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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 APRIL **19** 70

| | |
|---------------------------|-------------|
| Days at Sea | <u>17</u> |
| Days in Harbour | <u>13</u> |
| Total Distance Run | <u>4972</u> |

[Handwritten Signature]
LEAR
Navigating Officer.

[Handwritten Signature]
Captain.

[Handwritten Signature] CAPT
Senior Officer in Command.

2307

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 not to 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 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.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>00-03 CHANGE OF SKY IN LAST HOUR</p> <p>00 Cloud development not observed 01 Clouds becoming less developed 02 State of sky on the whole unchanged 03 Clouds developing</p> <p style="text-align: center;">04-10 HAZE, ETC.</p> <p>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)</p> <p style="text-align: center;">11-12 SHALLOW FOG</p> <p>11 In patches } Not deeper than 30' 12 More or less continuous } at sea or 6' ashore</p> <p>13-17 PHENOMENA WITHIN SIGHT BUT NOT AT STATION</p> <p>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</p> <p>17-19 PHENOMENA WITHIN LAST HOUR OR AT TIME OF OBSN.</p> <p>17 Thunder heard, but no precipitation at station 18 Squall(s) 19 Funnel cloud(s)</p> <p>20-29 PHENOMENA WITHIN HR. BUT NOT AT TIME OF OBSN.</p> <p>20 Drizzle 21 Rain 22 Snow 23 Rain and snow 24 Drizzle or rain, freezing } Not in showers</p> <p>25 Shower(s) of rain 26 Shower(s) of snow, or of rain and snow</p> | <p>27 Shower(s) of hail, or of hail and rain 28 Fog 29 Thunderstorm, with or without precipitation</p> <p>30-39 (Not likely to be used in ship reports)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Slight or moderate</i></td> <td style="width: 50%;"><i>Severe</i></td> </tr> <tr> <td>30 Dust or sandstorm, decreasing</td> <td>33</td> </tr> <tr> <td>31 Dust or sandstorm, unchanging</td> <td>34</td> </tr> <tr> <td>32 Dust or sandstorm, increasing</td> <td>35</td> </tr> <tr> <td>36 Drifting snow, generally low</td> <td>37</td> </tr> <tr> <td>38 Blowing snow, generally high</td> <td>39</td> </tr> </table> <p style="text-align: center;">40-49 FOG</p> <p>40 Fog at a distance 41 Fog in patches</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"><i>Sky discernible</i></td> <td style="width: 33%;"><i>Visibility less than 1/2 mi. at time of observation</i></td> <td style="width: 33%;"><i>Sky not discernible</i></td> </tr> <tr> <td>42 Fog, thinning in last hour</td> <td></td> <td>43</td> </tr> <tr> <td>44 Fog, unchanging in last hour</td> <td></td> <td>45</td> </tr> <tr> <td>46 Begin'g or thick'g in last hour</td> <td></td> <td>47</td> </tr> <tr> <td>48 Fog, depositing hard rime</td> <td></td> <td>49</td> </tr> </table> <p>50-59 DRIZZLE (Consists of numerous minute drops)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Intermittent</i></td> <td style="width: 50%;"><i>Continuous</i></td> </tr> <tr> <td>50 Slight drizzle</td> <td>51</td> </tr> <tr> <td>52 Moderate drizzle</td> <td>53</td> </tr> <tr> <td>54 Thick drizzle</td> <td>55</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Slight</i></td> <td style="width: 50%;"><i>Moderate or thick</i></td> </tr> <tr> <td>56 Freezing drizzle</td> <td>57</td> </tr> <tr> <td>58 Drizzle and rain</td> <td>59</td> </tr> </table> <p style="text-align: center;">60-69 RAIN</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Intermittent</i></td> <td style="width: 50%;"><i>Continuous</i></td> </tr> <tr> <td>60 Slight rain</td> <td>61</td> </tr> <tr> <td>62 Moderate rain</td> <td>63</td> </tr> <tr> <td>64 Heavy rain</td> <td>65</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Slight</i></td> <td style="width: 50%;"><i>Moderate or heavy</i></td> </tr> <tr> <td>66 Freezing rain</td> <td>67</td> </tr> <tr> <td>68 Rain or drizzle with snow</td> <td>69</td> </tr> </table> | <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 | <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 | <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 | <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 | <p>70-79 SOLID PRECIPITATION, NOT IN SHOWERS</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Intermittent</i></td> <td style="width: 50%;"><i>Continuous</i></td> </tr> <tr> <td>70 Slight snow in flakes</td> <td>71</td> </tr> <tr> <td>72 Moderate snow in flakes</td> <td>73</td> </tr> <tr> <td>74 Heavy snow in flakes</td> <td>75</td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">76 Ice needles</td> <td style="width: 50%;">} With or without fog</td> </tr> <tr> <td>77 Granulated snow</td> <td rowspan="2">}</td> </tr> <tr> <td>78 Isolated starlike snow crystals</td> </tr> <tr> <td>79 Ice pellets</td> <td></td> </tr> </table> <p style="text-align: center;">80-84 RAIN SHOWER(S)</p> <p>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</p> <p>85-90 SOLID PRECIPITATION IN SHOWER(S)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><i>Slight</i></td> <td style="width: 50%;"><i>Moderate or heavy</i></td> </tr> <tr> <td>85 Snow</td> <td>86</td> </tr> <tr> <td>87 Soft or small hail*</td> <td>88</td> </tr> <tr> <td>89 Hail* without thunder</td> <td>90</td> </tr> </table> <p>(*The hail may be with or without rain or snow)</p> <p>91-94 THUNDER HEARD DURING PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION (Note, choose numbers 17 or 29 whenever applicable)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">91 Slight rain</td> <td style="width: 50%;">} Precipitation occurring at time of observation</td> </tr> <tr> <td>92 Moderate or heavy rain</td> <td rowspan="2">}</td> </tr> <tr> <td>93 Slight snow and rain, or hail</td> </tr> <tr> <td>94 Moderate or heavy snow and rain, or hail</td> <td></td> </tr> </table> <p>95-99 THUNDERSTORM AT TIME OF OBSERVATION</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">95 Slight or mdt tstm without hail</td> <td style="width: 50%;">} Precipitation occurring at time of obsn.</td> </tr> <tr> <td>96 Slight or mdt tstm with hail</td> <td rowspan="2">}</td> </tr> <tr> <td>97 Hvy thunderstm without hail</td> </tr> <tr> <td>98 Tstm with dust or sandstorm</td> <td rowspan="2">} (Ditto)</td> </tr> <tr> <td>99 Heavy thunderstorm with hail</td> </tr> </table> | <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 | | <i>Slight</i> | <i>Moderate or heavy</i> | 85 Snow | 86 | 87 Soft or small hail* | 88 | 89 Hail* without thunder | 90 | 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 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 | } (Ditto) | 99 Heavy thunderstorm with hail |
| <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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Slight</i> | <i>Moderate or heavy</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 Snow | 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 Soft or small hail* | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89 Hail* without thunder | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 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 | } (Ditto) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 99 Heavy thunderstorm with hail | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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† | Maximum Height in brackets | NBCD state | NBCD |
| 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. | —(½) | | Alter course | a/c |
| 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..... | ½(1) | | Anchor | ⚓ |
| 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) | | As requisite | as req |
| 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..... | 3½(5) | | Base course | b/c |
| 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(8½) | | Bearing | bg |
| 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)..... | 9½(13) | | Cable | c |
| 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) | 13½(19) | | Cape | Cp |
| 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) | | Cease fire | CF |
| 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) | | Compass | (C) |
| 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) | | Course | co |
| 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) | | Course and speed | co & sp |
| 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 | | Dead reckoning position | DR |
| 13 | 76 | 72—80 | | | | | | Direction finder | D/F |
| 14 | 85 | 81—89 | | | | | | Distance | dist |
| 15 | 95 | 90—99 | | | | | | Distance made good | DMG |
| 16 | 104 | 100—108 | | | | | | Estimated position | EP |
| 17 | 114 | 109—118 | | | | | | Fathom | fm |

* 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 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 | | 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 | | | | 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 | |
| | 200.9 | <p>Starboard and 1st of Port Watches.</p> <p>CPO & PO 1630 - 0755 Tuesday.</p> <p>LS & below 1640 - 0745 "</p> <p>OSUT 1640 - 0100 "</p> <p>WK 1640 - 1015 "</p> | 1410 | <p>Anchor</p> <p>Anglican Church Steeple 348°</p> <p>Dominion Coal Jetty 019°</p> <p>Old Railway Pt. 106°</p> <p>Greening Pt. B.W. 1000466</p> |

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 \perp pt. 1.1 m. (Ra) a/c 083°

0450 - { Egg Is. Lt. 350°, 10.45 m. (Ra.)
Egg Is. Buoy 000°, $\frac{5.7}{5.2}$ m. (Ra.) a/c 068°

0615 - { Beamer Pt. Lt. 282° Current since 0450 -
Liscombe Is. Lt. 350° 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°
County Is. Lt. 352°

0730 - Lifebuoy Sentry exercised. Lifebuoy Alarm tested.

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. 1030 General Alarm tested.

1016 - One man suffered broken arm while securing # 4 Carley Float. (ABBN1 - A.N. OTHER - 1234 H.). 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 \perp pt. 1 m. (Ra.) a/c 275° sp. 10 knots.

1401 - Co. and sp. as req. for coming to \perp . 1410 Let go pt. \perp . 1415 Came to in 6 fms. with 3 sh. - on deck.

1420 - SSD secured, \perp 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.

1530 - Secured alongside Sydney & Louisburg Railway Wharf pt. side to. Reverted to 2 hour notice for steam. Co. & sp. as req. to berth alongside.

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 - 0-32414 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.

[Handwritten initials]

J.C.

[Handwritten initials]

P.J.

[Handwritten initials]

[Handwritten initials]

R

| Position | Latitude N. | Longitude W. | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|--------------|-----------------|---------|---------|--------|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 44° 53' 3" | 61° 29' 1" | 0758 (+4) FIX. | | | | |
| 1200 | 45° 25' 4" | 59° 58' 8" | 1159 (+4) (Ra.) | 0145 | 12' 5" | 16' 6" | |
| 2000 | ° ' ' | ° ' ' | | 142.5 | 12' 3" | 16' 4" | |

HMCS PROTECTEUR

WEDNESDAY

1ST OF

APRIL

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revns. 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 | | | | | | | | | | 2 | 070 | 10 | - | - | - | 98 | 05 | 1021.2 | 19.4 | 21 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 4 | 057 | 5 | | | | 98 | 02 | 1023 | 22.2 | 25 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 0 | 057 | 10 | | | | 98 | 02 | 1023 | 25 | 27 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 1 | 060 | 10 | | | | 98 | 02 | 1021.5 | 20.2 21 | 21.7 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 2 | CALM | | | | | 98 | 02 | 1021.5 | 26.1 21.7 | 21.9 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 7 | 060 | 8 | | | | 98 | 02 | 1022.5 | 25.6 | 22.2 | |

| | | | | |
|---|------------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | MEN NREFD 1515 WED. TO 0655 THURS. | | | |

19 70 FROM

TO

Roosevelt Roads
OR AT Puerto Rico

REMARKS

Initials
of the
Officer
of the
Watch

0120 - SHORE PATROL RETURNED ONBOARD

0620 - SUNRISE

0700 HANDS EMPLOYED PAINTING SHIP

0750 AB BERTHELETTE BROUGHT ONBOARD BY ARMED FORCES POLICE
0800 COLONNS - DIVERS DOWN HANDS EMPLOYED AT PAINTING SHIP

AR

0830 DIVERS ONBOARD

0850 LT SALCHERT RETURNED ONBOARD BY AFP

1200 SECURE

1300 HANDS EMPLOYED PAINTING SHIP

1449 PO DARRIE RETURNED ONBOARD

1750 SHORE PATROL LANDED: 4 MEN.

1820 ROUNDS CORRECT **TP**

1834 SUNSET

1901 EXERCISED FIRE STATIONS JPS PUMP ROOM
1910 COMMENCED FUELLING - SMOKING RESTRICTIONS LIFTED
1915 TWO DE'S FROM SEA HULL NUMBERS D-33 D-32 23

2030 CAL INWARD BROUGHT ONBOARD BY AFP.

2120 FUELLING COMPLETED - SMOKING RESTRICTIONS LIFTED

2300 TWO SHORE PATROL RETURNED

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|--------------|---------|---------|--------|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° ' " | ° ' " | | | | | 12 HOURS |
| 1200 | ° ' " | ° ' " | | 0635 | 26' 0" | 26' 5" | |
| 2000 | ° ' " | ° ' " | | | | | |

HMCS

PROTECTOR

THURS DAY

2nd OF APRIL

| 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 | | | | | | | | | | 02 | 060 | 10 | | | | 98 | 02 | 1021.5 | 25 | 21.7 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 7 | 060 | 10 | | | | 98 | 02 | 1025 | 26.7 | 22.8 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 4 | 060 | 10 | | | | 98 | 02 | 1023 | 31.7 | 29.4 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 6 | 070 | 10 | | | | 98 | 02 | 1021.5 | 28.9 | 23.9 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 6 | 070 | 15 | | | | 98 | 02 | 1022 | 26.7 | 23.3 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 6 | 070 | 10 | | | | 98 | 02 | 1023 | 26.1 | 22.8 | |

Distance run through the Water Midnight to Midnight

Leave Granted to Ship's Company

Anchor Bearings

MEN NRFD 1515 THURS TO 0655 FRI

19 70 FROM

TO

Roosevelt Roads

OR AT Puerto Rico

REMARKS

Initials of the Officer of the Watch

0110 2 MEMBERS OF SHORE PATROL RETURNED ONBOARD

0304 DISTURBANCE IN 54 METERS BETWEEN US BLAIR AND AB FERRIE. FERRIE SUSTAINED CUT HAND - TAKEN TO SICK BAY FOR TREATMENT

0610 DE 33 TO SEA
0623 SUNRISE
0625 DE 23 TO SEA
0700 HANDS EMPLOYED PAINTING SHIP

0800 CELESTIAL

1733 SHORE PATROL LANDED - 4 MEN

1834 ^{NRR} ~~ROUNDS~~ SUNSET

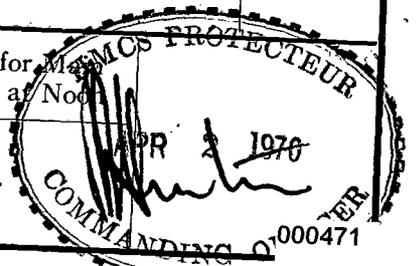
1905 ROUNDS CORRECT ^{WERE}

2335 - 2 MEN FROM SHORE PATROL RETURNED ONBOARD.

| Position | Latitude | Longitude | Depending on | Draught | | |
|----------|----------|-----------|--------------|---------|---------|-----|
| | | | | Time | Forward | Aft |
| 0800 | ° ' " | ° ' " | | | | |
| 1200 | ° ' " | ° ' " | | | | |
| 2000 | ° ' " | ° ' " | | | | |

Notice for Engines and No.

12 HRS.



HMCS PROTECTEUR

FRI DAY

3rd OF APRIL

| 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 | | | | | | | | | | 6 | 070 | 5 | | | | 98 | 02 | 1021 | 26.2 | 22.2 | | |
| 0500 | | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 5 | 060 | 5 | | | | 98 | 03 | 1023 | 26.7 | 23.9 | | |
| 0900 | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 1 | 065 | 7 | | | | 98 | 02 | 1023 | 35.0 | 29.5 | | |
| 1300 | | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 1 | 065 | 7 | | | | 98 | 02 | 1022.5 | 34 | 30.1 | | |
| 1700 | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 0 | 060 | 7 | | | | 98 | 02 | 1022 | 25.6 | 21.7 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 1 | 050 | 20 | | | | 98 | 02 | 1023 | 25 | 21.7 | | |

Distance run through the Water Midnight to Midnight

Leave Granted to Ship's Company

Anchor Bearings

MEN. NRFD 1515 FRI. TO 0655 SAT.

HMCS PROTECTOR

SATUR DAY 4

OF APRIL

| 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 | | | | | | | | | | 7 | 065 | 10 | | | | 98 | 02 | 1021 | 25.6 | 22.2 | | |
| 0500 | | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 2 | 070 | 6 | | | | 98 | 02 | 1022 | 27.2 | 21.7 | | |
| 0900 | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | | |
| 1200 | (4) | | | | | | | | | 2 | 080 | 10 | | | | 98 | 02 | 1023 | 31.1 | 24.4 | | |
| 1300 | | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 2 | 080 | 5 | | | | 98 | 02 | 1021 | 29.4 | 23.9 | | |
| 1700 | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 1 | 080 | 5 | | | | 98 | 02 | 1021 | 26.1 | 21.7 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 1 | 080 | 5 | | | | 98 | 02 | 1022 | 26.1 | 22.2 | | |

Distance run through the Water Midnight to Midnight

Leave Granted to Ship's Company

Anchor Bearings

MEN WRO FROM 1200 SATURDAY TO 0825 SUNDAY

19 70

FROM

TO

, OR AT PUERTO RICO

REMARKS

Initials
of the
Officer
of the
Watch

0200 SHORE PATROL RETURNED ON BOARD - 3 MEN

0310 REMINDER OF SHORE PATROL RETURNED ON BOARD - 1 MAN

0625 SUNRISE

0700 HANDS EMPLOYED PAINTING SHIP

DDP

0800 COLOURS

1200 SCHEDULE

1300 LEIPS AWAY ON EXCURSION

1730 SHORE PATROL LANDED

1830 LEIPS RETURNED
1837 SUNSET

1930 ROUNDS CORRECT

2000 EXERCISED FIRE STATIONS AFTER LEIPS CONTROL ROOM

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

HMCS PROTECTEUR

SUNDAY

5th OF April

| 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 | | | | | | | | | | 2 | 080 | 12 | | | | 98 | 02 | 1020.5 | 25.6 | 21.7 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 1 | 070 | 10 | | | | 98 | 02 | 1021.5 | 27.2 | 22.2 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 4 | 075 | 10 | | | | 98 | 03 | 1022 | 28.9 | 26.7 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 2 | 070 | 10 | | | | 98 | 02 | 1019 | 29.4 | 27.7 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 2 | 050 | 5 | | | | 98 | 01 | 1020 | 26.1 | 22.8 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 2 | 075 | 7 | | | | 98 | 02 | 1020.5 | 25.0 | 21.1 | |

| | | | | |
|--|------------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | SHIP'S COMPANY NRFD 1000- 0655 Mon | | | |

19 70

FROM

TO

ROOSEVELT ROADS
 , OR AT PUERTO RICO

| REMARKS | | Initials of the Officer of the Watch |
|---|--|--------------------------------------|
| 0120 2 MEN OF SHORE PATROL RETURNED | | |
| 0230 REMAINDER OF SHORE PATROL ABOARD | | |
| 0645 SUNRISE | | |
| 0800 CDLOURS - HANDS EMPLOYED PAINTING SHIP | | JW |
| 0917 DIVERS DOWN - CLEANING BARGE | | |
| 1000 SECURE | | |
| 1057 DIVING COMPLETE | | |
| 1515 US SUBMARINE 670 BERTHED AHEAD | | |
| 1745 P/BN DRAKE LANDED ROOSEVELT ROADS HOSPITAL FOR OBSERVATION | | |
| 1850 SHORE PATROL LANDED 1836 SUNSET | | |
| 1858 ELECTRICAL FIRE IN STBD CARGO DOOR HEATER | | |
| 1900 FIRE OUT, OVERHAULED & SENTRY POSTED | | |
| 1930 P/BN DRAKE RETURNED ONBOARD | | |
| 1953 ROUNDS CORRECT | | mk |

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

HMCS PROTECTEUR

MON DAY

6th OF APRIL

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revns. 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 | | | | | | | | | | 0 | CALM | | | | | 98 | 01 | 1019 | 25.6 | 22.8 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 1 | 070 | 4 | | | | 98 | 01 | 1019 | 27.2 | 21.7 | |
| 0900 | | 0440.60 | 8.6 | 31 | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 0919 | | | | | VAR | VAR | VAR | VAR | 9°W | | | | | | | | | | | | |
| 1000 | | 0449.20 | 13.4 | 49.5 | 215 | 215 | 225 | 1°W | 9°W | | | | | | | | | | | | |
| 1057 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | 0462.59 | 20.3 | 71.7 | 064 | 064 | 073 | 0° | 9°W | | | | | | | | | | | | |
| 1130 | | | | | 064 | 064 | 073 | 0° | | | | | | | | | | | | | |
| 1200 | +4 | 0482.82 | 19.6 | 96.5 | 005 | 005 | 013 | 1°E | 9°W | 0 | 150 | 12 | 1 | 130 | 4 | 98 | 02 | 1016.5 | 27.8 | 22.8 | 27.8 |
| 1300 | | 0502.45 | 19.6 | 97.7 | 005 | 005 | 013 | 1°E | 9°W | | | | | | | | | | | | |
| 1400 | | 0521.75 | 19.3 | 96.9 | 005 | 005 | 013 | 1°E | 9°W | | | | | | | | | | | | |
| 1500 | | 0541.30 | 19.6 | 98.4 | 005 | 005 | 013 | 1°E | 9°W | | | | | | | | | | | | |
| 1600 | +4 | 0561.22 | 19.9 | 98.7 | 005 | 005 | 013 | 1°E | 9°W | 1 | 125 | 20 | 1 | 140 | 3 | 98 | 02 | 1015 | 25.6 | 23.3 | 24.7 |
| 1700 | | 0580.48 | 19.3 19.6 | 98.6 | 005° | 005° | 014° | 0° | 9°W | | | | | | | | | | | | |
| 1800 | +4 | 0601.00 | 20.5 | 99 | 005° | 005° | 014° | 0° | 9°W | 4 | 127 | 20 | 1 | 120 | 4 | 98 | 02 | 1015 | 25 | 22.2 | 26.7 |
| 1900 | | 0620.47 | 17.5 | 99 | 005° | 005° | 014° | 0° | 9°W | | | | | | | | | | | | |
| 2000 | +4 | 0641.08 | 17.5 | 99 | 005° | 005° | 014 | 0° | 9°W | | 130 | 19 | 1 | 120 | 3 | 98 | 02 | 1016 | 25.0 | 22.2 | 26.7 |
| 2100 | | 0661.18 | 19.6 | 99 | 005° | 005° | 014 | 0° | 9°W | | | | | | | | | | | | |
| 2200 | | 0680.12 | 19.6 | 99 | 005° | 005° | 014 | 1°E | 10°W | | | | | | | | | | | | |
| 2300 | | 0698.74 | 18.6 | 99 | 005° | 005° | 014 | 1°E | 10°W | | | | | | | | | | | | |
| 2400 | (+4) | 0719.27 | 19.0 | 99 | 005° | 005° | 014 | 1°E | 10°W | 3 | 135 | 18 | 1 | 130 | 3 | 98 | 03 | 1016.5 | 25.6 | 22.2 | 26.1 |

