barges, there shall not be more than ten in number, five in length and two abreast;

(b) if sand barges, there shall not be more than six in number, three in length and two abreast;

(c) if mixed vessels, there shall not be more than eight in number, four in length and two abreast; and

(d) a complete tow from the stem of the tug to the stern of tow shall not exceed 1,000 feet in length.

14. (1) A steam vessel when at anchor shall, between sunrise and sunset, carry in its forward part a black ball not less than two feet in diameter, and at or near the stern another such ball; the forward ball shall be carried at a height above the superstructure or other erections other than the funnel on the vessel, but in no case less than twenty feet above the hull, and the stern or after ball shall not be less than fifteen feet lower than the forward ball; the above signals shall be reversed when the vessel is anchored only by the stern.

(2) Every vessel anchoring with a stern anchor shall notify the Signal Service at Quebec by wireless thereof, which in turn shall notify all vessels.

14A. (1) Every dredge shall show at its forward and after ends

(a) from sunrise to sunset, two black balls or shapes not less than two feet in diameter, and

(b) from sunset to sunrise, two red lights suspended one over the other not less than six feet apart and not less than ten feet outside the hull on the side on which other vessels are to pass.

(2) In the case of a dipper dredge, the shapes and lights prescribed by subsection (1) shall be suspended at a sufficient height and at sufficient distance from its side that they shall, with the dipper arm and boom athwartship, be visible at all times.

15. Every person who commits a breach of these regulations is liable on summary conviction to a penalty not exceeding five hundred dollars and the costs of the conviction and, in default of payment of such penalty and costs, to imprisonment for a period of not more than thirty days.

RULES OF THE ROAD FOR THE GREAT LAKES

Established by Order in Council P.C. 1954-1927. (Effective 8 December, 1954).

RULES OF THE ROAD FOR THE GREAT LAKES

Definitions

1. In these rules,
 - (a) "motor boat" includes every vessel propelled by machinery and not more than sixty-five feet in length except vessels towing; the length to be measured from end to end over the deck, excluding sheer;
 - (b) "pilot" includes the master, officer or other person in charge of the navigation of a vessel;
 - (c) "prescribed" means prescribed by these Rules;
 - (d) "steam vessel" includes any vessel propelled by machinery, whether under sail or not;
 - (e) "sailing vessel" includes every steam vessel that is under sail and is not being propelled by machinery;
 - (f) "under way" — a vessel is under way when she is not at anchor, made fast to the shore, or aground; and
 - (g) "visible" when applied to lights means visible on a dark night with a clear atmosphere.

Application

2. (1) These rules apply on Lakes Ontario, Erie, Huron (including Georgian Bay), Michigan and Superior, their connecting and tributary waters, and the Ottawa and St. Lawrence Rivers and their tributaries as far east as the lower exit of the Lachine Canal and the Victoria Bridge at Montreal.

(2) The rules concerning lights apply in all weathers from sunset to sunrise, and during such time no other lights that could be mistaken for the prescribed lights or impair their visibility shall be exhibited.

Steam Vessels

3. (1) Except in the cases hereinafter expressly provided for, a steam vessel when under way shall carry,

- (a) on or in front of the foremast, or if a vessel without a foremast, then in the fore part of a vessel, a bright white light so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel, namely, from right ahead to two points abaft the beam on either side, and of such a character as to be visible at a distance of at least five miles; such light shall be at a greater height above the water than the side lights required by paragraphs (b) and (c);
- (b) on the starboard side, a green light, so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side and of such a character as to be visible at a distance of at least two miles; and
- (c) on the port side, a red light, so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible at a distance of at least two miles.

(2) The green and red lights required by paragraphs (b) and (c) of subsection (1) shall each be fitted with an inboard screen projecting at least three feet forward from the light, so as to prevent the light from being seen across the bow.

