The earliest traverse of the Northwest Passage was completed in 1853 but used sledges over the sea ice of the central part of Parry Channel. Subsequently the following 236 complete maritime transits of the Northwest Passage have been made to the end of the 2015 navigation season before winter began and the passage froze. These transits proceed to or from the Atlantic Ocean (Labrador Sea) in or out of the eastern approaches to the Canadian Arctic archipelago (Lancaster Sound or Foxe Basin) then the western approaches (McClure Strait or Amundsen Gulf), across the Beaufort Sea and Chukchi Sea of the Arctic Ocean, from or to the Pacific Ocean (Bering Sea) through the Bering Strait. The Arctic Circle is crossed near the beginning and the end of all transits unless they proceed to the west coast of Greenland. The routes and directions are indicated. Complements of a few vessels left them for winter to return in a later navigation season. Details of submarine transits are not included because only two have been reported (1960 USS Sea Dragon, Capt. George Peabody Steele, westbound on route 1 and 1962 USS Skate, Capt. Joseph Lawrence Skoog, eastbound on route 1).

Seven routes have been used for transits of the Northwest Passage with some minor variations (for example through Pond Inlet and Navy Board Inlet) and two composite courses in summers when ice was minimal (transits 154 and 171). These are shown on the attached map and proceed as follows:

1: Davis Strait, Lancaster Sound, Barrow Strait, Viscount Melville Sound, McClure Strait, Beaufort Sea, Chukchi Sea, Bering Strait. The shortest and deepest, but difficult, way owing to the severe ice of McClure Strait. The route is used by submarines because of its depth.

2: Davis Strait, Lancaster Sound, Barrow Strait, Viscount Melville Sound, Prince of Wales Strait, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait. An easier variant of route 1 which may avoid severe ice in McClure Strait. It is suitable for deep draft vessels.

3: Davis Strait, Lancaster Sound, Barrow Strait, Peel Sound, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait. The principal route; used by most vessels of draft less than 10 m.

4: Davis Strait, Lancaster Sound, Barrow Strait, Peel Sound, Rae Strait, Simpson Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait. A variant of route 3 for smaller vessels if ice from McClintock Channel has blocked Victoria Strait. Simpson Strait is only 6.4 m deep, it has shoals and complex currents.

5: Davis Strait, Lancaster Sound, Prince Regent Inlet, Bellot Strait, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait. This route is dependent on ice in Bellot Strait which has complex currents. Mainly used by eastbound vessels.

6: Davis Strait, Lancaster Sound, Prince Regent Inlet, Bellot Strait, Rae Strait, Simpson Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait. A variant of route 5 for smaller vessels if ice from McClintock Channel has blocked Victoria Strait. Simpson Strait is only 6.4 m deep, complex currents run in it and in Bellot Strait.

7: Hudson Strait, Foxe Basin, Fury and Hecla Strait, Bellot Strait, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait. A difficult route owing to severe ice usually at the west of Fury and Hecla Strait and the currents of Bellot Strait. Mainly used by eastbound vessels as an alternative is practicable.

Complete transits have been made by 176 different vessels. The Russian icebreaker Kapitan Khlebnikov has made 17 transits, the largest number of any vessel. Hanseatic has made 11, Bremen 8 (2 with the former name, Frontier Spirit), and Polar Bound 5; 3 vessels have each made 3 transits, and 19 have made 2. More than one year was taken by 26 of these vessels, mainly small craft, to complete a transit wintering at various places along the route. Return transits in one summer have been made by 5 vessels. The vessels are from 31 registries: 50 from Canada, 27 United States, 24 Bahamas and Russia, 21 Britain, 20 France, 9 Cayman Islands, 6 Australia and Sweden, 5 Netherlands, New Zealand, and Poland, 4 Germany and Marshall Islands, 3 Belgium, and 2 Austria, Antigua and Barbuda, Finland, Norway, and Switzerland, and 1 from Barbados, Croatia, Denmark, Ireland (Éire), Italy, Japan, Nouvelle Calédonie, Panama, Singapore, South Africa, and Spain. Passengers, excluding those aboard private yachts, have been carried on 50 transits but only 6 (numbers 74, 75, 122, 175, 203, and 218) were otherwise commercial voyages. Several of the vessels have travelled through the Panama Canal and circumnavigated the North America, a few have circumnavigated all America, and others have circumnavigated the Arctic Ocean by also using the Northeast Passage from or to the Pacific Ocean. Captain Viktor Vasiliev has commanded 8 transits, Heinz Aye, Pietr Golikov and David Scott Cowper 6, and Thilo Natke 5; several others have commanded more than one.