Distance run through the Water Midnight to Midnight

291.9 mi

Leave Granted to Ship's Company

Anchor Bearings

1970 FROM ROOSEVELT ROADS TO HALIFAX, OR AT

| REMARKS | | Initials of the Officer of the Watch |
|--|--|--------------------------------------|
| 0105 SHORE PATROL RETURNED ON BOARD | | |
| 0600 USS LUSEND (670) TO SEA | | |
| 0614 SUNRISE | | |
| 0700 HANDS EMPLOYED BY DEPARTMENTS AND SECURING FOR SEA | | |
| 0800 COLOURS | | |
| 0830 - SSD CLBBE UP ASSUME CONDITION Y | 0900 - ASTERN ENGINE SP 10 | |
| 0859 - COMMENCED USING BOW THRUSTER | | |
| 0902 - SP 5 | 0941 - AIC 126 | |
| 0906 - AHEAD ENGINE SP 10 | 0951 - AIC 076 | |
| 0918 - AIC 135 | | |
| 0929 - AIC 090 | | |
| 1030 SP 17 | 0931 FIX VIS { CABRIG LT 356 PERRO PT 021 TRANSIT LT 313 | |
| 1057 a/c 064° (S) | 1030 FIX VIS { BREAKWATER 237 PTA ESTE 109 CAYO LOBO 016 PTA MULLAS 190 | |
| 1100 SP 17 | | |
| 1130 a/c 005° (T) | 1136 FIX VIS { COCKROACH IS 034 CULEBRITA LT 303 SAIL RK 071 | |
| 1235 SWITCHED TO BRIDGE CONTROL | 1225 FIX VIS { COCKROACH IS 142 SAVANA IS 162 SAIL RK 170 | |
| 1330 FOR EXERCISE HANDS TO EMERGENCY STATIONS | | |
| 1336 SHIP IN CONDITION 2 with Charlie | | |
| 1428 SECURE EMERGENCY STATIONS REVERT TO NB60 CONDITION Yankee Charlie | 1430 LORAN FIX { 19° 09' N 65° 08' W | |
| 1600 HAND TO LIFERAFT STATIONS | 1530 LORAN FIX { 19° 25' N 65° 13' W | |
| 1636 SECURE LIFERAFT STATIONS | 1635 LORAN FIX { 19° 45' N 65° 05' W | |
| 1710 EXERCISE STRG. GEAR BREAKDOWN | 1745 LORAN FIX { 20° 06.5' N 65° 00' W | |
| 1835 SUNSET NAVIGATION LTS SWITCHED ON | 1900 FIX OBS POS { 20° 31' N 65° 00' W | |
| 2055 LIFEBOY ALARM TESTED | | |
| 2205 EXERCISE STEERING GEAR BREAKDOWN | 2230 LORAN FIX { 21° 51' N 65° 00' W | |
| | 2330 LORAN FIX { 22° 07' N 65° 02' W | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|--------|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ' | ' | | | | | |
| 1200 | 18° 23.5' N | 65° 09.0' W | Visual Fix | 0800 | 30' 6" | 31' 3" | |
| 2000 | 20° 49.0' N | 65° 00.0' W | OBS Pos & DR | | | | |

HMCS PROTECTEUR

TUES DAY

7th OF APRIL

| 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 | | 0739.17 | 19.1 | 99 | 005 | 005 | 014 | 1°E | 10°W | | | | | | | | | | | | |
| 0200 | | 0758.61 | 19.1 | 99 | 005 | 005 | 014 | 1°E | 10°W | | | | | | | | | | | | |
| 0300 | | 0778.78 | 19.1 | 98.9 | 005 | 005 | 014 | 1°E | 10°W | | | | | | | | | | | | |
| 0400 | +4 | 0799.55 | 20.2 | 99 | 005 | 005 | 014 | 1°E | 10°W | 6 | 150 | 14 | 1 | 140 | 9 | 98 | 02 | 1018 | 25.6 | 22.2 | 25.6 |
| 0500 | | 0819.60 | 20.1 | 99 | 005° | 005° | 015° | 1°E | 11°W | | | | | | | | | | | | |
| 0600 | | 0838.30 | 18.7 | 98.9 | 005° | 005° | 015° | 1°E | 11°W | | | | | | | | | | | | |
| 0700 | | 0861.40 | 18.7 | 98.8 | 005° | 005° | 015° | 1°E | 11°W | | | | | | | | | | | | |
| 0800 | +4 | 0880.40 | 19.0 | 98.9 | 005° | 005° | 015° | 1°E | 11°W | 3 | 190 | 17 | 2 | 170 | 3 | 98 | 02 | 1018 | 32.8 | 26.7 | 25.6 |
| 0900 | | 0898.78 | 19.0 | 98.8 | 005° | 005° | 015° | 1°E | 11°W | | | | | | | | | | | | |
| 1000 | | 0919.40 | 19.0 | 98.8 | 005 | 005 | 015 | 1°E | 11W | | | | | | | | | | | | |
| 1100 | | 0935.31 | 15.0 | 74.1 | 005 | 005 | 015 | 1E | 11W | | | | | | | | | | | | |
| 1200 | +4 | 0955.27 | 19.0 | 98.7 | 005 | 005 | 015 | 1E | 11W | 7 | 215 | 25 | 2 | 190 | 4 | 98 | 01 | 1016 | 29.4 | 23.3 | 25.6 |
| 1300 | | 0975.18 | 19.9 | 98.8 | 003 | 003 | 014 | 1E | 12W | | | | | | | | | | | | |
| 1400 | | 0995.41 | 20.3 | 98.8 | 003 | 003 | 014 | 1E | 12W | | | | | | | | | | | | |
| 1500 | | 1014.94 | 9.5 | 99 | 003 | 003 | 014 | 1E | 12W | | | | | | | | | | | | |
| 1600 | +4 | 1036.57 | 21.4 | 99 | 003 | 003 | 014 | 1E | 12W | 8 | 220 | 30 | 2 | 200 | 4 | 98 | 02 | 1012.3 | 26.1 | 23.8 | 24.4 |
| 1700 | | 1042.96 | 6.3 | 54.8 | Var | Var | Var | Var | 12W | | | | | | | | | | | | |
| 1800 | +4 | 1060.92 | 18.0 | 97.1 | 003 | 003 | 014 | 1°E | 12W | 8 | 220 | 22 | 2 | 220 | 5 | 98 | 02 | 1013 | 26 | 23.5 | 23.9 |
| 1900 | | 1080.21 | 17.0 | 97.8 | 003 | 003 | 015 | 1E | 13W | | | | | | | | | | | | |
| 2000 | +4 | 1100.70 | 17.0 | 98.7 | 003 | 003 | 015 | 1E | 13W | 8 | 260 | 26 | 2 | 220 | 8 | 97 | 18 | 1016 | 21.7 | 20.5 | |
| 2100 | | 1120.60 | 19.1 | 98.9 | 003 | 003 | 015 | 1°E | 13°W | | | | | | | | | | | | |
| 2200 | | 1140.09 | 19.1 | 98.7 | 003 | 003 | 015 | 1°E | 13°W | | | | | | | | | | | | |
| 2220 | | | | | 003 | 003 | 015 | 1°E | 13°W | | | | | | | | | | | | |
| 2300 | | 1159.81 | 19.1 | 98.6 | 004 | 004 | 015 | 2°E | 13°W | | | | | | | | | | | | |
| 2400 | +4 | 1179.20 | 19.4 | 98.7 | 004 | 004 | 015 | 2°E | 13°W | 8 | 265 | 28 | 2 | 220 | 5 | 97 | 02 | 1011 | 20.6 | 18.9 | 23.3 |

Distance run through the Water
Midnight to
Midnight

436.8 Mi

Leave Granted to Ship's Company

Anchor Bearings

1970

FROM ROOSEVELT ROADS TO HALIFAX

, OR AT

| REMARKS | | Initials of the Officer of the Watch | |
|--|---|--------------------------------------|--|
| 0125 | LORAN { 347-2312 } 22°40'N FIX { 342-4247 } 64°50'W { 343-1388 } | | |
| 0300 | LORAN { 347-2378 } 23°13'N FIX { 345-5232 } 64°45'W { 343-1441 } | WJ | |
| 0405 | LORAN { 23°22'N } FIX { 64°33'W } | | |
| 0530 | OBS POS { 23°56'N } { 64°31'W } | | |
| 0604 - SUNRISE, NAV LIGHTS SWITCHED OFF | | | |
| 0702 - EXERCISED STEERING GEAR BREAKDOWN | | | |
| 0755 | LORAN { 24°27'N } FIX { 64°26'W } | JAN | |
| 0800 | LORAN { 24°35'N } FIX { 64°33'W } | | |
| 0940 TRANSFERRING FUEL FROM CARGO TANKS FWD TO DOUBLE BOTTOM TANK IN ENGINE ROOM | | | |
| 1005 | SP 6 | 1022 | SP 10 |
| 1013 | STOP MAIN ENGINES | 1029 | SP 19 |
| 1017 | SP 4 | | |
| 1018 | LOWERED SONAR DOME | | |
| 1110 | EXERCISED STRG BREAKDOWN | | |
| 1150 | COMPLETED TRANSFERRING FUEL | | |
| 1300 | LORAN 343 1864 } 26°13'N FIX 342 3420 } 64°23'W | | |
| 1330 EXERCISED EMERGENCY STATIONS | | | |
| 1438 | LORAN 342 3355 } 26°36'N FIX 343 1226 } 64°20'W | | |
| 1438 | SECURED EMERGENCY STATIONS | | |
| 1500 | EXERCISED STEERING GEAR BREAKDOWN | | |
| 1505 | EXERCISED gyro FAILURE | | |
| 1540 | LORAN { 27°04'N } FIX { 64°16'W } | NER | |
| 1610 EXERCISED MAN OVERBOARD | | | |
| 1628 | FIRE ALARM COV THRUSTER COMPT HANDS TO EMERGENCY STATIONS | | |
| 1646 | SECURE EMERGENCY STATIONS | | |
| 1650 | COMPLETED MAN OVERBOARD EXERCISE | | |
| 1704 | GAS TURBINE SHUT DOWN | 1750 | EXERCISED STRG GEAR BREAKDOWN |
| 1705 | SP 19 | | |
| 1730 | COMPLETED TRANSFERRING DIESEL FUEL - 40 TNS FROM SHIPS CARGO TO SHIPS READY USE TANKS | 1710 | LORAN FIX { 27°13'N } { 64°17'W } |
| 1835 | TESTED LIFEBOAT ALARM SWBS NAV LIGHTS SWITCHED ON | 1830 | LORAN FIX { 27°47'N } { 64°07'W } |
| 1855 | COMMENCED STRIPPING FUEL TANK | | |
| 1920 | EXERCISED STRG GEAR BREAKDOWN | 1930 | LORAN FIX { 27°58'N } { 64°10'W } |
| 2040 | COMPLETED STRIPPING FUEL TANKS | 2013 | LORAN FIX { 28°16'N } { 63°57.5'W } |
| | | 2100 | LORAN FIX { 28°01'N } { 63°57.5'W } |
| 2220 | A/C 004°T | 2205 | LORAN FIX { 28°49'N } { 64°01'W } |
| | | 2310 | LORAN FIX { 29°10'N } { 63°59'W } |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|------------------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 24°45'N | 64°28'W | DR FROM 0530 OBS POS | | | | |
| 1200 | 25°55'N | 64°22'W | DR FROM 1221 OBS POS | | | | |
| 2000 | 28°07'N | 64°11'W | DR FROM 1930 LORAN FIX | | | | |

HMCS PROTECTEUR WEDNESDAY

8th OF April

| 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 Baro- metric Pressure in Millibars | Temperature (Celsius) | | |
|------|-------------|-----------------------|-------------------------------------|--------------------------------|----------------|---------------------------|-------------------------------|-----------|-----------|---------------------------|---------------------|------------------|-------------------------|-----------------------------|---------------------|-------------------------|------------------------------|---|--------------------------|-------------|------|
| | | | | | | | | | | | Direction (True) | Speed (Knots) | | Direction From (True) | Height (In Feet) | | | | Dry Bulb | Wet Bulb | Sea |
| 0100 | | 1198.72 | 19.6 | 98.7 | 004 | 004 | 015 | 2°E | 13°W | | | | | | | | | | | | |
| 0200 | | 1218.19 | 19.5 | 98.7 | 004 | 004 | 015 | 2°E | 13°W | | | | | | | | | | | | |
| 0300 | | 1236.94 | 19.6 | 98.6 | 004 | 004 | 015 | 2°E | 13°W | | | | | | | | | | | | |
| 0400 | (F4) | 1256.79 | 19.8 | 98.6 | 004 | 004 | 015 | 2°E | 13°W | 2 | 275 | 42 | 6 | 300 | 15 | 98 | 01 | 1010 | 17.8 | 14.4 | 233 |
| 0500 | | 1274.41 | 19.0 | 98.7 | 004 | 004 | 015 | 2°E | 13°W | | | | | | | | | | | | |
| 0600 | | 1291.93 | 19.0 | 98.9 | 004 | 004 | 015 | 2°E | 13°W | | | | | | | | | | | | |
| 0632 | | | | | 004 | 004 | 015 | 2°E | | | | | | | | | | | | | |
| 0700 | | 1310.77 | 16.0 | 59.7 | 235 | 235 | 252 | 4W | 13W | | | | | | | | | | | | |
| 0720 | | | | | 235 | 235 | | 4W | | | | | | | | | | | | | |
| 0800 | +4 | 1322.46 | 11.7 | 92.9 | 240 | 240 | 257 | 4W | 13W | 5 | 310 | 42 | 5 | 290 | 20 | 98 | 03 | 1012 | 17 | 15 | 200 |
| 0801 | | | | | 250 | 250 | 266 | 3W | 13W | | | | | | | | | | | | |
| 0830 | | | | | 180 | 180 | 196 | 3W | 13W | | | | | | | | | | | | |
| 0900 | | 1338.28 | 15.8 | 92.9 | 180 | 180 | 196 | 3W | 13W | | | | | | | | | | | | |
| 1000 | | 1358.87 | 20.6 | 87.5 | VAR | VAR | VAR | VAR | 13W | | | | | | | | | | | | |
| 1100 | | 1373.44 | 14.6 | 91.2 | VAR | VAR | VAR | VAR | 13°W | | | | | | | | | | | | |
| 1200 | +4 | 1386.50 | 13.1 | 55.1 | VAR | VAR | VAR | VAR | 13°W | 7 | 328 | 23 | 5 | 320 | 30 | 97 | 02 | 1019 | 22.2 | 16.1 | 20.0 |
| 1300 | | 1393.28 | 5.7 | 47.3 | VAR | VAR | VAR | VAR | 13°W | | | | | | | | | | | | |
| 1400 | | 1399.66 | 6.4 | 32.9 | VAR | VAR | VAR | VAR | 13°W | | | | | | | | | | | | |
| 1408 | | | | | 003 | 003 | 017 | 1°W | 13°W | | | | | | | | | | | | |
| 1500 | | 1411.80 | 12.2 | 75.1 | 003 | 003 | 017 | 1°W | 13°W | | | | | | | | | | | | |
| 1600 | +4 | 1426.72 | 15.0 | 86.1 | 003 | 003 | 017 | 1°W | 13°W | 5 | 310 | 23 | 4 | 330 | 30 | 97 | 01 | 1018 | 18.3 | 12.2 | 20.1 |
| 1700 | | 1441.70 | 15.0 | 86.0 | 003 | 003 | 016 | 1°E | 14°W | | | | | | | | | | | | |
| 1800 | +4 | 1457.48 | 15.7 | 88.2 | 003 | 003 | 016 | 1°E | 14°W | 5 | 315 | 21 | 5 | 350 | 25 | 98 | 03 | 1019.5 | 18.3 | 12.8 | 20.0 |
| 1900 | | 1472.08 | 14.6 | 88.2 | 003 | 003 | 016 | 1°E | 14°W | | | | | | | | | | | | |
| 2000 | +4 | 1487.90 | 15.9 | 89 | 003 | 003 | 016 | 1°E | 14°W | 6 | 308 | 22 | 5 | 350 | 25 | 97 | 02 | 1019 | 18.3 | 12.8 | 20.0 |
| 2100 | | 1496.82 | 15.0 | 81.3 | 003 | 003 | 016 | 1°E | 14°W | | | | | | | | | | | | |
| 2200 | | 1514.75 | 15.0 | 80.2 | 003 | 003 | 016 | 1°E | 14°W | | | | | | | | | | | | |
| 2300 | | 1528.90 | 14.2 | 84.3 | 003 | 003 | 016 | 1°E | 14°W | | | | | | | | | | | | |
| 2400 | +4 | 1543.85 | 14.9 | 84.5 | 003 | 003 | 016 | 1°E | 14°W | 6 | 300 | 18 | 2 | 330 | 20 | 97 | 02 | 1020 | 18.3 | 12.8 | 20.0 |

Distance run through the Water - Midnight to Midnight

367.9 mi

Leave Granted to Ship's Company

Anchor Bearings

1970

FROM Roosevelt Roads TO Halifax

, OR AT

| REMARKS | | Initials of the Officer of the Watch |
|--|--|---|
| | 2400 LORAN FIX } 29° 22' N 64° 00' W | |
| | 0100 LORAN FIX } 29° 39' N 63° 57' W | |
| | 0200 LORAN FIX } 29° 58' N 63° 56' W | |
| | 0300 LORAN FIX } 30° 13' N 63° 55' W | infan |
| | 0400 LORAN FIX } 30° 31' N 63° 50' W | |
| 0556 SUNRISE NAV LIGHTS SWITCHED OFF MK | 0500 LORAN FIX } 30° 53' N 63° 50' W | |
| 0628 SP 8 0632 A/C 235 SP 15 0635 SP 18 | 0600 LORAN FIX } 31° 09' N 63° 49' W | |
| 0700 A/C 240° | 0700 LORAN FIX } 31° 10' N ^{MK} 63° 48' W | BR |
| 0801 A/C 250 0830 A/C 180° | | |
| 0905 SP 12 A/C 150 0925 SP 18 A/C 137 | 0947 SECURED EMERGENCY FLYING STATIONS REVERTED TO NDCO YC | |
| 0930 EMERGENCY HANDS TO EMERGENCY FLYING STATIONS, STBD RECUR WATCH, ASSUMED NDCP ZR | 0905 LORAN FIX } 30° 46' N 64° 10' W | |
| 1005 A/C 170 1022 A/C 170 1045 A/C 150 | 1040 LORAN FIX } 30° 20' S N 64° 02' W | |
| 1107 A/C 145 1115 A/C 140 118 A/C 120 | 1120 A/C 128 1122 SP 12 1132 SP 6 1135 REPAIRS WITH SKANDERSBO 1145 SP 12 A/C 240 | 1110 LORAN FIX } 30° 13' S N 63° 51' W |
| 1200 A/C 140 1205 A/C 050 1215 A/C 105 1218 SP 7 | 1230 A/C 110 SP 5 | 1220 LORAN FIX } 30° 11' N 63° 46' W |
| 1308 A/C 140 1309 SP 9 1312 SP 6 1331 HANDS TO FLYING STATIONS 1332 A/C 120 | 1342 HANDS TO EMERGENCY STATIONS ASSUME CONDITION ZC 1345 SP 5 1356 A/C 000 SP 15 DEPARTED NV SKANDERSBO 1400 SP 10 | 1400 LORAN FIX } 30° 00' N 63° 37' W |
| 1405 SP 12 1408 C 007 1417 SP 14 1423 SP 16 | 1430 SP 17 1421 SECURED FLYING STATIONS 1425 SECURED EMERGENCY STATIONS REVERT TO CONDITION YC | 1500 LORAN FIX } 30° 14' N 63° 37' W |
| 1604 HANDS TO EMERGENCY FLYING STNS 1608 ASSUME CONDITION ZULU BRAVO 1618 SECURED EMERGENCY FLYING STNS REVERT TO CONDITION YC | | 1600 LORAN FIX } 30° 28' N 63° 36' W |
| 1716 SP 18 1728 SP 17 | | 1700 LORAN FIX } 30° 46' N 63° 35' W |
| 1838 SUNSET NAV LIGHTS SWITCHED ON | | 1805 LORAN FIX } 30° 57' N 63° 35' W |
| 1925 SP 16 | | 1905 LORAN FIX } 31° 17' N 63° 36' W |
| 2025 COMMENCEO DUMPING TPO | | 2000 LORAN FIX } 31° 28' N 63° 33' W |
| 2135 COMPLETED DUMPING TPO | | 2100 LORAN FIX } 31° 44' N 63° 29' W |
| 2221 SP 17 2259 SP 16 | | 2200 LORAN FIX } 31° 56' N 63° 31' W |
| 2330 SP 18 | | 2300 LORAN FIX } 32° 10' N 63° 32' W |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 31° 08.7' N | 64° 13.6' W | LORAN | | | | |
| 1200 | 30° 06' N | 63° 46' W | LORAN | | | | |
| 2000 | 31° 28' N | 63° 33' W | LORAN | | | | |