(3) A steam vessel of over one hundred feet register length when under way shall carry, in addition to the lights prescribed by subsection (1), a bright white light so fixed as to throw the light all around the horizon, and of such a character as to be visible at a distance of at least three miles, such lights to be placed in line with the keel at least fifteen feet higher than, and more than fifty feet abaft, the light required by paragraph (a) of subsection (1); or in lieu thereof two such lights of the same character and height as herein described placed not over thirty inches apart horizontally, one on either side of the keel, and so arranged that one or the other or both shall be visible from any angle of approach.

(4) A steam vessel not more than one hundred feet in length when under way shall carry, in addition to the lights prescribed by subsection (1), a bright white light aft to show all around the horizon; such light shall be placed in line with the keel higher than the light required by paragraph (a) of subsection (1).

Vessels towing, other than those towing rafts

4. A steam vessel having a tow other than a raft, shall in addition to the lights prescribed for vessels of her length by rule 3, carry forward a second bright white light; such light shall be of the same construction and character and fixed in the same manner as the light prescribed by rule 3 (1) (a) and shall be carried in a position not less than six feet vertically above or below that light; such steam vessel shall also carry a small white light abaft the funnel or aftermast for the tow to steer by, but such light shall not be visible forward of the beam.

Vessels Towing Rafts

5. A steam vessel having a raft in tow shall, instead of the forward lights mentioned in rule 4, carry on or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, two white lights in a horizontal line athwartships and not less than eight feet apart, each so fixed as to throw the light all around the horizon and of such a character as to be visible at a distance of at least five miles; such steam vessel shall also carry the small white steering light aft, of the character and fixed as required by rule 4, and shall also comply with the requirements of rule 3 respecting side lights, screens and range lights.

Tugboats

6. (1) A tugboat under one hundred tons register (net) whose principal business is harbour towing, shall carry the red and green side lights carried by other steam vessels; and at the foremast head or, if the tugboat has no foremast, then on top of the pilot house, a white light so constructed as to show a uniform and unbroken light over an arc of the horizon of twenty points of the compass, and so fixed as to throw the light ten points on each side of the vessel, namely, from right ahead to two points abaft the beam on either side, and of such a character as to be visible at a distance of at least three miles; and when towing, except when towing a raft, shall carry an additional white light of the same character and construction as the headlight and carried not less than three feet vertically above or below the headlight.

(2) When towing a raft, two headlights shall be carried in a horizontal line athwartships not less than four feet apart; each so fixed as to throw the light all around the horizon, and of such a character as to be visible at a distance of at least three miles; such headlights shall be in lieu of the headlights prescribed by subsection (1).

Ferryboats

7. (1) Every double-end ferryboat propelled by machinery, except a cable ferry, shall carry the green and red side lights required for other vessels, and in lieu of the white lights shall carry two bright white lights as a central range, one at or near each end of the vessel; the white lights shall be placed at equal heights above the hull, in the centre line of the vessel, and so constructed as to be visible at a distance of at least three miles all around the horizon; the green and red side lights shall be of such a character as to be visible at a distance of at least two miles, and shall be fitted with inboard screens projecting at least three feet forward from the lights, to prevent them from being seen across the bow.

(2) Other ferryboats propelled by machinery, except cable ferries, shall carry the lights prescribed for steam vessels of their length.

Open Boats

8. (1) An open boat is not obliged to carry the side lights required for other vessels but shall, if she does not carry such lights, carry a lantern having a green slide on one side and a red slide on the other side; and on the approach of or to other vessels such lantern shall be exhibited in sufficient time to prevent collision and in such manner that the green light shall not be seen on the port side nor the red light on the starboard side; an open boat, when at anchor or stationary, shall exhibit a bright white light; she shall not, however, be prevented from using a flare-up light in addition when considered expedient.

(2) A rowing boat or a canoe, whether having a sail or not, shall show a white light in sufficient time to prevent collision.

Motor Boats

9. (1) Motor boats as defined in these rules are classified as follows:
Class A: less than sixteen feet in length;
Class 1: sixteen feet or over and less than twenty-six feet in length;
Class 2: twenty-six feet or over and less than forty feet in length; and
Class 3: forty feet or over and not more than sixty-five feet in length.