An analysis of the transit routes used through the Northwest Passage to the end of navigation in 2014 shows:

<table>
<thead>
<tr>
<th>Route</th>
<th>west</th>
<th>east</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route 1</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Route 2</td>
<td>12</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>Route 3</td>
<td>34</td>
<td>28</td>
<td>62</td>
</tr>
<tr>
<td>Route 4</td>
<td>36</td>
<td>11</td>
<td>47</td>
</tr>
<tr>
<td>Route 5</td>
<td>22</td>
<td>32</td>
<td>54</td>
</tr>
<tr>
<td>Route 6</td>
<td>19</td>
<td>30</td>
<td>49</td>
</tr>
<tr>
<td>Route 7</td>
<td>0</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

All Routes: west 127, east 109, total 236.

The list is in alphabetical order of vessel names in the years of completion of the voyages (the voyage numbers do not indicate precedence). Superscript numbers in the list are cumulative numbers of voyages, commands, flags, etc.
Sources include a compilation by Thomas Pullen and Charles Swithinbank published in *Polar Record* (1991), with advice from Lawson Brigham (USCG), Peter Capelotti (USCG), David Cowper (Fort Ross visits), David Fletcher, Chris Havern (USCG), Brian McDonald (CCG), John MacFarlane, Peter Semotiuk, Tony Soper, Patrick Toomey (CCG), and Victor Wejer, personal observations made during several transits with Quark expeditions, many publications, advice from persons directly involved and several internet sites (with various degrees of reliability). Advice of subsequent voyages, corrections and additions, or similar details is appreciated.

The seven routes which have been used for transits of the Northwest Passage are:

1. Davis Strait, Lancaster Sound, Barrow Strait, Viscount Melville Sound, McClure Strait, Beaufort Sea, Chukchi Sea, Bering Strait.
2. Davis Strait, Lancaster Sound, Barrow Strait, Viscount Melville Sound, Prince of Wales Strait, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait.
3. Davis Strait, Lancaster Sound, Barrow Strait, Peel Sound, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait.
4. Davis Strait, Lancaster Sound, Prince Regent Inlet, Beloit Strait, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait.
5. Davis Strait, Lancaster Sound, Prince Regent Inlet, Beloit Strait, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait.
6. Davis Strait, Lancaster Sound, Prince Regent Inlet, Beloit Strait, Rae Strait, Simpson Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait.
7. Hudson Strait, Fove Basin, Fury and Hecla Strait, Belot Strait, Franklin Strait, Victoria Strait, Coronation Gulf, Amundsen Gulf, Beaufort Sea, Chukchi Sea, Bering Strait.