HMCS PROTECTEUR

THURSDAY

9th OF APRIL

| 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 | | 1559.00 | 15.15 | 86.1 | 003 | 003 | 016 316° | 1°E | 14W | | | | | | | | | | | | | |
| 0200 | | 1574.00 | 15 | 85.9 | 003 | 003 | 016 316 | 1°E | 14W | | | | | | | | | | | | | |
| 0300 | | 1588.36 | 16.36 | 85.6 | 003 | 003 | 016 316 | 1°E | 14W | | | | | | | | | | | | | |
| 0400 | +4 | 1602.00 | 15.0 | 85.9 | 003 | 003 | 016 316 | 1°E | 14W | 7 | 268 | 26 | 2 | 320 | 20 | 98 | 02 | 1018 | 15.6 | 12.8 | 17.9 | |
| 0500 | | 1618.14 | 15.0 | 85.9 | 003 | 003 | 019 | 0 | 16°W | | | | | | | | | | | | | |
| 0600 | | 1635.30 | 17.2 | 91.6 | 003 | 003 | 019 | 0 | 16°W | | | | | | | | | | | | | |
| 0700 | | 1653.24 | 17.9 | 96.4 | 003 | 003 | 019 | 0 | 16°W | | | | | | | | | | | | | |
| 0800 | +4 | 1670.08 | 16.0 | 90.9 | 002 | 002 | 019 | 0 | 16°W | 7 | 265 | 26 | 2 | 320 | 20 | 98 | 02 | 1018 | 17.2 | 12.9 | | |
| 0849 0855 0900 | | 1687.31 | 15.8 | 90.4 | 003 025 003 | 003 025 003 | 019 043 019 | 2E 0 2E | 18W | | | | | | | | | | | | | |
| 1000 | | 1705.80 | 17.5 | 98.5 | 003 | 003 | 019 | 2E | 18W | | | | | | | | | | | | | |
| 1100 | | 1724.81 | 17.5 | 99.7 | 003 | 003 | 019 | 2E | 18W | | | | | | | | | | | | | |
| 1200 | +4 | 1743.99 | 17.5 | 99.9 | 003 | 003 | 019 | 2E | 18W | 6 | 255 | 30 | 6 | 040 | 15 | 98 | 03 | 1018.5 | 20.0 | 16.1 | 18.3 | |
| 1220 | | | | | 002 | 002 | 018 | 2E | 18W | | | | | | | | | | | | | |
| 1300 | | 1763.44 | 19.5 | 100.1 | 002 | 002 | 018 | 2E | 18W | | | | | | | | | | | | | |
| 1345 1349 1400 | | 1783.68 | 20.2 | 100.2 | 002 002 002 | 002 020 002 | 018 035 018 | 2E 3E 2E | 18W 18W 18W | | | | | | | | | | | | | |
| 1500 | | 1800.42 | 16.8 | 100.2 | 002 | 002 | 018 | 2E | 18W | | | | | | | | | | | | | |
| 1600 | +4 | 1821.50 | 21.1 | 100.3 | 002 | 002 | 019 | 1E | 18W | 8 | 254 | 31 | 3 | 250 | 10 | 98 | 02 | 1011 | 17.8 | 15.6 | 17.9 | |
| 1700 | | 1839.46 | 18.0 | 92.2 | 002 | 002 | 019 | 1E | 18W | | | | | | | | | | | | | |
| 1800 | +4 | 1856.36 | 16.8 | 88.7 | 002 | 002 | 019 | 1E | 18W | 3 | 245 | 33 | 2 | 230 | 12 | 98 | 01 | 1010 | 17.8 | 16.1 | 15.6 | |
| 1835 1900 | | 1873.64 | 16.8 | 86.4 | 002 358 | 002 358 | 019 013 | 1E 2E | 18W | | | | | | | | | | | | | |
| 2000 | +4 | 1886.74 | 13.1 | 61.1 | 358 | 358 | 013 | 2E | 18W | 3 | 245 | 27 | 2 | 320 | 10 | 98 | 02 | 1013 | 18.3 | 16.7 | 16.7 | |
| 2100 | | 1896.71 | 10.0 | 61.1 | 358° | 358° | 013° | 1E 2E | 18W | | | | | | | | | | | | | |
| 2200 | | 1912.47 | 15.7 | 85.5 | 358° | 358° | 013° | 1E 2E | 18W | | | | | | | | | | | | | |
| 2300 | | 1929.58 | 17.1 | 89.2 | 358° | 358° | 016 | 1E | 19W | | | | | | | | | | | | | |
| 2400 | +4 | 1947.60 | 18.0 | 92.4 | 358 | 358 | 016 | 1E | 19W | 8 | 240 | 35 29 | 4 | 300 | 15 | 98 | 02 | 1013 | 17.2 | 14.6 | 18.9 | |

| | | | | |
|--|---------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | 398.9 mi | | | |

1970

FROM ROOSEVELT ROADS

TO HALIFAX

, OR AT

| REMARKS | | Initials of the Officer of the Watch |
|--|---|--------------------------------------|
| 0005-SP17 | 0010 LORAN } 32°32'N FIX } 63°28'W | |
| | 0115 LORAN } 32°46'N FIX } 63°28'W | |
| | 0230 LORAN } 33°08'N FIX } 63°26'W | |
| | 0325 LORAN } 33°20'N FIX } 63°21'W | <i>[Signature]</i> |
| | 0400 LORAN } 33°35'N FIX } 63°20'W | |
| 0551 SUNRISE NAV LIGHTS SWITCHED OFF | 0500 LORAN } 33°45'N FIX } 63°20'W | |
| | 0700 LORAN } 34°19'N FIX } 63°16'W | |
| | 0800 LORAN } 34°36'N FIX } 63°11'W | <i>[Signature]</i> |
| 0820 SP 18.5 0850 ANCHOR CABLES SECURED WITH 0840 SP 10 BLOCK & TACKLE 0849 A/C 025 0855 A/C 003 SP 18.5 0850 SP 15 | | |
| 0918 SP 19.5 0932 FOR EXERCISE HANDS TO EMERGENCY STNS ASSUME CONDITION YANKEE CHARLIE | 0900 LORAN } 34°51'N FIX } 63°12'W | |
| 1105 SECURE EMERGENCY STNS REVERT TO CONDITION YANKEE CHARLIE | 1100 LORAN } 35°24'N FIX } 63°14'W | <i>[Signature]</i> |
| 1220 A/C 002° | 1200 LORAN } 35°46'N FIX } 63°19'W | |
| 1332 EXERCISED HANDS TO EMERGENCY STATIONS ASSUMED CONDITION "ZC" 1345 A/C 020° 1349 A/C 002° | 1300 LORAN } 36°07.5'N FIX } 63°19.0'W | |
| 1342 ASSUMED CONDITION "ZB" 1405 ASSUMED CONDITION "ZA" 1424 EXERCISED ACTIVATION PREWRITING 1432 EXERCISED ENTERING FALLOUT ON RESPIRATORS 1435 PERSONNEL IN CITADEL OFF RESPIRATORS 1505 REVERTED TO EMERGENCY STATIONS 1509 REVERTED TO CONDITION Z 1512 SECURE EMERGENCY STATIONS REVERTED TO CONDITION X 1600 COMMENCED H.F. RADIO TRIALS WITH WHISKEY EMERGENCYMAN | 1446 EXERCISED-SHIP CLEAR OF FALLOUT 1500 LORAN } 36°44'N FIX } 63°13'W | <i>[Signature]</i> |
| 1630 Sp 17 1637 Sp 12 1641 Sp 17 | 1600 LORAN } 37°0'N FIX } 63°07'W | |
| | 1700 LORAN } 37°14'N FIX } 63°07'W | <i>[Signature]</i> |
| 1835 A/C 358° 1858 SP 12 SUNSET NAV LIGHTS SWITCHED ON | 1800 LORAN } 37°32'N FIX } 62°59'W | <i>[Signature]</i> |
| | 1900 LORAN } 37°48'N FIX } 62°58'W | |
| | 2000 LORAN } 38°01'N FIX } 63°00'W | |
| 2100 SP 17 | 2100 LORAN } 38°26'N FIX } 63°02'W | |
| 2235 SP 18 | 2200 LORAN } 38°25'N FIX } 63°02'W | |
| | 2300 LORAN } 38°44'N FIX } 63°01'W | <i>[Signature]</i> |

| Position | Latitude | Longitude | Depending on | Draught | | |
|----------|-----------|-----------|--------------|---------|---------|-----|
| | | | | Time | Forward | Aft |
| 0800 | 34° 36' N | 63° 11' W | LORAN FIX | | | |
| 1200 | 35° 46' N | 63° 19' W | LORAN FIX | | | |
| 2000 | 38° 01' N | 63° 00' W | LORAN FIX | | | |

NOTICE FOR MAIN ENGINES AT NOON

9 1970

COMMANDING OFFICER 000485

HMCS PROTECTEUR

FRI DAY

10th OF April

| 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 | | |
| 0015 | | | | | 002 | 002 | 020 | 1°E | 19°W | | | | | | | | | | | | | | |
| 0100 | | 1966.08 | 18.4 | 92.5 | 002 | 002 | 020 | 1°E | 19°W | | | | | | | | | | | | | | |
| 0115 | | | | | 000 | 000 | 018 | 1°E | 19°W | | | | | | | | | | | | | | |
| 0200 | | 1986.95 | 19.5 | 92.5 | 000 | 000 | 019 | 1°E | 20°W | | | | | | | | | | | | | | |
| 0300 | | 2003.91 | 18.5 | 93.3 | 000 | 000 | 019 | 1°E | 20°W | | | | | | | | | | | | | | |
| 0400 | +4 | 2023.03 | 18 | 92.2 | 000 | 000 | 019 | 1°E | 20°W | 8 | 240 | 24 | 2 | 300 | 10 | 97 | 02 | 1003 | 17.2 | 14.4 | 15.6 | | |
| 0500 | | 2039.90 | 16.87 | 80 | 000 | 000 | 019 | 1°E | 20°W | | | | | | | | | | | | | | |
| 0600 | | 2056.14 | 16.2 | 78.3 | 000 | 000 | 019 | 1°E | 20°W | | | | | | | | | | | | | | |
| 0625 0635 0700 | | 2068.54 | 12.4 | 65.4 | 000 090 000 | 000 090 000 | 019 109 019 | 1°E 1°E 1°E | 20°W 20°W 20°W | | | | | | | | | | | | | | |
| 0800 | +4 | 2080.46 | 11.9 | 53.1 | 000 | 000 | 019 | 1°E | 20°W | 8 | 235 | 18 | 2 | 230 | 9 | 97 | 02 | 999 | 10.0 | 8.3 | 5.0 | | |
| 0900 | | 2093.36 | 12.9 | 60.8 | 000 | 000 | 019 | 2°E | 21°W | | | | | | | | | | | | | | |
| 1000 | | 2106.29 | 12.9 | 60.7 | 000 | 000 | 019 | 2E | 21W | | | | | | | | | | | | | | |
| 1100 | | 2119.02 | 12.8 | 60.6 | 000 | 000 | 019 | 2E | 21W | | | | | | | | | | | | | | |
| 1136 1200 | +4 | 2131.97 | 12.9 | 60.8 | 000 350 | 000 350 | 019 010 | 2E 1E | 21W 21W | 8 | 235 | 12 | ½ | 220 | 4 | 91 | 28 | 997.5 | 11.1 | 8.9 | 5.0 | | |
| 1300 | | 2144.91 | 13.0 | 60.8 | 000° | 000° | 021° | 1°E | 22°W | | | | | | | | | | | | | | |
| 1400 | | 2157.60 | 12.7 | 60.8 | 000° | 000° | 021° | 1°E | 22°W | | | | | | | | | | | | | | |
| 1500 | | 2170.31 | 12.7 | 57.6 | 000° | 000° | 021° | 1°E | 22°W | | | | | | | | | | | | | | |
| 1600 | +4 | 2180.95 | 10.6 | 49.2 | 000° | 000° | 021° | 1°E | 22°W | 8 | 260 | 7 | ½ | 040 | 4 | 91 | 45 | 997 | 13.5 | 12.3 | 4.4 | | |
| 1700 | | 2191.50 | 10.6 | 49.5 | 000 | 000 | 021° | 1°E | 22°W | | | | | | | | | | | | | | |
| 1800 | +4 | 2203.00 | 11.5 | 52.3 | 000 | 000 | 021° | 1°E | 22°W | 8 | 150 | 6 | ½ | 030 | 4 | 97 | 43 | 996 | 9.6 | 7.8 | 4.4 | | |
| 1900 | | 2216.40 | 12.5 | 60.8 | 000 | 000 | 021 | 1E | 22W | | | | | | | | | | | | | | |
| 2000 | +4 | 2228.20 | 11.8 | 60.8 | 000 | 000 | 021 | 1E | 22W | 8 | 110 | 13 | ½ | 030 | 4 | 97 | 44 | 996 | 5.0 | 4.4 | 3.3 | | |
| 2047 2100 | | 2240.83 | 12.6 | 55.2 | 180° 180° | 180° 180° | 205° 205° | | 22°W 22°W | | | | | | | | | | | | | | |
| 2200 | | 2252.32 | 11.5 | 59.6 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | | | |
| 2300 | | 2263.01 | 11.0 | 60.2 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | | | |
| 2400 | +4 | 2274.61 | 11.6 | 60.2 | VAR | VAR | VAR | VAR | 22°W | 8 | 078 | 8 | ½ | 030 | 4 | 97 | 02 | 995 | 3.3 | 2.2 | 2.2 | | |

Distance run through the Water Midnight to Midnight
324.4 mi

Leave Granted to Ship's Company

Anchor Bearings

1970

FROM ROOSEVELT ROADS TO HALIFAX

, OR AT

| | | REMARKS | | Initials of the Officer of the Watch | |
|---|---|--|--|--------------------------------------|--|
| | | 0045 LORAN FIX | 39°17'N 63°00'W | | |
| | | 0115 LORAN FIX | 39°26'N 63°00'W | | |
| | | 0200 LORAN FIX | 39°36'N 63°00.5'W | | |
| | | 0300 LORAN FIX | 39°56'N 62°59'W | | |
| 0410 - A/C 359°T | | 0440 LORAN FIX | 40°12'N 62°55'W | | |
| 0541 - SUNRISE. 0550 - COMPLETED FILTERING JPS. | 0559 - HELD SAGUENAY ON RADAR 3 TO 4 ISMILES 0559 - SP 15 | 0520 LORAN FIX | 40°37.5'N 62°56'W | | |
| 0625 - AK 090 SP 10 0635 - AK 000° | 0700 - SAGUENAY STM. STBD STAND DWTFALL 0737 ASSUME CONDITION 'YANKEE' 0741 SP 12 0746 SAGUENAY BEGINNING FINAL APPROACH | 0635 LORAN FIX 0730 LORAN FIX | 40°52'N 62°53'W 41°N 62°52'W | | |
| 0730 - HANDS TO RAS STATIONS 0805 - SAGUENAY ALONGSIDE 0807 - FIRST LINE TO SAGUENAY 0816 - SPAN WIRE TENSIONED | | 0800 LORAN FIX | 41°07.6'N 62°52'W | | |
| 0918 - COMMENCED PUMPING DISTILLATE 0955 - STOPPED PUMPING AMOUNT TRANSFERRED 1416 BBLS 0969 - SPAN WIRE DETENSIONED | | 0900 LORAN FIX | 41°18'N 62°51'W | | |
| 1001 - LAST LINE LET GO 1010 - SAGUENAY BEGINNING FINAL APPROACH 1016 - FIRST LINE TO SAGUENAY 1023 - SPAN WIRE TENSIONED 1127 - SPAN WIRE DETENSIONED 1131 - LAST LINE LET GO 1133 - SECURE RAS STATIONS | 1145 - COMMENCED SOUNDING FOG SIGNALS | 1015 LORAN FIX 1200 DECCA FIX | 41°34'N 62°52'W 41°55'N 62°50'W | | |
| 1206 - HANDS TO REPLENISHMENT STATIONS | | 1250 DECCA FIX | 42°05'N 62°52'W | | |
| 1300 - SWITCHED ON NAVIGATION LIGHTS AK 000° 1320 - RAN AT DIP 1344 - SAGUENAY ALONGSIDE 1346 - FIRST LINE TO SAGUENAY 1436 - SPAN WIRE DETENSIONED 1442 - LAST LINE LET GO 1443 - SECURE RAS STATIONS | 1350 - SPAN WIRE TENSIONED 1445 SP 10 | 1330 DECCA FIX 1435 DECCA FIX | 42°12'N 62°52'W 42°26'N 62°53'W | | |
| 1612 STOPPED SOUNDING FOG SIGNALS 1640 NAV LIGHTS OFF | | 1500 DECCA FIX 1600 DECCA FIX | 42°31.5'N 62°53'W 42°42'N 62°53.5'W | | |
| 1730 HANDS TO RAS STATIONS 1744 SP 12 1800 - SASKATCHEWAN ALONGSIDE 1803 - FIRST LINE TO SASKATCHEWAN 1809 - SPAN WIRE TENSIONED 1844 DARKENED SHIP 1850 SASKATCHEWAN RAS LIT SWITCHED ON 1941 - SASKATCHEWAN ALONGSIDE 1951 - FIRST LINE TO SASKATCHEWAN | 1856 - SPAN WIRE DETENSIONED 1900 - LAST LINE LET GO | 1700 DECCA FIX 1830 DECCA FIX 1935 DECCA FIX | 42°50'N 62°52'W 43°12'N 62°53'W 43°20'N 62°54'W | | |
| 2007 - SPAN WIRE TENSIONED 2038 - SPAN WIRE DETENSIONED 2043 - LAST LINE LET GO 2046 - SECURE RAS STATIONS 2104 SP 12 SONAR DOME HOUSED 2135 - COMMENCED VHF TRIALS WITH SASKATCHEWAN COURSES AND SPEEDS VARIOUS | 2046 - REVERT TO CONDITION X 2047 - AK 180 SP 6 COMMENCED RAISING SONAR DOME | 2005 DECCA FIX 2122 DECCA FIX 2230 DECCA FIX 2345 DECCA FIX | 43°56.7'N 62°52.7'W 43°32'N 62°51.5'W 43°29.5'N 62°51.7'W 43°31.3'N 62°51.5'W | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 41°07.6'N | 62°52'W | LORAN | | | | |
| -1200 | 41°55'N | 62°50'W | DECCA | | | | |
| 2000 | 43°26.4'N | 62°53.2'W | DECCA | | | | |

HMCS PROTECTEUR

SATURDAY

11th OF APRIL

| 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 | | 2284.29 | 9.7 | 53.4 | VAR | VAR | VAR | VAR | 22°W | | | | | | | | | | | | | |
| 0200 | | 2294.36 | 10.1 | 48.7 | 176 | 176 | 201 | 3°W | 22°W | | | | | | | | | | | | | |
| 0300 | | 2304.99 | 10.63 | 48.7 | 176 | 176 | 201 | 3°W | 22°W | | | | | | | | | | | | | |
| 0400 | 4 | 2314.31 | 10.3 | 48.9 | 308 | 308 | 328 | 2°E | 22°W | 8 | 348 | 11 | 1 | 070 | 6 | 97 | 02 | 995 | 3.2 | 1.7 | 3-3 | |
| 0500 | | 2325.59 | 10.5 | 52.3 | 308 | 308 | 328 | 2°E | 22°W | | | | | | | | | | | | | |
| 0600 | | 2338.65 | 13.1 | 61.7 | 308 | 308 | 328 | 2°E | 22°W | | | | | | | | | | | | | |
| 0655 | | | | | 270 | 270 | 291 | 1°E | 22°W | | | | | | | | | | | | | |
| 0700 | | 2348.39 | 10.0 | 42.3 | 270 | 270 | 291 | 1°E | 22°W | | | | | | | | | | | | | |
| 0710 | | | | | 008 | 008 | 029 | 1°E | 22°W | | | | | | | | | | | | | |
| 0800 | 4 | 2354.36 | 9.7 | 48.5 | 008 | 008 | 029 | 1°E | 22°W | 8 | 285 | 16 | 1 | 020 | 6 | 97 | 72 | 994 | 3.3 | 2.2 | 2.8 | |
| 0814 | | | | | 008 | 008 | 029 | 2°E | 23°W | | | | | | | | | | | | | |
| 0900 | | 2371.85 | 13.5 | 66.6 | 325 | 325 | 361 | 3°W | 23°W | | | | | | | | | | | | | |
| 1000 | | 2384.90 | 11.9 | 60.6 | 325 | 325 | 361 | 3°W | 23°W | | | | | | | | | | | | | |
| 1011 | | | | | 325 | 325 | 361 | 3°W | 23°W | | | | | | | | | | | | | |
| 1048 | | | | | 320 | 320 | 346 | 3°W | 23°W | | | | | | | | | | | | | |
| 1100 | | 2397.04 | 9.8 | 58.8 | 020 | 020 | 042 | 1°E | 23°W | | | | | | | | | | | | | |
| 1120 | | | | | 020 | 020 | 042 | 1°E | 23°W | | | | | | | | | | | | | |
| 1200 | 4 | 2409.18 | 11.5 | 55.9 | 045 | 045 | 072 | 4°W | 23°W | 8 | 270 | 14 | 1/2 | 190 | 4 | 96 | 71 | 993.5 | 0.6 | 0.0 | 3.3 | |
| 1300 | | 2421.42 | 10.8 | 51.5 | VAR | VAR | VAR | VAR | 23°W | | | | | | | | | | | | | |
| 1400 | | 2432.00 | 11.1 | 54.1 | VAR | VAR | VAR | VAR | 23°W | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 5 | 020 | 10 | - | - | - | 98 | 02 | 995.5 | 7.2 | 4.7 | | |
| 1700 | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 7 | 020 | 10 | - | - | - | 98 | 02 | 1000 | 4.4 | 3.3 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 8 | 020 | 10 | - | - | - | 98 | 02 | 1001 | 3.9 | 2.2 | | |

Distance run through the Water Midnight to Midnight
152.6 mi

Leave Granted to Ship's Company
PNRFD 1545 to 0755 Mon.