(2) Such motor boats are not obliged to carry the lights prescribed by rule 3, but if they do not carry them they shall be provided with the following lights:

- (a) A motorboat of Class A or Class 1 shall carry
 - (i) a bright white light aft to show all around the horizon;
 - (ii) a combined lantern in the fore part of the vessel and lower than the white light aft, so constructed and fixed as to show a green light from right ahead to two points abaft the beam on the starboard side and a red light from right ahead to two points abaft the beam on the port side.
- (b) A motorboat of Class 2 or Class 3 shall carry
 - (i) a bright white light in the fore part of the vessel, as near the stem as practicable, so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, and so fixed as to throw the light from right ahead to two points abaft the beam on either side;
 - (ii) a bright white light aft to show all around the horizon, placed higher than the white light forward; and
 - (iii) on the starboard side a green light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, and so fixed as to throw the light from

ahead to two points abaft the beam on the starboard side; on the port side a red light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, and so fixed as to throw the light from right ahead to two points abaft the beam on the port side; the sidelights shall be fitted with inboard screens of sufficient height and length and so placed as to prevent the lights from being seen across the bow.

(3) Every white light prescribed by this rule shall be of such a character as to be visible at a distance of at least two miles; every coloured light prescribed by this rule shall be of such a character as to be visible at a distance of at least one mile.

Sailing Vessels and Vessels Being Towed.

10. (1) A sailing vessel under way and any vessel being towed shall carry the side lights prescribed by rule 3.

(2) A vessel being towed shall also carry a small white light aft, but such light shall not be visible forward of the beam.

(3) A sailing vessel shall, on the approach of another vessel, show temporarily a white light in the direction of the approaching vessel.

Small Vessels

11. (1) Whenever, as in the case of small vessels under way during bad weather, the green and red side lights cannot be fixed, these lights shall be kept at hand lighted and ready for use and shall, on the approach of or to other vessels, be exhibited in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side nor the red light on the starboard side nor, if practicable, more than two points abaft the beam on their respective sides.

(2) The lanterns containing the lights prescribed by subsection (1) shall each be painted on the outside with the colour of the light they respectively contain, and shall be provided with proper screens.

Canal Boats in Tow of Steam Vessels

12. (1) Canal boats when in tow of steam vessels shall carry lights as follows:

(a) When towed astern of steam vessels and towed singly or tandem they shall each carry a green light on the starboard side, a red light on the port side, and a small bright white light aft;

(b) When towed astern in one or more tiers, two or more abreast, the boat on the starboard side of each tier shall carry a green light on her starboard side and the boat on the port side of each tier shall carry a red light on her port side, and each of the outside boats in the last tier also shall carry a small bright white light aft;

(c) When towed alongside and on the starboard side of a steam vessel, the boat towed shall carry a green light on the starboard side, and when towed on the port side of a steam vessel, the boat towed shall carry a red light on the port side,

(d) When towed alongside a steam vessel, one boat on the starboard side and the other on the port side, the starboard boat shall carry a green light on the starboard side and the port boat shall carry a red light on the port side,

(e) When a tow of one or more boats is being pushed ahead of a steam vessel such tow shall carry a green light on the starboard side and a red light on the port side so placed that they mark the tow at its maximum projection to starboard and port respectively, and may carry an amber light at the extreme forward end of the tow as near the centre line as it is practicable to carry such light, such amber light shall be so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side, from right ahead to two points abaft the beam on either side, and of such a character as to be visible at a distance of at least three miles.

(2) The coloured side lights shall be so constructed as to show a uniform and unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on their respective sides, and of such a character as to be visible at a distance of at least two miles; the minimum size of glass globes shall be six inches in diameter and five inches high in the clear; the said coloured sidelights shall be fitted with inboard screens so as to prevent them from being seen across the bow.

(3) The small bright white light aft required to be carried on a canal boat in tow shall not be visible forward of the beam.