(Continued on next page)
<table>
<thead>
<tr>
<th>Year</th>
<th>Vessel</th>
<th>Flag</th>
<th>Master</th>
<th>Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>1903-06</td>
<td>Gjøa (21 m auxiliary sloop)</td>
<td>Norway¹</td>
<td>Roald Engelbregt Gravning Amundsen</td>
<td>West 4&lt;br&gt;Wintered twice in Gjøa Haven and once off King Point</td>
</tr>
<tr>
<td>1940-42</td>
<td>St Roch¹ (29·7 m RCMP auxiliary schooner)</td>
<td>Canada¹</td>
<td>Henry Asbjørn Larsen¹</td>
<td>East 6&lt;br&gt;Wintered at Walker Bay and Pasley Bay, traversed Pond Inlet</td>
</tr>
<tr>
<td>1944</td>
<td>St Roch² (RCMP auxiliary schooner)</td>
<td>Canada²</td>
<td>Henry Asbjørn Larsen²</td>
<td>West 2&lt;br&gt;Return voyage, first transit in one season, traversed Pond Inlet</td>
</tr>
<tr>
<td>1954</td>
<td>HMCS Labrador (icebreaker)</td>
<td>Canada³</td>
<td>Owen Connor Struan Robertson</td>
<td>West 2&lt;br&gt;First continuous circumnavigation of North America</td>
</tr>
<tr>
<td>1957</td>
<td>USCGC Bramble (buoy tender)</td>
<td>United States¹</td>
<td>Henry Hart Carter</td>
<td>East 6</td>
</tr>
<tr>
<td>1967</td>
<td>USCGC Spar (buoy tender)</td>
<td>United States²</td>
<td>Charles Vinal Cowing</td>
<td>East 6</td>
</tr>
<tr>
<td>1970</td>
<td>USCGC Storis (icebreaker)</td>
<td>United States³</td>
<td>Harold Lambert Wood</td>
<td>East 6&lt;br&gt;Travelled in convoy, Storis escorted Bramble and Spar, accompanied by HMCS Labrador from Bellot Strait</td>
</tr>
<tr>
<td>1975</td>
<td>CCGS John A. McDonald (icebreaker)</td>
<td>Canada⁴</td>
<td>Paul Moise Fournier</td>
<td>West 3&lt;br&gt;Assisted USCGC Northwind beset 900 km N off Point Barrow with damaged propeller, circumnavigated North America</td>
</tr>
<tr>
<td>1979</td>
<td>CCGS Louis S. St Laurent (icebreaker)</td>
<td>Canada¹⁴</td>
<td>George Burdock</td>
<td>West 2&lt;br&gt;Circumnavigated North America</td>
</tr>
<tr>
<td>Year</td>
<td>Vessel Name</td>
<td>Type</td>
<td>Country</td>
<td>Captain</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>1980</td>
<td>CCGS J. E. Bernier</td>
<td>icebreaker</td>
<td>Canada</td>
<td>E. Chasse</td>
</tr>
<tr>
<td></td>
<td>Pandora II</td>
<td>(hydrographic survey vessel)</td>
<td>Canada</td>
<td>Robin A. Jones</td>
</tr>
<tr>
<td></td>
<td>Both vessels circumnavigated North America</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1981</td>
<td>CSS Hudson</td>
<td>(research icebreaker)</td>
<td>Canada</td>
<td>Frederick Mauger</td>
</tr>
<tr>
<td></td>
<td>Circumnavigated North America</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1979-82</td>
<td>Mermaid</td>
<td>(15 m sloop)</td>
<td>Japan</td>
<td>Kenichi Horie</td>
</tr>
<tr>
<td></td>
<td>First single-handed voyage, wintered in Resolute and Tuktoyaktuk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1983</td>
<td>Arctic Shiko</td>
<td>(tug)</td>
<td>Canada</td>
<td>S. Dool</td>
</tr>
<tr>
<td></td>
<td>Polar Circle</td>
<td>(research vessel)</td>
<td>Canada</td>
<td>J. A. Strand</td>
</tr>
<tr>
<td>1984</td>
<td>Lindblad Explorer</td>
<td>(ice strengthened ship)</td>
<td>Sweden</td>
<td>Hasse Nilsson</td>
</tr>
<tr>
<td></td>
<td>First passenger voyage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1985</td>
<td>USCGC Polar Sea</td>
<td>(icebreaker)</td>
<td>United States</td>
<td>John T. Howell</td>
</tr>
<tr>
<td></td>
<td>Accompanied by CCGS John A. McDonald for part of voyage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>World Discoverer</td>
<td>(ice strengthened ship)</td>
<td>Singapore</td>
<td>Heinz Aye</td>
</tr>
<tr>
<td>1976-88</td>
<td>Canmar Explorer II</td>
<td>(drilling ship)</td>
<td>Canada</td>
<td>Ronald Colby</td>
</tr>
<tr>
<td></td>
<td>Reached Beaufort Sea for oil drilling programme from 1976 until completed transit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1983-88</td>
<td>Belvedere</td>
<td>(18 m yacht)</td>
<td>United States</td>
<td>Sven Johansson</td>
</tr>
<tr>
<td></td>
<td>Reached Tuktoyaktuk 1983, conducted whaling research to 1987, completed transit in 1988, traversed Pond Inlet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wintered in Tuktoyaktuk and twice in Gjoa Haven (where changed masters), circumnavigated North America</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988</td>
<td>CCGS Henry A. Larsen</td>
<td>(icebreaker)</td>
<td>Canada</td>
<td>Stephen A. Gomes</td>
</tr>
<tr>
<td></td>
<td>CCGS Martha L. Black</td>
<td>(icebreaker)</td>
<td>Canada</td>
<td>Robert J. Mellis</td>
</tr>
<tr>
<td></td>
<td>Circumnavigated North America</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USCGC Polar Star</td>
<td>(icebreaker)</td>
<td>United States</td>
<td>Paul A. Taylor</td>
</tr>
<tr>
<td></td>
<td>Accompanied by CCGS Sir John Franklin to Demarcation Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Society Explorer</td>
<td>(ice strengthened ship)</td>
<td>Bahamas</td>
<td>Heinz Aye</td>
</tr>
<tr>
<td></td>
<td>Carried passengers, traversed Pond Inlet [formerly Lindblad Explorer]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1986-89</td>
<td>Mabel E. Holland</td>
<td>(12·8 m lifeboat)</td>
<td>Britain</td>
<td>David Scott Cowper</td>
</tr>
<tr>
<td></td>
<td>Single-handed voyage, vessel wintered at Fort Ross twice, and at Inuvik</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988-89</td>
<td>Northanger</td>
<td>(15 m ketch)</td>
<td>Britain</td>
<td>Richard Thomas</td>
</tr>
<tr>
<td></td>
<td>Wintered in Inuvik</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1989</td>
<td>USCGC Polar Star</td>
<td>(icebreaker)</td>
<td>United States</td>
<td>Robert Hammond</td>
</tr>
<tr>
<td></td>
<td>Accompanied by CCGS Sir John Franklin to Demarcation Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1983-90</td>
<td>Ikaluk</td>
<td>(icebreaker)</td>
<td>Canada</td>
<td>R. Cormier</td>
</tr>
<tr>
<td></td>
<td>Reached Beaufort Sea in 1983, where worked to 1990 when completed transit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1990