Anchor Bearings

1970 FROM ROOSEVELT ROADS TO HALIFAX, OR AT

| REMARKS | | Initials of the Officer of the Watch |
|--|--|--------------------------------------|
| 0026 - A/C 176° SP 10 | 0100 DECCA FIX { 43° 25.7' N 62° 51' W | |
| 0140 - LIFEBOAT ALARM TESTED | 0130 DECCA FIX { 43° 21' N 62° 48.5' W | |
| 0300 - A/C 308 | 0230 DECCA FIX { 43° 11.6' N 62° 48.9' W | |
| 0430 SP 12 | 0323 DECCA FIX { 43° 07.7' N 63° 52.1' W | M/S |
| 0528 SUNRISE HALIFAX LIGHTS SWITZEROOND 0600 SP 10 | 0430 DECCA FIX { 43 13.8 N 62 56.4 W | |
| 0630 HANGS TO FLYING STATIONS 0645 ASSUME CONVOY 0650 STAND DOWN FLYING STATION | 0530 DECCA FIX { 43 20.7 N 63 15 W | |
| 0710 1/2 008 0720 HANGS TO RAS STATIONS 0730 HANGS TO FLYING STATIONS 0752 SECURE RAS STATIONS 0814 - A/C 326 SP 15 0818 - A/C 340 | 0630 DECCA FIX { 43 27.4 N 63 26.0 W | |
| 0845 HANGS TO RAS STATIONS 0855 A/C 340 SP 12 | 0730 DECCA FIX { 43 32.6 N 63 34.0 W | JW |
| 0905 - SASKATCHEWAN ALONGSIDE 0906 - FIRST LINE TO SASKATCHEWAN 0915 - SPAN WIRE TENSIONED 0930 - COMMENCED PUMPING 0940 - STOPPED PUMPING 87 bbls DISCHG | 0800 DECCA FIX { 43° 36.9' N 63° 32.5' W | |
| 1007 - DETENSION SPAN WIRE 1059 - SASKATCHEWAN ALONGSIDE 1009 - LAST LINE LET GO 1011 - A/C 325 SP 15 1048 - A/C 020 SP 12 | 0930 DECCA FIX { 43° 54.6' N 63° 33.0' W | |
| 1107 - FIRST LINE TO SASKATCHEWAN 1148 - LAST LINE LET GO 1120 - A/C 046 1146 - SECURED RAS STATIONS 1135 - TENSIONED SPAN WIRE 1156 - A/C 000° 1140 - DETENSIONED SPAN WIRE | 1030 DECCA FIX { 44° 05.1' N 63° 32.5' W | |
| 1240 A/C 338° 1250 350 CLOSED UP | 1130 DECCA FIX { 44° 13.9' N 63° 32.4' W | |
| 1302 SP 12 1314 A/C 339° 1321 HANGS TO STATIONS FOR ENTERING HBR. 1352 A/C 005° 1303 QUAD PILOTAGE TEAM CLEARED UP 1315 CHEBUCTO HBR 1322 A/C 337 1331 A/C 338 1344 SP 4 1355 SP 7 1329 THROUGH P 1.87 mi. 1310 550 AND CABLE PARTY CLEARED UP. 1317 A/C 338° 1325 A/C 339 1330 A/C 340 1346 A/C 339 1357 PILOT FIX MAUGHERRI BEAC 2.36 mi. 1312 A/C 340° 1319 MAR CONTROL 1329 A/C 335° 1342 A/C 337 1348 A/C 335 1357 PILOT FIX TRIBUNE NO 1.1 mi. 1402 - A/C 315 1331 A/C 336 1343 GYRO 1° LOW BY TRANSIT. 1349 A/C 335 | 1230 Samarco ISL LT. 300° 5.6 mi. FIX CHEBUCTO HBR. 322° VISUAL TROR | |
| 1417 - STOP MAIN ENGINE 1418 - AHEAD ENGINE SP 3 1438 - FIRST LINE A SHORE 1445 - SECURED ALONGSIDE JETTY FOUR HMC DOCK YARD HALIFAX. CUSTOMS ABOARD | | |
| 1575 - CUSTOMS CLEARED SHIP, DEPENDANTS ABOARD, GANWAY OPEN. | | |
| 1855 - SUNSET | | |
| 1945 - ROUNDS CORRECT | | |
| 1950 - EXERCISED EMERGENCY AT FIRE STATIONS IN E.M. LUG COMPARTMENT. | | JW |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 43° 36.9' N | 63° 32.5' W | DECCA | | | | |
| 1200 | 44° 18.4' N | 63° 26.9' W | DECCA | | | | STEAMING |
| 2000 | ° | ° | | | | | |

HMCS PROTECTEUR

SUNDAY

12TH OF APRIL

| 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 | 010 | 10 | - | - | - | 98 | 02 | 1002 | 2.2 | 2.1 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | 020 | 15 | - | - | - | 98 | 02 | 1004 | 2.2 | 3.3 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 8 | 020 | 15 | | | | 97 | 02 | 1007.5 | 5.6 | 8.3 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 7 | 020 | 15 | | | | 98 | 01 | 1010.5 | 6.7 | 4.4 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | 020 | 15 | | | | 98 | 02 | 1010.5 | 7.8 | 5.0 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 8 | 020 | 15 | | | | 98 | 02 | 1010.5 | 5.0 | 4.4 | |

| | | | | |
|---|---|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | SKIP'S COMPANY NRFD 0930 SUN - 0755 MON | | | |

HMCS PROTECTEUR

MONDAY

13TH OF APRIL

| 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 | | | | | | | | NR | NR | 2 | 030 | 10 | | | | 98 | 02 | 1014.5 | 4.4 | 2.2 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 7 | 090 | 8 | | | | 98 | 03 | 1016 | 3.3 | 3.9 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 4 | 090 | 12 | | | | 98 | 01 | 1016 | 3.6 | 1.7 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 7 | 040 | 8 | | | | 98 | 02 | 1027 | 11.1 | 7.8 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | 040 | 5 | | | | 98 | 02 | 1020 | 3.9 | 1.7 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 1 | 020 | 5 | | | | 98 | 02 | 1020.5 | 1.7 | 0.6 | |

| | | | |
|---|---|--|-----------------|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings |
| | SHIPS COMPANY WRFD 1600 MONDAY TO 0755 TUESDAY | | |

HMCS PROTECTOR

TUESDAY

14th OF APRIL

| 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 | | | | | | | | | | 0 | 040 | 4 | | | | 98 | 01 | 1022 | 0.0 | -1.7 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 0 | 030 | 5 | | | | 98 | 02 | 1022 | 1.1 | -1.1 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | 4 | | | | | | | | | 1 | 000 | 2 | | | | 98 | 02 | 1022 | 8.9 | 3.9 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 1 | 345 | 10 | | | | 98 | 02 | 1021 | 8.9 | 4.4 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 1 | 000 | 4 | | | | 98 | 02 | 1022.5 | 3.3 | 1.7 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 1 | 000 | 2 | | | | 98 | 02 | 1022 | 3.3 | 1.1 | |

| | | | | |
|--|--|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | N.R.F.D From 1600 TUESDAY To 0755 WEDNESDAY | | | |

HMCS PROTECTEUR

WEDNES DAY

15TH OF APRIL

| 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 | 000 | 4 | | | | 98 | 02 | 1022 | 1.7 | .6 | | |
| 0500 | | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | 000 | 3 | | | | 97 | 07 | 1023 | 1.7 | 1.1 | | |
| 0900 | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 1 | 110 | 2 | | | | 98 | 02 | 1023 | 8.9 | 7.2 | | |
| 1300 | | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 1 | CALM | | | | | 98 | 02 | 1022.5 | 11.1 | 7.2 | | |
| 1700 | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 2 | 150 | 6 | | | | 97 | 02 | 1024 | 4.4 | 3.3 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 8 | CALM | | | | | 96 | 28 | 1026 | 1.1 | 1.7 | | |

| | | | | |
|---|--|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | MEN NRFD FROM 1600 WEDNESDAY TO 0755 THURSDAY | | | |

HMCS PROTECTEUR

THURSDAY

16th OF APRIL

| 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 | 150 | 5 | | | | 96 | 42 | 1026 | 1.7 | 1.1 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | CALM | | | | | 96 | 42 | 1227.5 | 0.6 | 0.0 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 3 | 120 | 6 | | | | 98 | 01 | 1028.5 | 6.7 | 6.1 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 4 | 185 | 5 | | | | 98 | 02 | 1028 | 5.6 | 3.9 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 8 | 130 | 6 | | | | 96 | 02 | 1029 | 2.2 | 1.7 | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 2 | 150 | 5 | | | | 96 | 02 | 1031 | 1.6 | 1.0 | |

Distance run
through the Water
Midnight to
Midnight

Leave Granted to Ship's Company

MEN NRFD 1600 THURSDAY To 0705 FRIDAY

Anchor Bearings

1970

FROM

TO

, OR AT HALIFAX, N.S.

REMARKS

Initials
of the
Officer
of the
Watch

0532 - SUNRISE

0800 - COLOURS HANDS EMPLOYED AT CLEANING STATIONS

1005 FIVE MEN POSTED ONBOARD FROM PRESERVER
 1010 WHEELER BARGE SECURED ALONGSIDE

1200 SECURE

1315 HANDS EMPLOYED BY DEPARTMENTS

1430 SMOKING RESTRICTIONS IN EFFECT. STRIPPING TANKS

1600 SECURE

1715 SMOKING RESTRICTIONS LIFTED

1858 SUNSET

2000 ROUNDS CORRECT

2000 EXERCISED FIRE STATIONS SPIRIT ROOM

| Position | Latitude | Longitude | Depending on | Draught | | |
|----------|----------|-----------|--------------|---------|---------|-----|
| | | | | Time | Forward | Aft |
| 0800 | ° / | ° / | | | | |
| 1200 | ° / | ° / | | | | |
| 2000 | ° / | ° / | | | | |

Notice for Main Engines at Noon
 12 Hours
 PROTECTEUR
 APR 16 1970
 COMMANDING OFFICER 000499

HMCS PROTECTEUR FRI DAY 17th OF APRIL

| 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 | 120 | 5 | | | | 96 | 42 | 1031 | 1.1 | .0 | | |
| 0500 | | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | 130 | 5 | | | | 97 | 01 | 1031 | .0 | .0 | | |
| 0900 | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | | |
| 1200 (+4) | | | | | | | | | | 4 | 130 | 5 | | | | 98 | 02 | 1031.5 | 3.3 | 2.2 | | |
| 1300 | | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 3 | 180 | 8 | | | | 98 | 02 | 1029 | 5.6 | 3.9 | | |
| 1700 | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 3 | 180 | 6 | | | | 98 | 02 | 1028 | 3.3 | 2.8 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 5 | 190 | 5 | | | | 98 | 02 | 1027 | 3.9 | 3.3 | | |

| | | |
|---|---|-----------------|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company <i>MC NRFO FROM 1600 FRIDAY TO 0755 SATURDAY SUNDAY</i> <i>jm</i> | Anchor Bearings |
|---|---|-----------------|

HMCS PROTECTEUR

SATUR DAY 18th

OF April

| 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 | | | | | | | | | | 4 | CALM | | | | 98 | 02 | 1024.5 | 3.9 | 2.8 | | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 8 | 180 | 5 | | | 97 | 02 | 1022.5 | 4.4 | 3.9 | | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 6 | 195 | 10 | - | - | 98 | 01 | 1021 | 3.9 | 4.4 | | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 7 | 205 | 12 | - | - | 98 | 03 | 1018 | 3.9 | 3.3 | | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | 5 | 240 | 14 | - | - | 97 | 01 | 1017 | 3.9 | 3.1 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 6 | 275 | 16 | - | - | 97 | 03 | 1017 | 3.9 | 3.8 | | |

| | | | | |
|--|-----------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | SHIP'S COMPANY NRFD 0930-1200 SUN | | | |

HMCS PROTECTEUR

SUNDAY

19th OF APRIL

| 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 | | | | | | | | | | 6 | 280 | 15 | - | - | - | 97 | 03 | 1009 | 4.4 | 2.2 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 7 | 280 | 15 | - | - | - | 98 | 03 | 1008 | 3.9 | 3.9 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 8 | 280 | 15 | - | - | - | 98 | 03 | 1006 | 3.9 | 3.7 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1334 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | 2440.01 | | | | VAR | VAR | VAR | VAR | | | | | | | | | | | | |
| 1500 | | 2450.70 | 9.3 | 52.4 | VAR | VAR | VAR | VAR | 23W | | | | | | | | | | | | |
| 1507 | | | | | 158 | 158 | 182 | 1W | | | | | | | | | | | | | |
| 1542 | | | | | 114 | 114 | 137 | 0 | | | | | | | | | | | | | |
| 1600 | +4 | 2464.94 | 14.2 | 69.4 | 180 | 180 | 205 | 2W | 23W | 8 | 320 | 34 | 5 | 340 | 2 | 97 | 70 | 1000.5 | 5.0 | 3.9 | 2.2 |
| 1608 | | | | | 115 | 115 | 139 | | 23W | | | | | | | | | | | | |
| 1700 | | 2477.59 | 12.6 | 58.9 | 115 | 115 | 139 | 1°W | 23°W | | | | | | | | | | | | |
| 1800 | +4 | 2491.40 | 13.9 | 58.9 | 115 | 115 | 139 | 1°W | 23°W | 8 | 320 | 30 | 2 | 350 | 5 | 98 | 02 | 999.5 | 3.9 | 2.8 | 2.2 |
| 1900 | | 2502.36 | 10.9 | 56.3 | 115 | 115 | 139 | 1°W | 23°W | | | | | | | | | | | | |
| 2000 | +4 | 2515.37 | 13.0 | 57.7 | 115 | 115 | 139 | 1°W | 23°W | 8 | 330 | 30 | 1 | 320 | 5 | 98 | 02 | 999 | 1.1 | 0.6 | 3.9 |
| 2100 | | 2526.75 | 11.4 | 57.7 | 115° | 115° | 139° | 1°W | 23°W | | | | | | | | | | | | |
| 2200 | | 2538.79 | 12 | 57.8 | 115° | 115° | 139° | 1°W | 23°W | | | | | | | | | | | | |
| 2300 | | 2550.39 | 12 | 57.9 | 115° | 115° | 139° | 1°W | 23°W | | | | | | | | | | | | |
| 2330 | | | | | 115° | 115° | 139° | 1°W | 23°W | | | | | | | | | | | | |
| 2400 | +4 | 2568.30 | 15 | 73 | 130 | 130° | 155° | 2°W | 23°W | 8 | 355 | 35 | 5 | 310 355 | 15 | 98 | 02 | 999 | .6 | 0 | 3.3 |

| | | | | |
|--|---------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | 124.3 mi | | | |

1970

FROM HALIFAX

TO

, OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|--|---|
| 0527 - SUN RISE | | |
| 0800 - COLOURS | | |
| 0830 - DUTY WATCH EMPLOYED AT CLEANING STATIONS | | JK |
| 0930 - SECURE | | |
| 1330 - SSD AND CABLE PARTY CLOSE UP ASSUME NBCD CANY | | |
| 1340 - TUGS GLENDYNE AND RIVERTON ON STBD QUARTER 1354 - LAST LINE LET GO | | |
| 1409 - SLIPPED TUGS 1422 - A/C 170 1437 - INNER MIDDLE GROUND 1447 - MARS ROCK BUOY CO 138 SP8 1426 - A/C 151 Buoy STBD BEAM ON STBD BEAM 1414 - A/C 126 1430 - SP 10 1445 - A/C 175 1463 - A/C 155 | | 1426 } BREAKWATER - 163 1/2 U.S. { GEORGE IS LT - 139 1/2 FLAME TOWER - 105 |
| 1506 - SECURE SSD. | | 1510 } DEVIL'S IS 013 U.S. { SAMBO IS 221 FIX. { CIPBUOY HO 288 |
| 1608 A/C 115 | | 1600 } 44 23.1 N DECCA { 63.19 W FIX |
| 1725 ASSUMED POSITION OF OTC | | |
| 1758 HANDS TO EMERGENCY FLYING STATIONS | | 1730 } 44 13.8 N DECCA { 63 00.2 W FIX |
| 1812 SECURE EMERGENCY FLYING STATIONS | | |
| 1813 SP5 1816 SP12 | | 1805 } 44 10 N FIX. { 62 50.6 W DECCA |
| 1904 SUNSET NAV. LTS SW ON Darken ship. | | |
| 1950 Saguenay landed on helicopter. | | 2000 } 44 00 N FIX. { 62 24 W DECCA |
| | | 2030 } 43 57 N DECCA { 62 19 W FIX |
| | | 2130 } 43 52 N DECCA { 62 02 W FIX |
| 2258 - NIPIGAN ASSUMED DUTIES OF OTC. | | 2230 } 43 46 N DECCA { 61 47 W FIX |
| 2330 - A/C 130 T SP-18 | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° ' " | ° ' " | | | | | |
| 1200 | ° ' " | ° ' " | | | | | |
| 2000 | 44° 00' N | 62° 24' W | DECCA | | | | |

HMCS PROTECTEUR

MONDAY

20th OF APRIL

| 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 | | 2583.08 | 15.6 | 82.1 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0200 | | 2600.40 | 17.5 | 87.9 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0300 | | 2618.51 | 17.0 | 88 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0400 | +4 | 2636.22 | 18.0 | 88 | 130 | 130 | 153 | 0 | 23W | 8 | 315 | 34 | 5 | 350 | 10 | 98 | 02 | 998.5 | 3.3 | 2.8 | 7.2 |
| 0500 | | 2654.24 | 18.0 | 88 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0600 | | 2672.33 | 18.0 | 88.1 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0700 | | 2689.86 | 17.9 | 88.1 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0800 | +4 | 2716.02 | 16.2 | 88.3 | 130 | 130 | 153 | 0 | 23W | 8 | 315 | 23 | 7 | 320 | 10 | 98 | 02 | 1001.4 | 2.0 | 1.5 | 5.6 |
| 0900 | | 2726.84 | 14 | 88 | 130 | 130 | 153 | 0 | 23W | | | | | | | | | | | | |
| 0914 | | | | | 125 | 125 | 148 | 0 | 23W | | | | | | | | | | | | |
| 1000 | | 2741.16 | 22 | 75.6 | 125 | 125 | 148 | 0 | 23W | | | | | | | | | | | | |
| 1100 | | 2756.07 | 16 | 71.6 | 125 | 125 | 148 | 0 | 23W | | | | | | | | | | | | |
| 1200 | +4 | 2770.99 | 11.5 | 71.6 | 125 | 125 | 148 | 0 | 23W | 8 | 315 | 32 | 5 | 320 | 10 | 98 | 02 | 1003 | 3.3 | 1.1 | 12.2 |
| 1214 | | | | | 125 | 125 | 148 | 0 | 23W | | | | | | | | | | | | |
| 1245 | | | | | 135 | 135 | 160 | 0 | 2W | | | | | | | | | | | | |
| 1258 | | | | | 340 | 340 | 360 | 0 | 3E | | | | | | | | | | | | |
| 1300 | | 2785.55 | 15.0 | 75.9 | 330 | 330 | 350 | 0 | 3E | | | | | | | | | | | | |
| 1314 | | | | | 330 | 330 | 350 | 0 | 3E | | | | | | | | | | | | |
| 1400 | | 2791.05 | 10.0 | 53.7 | 290 | 290 | 313 | 0 | 23W | | | | | | | | | | | | |
| 1409 | | | | | 130 | 130 | 155 | 0 | 2W | | | | | | | | | | | | |
| 1500 | | 2803.35 | 16.0 | 69.6 | 130 | 130 | 155 | 2W | 23W | | | | | | | | | | | | |
| 1600 | +4 | 2819.56 | 16.2 | 71.8 | 130 | 130 | 155 | 2W | 23W | 8 | 325 | 30 | 5 | 320 | 10 | 97 | 50 | 1003 | 5.0 | 4.4 | 13.3 |
| 1700 | | 2830.96 | 11.4 | 73.4 | VAR | VAR | VAR | VAR | 23W | | | | | | | | | | | | |
| 1800 | +4 | 2846.78 | 16.0 | 79.6 | 130 | 130 | 154 | 1°W | 23W | 8 | 310 | 20 | 5 | 320 | 10 | 98 | 02 | 1007 | 5.6 | 5.0 | 14.4 |
| 1900 | | 2859.21 | 12.5 | 66.8 | VAR | VAR | VAR | VAR | 23W | | | | | | | | | | | | |
| 2000 | +4 | 2867.63 | 8.4 | 45.4 | 160 | 160 | 187 | 4°W | 23W | 8 | 310 | 30 | 5 | 320 | 10 | 97 | 02 | 1009.5 | 6.1 | 5.8 | 14.9 |
| 2100 | | 2875.86 | 8.2 | 45.3 | 160 | 160 | 187 | 4°W | 23W | | | | | | | | | | | | |
| 2200 | | 2883.69 | 7.8 | 45.3 | 160 | 160 | 187 | 4°W | 23W | | | | | | | | | | | | |
| 2300 | | 2891.97 | 8.3 | 45.2 | 160 | 160 | 187 | 4°W | 23W | | | | | | | | | | | | |
| 2400 | +4 | 2900.77 | 9.0 | 45.2 | 160 | 160 | 187 | 4°W | 23W | 8 | 310 | 22 | 4 | 270 | 15 | 97 | 02 | 1012.5 | 5.6 | 6.1 | 14.4 |

| | | | | |
|--|---------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | 340.5 mi | | | |