(4) For the purposes of this rule, the term "canal boat" includes barges, scows and other nondescript craft.

Vessels not under command

13. (1) A vessel over sixty-five feet in length that is not under command shall carry where they can best be seen and, if a steam vessel, in lieu of the white light required by rule 3 (1) (a) two red lights in a vertical line one over the other not less than three feet apart, and of such a character as to be visible all around the horizon at a distance of at least two miles; such vessel, when not making way through the water, shall not carry the side lights required by rule 3 (1) (b) and (c), but when making way shall carry them.

(2) By day such vessel shall carry in a vertical line one over the other not less than three feet apart, where they can best be seen, two black balls, each two feet in diameter.

Vessels at anchor

14. (1) A vessel under one hundred and fifty feet register length, when at anchor, shall carry forward, where it can best be seen, but at a height not exceeding twenty feet above the hull, a white light constructed so as to show a clear, uniform and unbroken light visible all around the horizon at a distance of at least one mile.

(2) A vessel of one hundred and fifty feet or upward in register length, when at anchor, shall carry in the forward part of the vessel two white lights at the same height of not less than twenty and not exceeding forty feet above the hull, and not less than ten feet apart horizontally and athwartships, except that each need not be visible all around the horizon but so arranged that one or the other, or both shall show a clear, uniform and unbroken light and be visible from any angle of approach at a distance of at least one mile; and at or near the stern of the vessel two similar lights, similarly arranged and at such height that they shall be not less than fifteen feet lower than the forward lights; in addition to the four anchor lights above specified, at least one white decklight shall be displayed in every interval of one hundred feet along the deck measuring from the forward lights, such decklights to be not less than two feet above the deck and arranged, so far as intervening structures will permit, so as to be visible from any angle of approach.

(3) Between sunrise and sunset every vessel over sixty-five feet in length, when at anchor, shall carry forward, where it can best be seen, one black ball not less than two feet in diameter.

(4) A vessel over sixty-five feet in length, which is aground, shall carry by night the white light or lights prescribed for a vessel at anchor and, in addition, shall carry, where they can best be seen by approaching vessels, two red lights in a vertical line one over the other, not less than three feet apart, visible all around the horizon at a distance of at least two miles; by day such vessel shall carry in a vertical line one over the other not less than three feet apart, where they can best be seen, three black balls each two feet in diameter.

Certain Naval or Military Vessels and Vessels not otherwise provided for

15. (1) Whenever it shall be determined to the satisfaction of the Minister of Transport that a naval or other military vessel of special construction or purpose cannot comply fully with the provisions of any of these rules with respect to number, position, range or arc of visibility of lights or shapes, such vessel shall comply with such other provisions in regard to the number, position, range or arc of visibility of lights or shapes as shall have been determined by the Minister to be the closest possible compliance with these rules in respect to that vessel; provided that notice of such noncompliance with the rules together with the character and positions of lights or shapes to be displayed on such vessel, shall be published by "Notice to Mariners".

(2) Every vessel not otherwise provided for in these rules, when under way, or at anchor, shall carry a white light forward; such light shall be carried at least eight feet above the surface of the water, in a lantern so fixed and constructed as to show a clear, uniform and unbroken light all around the horizon, and of such a character as to be visible at a distance of at least one mile.

Rafts

16. (1) Rafts when under way, at anchor or moored shall carry lights as follows:

(a) a raft of one crib and not more than two in length shall carry one white light; a raft of three or more cribs in length and one crib in width shall carry one white light at each end of the raft; a raft of more than one crib abreast shall carry one white light on each outside corner of the raft, making four lights in all;

(b) a bag or boom raft shall carry a bright white light at each end of the raft, and one of such lights on each side midway between the forward and after ends.

(2) The white lights required by these rules for rafts shall be carried in lanterns so fixed and constructed as to show clear, uniform and unbroken lights visible all around the horizon, and of such a character as to be visible at a distance of at least one mile; such lights shall be carried at a height of not less than eight feet above the surface of the water.