43 CCGC Terry Fox (icebreaker) Canada24 Peter Kimmerley East 3
44 USCGC Polar Sea (icebreaker) United States11 Joseph J. McCleland West 3

Accompanied by CCGS Pierre Radisson to Demarcation Point

1991

45 Canmar Tugger (tug) Canada25 L. Lorenegeek East 3

1992

46 Frontier Spirit (ice strengthened ship) Bahamas2 Heinz Aye3 West 3

Carried passengers4, traversed Pond Inlet

47 Ikaluk (icebreaker) Canada26 R. Cormier2 West 3

48 Kapitan Khlebnikov (icebreaker) Russia1 Piotr Golikov1 East 3

Carried passengers5

1993

49 Dagmar Aan (27 m yacht) Germany1 Arved Fuchs West 5

50 Frontier Spirit (ice strengthened ship) Bahamas3 Heinz Aye4 West 3

Carried passengers6

51 Kapitan Khlebnikov (icebreaker) Russia2 Piotr Golikov2 East 3

Carried passengers7

1994

52 Hanseatic (ice strengthened ship) Bahamas5 Hartwig van Harling1 West 3

Carried passengers8

53 Itasca (converted tug) Britain3 Allan Jouning East 4

54 Kapitan Khlebnikov (icebreaker) Russia3 Piotr Golikov3 East 3

55 Kapitan Khlebnikov (icebreaker) Russia4 Piotr Golikov4 West 2

Return voyage in one season9, carried passengers9 & 10

1995

56 CCGS Arctic Ivik (icebreaker) Canada27 Norman Thomas2 East 5

57 CCGS Arctic Ivik (icebreaker) Canada28 Robert J. Mellis2 West 5

Return voyage in one season11, to and from Kap York

58 Canmar Ikaluk (icebreaker) Canada29 D. Connolly East 3

[formerly Ikaluk]