1970 FROM HALIFAX TO , OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|--|--------------------------------------|
| | 1230 LORAN FIX { 43° 33' N 61° 23' W | |
| | 0130 LORAN FIX { 43° 22' N 61° 05' W | |
| | 0230 LORAN FIX { 43° 11' N 60° 50' W | |
| | 0330 LORAN FIX { 42° 57' N 60° 31' W | MS |
| 0420 COMMENCED BLOWING SOOT & PUMPING BILGES | 0430 LORAN FIX { 42° 43' N 60° 11' W | |
| 0511 SUNRISE NAUGHTS SWITCHED OFF 0515 COMPLETED PUMPING BILGES 0520 COMPLETED BLOWING SOOT | 0530 LORAN FIX { 42° 32' N 59° 52' W | |
| | 0630 LORAN FIX { 42° 10' N 42° 22' N 59° 36' W | |
| 0800 - HANDS EMPLOYED AT CLEANING STATIONS | 0730 LORAN FIX { 42° 10' N 59° 18' W | JK |
| 0818 COURSES REQUIRED TO FIND BEST COURSE FOR UNREP 0825 60-130° | 0900 LORAN FIX { 42° 00' N 58° 55' W | |
| 0900 HANDS TO RAS STATIONS 0914 A/C 120° 0940 FIRST LINE TO SAGUENAY SP 15 0943 FIRST LINE TO NIPICON | 1000 LORAN FIX { 41° 44' N 58° 34' W | |
| 0917 A/C 125° | 1100 LORAN FIX { 41° 35' N 58° 16' W | |
| 1110 STOPPED PUMPING PORT 1800 LEAKAGE OF MSEA NO FUEL PASSED 1200 RECOVERED LAST LINE FROM NIPICON | 1200 LORAN FIX { 41° 29' N 58° 03' W | JK |
| 1146 LOST ALL LINES SAGUENAY | 1230 LORAN FIX { 41° 23' N 57° 55' W | JW |
| 1204 SECURE RAS STATIONS 1258 A/C 330 | | |
| 1213 A/C 135 SP 18 1318 SP 13 1335 SP 12 1245 A/C 340 SP 10 1320 SECURE FLYING STNS 1348 SP 10 1246 HANDS TO FLYING STNS 1321 SP 12 1325 SP 5 1400 SP 12 | | |
| 1304 HELD ON DECK 1318 SP 13 1335 SP 12 1314 A/C 290 SP 12 1320 SECURE FLYING STNS 1348 SP 10 1315 HANDS TO RAS STNS 1321 SP 12 1325 SP 5 1400 SP 12 | | |
| 1405 SECURE RAS STNS 1409 A/C 130 SP 15 | 1415 LORAN FIX { 41° 25' N 58° 01' W | |
| 1600 HANDS TO FLYING STATIONS | 1515 LORAN FIX { 41° 13' N 57° 44' W | JK |
| 1605 COURSE & SPEED AS REQUIRED FOR HELD OPS 1614 A/C 320 1648 A/C 130 SP 19 1624 SECURE FLYING STATIONS 1617 SP 10 1635 HANDS TO FLYING STATIONS 1622 A/C 130 SP 15 1652 SECURE FLYING STATIONS 1627 SP 19 1640 A/C 330 SP 10 | 1605 LORAN FIX { 41° 06' N 57° 32' W | |
| 1720 SP 15 | 1700 LORAN FIX { 41° 04' N 57° 24' W | JW |
| 1800 HANDS TO FLYING STATIONS | 1800 LORAN FIX { 40° 44.5' N 57° 02.5' W | |
| 1823 SAGUENAY GUIDE 1829 A/C 325 1832 SECURE FLYING STATIONS - SUNSET NAUGHTS SPW ON 1824 A/C 340 1830 LAUNCHED HELD 1845 A/C 160 1827 SP 10 1831 A/C 130 SP 10 1828 A/C 330 SP 18 SUNSET NAV LIGHTS SWITCHED ON | | |
| | 1900 LORAN FIX { 40° 45' N 56° 55' W | JK |
| | 2000 LORAN FIX { 40° 33' N 56° 49' W | |
| | 2105 LORAN FIX { 40° 22' N 56° 47' W | |
| | 2250 LORAN FIX { 40° 08' N 56° 37' W | |
| | 2330 LORAN FIX { 40° 02.5' N 56° 36' W | JK |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 42° 06.1' N | 59° 11.5' W | LORAN | | | | |
| 1200 | 41° 29' N | 58° 03' W | LORAN | | | | |
| 2000 | 40° 33' N | 56° 49' W | LORAN | | | | |

HMCS PROTECTEUR

TUESDAY

21st OF APRIL

| Time | Zone Suffix | Log (Stating type) | Distance Run Miles and Tenths | Mean Revns. 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 | | 2907.92 | 9.5 | 45.2 | 160 | 160 | 187 | 5W | 22W | | | | | | | | | | | | | |
| 0200 | | 2917.06 | 10.0 | 45.2 | 160 | 160 | 187 | 5W | 22W | | | | | | | | | | | | | |
| 0300 | | 2924.61 | 10.0 | 45.2 | 160 | 160 | 187 | 5W | 22W | | | | | | | | | | | | | |
| 0348 0400 | +4 | 2932.90 | 10.0 | 45.5 | 160 278 | 160 278 | 187 302 | 5W 2'W | 22W | 8 | 315 | 21 | 5 | 320 | 8 | 98 | 02 | 1012 | 8.5 | 5.4 | 14.4 | |
| 0500 | | 2940.92 | 9.0 | 54.7 | 278 | 278 | 302 | 2'W | 22'W | | | | | | | | | | | | | |
| 0555 0600 | | 2951.06 | 9.1 | 51.7 | 278 272 | 278 272 | 302 296 | 2'W 2'W | 22'W | | | | | | | | | | | | | |
| 0700 | | 2962.37 | 10.3 | 63.4 | 272 | 272 | 296 | 2'W | 22'W | | | | | | | | | | | | | |
| 0710 | | | | | 272 | 272 | 296 | 2'W | | | | | | | | | | | | | | |
| 0800 | +4 | 2970.42 | 9.1 | 50.4 | 320 | 320 | 344 | 2'W | 22'W | 8 | 320 | 18 | 3 | 320 | 9 | 98 | 02 | 1017 | 10.6 | 10.0 | 14.4 | |
| 0900 | | 2980.82 | 10.4 | 59.1 | 320 | 320 | 344 | 2'W | 22'W | | | | | | | | | | | | | |
| 1000 | | 2990.02 | 9.2 | 59.7 | 320 | 320 | 344 | 2'W | 22'W | | | | | | | | | | | | | |
| 1100 | | 3002.22 | 12.2 | 59.8 | 320 | 320 | 344 | 2'W | 22'W | | | | | | | | | | | | | |
| 1200 | +4 | 3013.42 | 12.0 | 61.7 | 320 | 320 | 344 | 2'W | 22'W | 8 | 095 | 9 | 1 | 010 | 8 | 98 | 02 | 1015 | 7.8 | 7.2 | | |
| 1200 | | | | | 320 | 320 | 344 | 2'W | | | | | | | | | | | | | | |
| 1300 | | 3032.04 | 14.0 | 94.8 | 086 | 086 | 110 | 2W | 22W | | | | | | | | | | | | | |
| 1312 | | | | | 086 | 086 | 110 | 2W | | | | | | | | | | | | | | |
| 1400 | | 3050.24 | 17.0 | 95.2 | 080 | 080 | 104 | 2W | 22W | | | | | | | | | | | | | |
| 1455 | | | | | 080 | 080 | 104 | 2W | | | | | | | | | | | | | | |
| 1500 | | 3068.54 | 14.0 | 95.1 | 108 | 108 | 130 | 0 | 22W | | | | | | | | | | | | | |
| 1518 | | | | | 108 | 108 | 130 | 0 | | | | | | | | | | | | | | |
| 1527 | | | | | 120 | 120 | 145 | 3W | | | | | | | | | | | | | | |
| 1600 | +4 | 3084.51 | 14.0 | 80.7 | 140 | 140 | 165 | 3W | 22W | 8 | 172 | 14 | 2 | 000 | 8 | 98 | 02 | 1013 | 9.4 | 8.3 | 14.4 | |
| 1700 | | 3096.12 | 11.5 | 57.7 | 140 | 140 | 165 | 3'W | 22'W | | | | | | | | | | | | | |
| 1705 | | | | | 345 | 345 | 004 | 1'E | | | | | | | | | | | | | | |
| 1720 | | | | | 005 | 005 | 025 | 2'E | | | | | | | | | | | | | | |
| 1800 | +4 | 3111.31 | 15.7 | 80.6 | 005 | 005 | 025 | 2'E | 22'W | 8 | 084 | 18 | 2 | 000 | 8 | 98 | 02 | 1012 | 9.4 | 8.9 | 14.4 | |
| 1836 | | | | | 053 | 053 | 075 | 0 | 22'W | | | | | | | | | | | | | |
| 1900 | | 3126.01 | 14.7 | 76.7 | 053 | 053 | 075 | 0 | 22'W | | | | | | | | | | | | | |
| 1905 | | | | | 030 | 030 | 051 | 1'E | 22'W | | | | | | | | | | | | | |
| 1912 | | | | | 040 | 040 | 060 | 2'E | 22'W | | | | | | | | | | | | | |
| 2000 | +4 | 3139.39 | 13.4 | 69.2 | 040 | 040 | 060 | 2'E | 22'W | 8 | 080 | 18 | 2 | 000 | 8 | 98 | 02 | 1014 | 8.9 | 8.3 | 15.0 | |
| 2100 | | 3156.50 | 16.2 | 85.1 | VAR | VAR | VAR | VAR | 22W | | | | | | | | | | | | | |
| 2156 | | | | | 000 | 000 | 024 | 2W | | | | | | | | | | | | | | |
| 2200 | | 3167.25 | 10.7 | 56.2 | 350 | 350 | 014 | 2W | 22W | | | | | | | | | | | | | |
| 2300 | | 3176.88 | 8.8 | 45.6 | VAR | VAR | VAR | VAR | 22W | | | | | | | | | | | | | |
| 2400 | +4 | 3185.44 | 8.6 | 45.5 | 270 | 270 | 292 | 0 | 22W | 8 | 045 | 24 | 2 | 000 | 8 | 98 | 02 | 1017 | 8.9 | 7.2 | 15.6 | |

| | | | | |
|---|---------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | 278.8 mi | | | |

1970

FROM HALIFAX

TO

, OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|---|--------------------------------------|
| | 0030 LORAN FIX { 39° 58' N 56° 33' W | |
| | 0130 LORAN FIX { 39° 47' N 56° 29' W | |
| | 0230 LORAN FIX { 39° 41' N 56° 28' W | |
| 0348 a/c 278 | 0330 LORAN FIX { 39° 28' N 56° 20' W | SK |
| 0415 SP12 | 0430 LORAN FIX { 39° 27' N 56° 23' W | |
| 0502 SUNRISE UDL SWITCHED ON 0515 Sp 13 0555 a/c 272 | 0600 LORAN FIX { 39° 31' N 56° 45' W | |
| | 0640 LORAN FIX { 39° 31' N 56° 56' W | |
| 0710 a/c 280 0718 Sp 3 0740 HANDS TO RAS STATIONS 0746 Sp 12 | 0800 LORAN FIX { 39° 42' N 57° 15' W | AW |
| 0819 PASSED FIRST LINE TO BARRY (933) 0848 PASSED FIRST LINE TO INGRAMM (694) | 0845 LORAN FIX { 39° 42' N 57° 15' W | |
| 1021 SLIPPED LAST LINE FROM INGRAMM (694) DELIVERED 1300 BBL'S 1041 PASSED FIRST LINE TO ROAN (853) | 1030 LORAN FIX { 40° 00' N 57° 35' W | |
| 1158 SLIPPED LAST LINE USS ROAN (853) TRANSFERRED 1150 BBL'S 1159 Sp 19 SECURED RAS STNS | 1130 LORAN FIX { 40° 05' N 57° 45' W | SK |
| 1200 - A/c 086° T | 1225 LORAN FIX { 40° 15' N 57° 35' W | |
| 1312 - A/c 080° T | 1330 LORAN FIX { 40° 11' N 57° 12' W | |
| 1455 a/c 108 | 1423 LORAN FIX { 40° 13' N 56° 48' W | |
| 1518 a/c 120 1527 a/c 140 1529 HANDS TO RAS STNS 1559 - SAGUENAY ALONGSIDE | 1530 LORAN FIX { 40° 16' N 56° 35' W | NK |
| 1610 - FIRST LINE PASSED 1620 - COMMENCED PUMPING 1658 - STOPPED PUMPING 1705 SECURE RAS STATIONS a/c 345 SP15 1720 a/c 005 SP18 | 1600 LORAN FIX { 40° 06' N 56° 20' W | SK |
| 1828 SUNSET - NAV LTS SW ON 1836 - a/c 052 SP 10 1900 HANDS TO RAS STATIONS | 1730 LORAN FIX { 39° 57' N 56° 08' W | SK |
| 1905 a/c 030 1912 a/c 040 SP 14 1924 FIRST LINE TO AMMOPOLIS 1928 SW ON TASK LTS 1959 SLIPPED LAST LINE AMMOPOLIS - TRANSFERRED 805 BBL'S | 1825 LORAN FIX { 40° 26' N 56° 30' W | |
| 2000 a/c 350 SP 18 2027 a/c 325 2040 a/c 000 2045 HANDS TO RAS STNS 2053 - NIPIGON ALONGSIDE | 2000 LORAN FIX { 40° 32' N 55° 54' W | SK |
| 2147 SECURE RAS STNS 2150 Sp 10 2156 a/c 350 2100 - FIRST LINE PASSED 2110 - COMMENCED PUMPING 2130 - STOPPED PUMPING | | SK |
| 2209 a/c 310 2220 a/c 290 2225 a/c 270°(T) | 2240 LORAN FIX { 41° 15' N 56° 12' W | SK |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 39° 42' N | 57° 15' W | LORAN FIX | | | | |
| 1200 | 40° 16' N | 57° 50' W | LORAN FIX | | | | |
| 2000 | 40° 32' N | 55° 54' W | LORAN FIX | | | | |

HMCS PROTECTEUR

WEDNESDAY

22th OF APRIL

| 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 | | 3199.04 | 8.6 | 45.5 | 270 | 270 | 292 | 1°E | 23°W | | | | | | | | | | | | |
| 0200 | | 3203.01 | 9.0 | 45.5 | 270 | 270 | 292 | 1°E | 23°W | | | | | | | | | | | | |
| 0300 | | 3212.84 | 9.8 | 45.4 | 270 | 270 | 292 | 1°E | 23°W | | | | | | | | | | | | |
| 0400 | +4 | 3222.48 | 9.6 | 45.3 | 270 | 270 | 292 | 1°E | 23°W | 8 | 000 | 2 | 1 | 390 | 8 | 98 | 02 | 1018.5 | 5.6 | 3.9 | 13.9 |
| 0500 | | 3232.02 | 9.6 | 45.2 | 180 | 180 | 207 | 4°W | 23°W | | | | | | | | | | | | |
| 0600 | | 3241.40 | 9.6 | 45.2 | 180 | 180 | 207 | 4°W | 23°W | | | | | | | | | | | | |
| 0700 | | 3251.02 | 9.6 | 45.2 | 090 | 090 | 115 | 2°W | 23°W | | | | | | | | | | | | |
| 0800 | +4 | 3260.23 | 9.0 | 45.2 | 090 | 090 | 115 | 2°W | 23°W | 7 | 000 | 12 | 1 | 010 | 5 | 98 | 02 | 1019 | 10.6 | 9.4 | 14.4 |
| 0820 | | | | | 030 | 030 | 052 | | 23°W | | | | | | | | | | | | |
| 0900 | | 3274.48 | 14.2 | 70.1 | 030 | 030 | 052 | 1°E | 23°W | | | | | | | | | | | | |
| 1000 | | 2391.91 | 17.5 | 85.7 | 030 | 030 | 052 | 1°E | 23°W | | | | | | | | | | | | |
| 1100 | | 3309.65 | 17.7 | 86.6 | 065 | 065 | 086 | 2°E | 23°W | | | | | | | | | | | | |
| 1200 | +4 | 3321.96 | 12.3 | 62.6 | VAR | VAR | VAR | VAR | 23°W | 7 | 130 | 9 | 1 | 015 | 5 | 98 | 02 | 1019 | 11.7 | 10.6 | 14.4 |
| 1258 | | | | | 000 | 000 | 023 | 0 | | | | | | | | | | | | | |
| 1300 | | 3335.00 | 13.1 | 64.7 | 090 | 090 | 115 | 2°W | 23°W | | | | | | | | | | | | |
| 1336 | | | | | 090 | 090 | 115 | 2°W | | | | | | | | | | | | | |
| 1357 | | | | | 090 | 180 | 023 | 2°W | | | | | | | | | | | | | |
| 1400 | | 3347.80 | 12.0 | 64.7 | 000 | 000 | 023 | 0 | 23°W | | | | | | | | | | | | |
| 1500 | | 3360.29 | 14.0 | 64.7 | 000 | 000 | 023 | 0 | 23°W | | | | | | | | | | | | |
| 1600 | +4 | 3370.98 | 10.7 | 54.7 | VAR | VAR | VAR | VAR | 23°W | 5 | 080 | 21 | 2 | 240 | 5 | 98 | 01 | 1016 | 6.1 | 5.0 | 13.3 |
| 1611 | | | | | | | | | | | | | | | | | | | | | |
| 1700 | | 3380.97 | 10.0 | 50.5 | VAR | VAR | VAR | VAR | 23°W | | | | | | | | | | | | |
| 1800 | +4 | 3392.56 | 12.4 | 57.9 | 030 | 030 | 055 | 2°W | 23°W | 5 | 105 | 22 | 2 | 020 | 4 | 98 | 02 | 1016 | 6.1 | 4.9 | 13.3 |
| 1805 | | | | | 030 | 030 | 055 | 2°W | 23°W | | | | | | | | | | | | |
| 1900 | | 3400.57 | 8.0 | 37.2 | 270 | 270 | 292 | 1°E | 23°W | | | | | | | | | | | | |
| 2000 | +4 | 3407.84 | 7.3 | 35.4 | 270 | 270 | 292 | 1°E | 23°W | 7 | 090 | 25 | 4 | 020 | 5 | 97 | 02 | 1016 | 7.2 | 6.7 | 13.3 |
| 2100 | | 3415.73 | 7.9 | 34.9 | 270° | 270° | 292° | 2°E | 24°W | | | | | | | | | | | | |
| 2200 | | 3423.65 | 8.1 | 34.5 | 270° | 270° | 292° | 2°E | 24°W | | | | | | | | | | | | |
| 2300 | | 3431.42 | 7.8 | 34.6 | 270° | 270° | 292° | 2°E | 24°W | | | | | | | | | | | | |
| 2400 | +4 | 3439.96 | 8.0 | 34.6 | 270° | 270° | 292° | 2°E | 24°W | 7 | 070 | 22 | 2 | 070 | 4 | 98 | 02 | 1012 | 7.2 | 6.1 | 12.2 |

Distance run through the Water Midnight to Midnight
255.8

Leave Granted to Ship's Company

Anchor Bearings

19 70

FROM HALIFAX

TO

, OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|---|--------------------------------------|
| | 0017 LORAN FIX { 41° 02' N 56° 16' W | |
| | 0100 LORAN FIX { 41° 01' N 56° 25' W | |
| | 0205 LORAN FIX { 41° 02' N 56° 37' W | |
| 0400 1/180 | 0300 LORAN FIX { 41° 01' N 56° 47' W | MB |
| 0430 COMMENCED BLOWING BOOT 0457 SUNRISE WOL SWITCHED OFF | 0400 LORAN FIX { 41° 04' N 57° 02' W | |
| 0600 1/1090 | 0600 LORAN FIX { 40° 38' N 56° 55' W | |
| 0620 COMPLETED BLOWING BOOT | 0700 LORAN FIX { 40° 39' N 56° 45' W | |
| 0820 A/C 030 SP 18 | 0800 LORAN FIX { 40° 40' N 56° 35' W | MB |
| | 0830 LORAN FIX { 40° 44' N 56° 32' W | |
| 0953 HANDS TO FLYING STATIONS | 0930 LORAN FIX { 41° 00' N 56° 24' W | |
| 1005 A/C 075 1056 SP 14 | 1035 LORAN FIX { 41° 08' N 56° 00' W | |
| 1008 SECURE FLYING STATIONS 1030 HELD ON DECK 1045 HANDS TO FLYING STATIONS 1100 A/C 065 SP 12 1104 SP 13 1119 SECURE FLYING STATIONS 1105 A/C 110 A/C 050 1107 A/C 140 1139 A/C 000 | 1135 LORAN FIX { 41° 15' N 55° 47.5' W | BR |
| 1230 - HANDS TO FLYING STNS 1258 - A/C 090 | 1240 LORAN FIX { 41° 26' N 55° 46' W | |
| 1335 SECURE FLYING STNS 1336 A/C 180 1357 A/C 000 | 1320 LORAN FIX { 41° 25' N 55° 35' W | |
| 1451 SP 11 | 1430 LORAN FIX { 41° 22' N 55° 28' W | |
| 1500 HANDS TO FLYING STNS 1503 A/C 065 1522 A/C 000 1545 A/C 075 | 1520 LORAN FIX { 41° 34' N 55° 30' W | MB |
| 1610 SECURE FLYING STATIONS 1645 HANDS TO RAS STATIONS 1611 1/2 290 SP 11 1650 - SAGUNAY ALONGSIDE 1643 1/2 030 SP 12 1655 - FIRST LINE PASSED | 1600 LORAN FIX { 41° 38' N 55° 24' W | MB |
| 1710 - COMMENCED PUMPING 1735 - SECURE PUMPING 1755 - LAST LINE LET GO 1805 - SECURE RAS STATIONS A/C 270 SP 10 1833 - SUNSET NAV LIGHTS SWITCHED ON 1811 - SP-7 | 1700 LORAN FIX { 41° 40' N 55° 20' W | MB |
| | 1800 LORAN FIX { 41° 50' N 55° 14' W | |
| | 1900 LORAN FIX { 41° 52' N 55° 24' W | MB |
| | 2000 LORAN FIX { 41° 52' N 55° 34' W | |
| 2143 - TESTED LIFEBOAT ALARM | 2100 LORAN FIX { 41° 52' N 55° 44.5' W | |
| | 2200 LORAN FIX { 41° 52' N 55° 54' W | |
| | 2300 LORAN FIX { 41° 55' N 55° 54' W | BR |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 40° 40' N | 56° 35' W | LORAN | | | | |
| 1200 | 41° 17' N | 55° 47' W | LORAN | | | | |
| 2000 | 41° 52' N | 55° 34' W | LORAN | | | | |