Use of searchlights

17. No person shall direct the rays of a searchlight or other blinding light on the pilot house or navigating bridge of any vessel under way.

Fog Signals

18. (1) A steam vessel shall be provided with an efficient whistle, sounded by steam or by some substitute for steam, placed before the funnel not less than eight feet from the deck, or in such other place where the sound will not be intercepted by any obstruction, and of such a character as to be heard in ordinary weather at a distance of at least two miles, and with an efficient bell; a sailing vessel shall be provided with an efficient fog horn and with an efficient bell.

(2) In fog, mist, falling snow or heavy rainstorms, or when visibility is low from any other cause, whether by day or by night, fog signals shall be used as follows:

(a) a steam vessel under way, excepting only a steam vessel with a raft in tow, shall sound at intervals of not more than one minute three distinct blasts of its whistle;

(b) every vessel in tow of another vessel shall, at intervals of not more than one minute, sound four strokes on a good and efficient and properly placed bell, by striking the bell twice in 001234

succession, followed by a little longer interval, and then again striking twice in quick succession (as in striking "four bells" to indicate time);

- (c) a steam vessel with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three to five seconds;
- (d) a sailing vessel when under way and not in tow shall sound on the foghorn, at intervals of not more than one minute, when on the starboard tack one blast, when on the port tack two blasts in succession, when with the wind abaft the beam three blasts in succession;
- (e) a vessel at anchor and a vessel aground in or near a channel or fairway shall at intervals of not more than two minutes ring the bell rapidly for from three to five seconds and, in addition, at intervals of not more than three minutes shall sound on the whistle or horn a signal of one short blast, two long blasts, and one short blast in quick succession;
- (f) a vessel of less than ten tons register tonnage, not being a steam vessel, shall not be obliged to give the signals prescribed by paragraphs (a) to (e), but if she does not she shall make some other efficient sound signal at intervals of not more than one minute;
- (g) any vessel or raft not otherwise provided for in this rule, when under way, anchored or moored, and not in port, shall make an efficient sound signal at intervals of not more than one minute.

Speed of ships in fog

19. In fog, mist, falling snow or heavy rainstorms, or when visibility is low from any other cause, every vessel shall go at a moderate speed; a steam vessel hearing, apparently not more than four points from right ahead, the fog signal of another vessel shall at once reduce her speed to bare steerageway, and thereafter navigate with caution until the vessels shall have passed each other.

Steering and Sailing Rules

20. Risk of collision can, when circumstances permit, be ascertained by carefully watching the bearing of an approaching vessel; when the bearing does not appreciably change, risk of collision should be deemed to exist.

Sailing Vessels

21. When two sailing vessels are approaching one another so as to involve risk of collision one of them shall keep out of the way of the other, as follows:

- (a) a vessel that is running free shall keep out of the way of a vessel that is closehauled;
- (b) a vessel that is closehauled on the port tack shall keep out of the way of a vessel that is closehauled on the starboard tack;
- (c) when both vessels are running free, with the wind on different sides, the vessel that has the wind on the port side shall keep out of the way of the other;
- (d) when both vessels are running free, with the wind on the same side, the vessel that is to windward shall keep out of the way of the vessel that is to leeward.

Steam Vessels Meeting End On

22. (1) When two steam vessels are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each shall pass on the port side of the other.

(2) When steam vessels are meeting end on, or nearly end on, each steam vessel shall pass on the port side of the other; and the pilot of either steam vessel may be first in determining to pursue this course, and thereupon shall give, as a signal of this intention, one distinct blast of his whistle, which the pilot of the other steam vessel shall answer promptly by a similar blast of his whistle and thereupon such steam vessels shall pass on the port side of each other; but if the courses of such steam vessels are so far on the starboard of each other as not to be considered by their pilots as meeting end on, or nearly end on, the pilot so first deciding shall immediately give two distinct blasts of his whistle, which the pilot of the other steam vessel shall answer promptly by two similar blasts of his whistle, and they shall pass on the starboard side of each other.