59 Canmar Miscaroo (icebreaker) Canada30 D. W. Harris East 3

60 Dove III (8-5 m yacht) Canada31 Winston Bushnell East 3

61 Hrvatska Cigra (19-8 m yacht) Croatia Mladan Sutej West 5

62 Kapitan Khlebnikov (icebreaker) Russia3 Viktor Vasiliev1 East 5

Carried passengers11

1996

63 Arctic Circle (tug) Canada32 Jack McCormack East 3

64 Canmar Supplier II (cargo vessel) Canada33 P. Dunderdale East 3

65 Hanseatic (ice strengthened ship) Bahamas5 Hartwig van Harling2 East 3

Carried passengers12, grounded in Simpson Strait, escorted by CCGS Henry A. Larsen to Victoria Strait, traversed Pond Inlet

66 Kapitan Dranitsyn (icebreaker) Russia6 Oleg Agafonov East 5

Carried passengers13

67 CCGS Sir Wilfrid Laurier (icebreaker) Canada34 Norman Thomas3 East 5

Escorted by CCGS Louis S. St Laurent for part of voyage, traversed Pond Inlet

1997

68 Alex Gordon (tug) Canada35 Paul Misata East 5

Escorted by CCGS Sir Wilfrid Laurier to Franklin Strait and then CCGS Pierre Radisson

69 Hanseatic (ice strengthened ship) Bahamas6 Heinz Aye5 West 3

Carried passengers14, escorted to Victoria Strait by CCGS Henry A. Larsen, traversed Pond Inlet