1970

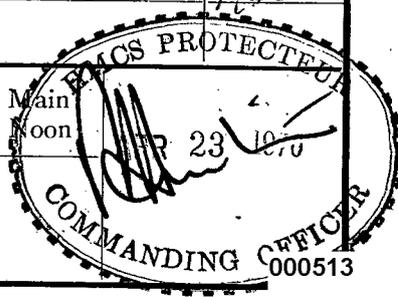
FROM HALIFAX

TO

OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|---|--------------------------------------|
| 0000- a/c 000° Sp 4 0004- Sp 10 0005- COMMENCED PUMPING BILGES | | |
| 0100 a/c 270° 0120 - COMPLETED PUMPING BILGES 0155 - a/c 180° | 0110 LORAN FIX { 42° 02' N 56° 18' W | |
| 0305 a/c 090° | 0305 LORAN FIX { 41° 50' N 56° 19' W | JAW |
| 0400 a/c 090° 0405 COMMENCED BLOWING SOOT 0430 COMPLETED BLOWING SOOT 0454 SUNRISE NAV LIGHTS SUSPENDED OFF | | |
| 0530 a/c 270 0600 a/c 180 | 0550 LORAN FIX { 42° 03' N 56° 27' W | |
| 0650 Sp 12 0655 a/c 180 | 0645 LORAN FIX { 41° 56' N 56° 32' W | |
| 0742 a/c 160 | 0730 LORAN FIX { 41° 49' N 56° 25' W | JAW |
| 0912 a/c 150 175° (M) | 0800 LORAN FIX { 41° 41' N 56° 34' W | |
| 1007 a/c 155° 1040 a/c 065° 1045 a/c 155° | 1000 LORAN FIX { 41° 22.5' N 56° 13' W | |
| 1122 a/c 190 115° B a/c 240 1135 a/c 160 1154 a/c 235 | 1110 LORAN FIX { 41° 12.5' N 56° 08' W | MTZ |
| 1205 a/c 070 1208 a/c 080 1210 Two BOILERS BACK ON LINE 211 Sp 13 1217 a/c 190 1218 Sp 15 1221 a/c 180 1258 HANDS TO RAAS STNS | 1230 LORAN FIX { 41° 08' N 56° 09' W | |
| 1309 a/c 220 1330 Sp 1335 SECURE RAAS STNS 1340 a/c 180 | 1330 LORAN FIX { 40° 58' N 56° 18' W | |
| 1407 Sp 12 1410 a/c 270 1435 Sp 15 | 1430 LORAN FIX { 40° 52' N 56° 28' W | |
| 1511 Sp 10 1515 Sp 14 a/c 258 1538 Sp 17 | 1530 LORAN FIX { 40° 47' N 56° 37' W | JAW |
| 1110 a/c 270 | 1700 LORAN FIX { 40° 45' N 57° 09' W | |
| | 1745 LORAN FIX { 40° 47' N 57° 29' W | JAW |
| 1838 SUNSET - NAV LTS S/W ON. | 1800 LORAN FIX { 40° 45' N 57° 33' W | |
| | 1900 LORAN FIX { 40° 46' N 57° 54' W | |
| 2055 - LIFEBOUY ALARM TESTED | 2000 LORAN FIX { 40° 43' N 58° 10' W | |
| | 2100 LORAN FIX { 40° 46' N 58° 39' W | |
| | 2200 LORAN FIX { 40° 47' N 58° 56' W | |
| | 2300 LORAN FIX { 40° 47' N 59° 12' W | JAW |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 41° 41' N | 55° 36' W | LORAN | | | | |
| 1200 | 41° 04' N | 56° 09' W | LORAN | | | | |
| 2000 | 40° 43' N | 58° 10' W | LORAN | | | | |



HMCS PROTECTEUR

FRIDAY

24th OF APRIL

| 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 | | 3728.51 | 18.8 | 84.6 | 267 | 267 | 289 | 0 | 22W | | | | | | | | | | | | |
| 0200 | | 3745.97 | 17.4 | 84.6 | 267 | 267 | 289 | 0 | 22W | | | | | | | | | | | | |
| 0300 | | 3762.40 | 18.5 | 84.5 | 267 | 267 | 290 | 0 | 21W | | | | | | | | | | | | |
| 0400 | +4 | 3780.54 | 17.9 | 84.1 | 267 | 267 | 290 | 0 | 21W | 8 | 046 | 21 | 3 | 060 | 8 | 97 | 02 | 1023 | 8.9 | 8.4 | 16.7 |
| 0417 | | | | | 267 | 267 | 290 | 2°W | | | | | | | | | | | | | |
| 0500 | | 3796.86 | 17.0 | 75.8 | 264 | 264 | 287 | 2°W | 21W | | | | | | | | | | | | |
| 0512 | | | | | 264 | 264 | 287 | 2°W | | | | | | | | | | | | | |
| 0600 | | 3813.10 | 12.0 | 66 | 260 | 260 | 282 | 1°W | 21W | | | | | | | | | | | | |
| 0635 | | | | | 260 | 260 | 282 | 1°W | | | | | | | | | | | | | |
| 0700 | | 3822.24 | 9.0 | 62 | 045 | 045 | 067 | 1°W | 21W | | | | | | | | | | | | |
| 0800 | +4 | 3832.53 | 10.3 | 57.2 | 045 | 045 | 067 | 1°W | 21W | 8 | 000 | 13 | 3 | 045 | 8 | 98 | 02 | 1026.5 | 6.7 | 5.0 | 13.9 |
| 0900 | | 3842.90 | 10.4 | 57.2 | 045 | 045 | 067 | 1°W | 21W | | | | | | | | | | | | |
| 0917 | | | | | 195 | 195 | 219 | 3° | | | | | | | | | | | | | |
| 1000 | | 3859.00 | 16.1 | 84.7 | 195 | 195 | 219 | 3°W | 21W | | | | | | | | | | | | |
| 1100 | | 3877.71 | 18.7 | 97.5 | 195 | 195 | 219 | 3°W | 21W | | | | | | | | | | | | |
| 1200 | +4 | 3896.95 | 18.9 | 97.5 | 195 | 195 | 219 | 3°W | 21W | 8 | 060 | 17 | 1 | 020 | 6 | 98 | 02 | 1026 | 8.9 | 6.7 | 13.3 |
| 1259 | | | | | 195 | 195 | 219 | 3°W | | | | | | | | | | | | | |
| 1300 | | 3915.80 | 18.8 | 96.8 | 050 | 050 | 071 | 0 | 21W | | | | | | | | | | | | |
| 1400 | | 3926.20 | 11.9 | 57.3 | 050 | 050 | 071 | 0 | 21W | | | | | | | | | | | | |
| 1500 | | 3937.62 | 11.9 | 57.7 | 050 | 050 | 071 | 0 | 21W | | | | | | | | | | | | |
| 1504 | | | | | 050 | 050 | 071 | 0 | | | | | | | | | | | | | |
| 1518 | | | | | 170 | 170 | 191 | 0 | | | | | | | | | | | | | |
| 1600 | +4 | 3950.62 | 13.0 | 68.2 | 050 | 050 | 071 | 0 | 21W | 8 | 112 | 12 | 2 | 050 | 6 | 98 | 02 | 1023 | 12.8 | 12.2 | 13.3 |
| 1647 | | | | | 050 | 050 | 071 | 0 | | | | | | | | | | | | | |
| 1700 | | 3961.58 | 11.0 | 55.5 | 328 | 328 | 347 | 2°E | 21W | | | | | | | | | | | | |
| 1702 | | | | | 328 | 328 | 347 | 2°E | 21W | | | | | | | | | | | | |
| 1800 | +4 | 3973.03 | 11.4 | 54.6 | 300 | 300 | 319 | 2°E | 21W | 8 | | 1 | 1 | 030 | 6 | 98 | 02 | 1024 | 9.4 | 7.2 | 12.2 |
| 1900 | | 3985.24 | 12.2 | 58.1 | 300° | 300° | 319° | 2°E | 21W | | | | | | | | | | | | |
| 2000 | +4 | 3997.30 | 12.0 | 58.1 | 300° | 300° | 319° | 2°E | 21W | 8 | 140 | 8 | 1 | 040 | 5 | 98 | 02 | 1023 | 7.8 | 6.7 | 14.0 |
| 2100 | | 4007.92 | 11.0 | 58.0 | 300 | 300 | 319 | 2E | 21W | | | | | | | | | | | | |
| 2200 | | 4021.60 | 12.0 | 57.9 | 010 | 010 | 032 | 1W | 21W | | | | | | | | | | | | |
| 2300 | | 4033.99 | 14.0 | 59.9 | 010 | 010 | 032 | 1W | 21W | | | | | | | | | | | | |
| 2400 | +4 | 4046.83 | 13.0 | 60 | 010 | 010 | 032 | 1W | 21W | 3 | 150 | 17 | 1 | 050 | 5 | 98 | 01 | 1021 | 6.1 | 5.0 | 13.3 |

Distance run through the Water Midnight to Midnight

Leave Granted to Ship's Company

Anchor Bearings

337.2mi

1970

FROM HALIFAX

TO

OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|---|--------------------------------------|
| | 0001 LORAN FIX { 40° 43' N 59° 40' W | |
| | 0100 LORAN FIX { 40° 43' N 60° 00' W | |
| | 0200 LORAN FIX { 40° 43' N 60° 24' W | |
| | 0300 LORAN FIX { 40° 43' N 60° 48' W | <i>cm</i> |
| 0415 Sp 15 0417 9/C 260 | 0400 LORAN FIX { 40° 43' N 61° 07' W | |
| 0510 COMMENCED BLOWING SOOT 0512 9/C 260 0515 Sp 13 0517 SUNRISE L.A.L. SWITCHED OFF | 0500 LORAN FIX { 40° 41.5' N 61° 30' W | |
| 0610 completed blowing soot 0635 9/C 045 Sp 12 0720 HANDS TO RAS STATIONS 0722 SWITCH TO HAND CONTROL 0700 FIRST LINE ACROSS USS BARRY PORTSIDE | 0600 LORAN FIX { 40° 40' N 61° 44' W | |
| 0708 Engram alongside Starboard Side first line across 0759 stopped pumping USS Barry 1177 B66 0724 commenced pumping USS Barry 0731 commenced pumping USS Engram | | |
| 0812 stop pumping Engram 1009 B66 0844 BARRY ALONGSIDE 0829 LAST LINE SLIPPED INCRANNING - STOPPER PUMPING BARRY - 1177 BOLS RAO PASSED 0848 FIRST LINE TO BARRY 0830 LAST LINE SLIPPED BARRY | 0835 LORAN FIX { 40° 52' N 61° 38' W | <i>JK</i> |
| 0909 ONE MAN TRANSFERRED ONBOARD FROM BARRY 0920 SECURE RAS STATIONS 0917 LAST LINE SLIPPED BARRY A/C 195° SP 19 | 0925 LORAN FIX { 40° 55' N 61° 32' W | |
| | 1030 LORAN FIX { 40° 34' N 61° 41' W | |
| 1125 JPS READY USE TANK RECIRCULATED | 1130 LORAN FIX { 40° 20' N 61° 45' W | <i>JK</i> |
| 1255 Sp 12 1259 9/C 050 (T) | 1230 LORAN FIX { 40° 00' N 61° 50' W | |
| 1339 USCG CALLATIN ALONGSIDE 1345 FIRST LINE PASSED 1400 COMMENCED PUMPING | 1330 LORAN FIX { 39° 04' N 60° 44' W | |
| 1443 COMPLETED PUMPING 1000 BOLS JPS 1456 LAST LINE SLIPPED | 1430 LORAN FIX { 40° 04' N 61° 33' W | |
| 1504 9/C 170 - - - 1547 FIRST LINE PASSED 1518 9/C 050 1545 USS ROAN ALONGSIDE | 1535 LORAN FIX { 40° 04' N 61° 26' W | <i>JK</i> |
| 1602 COMMENCED PUMPING RAL 1634 COMPLETED PUMPING 1136 BOLS PASSED 1645 SLIPPED USS ROAN 1647 9/C 32 R | 1650 LORAN FIX { 40° 10' N 61° 08' W | <i>JK</i> |
| 1702 9/C 300 (T) 311 M 1735 Sp 12 | 1750 LORAN FIX { 40° 18' N 61° 21' W | |
| 1853 SUNSET NAV LTS SW ON | 1830 LORAN FIX { 40° 23' N 61° 33.5' W | |
| | 1945 LORAN FIX { 40° 29' N 61° 44' W | <i>JK</i> |
| | 2030 LORAN FIX { 40° 34' N 61° 55' W | |
| 2100 9/C 010° SP 11 | 2130 LORAN FIX { 40° 44' N 62° 02' W | |
| | 2230 LORAN FIX { 40° 58' N 62° 00' W | |
| | 2330 LORAN FIX { 41° 11' N 61° 57' W | <i>JK</i> |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 40° 47' N | 61° 44' W | LORAN | | | | |
| 1200 | 40° 09' N | 61° 45' W | LORAN | | | | |
| 2000 | 40° 39' N | 61° 47' W | LORAN | | | | |

HMCS PROTECTEUR

SATUR DAY

25th OF April

| 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 | | 4057.95 | 10.5 | 54.9 | 010° | 010° | 030° | 2°E | 22W | | | | | | | | | | | | |
| 0200 | | 4067.82 | 10.5 | 46.3 | 010° | 010° | 030° | 2°E | 22W | | | | | | | | | | | | |
| 0300 | | 4077.07 | 10.5 | 43.2 | 010° | 010° | 030° | 2°E | 22W | | | | | | | | | | | | |
| 0400 | +4 | 4085.81 | 9.5 | 39 | 010° | 010° | 030° | 2°E | 22W | 8 | 130 | 22 | 1 | 030 | 3 | 98 | 02 | 1016 | 6.1 | 5.6 | 6.7 |
| 0458 | | | | | 170° | 170° | 195° | 2°E | | | | | | | | | | | | | |
| 0500 | | 4091.62 | 5.8 | 31.8 | 170° | 170° | 195° | 2°E | 22W | | | | | | | | | | | | |
| 0600 | | 4101.08 | 9.4 | 50 | VAR | VAR | VAR | VAR | 22W | | | | | | | | | | | | |
| 0700 | | 4107.36 | 6.2 | 38 | VAR | VAR | VAR | VAR | 22W | | | | | | | | | | | | |
| 0705 | | | | | 170° | 170° | 195° | | | | | | | | | | | | | | |
| 0800 | +4 | 4116.02 | 8.7 | 47.6 | 170° | 170° | 195° | 2°E | 22W | 8 | 152 | 28 | 3 | 150 | 8 | 97 | 02 | 1011.5 | 8.8 | 8.3 | 8.9 |
| 0900 | | 4130.35 | 13.9 | 69.7 | 330 | 330 | 351 | 1E | 22W | | | | | | | | | | | | |
| 1000 | | 4145.62 | 13.9 | 69.1 | 330 | 330 | 351 | 1E | 22W | | | | | | | | | | | | |
| 1032 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | 4157.15 | 12.2 | 59.1 | 180 | 180 | 201 | 1E | 22W | | | | | | | | | | | | |
| 1115 | | | | | 180 | 180 | 201 | 1E | | | | | | | | | | | | | |
| 1200 | +4 | 4169.58 | 13.0 | 64.4 | 270 | 270 | 291 | 1E | 22W | 8 | 155 | 32 | 3 | 150 | 8 | 96 | 45 | 1004 | 8.9 | 8.3 | 5.0 |
| 1300 | | 4183.45 | 12.0 | 67.1 | 270 | 270 | 291 | 1E | 22W | | | | | | | | | | | | |
| 1400 | | 4197.49 | 14.0 | 72.0 | 270 | 270 | 291 | 1E | 22W | | | | | | | | | | | | |
| 1500 | | 4211.24 | 13.0 | 71.4 | 270 | 270 | 290 | 1E | 21W | | | | | | | | | | | | |
| 1505 | | | | | 270 | 270 | 290 | 1°E | | | | | | | | | | | | | |
| 1600 | f4 | 4216.53 | 7.0 | 29.4 | 300 | 300 | 321 | 0 | 22W | 6 | 260 | 20 | 4 | 160 | 8 | 98 | 02 | 1004 | 5.6 | 5.0 | 4.4 |
| 1601 | | | | | 270 | 270 | 290 | 1°E | | | | | | | | | | | | | |
| 1647 | | | | | 300 | 300 | 320 | 1°E | 21W | | | | | | | | | | | | |
| 1700 | | 4222.38 | 5.8 | 35.4 | 300 | 300 | 320 | 1°E | 21W | | | | | | | | | | | | |
| 1727 | | | | | 157 | 157 | 180 | 2°W | | | | | | | | | | | | | |
| 1757 | | | | | 030 | 030 | 050 | 1°E | | | | | | | | | | | | | |
| 1800 | +4 | 4230.27 | 7.9 | 43.1 | 030 | 030 | 050 | 1°E | 21W | 7 | 305 | 18 | 3 | 150 | 6 | 98 | 02 | 1004 | 5.5 | 5.0 | 4.4 |
| 1900 | | 4237.21 | 7.0 | 38.7 | 035 | 035 | 056 | 0 | 21W | | | | | | | | | | | | |
| 2000 | +4 | 4245.46 | 8.2 | 38.6 | 035 | 035 | 056 | 0 | 21W | 0 | 290 | 27 | 2 | 150 | 6 | 98 | 05 | 1006.6 | 4.9 | 3.9 | 4.4 |
| 2100 | | 4252.82 | 7.4 | 38.8 | 035 | 035 | 056 | 0 | 21W | | | | | | | | | | | | |
| 2200 | | 4261.11 | 8.3 | 38.6 | 035 | 035 | 056 | 0 | 21W | | | | | | | | | | | | |
| 2300 | | 4270.81 | 9.7 | 36.9 | 035 | 035 | 056 | 0 | 21W | | | | | | | | | | | | |
| 2330 | +4 | 4272.93 | 2.1 | 36.8 | 035 | 035 | 056 | 0 | 21W | 1 | 280 | 24 | 2 | 270 | 4 | 98 | 02 | 1008 | | | |
| 2400 | | | | | | | | | | | | | | | | | | | | | |

Distance run through the Water Midnight to Midnight

226.5mi

Leave Granted to Ship's Company

Anchor Bearings

1970

FROM HALIFAX

TO

, OR AT SEA

REMARKS

Initials of the Officer of the Watch

| | | | |
|---|--|---|-----|
| 0016 COMMENCED PUMPING 014983 0040 SP 10 | | 0030 LORAN FIX { 41° 21' N 61° 53' W | |
| | | 0130 LORAN FIX { 41° 31' N 61° 49' W | |
| 0230 SP 9 0235 FINISHED PUMPING 014983 | | 0230 LORAN FIX { 41° 41' N 61° 46' W | |
| 0330 SP 6 0400 SWITCH TO HAND CONTROL | | 0330 LORAN FIX { 41° 51' N 61° 45' W | AK |
| 0445 HANDS TO FLYING STATIONS ASSUME CONDITION "Y" 0455 A/C 170 SP 10 0503 SHOPLIFTER 24 (HELLO) ON DECK 0512 A/C 090 0504 HELLO DISENGAGED SUNRISE NAV LGTS SW OFF 0540 SP 15 0506 HELLO SHUT DOWN 0515 SECURE FLYING STATIONS 0550 SP 8 A/C 270 0620 A/C 300 SP 8 0555 A/C 280 SP 6 | | 0410 { 41° 56' N FIX { 61° 34' W LORAN { 41° 54' N FIX { 61° 39' W LORAN { 42° 02' N FIX { 61° 38' W LORAN { 42° 03' N FIX { 61° 41' W | |
| 0625 CARRYING OUT BROAD WEAVE ON 270° 0705 A/C 170 0730 HANDS TO RAS STATIONS 0755 HELLO NONCHALANT 20 ON DECK 0713 HELLO-NONCHALANT 20 ON DECK 0742 HELLO-NONCHALANT 20 ON DECK 0758 HELLO-NONCHALANT 20 OFF DECK 0718 HELLO-NONCHALANT 20 OFF DECK 0745 HELLO-NONCHALANT 20 OFF DECK 0759 SECURE FLYING STATIONS | 0814 ANNAPOLIS ALONGSIDE STN 2 0815 FIRST LINE ACROSS 0822 NIPIGON ALONGSIDE STN 1 0828 FIRST LINE ACROSS | 0832 START PUMPING TO ANNAPOLIS 0846 LINES RETURNED FROM NIPIGON 0849 STOP PUMPING ANNAPOLIS 1000 BBL DISTILLATE 0856 LAST LINE SLIPPED | |
| 0800 A/C 330° SP 15 0804 SP 14 | 0814 ANNAPOLIS ALONGSIDE STN 2 0815 FIRST LINE ACROSS 0822 NIPIGON ALONGSIDE STN 1 0828 FIRST LINE ACROSS | 0832 START PUMPING TO ANNAPOLIS 0846 LINES RETURNED FROM NIPIGON 0849 STOP PUMPING ANNAPOLIS 1000 BBL DISTILLATE 0856 LAST LINE SLIPPED | |
| 0904 FIRST LINE TO NIPIGON 0914 START PUMPING 0939 STOP PUMPING 1200 BBL DISTILLATE 0944 LAST LINE SLIPPED | 0955 HANDS TO FLYING STNS | 0915 { 41° 21' N LORAN { 65° 44' W FIX | |
| 1019 SECURE RAS STNS 1032 A/C 180° SP 10 1037 SHOPLIFTER 24 ENGAGED 1045 HELLO TOOK OFF | | 1015 { 42° 24' N LORAN { 61° 57' W FIX | AK |
| 1101 SHOPLIFTER 24 ON DECK 1115 A/C 270° 1102 HELLO DISENGAGED 1104 HELLO SHUT DOWN SECURE FLYING STNS | | 1115 { 42° 21' N LORAN { 61° 58' W FIX | NER |
| 1225 COMMENCED SOUNDING NO. 4 SIGNALS | | 1230 { 42° 22' N LORAN { 62° 20' W FIX | |
| 1320 CEASED SOUNDING NO. 4 SIGNALS | | 1330 { 42° 21' N LORAN { 62° 36' W FIX | |
| 1500 SP 8 1503 SP 6 1505 A/C 300 | | 1430 { 42° 22' N LORAN { 62° 55' W FIX | |
| 1501 A/C 270 1635 HANDS TO FLYING STATIONS 1655 HELLO (SHOPLIFTER 24) STARTED 1647 A/C 300 SP 10 1658 HELLO ENGAGED | | 1530 { 42° 23.5' N LORAN { 63° 08' W FIX | |
| 1703 HELLO BIRBORNA 1757 A/C 030 1727 SECURE FLYING STATIONS A/C 157 SP 8 1800 A/C 035 | | 1600 { 42° 24' N LORAN { 63° 11' W FIX | |
| 1859 SUNSET NAV LGTS SWITCHED ON | | 1730 { 42° 25' N FIX { 63° 22' W LORAN | AK |
| 1930 A/C 270 | | 1830 { 42° 25' N LORAN { 63° 23' W FIX | |
| 2000 REVERT TO NAO Z-NAV | | 1930 { 42° 30' N LORAN { 63° 26' W FIX | AK |
| | | 2030 { 42° 35' N LORAN { 63° 15' W FIX | |
| | | 2130 { 42° 41' N LORAN { 63° 09' W FIX | |
| | | 2230 { 42° 46' N LORAN { 63° 06' W FIX | AK |
| 2330 CONVERTED TO DAYLIGHT SAVING TIME | | | |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 42° 03' N | 61° 41' W | LORAN | | | | |
| 1200 | 42° 23' N | 62° 08' W | LORAN | | | | |
| 2000 | 42° 38' N | 63° 05' W | LORAN | | | | |