Meeting in Rivers and Channels where there is a current

23. In all narrow channels where there is a current, and in the rivers Saint Mary, St. Clair, Detroit, Niagara, St. Lawrence and Ottawa, when two steam vessels are meeting, the descending steam vessel shall have the right of way, and shall before the vessels shall have arrived within the distance of one-half mile of each other, give the signal necessary to indicate the side on which she intends to pass.

Steam Vessels Crossing

24. (1) When two steam vessels are crossing so as to involve risk of collision the vessel that has the other on her own starboard side shall keep out of the way of the other.

(2) When two steam vessels are approaching each other at right angles or obliquely so as to involve risk of collision, other than when one steam vessel is overtaking another, the steam vessel that has the other on her own port side shall hold her course and speed; and the steam vessel which has the other on her own starboard side shall keep out of the way of the other by directing her course to starboard so as to cross the stern of the other steam vessel or, if necessary to do so, slacken her speed or stop or reverse; the steam vessel having the other on her own port side shall blow

one distinct blast of her whistle as a signal of her intention to cross the bow of the other, holding her course and speed, which signal shall be promptly answered by the other steam vessel by one distinct blast of her whistle as a signal of her intention to direct her course to starboard so as to cross the stern of the other steam vessel or otherwise keep clear.

(3) If from any cause whatever conditions are such as to prevent immediate compliance by the vessels with each other's signals, the misunderstanding or objection shall be at once made apparent by blowing the danger signal, and both vessels shall be stopped, and reversed if necessary, until signals for passing with safety are made and understood.

Steam and Sailing Vessels Approaching Each Other

25. When a steam vessel and a sailing vessel are proceeding in such directions as to involve risk of a collision the steam vessel shall keep out of the way of the sailing vessel.

Right of Way

26. Where, by any of these rules one of two vessels is required to keep out of the way, the other shall keep her course and speed.

Duty to slacken speed or stop

27. Every steam vessel which is directed by these rules to keep out of the way of another vessel shall, on approaching such vessel, if necessary, slacken her speed or stop or reverse.

Overtaking Vessels

28. (1) Notwithstanding anything contained in these rules every vessel overtaking any other shall keep out of the way of the overtaken vessel.

(2) When one steam vessel is overtaking another and the steam vessel astern shall desire to pass on the right or starboard side of the steam vessel ahead, she shall give one distinct blast of the whistle as a signal of such desire and, if the vessel ahead answers with one blast, she shall direct her course to starboard; or if she shall desire to pass on the left or port side of the vessel ahead, she shall give two distinct blasts of the whistle as a signal of such desire and, if the vessel ahead answers with two blasts, she shall direct her course to port; or if the vessel ahead does not think it safe for the vessel astern to pass at that time, she shall immediately signify the same by giving the danger signal of several short and rapid blasts of the whistle, not less than five; the steam vessel astern shall then hold back and, after an appropriate interval, if she still desires to pass, make the proper signal so indicating; but under no circumstances shall the steam vessel astern attempt to pass the steam vessel ahead until such time as they have reached a point where it can be safely done, and the steam vessel ahead shall signify her willingness by blowing the proper answering signal; the steam vessel ahead shall in no case attempt to cross the bow or crowd upon the course of the other steam vessel.

(3) Every vessel coming up with another vessel from any direction more than two points abaft her beam, that is, in such a position, with reference to the vessel which she is overtaking, that at night she would be unable to see either of that vessel's sidelights, shall be deemed to be an overtaking vessel, and no subsequent alteration of the bearing between the two vessels shall make the overtaking vessel a crossing vessel within the meaning of these rules, or relieve her of the duty of keeping clear of the overtaken vessel until the overtaken vessel is finally passed and cleared.

(4) As the overtaking vessel cannot always know with certainty whether she is forward of or abaft this direction from the other vessel, she should, when in doubt, assume that she is an overtaking vessel and keep out of the way.