70 Kapitan Khlebnikov (icebreaker) Russia7 Viktor Vasiliev2 East 3

Carried passengers15

71 Supplier (tug) Bahamas7 Allan Guenter East 5

Escorted by CCGS Terry Fox to Victoria Strait
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Flag</th>
<th>Country</th>
<th>Person</th>
<th>Season</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>Hanseatic (ice strengthened ship)</td>
<td>Bahamas 8</td>
<td>Heinz Aye 6</td>
<td>East 3, Carried passengers 16, escorted to Victoria Strait by CCGS Sir John Franklin, traversed Pond Inlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kapitan Khlebnikov (icebreaker)</td>
<td>Russia 8</td>
<td>Piotr Golikov 5</td>
<td>East 3, Carried passengers 17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1999</td>
<td>Admiral Makarov (icebreaker)</td>
<td>Russia 9</td>
<td>Vadim Kholodenko</td>
<td>East 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Irbis (tug)</td>
<td>Russia 10</td>
<td>Aleksandr Aleksenko</td>
<td>East 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kapitan Dranitsyn (icebreaker)</td>
<td>Russia 11</td>
<td>Viktor Terekhov 1</td>
<td>West 3, Carried passengers 18, circumnavigated the Arctic 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ocean Search (12.5 m yacht)</td>
<td>France 2</td>
<td>Olivier Pitaras 1</td>
<td>East 6, Traversed Pond Inlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>Evohe (25 m yacht)</td>
<td>New Zealand 1</td>
<td>Stephen Kafka</td>
<td>East 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hanseatic (ice strengthened ship)</td>
<td>Bahamas 9</td>
<td>Thilo Natke 1</td>
<td>West 3, Carried passengers 19, traversed Pond Inlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USCGC Healy (icebreaker)</td>
<td>United States 12</td>
<td>Jeffrey M. Garrett</td>
<td>West 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kapitan Dranitsyn (icebreaker)</td>
<td>Russia 12</td>
<td>Viktor Terekhov 2</td>
<td>West 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nadon (17.7 m RCMP catamaran)</td>
<td>Canada 36</td>
<td>Kenneth Burton</td>
<td>East 6, Voyage to commemorate St Roch 1940-42 transit; circumnavigated North America</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Simon Fraser (icebreaker)</td>
<td>Canada 37</td>
<td>Robert J. Mellis 3</td>
<td>East 6, Escorted Nadon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td>Kapitan Khlebnikov (icebreaker)</td>
<td>Russia 13</td>
<td>Viktor Vasiliev 3</td>
<td>East 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kapitan Khlebnikov (icebreaker)</td>
<td>Russia 14</td>
<td>Viktor Vasiliev 4</td>
<td>West 1, Return voyage in one season, carried passengers 21 &amp; 22</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Northabout (14.9 m yacht)</td>
<td>Ireland (Éire)</td>
<td>Jarlath Cunnane</td>
<td>West 4, Circumnavigated the Arctic 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Turmoil (46 m motor yacht)</td>
<td>Cayman Islands 1</td>
<td>Philip Walsh</td>
<td>West 4, Traversed Pond Inlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2001-02</td>
<td>Nuage (12.8 m yacht)</td>
<td>France 3</td>
<td>Michèle Demai</td>
<td>East 5, Complement of mother and daughter, wintered in Cambridge Bay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Apostol Andrey (16.2 m yacht)</td>
<td>Russia 15</td>
<td>Nikolay A. Litau</td>
<td>East 5, Assisted by CCGS Louis S. St Laurent through Prince Regent Inlet, circumnavigated the Arctic 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arctic Kalvik (icebreaker tug)</td>
<td>Barbados</td>
<td>Sanjeev Kumar</td>
<td>East 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hanseatic (ice strengthened ship)</td>
<td>Bahamas 10</td>
<td>Thilo Natke 2</td>
<td>West 3, Carried passengers 23, traversed Pond Inlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kapitan Khlebnikov (icebreaker)</td>
<td>Russia 16</td>
<td>Piotr Golikov 6</td>
<td>East 3, Carried passengers 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sedna IV (51 m yacht)</td>
<td>Canada 38</td>
<td>Stéphan Guy</td>
<td>West 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>Bremen (ice strengthened ship)</td>
<td>Bahamas 11</td>
<td>Daniel Felgner</td>
<td>West 3, Carried passengers 25, traversed Pond Inlet [formerly Frontier Spirit]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USCGC Healy (icebreaker)</td>
<td>United States 13</td>
<td>Daniel Oliver</td>
<td>West 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kapitan Khlebnikov (icebreaker)</td>
<td>Russia 17</td>
<td>Viktor Vasiliev 5</td>
<td>East 5, Carried passengers 26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Norwegian Blue (12.9 m yacht)</td>
<td>Britain 4</td>
<td>Andrew Wood</td>
<td>East 5, Traversed Pond Inlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vagabond (15.3 m yacht)</td>
<td>France 4</td>
<td>Eric Brossier</td>
<td>East 5, Traversed Pond Inlet, circumnavigated the Arctic 5 [formerly Vagabond II]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2003–04

99 **Dagmar Aaen** (27 m yacht)  
   Germany  
   Arved Fuchs  
   East 5  
   Wintered in Cambridge Bay, assisted by CCGS *Louis S. St Laurent*, traversed Pond Inlet; circumnavigated the Arctic

100 **Polar Bound** (14-6 m motorboat)  
   Britain  
   David Scott Cowper  
   East 5  
   Single-handed voyage, wintered in Cambridge Bay, assisted by CCGS *Louis S. St Laurent* in Prince Regent Inlet

2004

101 **Kapitan Khlebnikov** (icebreaker)  
   Russia  
   Pavel Ankudinov  
   East 5  
   Carried passengers