HMCS PROTECTEUR

SUNDAY

26TH OF APRIL

| 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 | | 4276.02 | 3.1 | 36.9 | 035 | 035 | 056 | 0 | 21W | | | | | | | | | | | | | |
| 0145 | | | | | 115 | 115 | 135 | 2°E | | | | | | | | | | | | | | |
| 0200 | | 4283.85 | 7.8 | 38.6 | 180 | 180 | 203 | 1°W | 22W | | | | | | | | | | | | | |
| 0215 | | | | | 342 | 342 | 004 | | | | | | | | | | | | | | | |
| 0300 | | 4296.00 | 12.2 | 66.8 | 342 | 342 | 004 | 0 | 22W | | | | | | | | | | | | | |
| 0400 | +3 | 4312.11 | 16.1 | 77 | 342 | 342 | 004 | 0 | 22W | 8 | 273 | 29 | 3 | 270 | 6 | 98 | 02 | 1007 | 4.5 | 2.6 | 3.9 | |
| 0500 | | 4327.50 | 15.4 | 77.1 | 342 | 342 | 004 | 0 | 22W | | | | | | | | | | | | | |
| 0600 | | 4343.43 | 16.0 | 77.9 | 342 | 342 | 004 | 0 | 22W | | | | | | | | | | | | | |
| 0700 | | 4358.95 | 15.5 | 78.6 | 342 | 342 | 004 | 0 | 22W | | | | | | | | | | | | | |
| 0754 | | | | | 335 | 335 | 357 | 0 | 22 | | | | | | | | | | | | | |
| 0800 | +3 | 4374.96 | 16.0 | 79.4 | 335 | 335 | 357 | 0 | 22 | 0 | 258 | 23 | 2 | 270 | 5 | 98 | 02 | 1009 | 4.4 | 3.9 | | |
| 0900 | | 4391.90 | 17.0 | 82.6 | 335 | 335 | 357 | 1E | 23W | | | | | | | | | | | | | |
| 1000 | | 4399.15 | 7.2 | 32.8 | VAR | VAR | VAR | VAR | 23W | | | | | | | | | | | | | |
| 1100 | | 4413.03 | 3.9 | 70.1 | VAR | VAR | VAR | VAR | 23W | | | | | | | | | | | | | |
| 1200 | +3 | 4420.37 | 7.3 | 60.1 | VAR | VAR | VAR | VAR | 23W | 0 | 265 | 22 | 2 | 200 | 2 | 98 | 05 | 1010 | 4.4 | 2.8 | 3.6 | |
| 1207 | | | | | 180 | 180 | 204 | 1°W | | | | | | | | | | | | | | |
| 1220 | | | | | 240 | 240 | 263 | 0 | | | | | | | | | | | | | | |
| 1300 | | 4433.09 | 12.7 | 63.9 | 180 | 180 | 204 | 1°W | 23W | | | | | | | | | | | | | |
| 1312 | | | | | 180 | 180 | 204 | 1°W | | | | | | | | | | | | | | |
| 1400 | | 4445.92 | 12.8 | 63.6 | 210 | 210 | 230 | 2°E | 23W | | | | | | | | | | | | | |
| 1500 | | 4458.66 | 12.7 | 63.4 | 210 | 210 | 231 | 2°E | 23W | | | | | | | | | | | | | |
| 1600 | +3 | 4471.49 | 12.8 | 63.5 | 210 | 210 | 231 | 2°E | 23W | 0 | 283 | 21 | 1 | 220 | 4 | 98 | 02 | 1010 | 6.5 | 3.5 | 2.2 | |
| 1700 | | 4484.31 | 12.9 | 63.4 | 210° | 210° | 231° | 2°E | 23W | | | | | | | | | | | | | |
| 1800 | +3 | 4497.26 | 13.4 | 63.3 | 210° | 210° | 231° | 2°E | 23W | 1 | 278 | 25 | 1 | 240 | 5 | 98 | 02 | 1007 | 6.7 | 6.1 | | |
| 1900 | | 4509.88 | 12.8 | 63.3 | 210° | 210 | 231 | 2E | 23W | | | | | | | | | | | | | |
| 2000 | +3 | 4522.68 | 12.8 | 63.3 | 210 | 210 | 231 | 2E | 23W | 0 | 285 | 24 | 1 | 250 | 4 | 98 | 05 | 1015 | 4.4 | 3.8 | 2.8 | |
| 2100 | | 4534.49 | 11.9 | 56.2 | 210 | 210 | 230 | 1E | 21W | | | | | | | | | | | | | |
| 2200 | | 4545.80 | 12.0 | 57.3 | 210 | 210 | 230 | 1E | 21W | | | | | | | | | | | | | |
| 2300 | | 4557.43 | 11.9 | 54.3 | 210 | 210 | 230 | 1E | 21W | | | | | | | | | | | | | |
| 2400 | +3 | 4568.55 | 11.1 | 54.2 | 210 | 210 | 230 | 1E | 21W | 0 | 280 | 17 | 1 | 220 | 4 | 98 | 02 | 1017 | 4.4 | 3.9 | | |

Distance run through the Water Midnight to Midnight

287.3mi

Leave Granted to Ship's Company

Anchor Bearings

19 70 FROM — TO — , OR AT SEA.

| REMARKS | | Initials of the Officer of the Watch |
|---|--|--|
| | 0030 LORAN FIX { 42°52'N 63°00'W | |
| 0145 A/C 115° | 0130 LORAN FIX { 42°59'N 62°54'W | |
| 0200 A/C 180 0215 A/C 342 SP 16 | 0230 LORAN FIX { 43°00'N 62°50'W | |
| | 0330 LORAN FIX { 43°16'N 62°56'W | JAN |
| | 0430 LORAN FIX { 43°31'N 63°02'W | |
| | 0545 DECCA FIX { 43°48'N 63°05'W | |
| 0611 - SUNRISE NAV LIGHTS SWITCHED OFF | 0630 DECCA FIX { 43°58.1'N 63°12.2'W | |
| 0733-SP-17 0754-A/C 335 SPAIB | 0700 DECCA FIX { 44°04.8'N 63°15.3'W | JAN |
| 0830 SSD CLOSE UP NACD COND "YANKEE" 0900 A/C 355° | 0810 RA FIX { SAMBRO IS 8.0 DEVIL IS 13.4 CHEBUCTO HD 9.0 | |
| 0917 SP 4 0925 A/C 015° 0928 STOP MK SP 0 Co + Sp VARIABLE TO DROP OFF PERSONNEL | 0945 HANDS TO FLYING STNS 0955 Co 162 Sp 12 0956 SP 15 | |
| 0922 VIS FIX { GEORGES IS LT 321 FLAME TOWER 036 1/2 WATER TOWER 000 | | |
| 1006 A/C 175° 1012 A/C 158 Sp 19 1015 SECURE SSD 1039 SP 8 | 1033 Co + Sp VARIABLE TO RECOVER HELO 1034 CLOVER TOP 29 ON DECK Co 158 Sp 8 1037 HELO DISENGAGED 1045 HELO SHUT DOWN | 1022 VIS FIX { MAUGHERR'S BEACH 340 DEVIL'S IS 010 SAMBRO IS 229 |
| 1114 A/C 140° 1115 HANDS TO FLYING STNS 1129 A/C 295° 1134 CLOVERTOP 14 ON DECK | 1136 HELO OFF 1146 START CLOVERTOP 16 1154 ENGAGE HELO 1158 HELO OFF | 1130 RA FIX { SAMBRO IS 7.5 KETCH HD 8.4 DEVIL IS 12.7 |
| 1207 A/C 240 1220 A/C 180 | | 1230 DECCA FIX { 44°18'N 63°34'W |
| 1312 A/C 210 | | 1330 DECCA FIX { 44°05'N 63°37.1'W |
| | | 1430 DECCA FIX { 43°54'N 63°47.5'W |
| | | 1530 DECCA FIX { 43°44.2'N 63°56.1'W |
| | | 1630 DECCA FIX { 43°31.2'N 64°04.4'W |
| | | 1730 DECCA FIX { 43°19.5' 64°13.5' |
| | | 1830 DECCA FIX { 43°09.5'N 64°21.6'W |
| | | 1930 DECCA FIX { 42°58.0'N 64°30.5'W |
| 2013 SUNSET DARKEN SHIP NAV LIGHTS SWITCHED ON | | 2030 LORAN FIX { 42°47'N 64°40'W |
| | | 2100 LORAN FIX { 42°42.5'N 64°43'W |
| | | 2200 LORAN FIX { 42°33'N 64°51'W |
| | | 2300 LORAN FIX { 42°24'N 64°59'W |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 44° 18.8' N | 63° 22.5' W | DECCA | | | | |
| 1200 | 44° 22.4' N | 63° 29.0' W | Ra + Vis | | | | |
| 2000 | 42° 52.2' | 64° 35.2' | DECCA | | | | |

HMCS PROTECTEUR

MONDAY

27th OF APRIL

| 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 | | 4579.04 | 10.4 | 49.2 | 210° | 210° | 230° | 0 | 20°W | | | | | | | | | | | | |
| 0200 | | 4589.11 | 10.1 | 47.5 | 210° | 210° | 230° | 0 | 20°W | | | | | | | | | | | | |
| 0300 | | 4598.81 | 9.7 | 47.4 | 210° | 210° | 230° | 0 | 20°W | | | | | | | | | | | | |
| 0400 | +3 | 4609.04 | 10.2 | 47.4 | 210° | 210° | 230° | 0 | 20°W | 1 | 255 | 14 | 0 | 185 | 2 | 98 | 02 | 1017 | 5.0 | 4.4 | |
| 0500 | | 4618.70 | 9.7 | 47.3 | 210 | 210 | 228 | 2E | 20W | | | | | | | | | | | | |
| 0545 | | | | | 210 | 210 | 228 | 2E | | | | | | | | | | | | | |
| 0600 | | 4627.30 | 9.4 | 46.6 | 180 | 180 | 198 | 2E | 20W | | | | | | | | | | | | |
| 0610 | | | | | 180 | 180 | 198 | | | | | | | | | | | | | | |
| 0700 | | 4636.54 | 9.2 | 46.6 | 050 | 050 | 068 | 8W | 20W | | | | | | | | | | | | |
| 0800 | (+3) | 4649.29 | 12.7 | 59.0 | 050 | 050 | 068 | 8W | 20W | 0 | 220 | 16 | 1 | 230 | 2 | 98 | 05 | 1017.5 | 7.8 | 6.7 | 6.1 |
| 0801 | | | | | 103 | 103 | 126 | | | | | | | | | | | | | | |
| 0804 | | | | | 120 | 120 | 143 | | | | | | | | | | | | | | |
| 0806 | | 4667.73 | 18.5 | 89.3 | 100 | 100 | 123 | 3W | 20W | | | | | | | | | | | | |
| 1000 | | 4685.33 | 18.0 | 89.7 | VAR | VAR | VAR | VAR | 20W | | | | | | | | | | | | |
| 1021 | | | | | 113 | 113 | 126 | 3W | | | | | | | | | | | | | |
| 1100 | | 4700.20 | 14.7 | 70.7 | 045 | 045 | 065 | 0 | 20W | | | | | | | | | | | | |
| 1200 | (+3) | 4713.12 | 12.9 | 59.3 | 045 | 045 | 065 | 0 | 20W | 0 | 230 | 16 | 1 | 225 | 2 | 98 | 02 | 1018 | 8.3 | 7.8 | |
| 1300 | | 4725.87 | 12.7 | 59.3 | 045° | 045 | 065 | 1°E | 21°W | | | | | | | | | | | | |
| 1335 | | | | | 069° | 069° | 091° | | | | | | | | | | | | | | |
| 1400 | | 4740.41 | 14.6 | 72.0 | 069° | 069 | 091 | 1°W | 21°W | | | | | | | | | | | | |
| 1444 | | | | | 250° | 250° | 271° | 0 | 2 | | | | | | | | | | | | |
| 1450 | | | | | 069° | 069° | 091° | | | | | | | | | | | | | | |
| 1500 | | 4760.90 | 20.5 | 87.6 | 069° | 069° | 091° | 1°W | 21°W | | | | | | | | | | | | |
| 1553 | | | | | 255° | 255° | 276° | | | | | | | | | | | | | | |
| 1600 | (+3) | 4776.09 | 15.1 | 87.2 | 255° | 255° | 276° | 0 | 21°W | 0 | 200 | 20 | 2 | 240 | 2 | 98 | 02 | 1016 | 7.8 | 6.7 | |
| 1620 | | | | | 255 | 255 | 276° | 0 | | | | | | | | | | | | | |
| 1700 | | 4790.30 | 14.3 | 73 | 069 | 069 | 091 | 1W | 21W | | | | | | | | | | | | |
| 1705 | | | | | 069 | 069 | 091 | 1W | | | | | | | | | | | | | |
| 1800 | +3 | 4804.08 | 13.7 | 61.7 | 060 | 060 | 082 | 1W | 21W | 0 | 200 | 20 | 2 | 240 | 5 | 98 | 05 | 1016 | 7.8 | 6.7 | 8.3 |
| 1805 | | | | | 060 | 060 | 082 | 1W | 21W | | | | | | | | | | | | |
| 1900 | | 4815.50 | 10.7 | 52.6 | 340 | 340 | 001 | 1°E | 22°W | | | | | | | | | | | | |
| 2000 | -3 | 4827.50 | 11.9 | 57.1 | 345 | 345 | 006 | 1°E | 22°W | 0 | 248 | 21 | 2 | 260 | 5 | 98 | 02 | 1015 | 6.1 | 5.6 | 5.0 |
| 2100 | | 4839.40 | 11.8 | 57.2 | 345° | 345° | 006° | 1°E | 22°W | | | | | | | | | | | | |
| 2200 | | 4850.42 | 10.0 | 50.2 | 345° | 345° | 006° | 1°E | 22°W | | | | | | | | | | | | |
| 2300 | | 4860.50 | 10.1 | 47.8 | 345° | 345° | 006° | 1°E | 22°W | | | | | | | | | | | | |
| 2400 | +3 | 4870.68 | 10.2 | 47.6 | 345° | 345° | 006° | 1°E | 22°W | 2 | 250 | 27 | 3 | 270 | 5 | 97 | 02 | 1013 | 6.1 | 5.6 | 4.4 |

Distance run through the Water Midnight to Midnight

Leave Granted to Ship's Company

Anchor Bearings

301.1 mi

19 70

FROM _____

TO _____

; OR AT SEA.

| REMARKS | | Initials of the Officer of the Watch |
|--|---|--------------------------------------|
| 0015 SP 10 | 0001 FIX LORAN { 42° 14' N 65° 08' W | |
| | 0101 FIX LORAN { 42° 05' N 65° 16' W | |
| | 0201 FIX LORAN { 41° 56' N 65° 22' W | |
| | 0310 FIX LORAN { 41° 46' N 65° 30' W | SK |
| | 0400 LORAN FIX { 41° 38' N 65° 36' W | |
| 0535 Sp 6 0545 a/c 100° | 0515 LORAN FIX { 41° 28' N 65° 43' W | |
| 0600 HANDS TO RAS STNS 0610 a/c OSO (T) 0628 SUNRISE NAV SIGHTS 0629 SP 12 SWITCHED OFF | 0648 USS INGRAHAM ALONGSIDE 0650 FIRST LINE ACROSS | |
| | 0630 LORAN FIX { 41° 22' N 65° 45' W | |
| 0705 START PUMPING 0742 STOP PUMPING 1317 BBLs PFO 0758 LAST LINE SLIPPED 0759 SECURE RAS STATIONS 0801 a/c 103 SP 18 | 0800 LORAN FIX { 41 34.5 N 65 27.5 W | SK |
| 0830 HANDS TO EMERGENCY STATIONS FIRE IN STBD T.A. NDCD COND 2 0837 SECURE EMERGENCY STATIONS REVERT TO MCBLOY | 0844 a/c 120 0846 a/c 100 | |
| 0900 EMERG CLASS VESSEL 41 32N 6510W 0900 a/c 040 0916 a/c 100 0907 a/c 050 0920 a/c 113 0911 a/c 105 0913 a/c 080 | 0900 LORAN FIX { 41 32 N 65 10 W | |
| 1020 HANDS TO RAS STATIONS 1100 COMMENCED PUMPING 1021 a/c 045 SP 12 1025 RAS SSR CLOSED 1045 USS ROAN ALONGSIDE FIRST LINE ACROSS | 1000 LORAN FIX { 41 30 N 64 49 W | TRR |
| 1130 STOPPED PUMPING 1354 BBLs 1142 USS ROAN SLIPPED 1150 USS BARRY ALONGSIDE 1153 FIRST LINE ACROSS 1207 COMMENCED PUMPING | 1200 LORAN FIX { 41 40 N 64 21 W | SK |
| 1319 STOP PUMPING (1913 BBLs) 1335 a/c 069 1333 LAST LINE SLIPPED SP 18 1334 SECURE RAS STATIONS | 1300 LORAN FIX { 41 40 N 64 10.5 W | |
| 1428 HANDS TO FLYING STATIONS 1445 HELD SHOPLIFTER 24 ON DECK 1444 a/c 250 SP 13 1450 a/c 069 - SP 18 - HELD SHUT DOWN - SECURE FLYING STATIONS. | 1335 LORAN FIX { 41° 54' N 64° 02' W | |
| 1545 HANDS TO FLYING STATIONS 1555 SP 9 1550 START SHOPLIFTER 24 1553 a/c 255 | 1400 LORAN FIX { 41 57 N 63 52 W | |
| 1602 HELD ENGAGED 1615 HELD OFF 1607 HELD OFF 1620 SECURE FLYING STNS 1608 NONCHALANT 20 MAKING FINAL APPROACH a/c 069 SP 18 1610 HELD ON DECK | 1500 LORAN FIX { 42° 02.5' N 63° 34.5' W | JAW |
| 1700 HANDS TO RAS STNS 1721 ANNAPOLIS ALONGSIDE (PORT) 1705 a/c 060 1723 FIRST LINE ACROSS 1754 ANNAPOLIS SLIPPED 1718 SKENA ALONGSIDE (STBD) 1731 START PUMPING TO BOTH 1759 STOP PUMPING TO SKENA 1719 FIRST LINE ACROSS 1748 STOP PUMPING TO ANNAPOLIS, 646 BBLs PASSED (DUTILLATE) 1197 BBLs PASSED (DUTILLATE) | 1630 LORAN FIX { 42° 07' N 63° 17' W | |
| 1804 SKENA SLIPPED 1805 SECURE RAS STATIONS a/c 260 1808 a/c 8 1819 a/c 12 1400 a/c 365 | 1700 LORAN FIX { 42° 10' N 63° 04' W | SK |
| 2005 SUNSET NAV LITS. SAW ON. GYRO CORRECT BY REG. AMP. | 1800 LORAN FIX { 42 16 N 62 50 W | |
| 2115 SP 10 | 1900 LORAN FIX { 42 27 N 62 50 W | SK |
| | 2000 LORAN FIX { 42° 37' N 62° 54' W | |
| | 2105 LORAN FIX { 42° 49' N 62° 56' W | |
| | 2200 LORAN & DECCA FIX { 42° 58' N 62° 58' W | |
| | 2300 LORAN & DECCA FIX { 43° 06.5' N 63° 01.5' W | SK |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-------------|-------------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 41° 34.5' N | 65° 27.5' W | LORAN | | | | |
| 1200 | 41° 40' N | 64° 21' W | LORAN | | | | |
| 2000 | 42° 37' N | 62° 54' W | LORAN | | | | |