Narrow Channels

29. (1) In all channels less than five hundred feet in width, no steam vessel shall pass another going in the same direction unless the steam vessel ahead be disabled or signify her willingness that the steam vessel astern shall pass; the steam vessel astern may then pass, subject, however, to the other rules applicable to such a situation.

(2) When steam vessels proceeding in opposite directions are about to meet in a channel less than five hundred feet in width, such steam vessels shall be slowed to a moderate speed, according to the circumstances.

Signals indicating course

30. (1) In all weathers every steam vessel under way, in taking any course authorized or required by these rules, shall indicate that course by a signal on her whistle, to be accompanied, whenever required, by a corresponding alteration of her course; and every steam vessel receiving a signal from another shall promptly respond with the same signal or sound the danger signal as provided in rule 31.

(2) Except as otherwise provided in these rules,

- (a) one blast shall mean "I am directing my course to starboard"; and
- (b) two blasts shall mean "I am directing my course to port".

(3) These signals shall be used, not only when an alteration of course is required, but at all times before vessels approach within half a mile of each other, from whatever direction, if their courses will bring them within that distance from each other.

Danger Signal

31. If, when steam vessels are approaching each other, the pilot of either vessel fails to understand the course or intention of the other, whether from signals being given or answered erroneously, or from other causes, the pilot so in doubt shall immediately signify the same by giving the danger signal of several short and rapid blasts of the whistle, not less than five, and if both vessels shall have approached within half a mile of

other, both shall be immediately slowed to a speed barely sufficient for steerageway and, when necessary, stopped and reversed, until the proper signals are given, answered and understood, or until the vessels shall have passed each other.

Cross Signals Prohibited

32. Pilots shall in no circumstances use "cross signals", that is, answering one blast of the whistle with two, or two blasts with one; whenever a pilot receives either of the whistle signals provided in rule 30 (2) and he deems it imprudent to comply with that signal, he shall immediately give the danger signal and observe the rule applying thereto (rule 31).

Approaching a short bend or curve in channel

33. Whenever a steam vessel is nearing a short bend or curve in the channel where, from the height of the banks or other cause, a steam vessel approaching from the opposite direction cannot be seen for a distance of half a mile, the pilot of such steam vessel, when he has arrived within half a mile of such bend or curve, shall give a blast of the whistle of at least eight seconds duration, which shall be answered by a similar blast given by the pilot of any approaching steam vessel within hearing on the other side and within half a mile of such bend or curve; should such a signal be so answered by a steam vessel upon the farther side of the bend or curve, then the usual signals for meeting and passing shall immediately be given and answered.

Leaving a Dock or Berth

34. When a steam vessel is leaving a dock or berth she shall give one blast of the whistle of at least eight seconds duration, which shall be answered by a similar blast given by any approaching steam vessel; both vessels shall be governed by rule 35 until the course of the vessel leaving the dock or berth becomes apparent, after which time the applicable steering and sailing rules shall be observed.

Special Circumstances

35. In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances which may render a departure from them necessary in order to avoid immediate danger.

Neglect of Rules or Other Precautions

36. Nothing in these rules shall exonerate any vessel, or the owner or master or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper lookout, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Unnecessary Sounding of Whistle

37. No person shall authorize or permit unnecessary sounding of the whistle.

Distress Signals

38. When a vessel is in distress and requires assistance from other vessels or from the shore, the signals to be used or displayed, either together or separately, are as follows:

(a) In the daytime:

- (i) a gun or other explosive signal fired at intervals of about a minute;
- (ii) the distant signal, consisting of a square flag, having either above or below it a ball or some object resembling a ball;
- (iii) continuous sounding with any fog-signal apparatus.

(b) At night:

- (i) a gun or other explosive signal fired at intervals of about a minute;
- (ii) flames from the vessel (as from burning of a tarbarrel or oilbarrel);
- (iii) rockets or shells, throwing stars of any colour or description, fired one at a time, at short intervals;
- (iv) a continuous sounding with any fog-signal apparatus.