2004–05

102 **Fine Tolerance** (13·7 m yacht)  
   Australia  
   Philip Hogg  
   East 6  
   Wintered in Cambridge Bay, assisted by CCGS *Sir Wilfrid Laurier* and CCGS *Louis S. St Laurent* through Bellot Strait

2005

103 **Idlewild** (17·3 m motorboat)  
   Canada  
   Benjamin Grey  
   East 6  
   Assisted by CCGS *Sir Wilfrid Laurier* and CCGS *Louis S. St Laurent* through Bellot Strait

104 **Kapitan Khlebnikov** (icebreaker)  
   Russia  
   Viktor Vasiliev  
   East 3  
   Carried passengers, traversed Pond Inlet

105 **Kapitan Khlebnikov** (icebreaker)  
   Russia  
   Viktor Vasiliev  
   West 3  
   Return voyage in one season, carried passengers eastbound

106 **Oden** (icebreaker)  
   Sweden  
   Anders Wikström  
   West 3

2003–06

107 **Minke I** (12·8 m yacht)  
   Canada  
   Peter Brook  
   East 6  
   Wintered in Tuktoyaktuk and in Cambridge Bay twice

2006

108 **Bremen** (ice-strengthened ship)  
   Bahamas  
   Marc Behrend  
   West 4  
   Carried passengers, traversed Pond Inlet

109 **Kapitan Khlebnikov** (icebreaker)  
   Russia  
   Pavel Ankudinov  
   East 7  
   Carried passengers

110 **Nekton** (13·6 m yacht)  
   Poland  
   Tadeusz Natanek  
   West 6

111 **Stary** (13·5 m yacht)  
   Poland  
   Dominik Bac, Jacek Wachowski, and Sławek Skalmierski  
   West 6  
   Travelled in company, traversed Pond Inlet (changed masters at Cambridge Bay and Tuktoyaktuk)

2007

112 **Babouche** (7·5 m catamaran)  
   France  
   Sébastien Roubinet  
   East 5

113 **Cloud Nine** (17·3 m ketch)  
   United States  
   Roger Swanson  
   West 4

114 **Hanseatic** (ice strengthened ship)  
   Bahamas  
   Ulf Wolter  
   West 5  
   Carried passengers

115 **Kapitan Khlebnikov** (icebreaker)  
   Russia  
   Viktor Vasiliev  
   East 5  
   Carried passengers

116 **Luck Dragon** (12·1 m yacht)  
   Britain  
   Jeffrey Allison  
   West 3  
   Vessel abandoned and lost during a storm in Bering Sea

2005–08

117 **Arctic Wanderer** (11·9 m yacht)  
   United States  
   Gary E. Ramos  
   East 6  
   Single-handed voyage, wintered in Cambridge Bay thrice

2008

118 **Amodino** (23 m yacht)  
   Spain  
   Juan Ribos  
   East 4

119 **Bagan** (14·9 m yacht)  
   Belgium  
   Thierry Fabing  
   West 4

120 **Berrimilla** (10 m yacht)  
   Australia  
   Alexander Whitworth  
   East 4

121 **Bremen** (ice-strengthened ship)  
   Bahamas  
   Ulf Wolter  
   West 5  
   Carried passengers

122 **Peter Faber** (cable layer)  
   France  
   Robert Hansen  
   East 3

123 **Geraldine** (14 m yacht)  
   United States  
   Walter Jones  
   West 3

124 **Southern Star** (23-7 m yacht)  
   France  
   Olivier Pittras  
   West 4

125 **Tyhina** (10·4 m yacht)  
   New Zealand  
   Peter Elliott  
   West 4

2009

126 **Apoise** (67 m motor vessel)  
   Canada  
   David Ritchie  
   West 4

127 **Bagan** (17-4 m motorboat)  
   United States  
   Clinton Bolton  
   West 4
128. Bremen (ice-strengthened ship)  Bahamas, Marc Behrend\(^2\)  West 4
   Carried passengers\(^4\), traversed Pond Inlet