HMCS PROTECTEUR

TUES DAY

28th OF APRIL

| 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 | | 9881.2) | 10.5 | 49.3 | 345 | 345 | 006 | 1°E | 22°W | | | | | | | | | | | | |
| 0200 | | 9891.96 | 10.7 | 54.7 | 345 | 345 | 006 | 1°E | 22°W | | | | | | | | | | | | |
| 0300 | | 4901.88 | 10 | 46 | 345 | 345 | 006 | 1°E | 22°W | | | | | | | | | | | | |
| 0400 | +3 | 4914.32 | 12.5 | 49.9 | 345 | 345 | 006 | 1°E | 22°W | 0 | 230 | 22 | 1 | 200 | 4 | 98 | 02 | 1012.5 | 4.4 | 4.4 | |
| 0500 | | 4924.32 | 10.0 | 50.0 | 345 | 345 | 006 | 1E | 22W | | | | | | | | | | | | |
| 0600 | | 4934.71 | 10.4 | 49.9 | 345 | 345 | 006 | 1E | 22W | | | | | | | | | | | | |
| 0700 | | 4945.62 | 10.9 | 49.9 | 345 | 345 | 006 | 1E | 22W | | | | | | | | | | | | |
| 0800 | +3 | 4957.04 | 11.4 | 52.2 | VAR | VAR | VAR | VAR | 22W | 8 | 228 | 25 | | | | 96 | 44 | 1012 | 6.1 | 5.0 | 2.2 |
| 0900 | | 4963.35 | 6.3 | 25.9 | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +3 | | | | | | | | | 0 | CALM | | | | | 98 | 02 | 1017 | 20.6 | 2.0 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 7 | CALM | | | | | 98 | 03 | 1016.5 | 13.9 | 12.8 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | | | | | | | | | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | | | | | | | | | |
| 2000 | +3 | 4965.04 | 3.1 | 27.6 | VAR | VAR | VAR | VAR | 22W | 8 | CALM | - | - | - | 98 | 02 | 1017 | 13.9 | 12.8 | | |
| 2100 | | | | | | | | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | 8 | CALM | | | | | 98 | 03 | 1018 | 12.2 | 10.8 | |

Distance run through the Water Midnight to Midnight
86.4mi

Leave Granted to Ship's Company
SHIP'S COMPANY NRED 2030- 0755 TUE

Anchor Bearings

1970 FROM TO , OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|---|---|---|
| 0013-SP11 | 0012 DECCA FIX { 43° 18.8' N 63° 03.5' W | |
| 0112-SP12 | 0130 DECCA FIX { 43° 28.6' N 63° 07.5' W | |
| 0207-SP10 | 0230 DECCA FIX { 43° 39.5' N 63° 11.5' W | |
| 0303-SP11 | 0300 DECCA FIX { 43° 43.9' N 63° 13.1' W | <i>[Signature]</i> |
| | 0430 DECCA FIX { 43° 59.4' N 63° 18.0' W | |
| 0610 SUNRISE - NAV LTS SWITCHED OFF | 0638 RA FIX { Sambro Is 9.3 KETCH Hd 10.6 | |
| 0730 - Hands & stations for entering harbour. | 0730 RA FIX { Sambro Is 4.3 KETCH Hd 2.62 | |
| 0745 - S.S.D. Close up - Condition YANKER - Co. & Sp. as necessary in entering harbour. | | |
| 0826 - Port closed. | | |
| 1835 - RIVERTON and full of fuel required for port quarter. | 0900 - S.S.D. - RIVERTON full of fuel for port quarter. | |
| 0900 HANDS EMPLOYED BY DEPARTMENTS | 0900 - S.S.D. - RIVERTON full of fuel for port quarter. | <i>[Signature]</i> |
| 1115 DIVERS DOWN - PORTAL GAGUE TEST | | |
| 1145 DIVE COMPLETE | | |
| 1201 COMMENCED EMBARKING DISTILLATE | | |
| 1500 ONE MAN JOINED SHIP FROM "CFB HALIFAX" | | |
| 1530 TWO MEN JOINED SHIP FROM "CFB HALIFAX" | | |
| 1715 COMMENCED EMBARKING IPS | | |
| 1845 - S.S.D. CLOSE UP HANDS TO STATIONS FOR SHIFTING SHIP RESUME CONDITION Y | | |
| 1858 - RIVERTON PORT QUARTER | | |
| 1850 - STOPPED PUMPING FUEL | | |
| 1902 - COMMENCED USING BOW THRUSTER | 1910 - SP10 | 1908 - SPS |
| 1903 - LAST LINE LET GO | 1912 - SP9 | 1903 - STOP ENGINE |
| 1903 - COA SP VARIOUS TO SHIFT SHIP | 1916 - SP8 | 1906 - ALTERED ENGINE SP 6 |
| 1906 - AHEAD ENGINE AD | 1917 - AD 360 | 1909 - FIRST LINE AHEAD JETTY 6 |
| 2018 - SUNSET | | 1948 - SECURE S.S.D. REVERT TO CONDITION X |
| 2030 - SECURE | | 1902 - FIX - { MICROTOWER 075 ST MARY'S 196 WATER TOWER 07A |
| 2100 ROUNDS CORRECT | | <i>[Signature]</i> |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | ° ' " | ° ' " | | | | | 4 HRS |
| 1200 | ° ' " | ° ' " | | | | | |
| 2000 | ° ' " | ° ' " | | | | | |

HMCS PROTECTEUR

WEDNES DAY

29th OF APRIL

| 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 | | | | | | | | | | 0 | CALM | | | | | 98 | 01 | 1018.5 | 7.2 | 6.7 | |
| 0500 | | | | | | | | | | | | | | | | | | | | | |
| 0600 | | | | | | | | | | | | | | | | | | | | | |
| 0700 | | | | | | | | | | | | | | | | | | | | | |
| 0800 | | | | | | | | | | 2 | CALM | | | | | 98 | 03 | 1020.5 | 6.1 | 6.1 | |
| 0900 | | | | | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | | | | | | | | | | | |
| 1200 | +4 | | | | | | | | | 0 | CALM | | | | | 98 | 03 | 1022 | 16.1 | 15.6 | |
| 1300 | | | | | | | | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | | | | | | | | |
| 1500 | | | | | | | | | | | | | | | | | | | | | |
| 1600 | | | | | | | | | | 2 | 3/5 B | | | | | 98 | 02 | 1020.5 | 15.0 | 13.3 | |
| 1700 | | | | | | | | | | | | | | | | | | | | | |
| 1800 | +3 | 4986.68 | 11.1 | 53 | VAR | VAR | VAR | VAR | 23°W | 2 | 240 | 5 | - | - | - | 98 | 02 | 1020 | 13.9 | 12.8 | 4.1 |
| 1900 | | 5003.76 | 16.4 | 83.9 | 131 | 131 | 158 | 4°W | 23°W | | | | | | | | | | | | |
| 2000 | +3 | 5018.02 | 14.7 | 84.7 | 131 | 131 | 158 | 4°W | 23°W | 2 | 250 | 20 | 1 | 170 | 3 | 98 | 02 | 1018 | 5.0 | 3.3 | 0.6 |
| 2100 | | 5038.27 | 17.0 | 84.5 | 131 | 131 | 158 | 4W | 23W | | | | | | | | | | | | |
| 2134 | | | | | 131 | 131 | 158 | 4W | | | | | | | | | | | | | |
| 2200 | | 5055.26 | 17.0 | 84.5 | 165 | 165 | 189 | 1W | 23W | | | | | | | | | | | | |
| 2256 | | | | | 165 | 165 | 189 | 1W | | | | | | | | | | | | | |
| 2300 | | 5073.19 | 17.0 | 84.6 | 175 | 175 | 198 | 0 | 23W | | | | | | | | | | | | |
| 2330 | | | | | 175 | 175 | 198 | 0 | | | | | | | | | | | | | |
| 2400 | +3 | 5090.59 | 17.0 | 84.6 | 127 | 127 | 152 | 2W | 23W | 0 | 210 | 7 | 1 | 100 | 2 | 98 | 02 | 1022 | 3.3 | 2.8 | 4.4 |

Distance run through the Water Midnight to Midnight
112.2 mi

Leave Granted to Ship's Company

Anchor Bearings

1970

FROM

TO

, OR AT HALIFAX, N.S.

| REMARKS | | | | | | | Initials of the Officer of the Watch |
|---|-------------|-------------|--------------|---------|---------|-----|---|
| 0507 SUNRISE | | | | | | | |
| 0800 - COLOURS HANDS EMPLOYED AT CLEANING STATIONS | | | | | | | |
| 1630 - HANDS TO STATIONS FOR LEAVING HARBOUR. SED CLOSE UP ASSUME CONDITION Y | | | | | | | |
| 1656 - GENEVIEVE TOWLINE ASTRAZ | | | | | | | |
| 1708 - CLARENCE SHIP | | | | | | | |
| 1715 - Co 122 | | | | | | | |
| 1718 - A/C 126 | | | | | | | |
| 1724 - A/C 135 | | | | | | | |
| 1727 - A/C 185 | | | | | | | |
| 1735 - A/C 159 | | | | | | | |
| 1738 - SP 15 | | | | | | | |
| 1747 - A/C 175 | | | | | | | |
| 1753 - A/C 158 | | | | | | | |
| 1758 - SQUARE 56D | | | | | | | |
| REVERT TO CONDITION X | | | | | | | |
| 1800 - A/C 131 | | | | | | | |
| 1658 - LAST LINE NOT GO | | | | | | | |
| 1700 - CO & SP VARIOUS TO LEAVE HARBOUR COMMENCED USING BOW THRUSTER | | | | | | | PIER. |
| 1721 FIX VIS { DOT BETTY 1.6 C GEORGE 16 6.6 C IRVING BETTY 9.3 C | | | | | | | |
| 1834 DECCA FIX { 49° 26.6' N 62° 29.5' W | | | | | | | |
| 1930 DECCA FIX { 49° 15.2' N 62° 06.2' W | | | | | | | |
| 2004 LIFE BUOY ALARM TESTED | | | | | | | |
| 2012 SUNSET NAV LTS SWITCHED ON | | | | | | | 2030 DECCA FIX { 44° 04' N 62° 47' W |
| 2134 a/c 165 TO AVOID FISHING FLEET | | | | | | | 2130 DECCA FIX { 43° 52' N 62° 30' W |
| 2256 a/c 175 | | | | | | | 2230 DECCA FIX { 43° 29' N 62° 23' W |
| 2330 a/c 127 | | | | | | | 2330 LORAN FIX { 43° 21' N 62° 24' W |
| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
| 0800 | ° ' / | ° ' / | | Time | Forward | Aft | 4 HRS |
| 1200 | ° ' / | ° ' / | | | | | |
| 2000 | 44° 09.7' N | 62° 57.2' W | DECCA | | | | |

HMCS PROTECTEUR

THURSDAY

30th OF APRIL

| 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 | | 5108.07 | 17.0 | 84.6 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 0200 | | 5126.50 | 16.7 | 84.5 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 0300 | | 5142.40 | 16.7 | 84.5 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 0400 | +3 | 5160.67 | 16.7 | 84.5 | 127 | 127 | 152 | 2°W | 23°W | 1 | 250 | 10 | 1.0 | 140 | 2 | 98 | 02 | 1023 | 3.9 | 2.2 | 5.6 |
| 0500 | | 5178.09 | 17.4 | 84.5 | 127° | 126° | 152° | 2°W | 23°W | | | | | | | | | | | | |
| 0600 | | 5195.63 | 17.6 | 84.6 | 127° | 126° | 152° | 2°W | 23°W | | | | | | | | | | | | |
| 0700 | | 5213.50 | 17.9 | 84.7 | 127° | 126° | 152° | 2°W | 23°W | | | | | | | | | | | | |
| 0800 | +3 | 5230.45 | 18.0 | 84.0 | 127° | 126° | 152° | 2°W | 23°W | 1 | 340 | 17 | 1 | 340 | 4 | 98 | 02 | 1024 | 4.4 | 3.9 | 6.1 |
| 0900 | | 5246.78 | 17.6 | 77.3 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1000 | | 5263.10 | 15.8 | 77.2 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1100 | | 5279.22 | 15.5 | 76.1 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1200 | +3 | 5295.11 | 15.2 | 77 | 127 | 127 | 152 | 2°W | 23°W | 3 | 011 | 24 | 3 | 000 | 4 | 98 | 02 | 1026 | 5.6 | 6.0 | 11.1 |
| 1300 | | 5310.60 | 15.8 | 77 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1400 | | 5326.39 | 15.8 | 77 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1500 | | 5340.92 | 14.0 | 69.8 | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1600 | +3 | 5354.47 | 13.5 | 66.3 | 127 | 127 | 152 | 2°W | 23°W | 7 | 010 | 20 | 2 | 070 | 4 | 98 | 03 | 1025 | 7.2 | 5.0 | 14.4 |
| 1700 | | 5370.20 | 15.8 | 76.8 | 127 | 126 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1800 | +3 | 5386.35 | 16.1 | 77.5 | 127 | 126 | 152 | 2°W | 23°W | 7 | 015 | 20 | 2 | 020 | 5 | 98 | 02 | 1025 | 6.7 | 5.0 | 15.8 |
| 1905 | | | | | 127 | 127 | 152 | 2°W | 23°W | | | | | | | | | | | | |
| 1900 | | 5399.01 | 12.7 | 59.7 | 180 | 180 | 208 | 5°W | 23°W | | | | | | | | | | | | |
| 2000 | +3 | 5411.12 | 12.1 | 55.6 | 180 | 180 | 208 | 5°W | 23°W | 6 | 340 | 16 | 2 | 020 | 5 | 98 | 02 | 1027 | 7.8 | 6.7 | 16.7 |
| 2035 | | | | | 180 | 180 | 208 | 5°W | | | | | | | | | | | | | |
| 2100 | | 5422.96 | 12.0 | 55.9 | 010 | 010 | 031 | 2°E | 23°W | | | | | | | | | | | | |
| 2200 | | 5434.35 | 12.0 | 55.3 | 010 | 010 | 031 | 2°E | 23°W | | | | | | | | | | | | |
| 2300 | | 5445.45 | 12.0 | 55.3 | 010 | 010 | 031 | 2°E | 23°W | | | | | | | | | | | | |
| 2400 | +3 | 5457.48 | 12.0 | 55.3 | 010 | 010 | 031 | 2°E | 23°W | 6 | 060 | 10 | 2 | 010 | 3 | 98 | 02 | 1027 | 7.8 | 5.6 | 14.4 |

| | | | | |
|--|---------------------------------|--|-----------------|--|
| Distance run through the Water Midnight to Midnight | Leave Granted to Ship's Company | | Anchor Bearings | |
| | 365.9 mi | | | |

19 70

FROM HALIFAX

TO

, OR AT SEA

| REMARKS | | Initials of the Officer of the Watch |
|--|--|---|
| 0045 COMMENCED PUMPING BILGERS | 0030 LORAN FIX { 43° 12.5' N 62° 08' W | |
| | 0130 LORAN FIX { 42° 59' N 61° 49' W | |
| 0245 COMPLETED PUMPING BILGERS | 0230 LORAN FIX { 42° 53' N 61° 34' W | |
| | 0330 LORAN FIX { 42° 40' N 61° 06' W | MS |
| | 0430 LORAN FIX { 42° 32' N 60° 58' W | |
| | 0530 LORAN FIX { 42° 20' N 60° 37' W | |
| 0601 SUNRISE. NAV. LTS. SW OFF GYRO 1° 10' W BY ORG AMP. | 0630 LORAN FIX { 42° 11' N 60° 26' W | |
| 0755 SP 16 | 0730 LORAN FIX { 42° 01' N 60° 02' W | JSW |
| | 0830 LORAN FIX { 41° 51' N 69° 43' W | |
| | 0930 LORAN FIX { 41° 41' N 59° 29' W | |
| | 1030 LORAN FIX { 41° 32' N 59° 13' W | |
| | 1130 LORAN FIX { 41° 24' N 58° 58' W | NR |
| | 1230 LORAN FIX { 41° 16' N 58° 42' W | |
| | 1330 LORAN FIX { 41° 04' N 58° 21' W | MS |
| 1420 SP 14 | 1400 LORAN FIX { 40° 56' N 58° 07' W | |
| | 1500 LORAN FIX { 40° 51' N 57° 55' W | MS |
| 1610 SP 16 | 1700 LORAN FIX { 40° 37' N 57° 33' W | |
| | 1740 LORAN FIX { 40° 31' N 57° 23' W | |
| 1752 HANDS TO RDS. STM. | | |
| 1805 a/c 180° (T) SP 12 1806 ASSUME CONDITION "Y" 1807 SSD CLOSE UP 1825 USCG CALLATIN ALONGSIDE | 1830 FIRST LINE ACROSS 1854 START PUMPING 1855 USS INGRAHAM ALONGSIDE 1856 FIRST LINE ACROSS | 1805 LORAN FIX { 40° 27' N 57° 15' W |
| 1909 FIRST LOAD BY JACKSTAY TO INGRAHAM 1919 START PUMPING TO INGRAHAM 1940 SUNSET TASK AND NAVIGATION LTS SWITCHED ON 1959 STOP PUMPING TO INGRAHAM - (1150 bbls NSF0, 2000 lbs dry goods) | 2045 ROAN ALONGSIDE 2051 FIRST LINE TO ROAN 2100 SPAN WIRE TENSIONED | 1900 LORAN FIX { 40° 16' N 57° 16' W |
| 2011 INGRAHAM SLIPPED 2012 STOP PUMPING TO CALLATIN (2130 BLS JPS PASSED) 2034 CALLATIN SLIPPED 2035 a/c 010° | 2104 FIRST LINE TO BARRY 2115 START PUMPING TO ROAN 2120 SPAN WIRE TENSIONED ON BARRY 2201 START BLOW THROUGH TO BARRY 2208 STOP BLOW THROUGH 2213 SPAN WIRE DETENSIONED 2214 BARRY SLIP 2219 START PUMPING | 2100 LORAN FIX { 39° 49' N 57° 20' W |
| 2104 FIRST LINE TO BARRY 2115 START PUMPING TO ROAN 2120 SPAN WIRE TENSIONED ON BARRY 2201 START BLOW THROUGH TO BARRY 2208 STOP BLOW THROUGH 2213 SPAN WIRE DETENSIONED 2214 BARRY SLIP 2219 START PUMPING | 2129 START PUMPING ON BARRY 2145 STOP PUMPING ON ROAN 2146 START BLOW THROUGH ON BARRY 2150 STOP BLOW THROUGH 2238 BARRY ALONGSIDE 2239 FIRST LINE TO BARRY 2239 SPAN WIRE TO BARRY | 2150 STOP PUMPING TO BARRY 2155 SPAN WIRE DETENSIONED ON ROAN 2156 SPAN WIRE SLIPPED FROM ROAN 2158 ROAN SLIPPED |
| | | 2159 STOP PUMPING TO BARRY |

| Position | Latitude | Longitude | Depending on | Draught | | | Notice for Main Engines at Noon |
|----------|-----------|-----------|--------------|---------|---------|-----|---------------------------------|
| | | | | Time | Forward | Aft | |
| 0800 | 41° 55' N | 59° 52' W | LORAN | | | | |
| 1200 | 41° 19' N | 58° 50' W | LORAN | | | | |
| 2000 | 40° 11' N | 57° 19' W | LORAN | | | | |

**CAUTION - THE FOLLOWING RULES (INTERNATIONAL, ST. LAWRENCE RIVER, AND RULES OF THE ROAD FOR THE GREAT LAKES)
ARE SUBJECT TO CHANGE AND REFERENCE SHOULD BE MADE TO Q.R.C.N. AND OTHER RELEVANT PUBLICATIONS.**

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 of the compass (22½ 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, 000528 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 a 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 ri

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 bell, and properly placed bell, by striking the bell twice in

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 each other

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

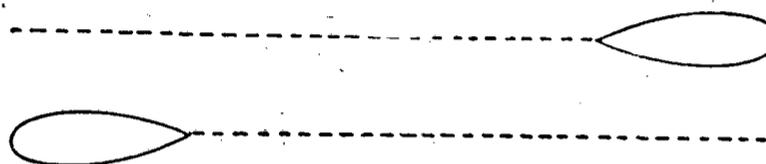
The following diagrams are intended to illustrate the steering and sailing rules:

First Situation



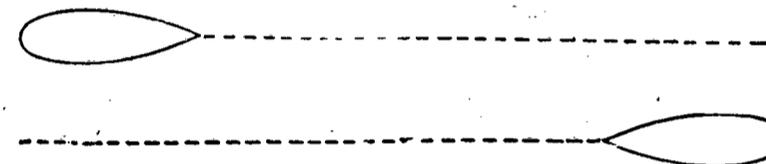
Here the two coloured lights visible to each will indicate their direct approach end on to each other. In this situation it is a standing rule that both shall direct their courses to starboard and pass on the port side of each other, each having previously given one distinct blast of the whistle.

Second Situation



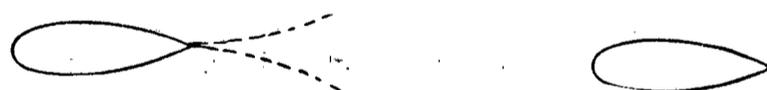
In this situation the red light only will be visible to each, the screens preventing the green lights from being seen. Both vessels are evidently passing to port of each other, which is permissible in this situation, each pilot having previously signified his intention by one distinct blast of the whistle.

Third Situation



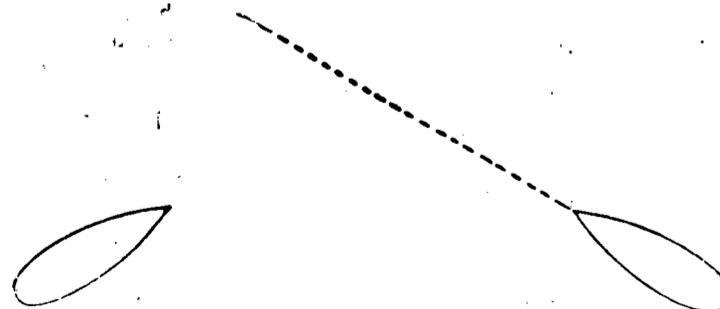
In this situation the green light only will be visible to each, the screens preventing the red light from being seen. They are therefore passing to starboard of each other, which is permissible in this situation, each pilot having previously signified his intention by two distinct blasts of the whistle.

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.