Bell and Whistle Signals Between Bridge and Engine Room

39. When signals between bridge and engine room are made by bell or whistle they shall be given as follows:

- | | |
|--|------------|
| 1 stroke or 1 blast (when engines are stopped)..... | Go Ahead |
| 1 stroke or 1 blast (when engines are turning)..... | Stop |
| 2 strokes or 2 blasts..... | Go Astern |
| 3 strokes or 3 blasts..... | Slow |
| 4 strokes or 4 blasts..... | Full Speed |
| 2 strokes or 2 blasts shall always mean "Go astern", irrespective of other signals previously given. | |

Supplement

Diagrams

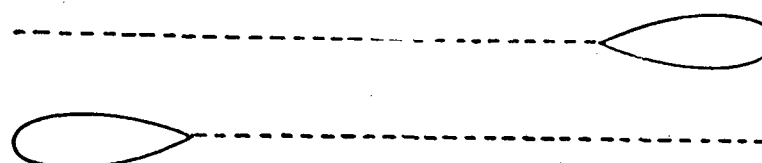
The following diagrams are intended to illustrate the steering and sailing rules:

First Situation



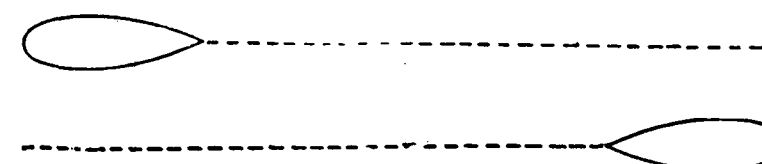
Here the two coloured lights visible to each will indicate their direct approach end on to each other. In this situation it is a standing rule that both shall direct their courses to starboard and pass on the port side of each other, each having previously given one distinct blast of the whistle.

Second Situation



In this situation the red light only will be visible to each, the screens preventing the green lights from being seen. Both vessels are evidently passing to port of each other, which is permissible in this situation, each pilot having previously signified his intention by one distinct blast of the whistle.

Third Situation



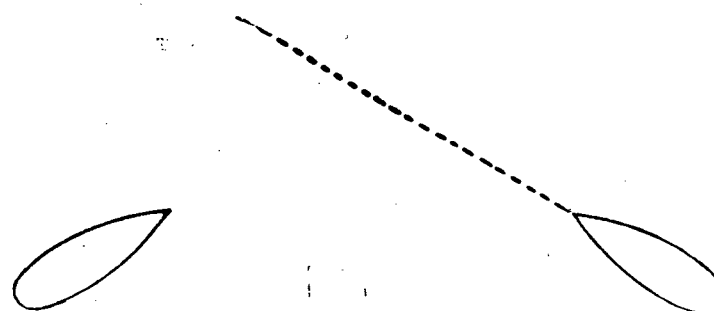
In this situation the green light only will be visible to each, the screens preventing the red light from being seen. They are therefore passing to starboard of each other, which is permissible in this situation, each pilot having previously signified his intention by two distinct blasts of the whistle.

Fourth Situation



In this situation one steam vessel is overtaking another steam vessel from some point more than two points abaft the beam of the overtaken steam vessel. The overtaking steam vessel may pass on the starboard or port side of the steam vessel ahead after the necessary signals for passing have been given, with assent of the overtaken steam vessel, as prescribed in rule 28.

Fifth Situation



In this situation two steam vessels are approaching each other at right angles or obliquely in such manner as to involve risk of collision, other than where one steam vessel is overtaking another.

The steam vessel which has the other on her own port side shall hold her course and speed, and the other shall keep clear by crossing astern of the steam vessel that is holding course and speed; or, if necessary to do so, shall slacken her speed or stop or reverse. Both steam vessels shall otherwise observe the provisions of rules 30 and 31 with respect to the signals for passing and the danger signal.

THE QUEEN'S PRINTER
OTTAWA, 1969