129. Baloun Gwen (14·9 m yacht)  Belgium, Thierry Fabing\(^2\)  East 6
   Return voyage

130. Fleur Australe (20 m yacht)  France, Philippe Poupon  West 4

131. Fionia (12-8 m yacht)  United States, Eric Forsyth  West 4

132. Glory of the Sea (15·3 m yacht)  France, Charles Hedrich  West 4

133. Hanseatic\(^6\) (ice-strengthened ship)  Bahamas, Thilo Natke\(^3\)  East 4
   Carried passengers\(^4\), voyage included a return transit of Bellot Strait from Peel Sound

134. Ocean Watch (19·2 m yacht)  United States, Mark Schrader  East 6

135. Perithia (14·6 m yacht)  Germany, Uwe Wohnort  West 4

136. Polar Bound\(^2\) (14·6 m motorboat)  Britain, David Scott Cowper\(^3\)  West 5
   Single-handed voyage\(^5\)

137. Precipice (9·1 m yacht)  United States, Rolland Trowbridge  West 6
   Traversed Pond Inlet

138. Silent Sound (12·2 m yacht)  Canada, Cameron Dueck  East 6

2010

139. Ariel IV (15·2 m sloop)  Sweden, Eric Boye  West 4

140. Astral Express (12·5 m yacht)  New Zealand, Graeme Kendall  West 3
   Single-handed voyage\(^6\)

141. Dione Sky\(^2\) (46 m motor yacht)  Cayman Islands, Brian Harrison  West 2
   [formerly Turmoil]

142. Hanse Explorer\(^4\) (48 m motor yacht)  Antigua and Barbuda, Bernd Buchner  West 3
   Carried Passengers\(^3\), traversed Pond Inlet

143. Hanseatic\(^6\) (ice-strengthened ship)  Bahamas, Thilo Natke\(^4\)  West 4
   Carried Passengers\(^3\), traversed Pond Inlet

144. Kapitan Khlebnikov\(^37\) (icebreaker)  Russia, Anatoliy Kovalenko  East 5
   Carried passengers\(^3\)

145. Octopus\(^4\) (128 m motor yacht)  Cayman Islands, Glenn Dalby\(^1\)  West 2
   Traversed Pond Inlet

146. Rs II (11 m yacht)  Norway, Trond Aasvoll  East 4
   Circumnavigated the Arctic\(^7\)

147. Sarema (15·2 m yacht)  Finland, Pekka Kaupilla  East 4
   Traversed Pond Inlet

148. Solanus (14·5 m yacht)  Poland, Bronisław Radliński  West 4

149. T6 (48·5 m motor yacht)  Cayman Islands, John Spencer  West 3
   Traversed Pond Inlet

150. Young Larry (13·4 m yawl)  Britain, Andrew Wilkes  West 4

2010-11

151. Anna\(^3\) (10·5 m yawl)  Sweden, Börje Ivarsson\(^1\)  West 4
   Wintered in Inuvik

2011

152. Arcadia (35·8 m motor yacht)  Cayman Islands, James Pizzaruso  East Cop
   Traversed Pond Inlet

153. Asteria (converted tug)  Marshall Islands, Donald Feil  West 3

154. Bremen\(^7\) (ice-strengthened ship)  Bahamas, Marc Behrend\(^3\)  East Cop
   Composite course: McClure Strait, Prince of Wales Strait, and then route 4; carried passengers\(^9\)

155. Chamade (13·3 m yacht)  Switzerland, Marc Decrey  West 4

156. Invahub (15·9 m ketch)  South Africa, Ralf Dominick,  West 3

157. Issuma (15 m schooner)  Canada, Richard Hudson  West 5

158. Kotuku (12·2 m yacht)  New Zealand, Ian Douglass  East 6

159. Leava (12·5 m sloop)  France, Alain Bataedat  East 6

160. Muktuk (14·3 m sloop)  Austria, Karl Mayer  West 4

161. Pangaeas (35 m yacht)  United States, Michael Horn  East 4

162. Polar Bound\(^4\) (14·6 m motorboat)  Britain, David Scott Cowper\(^4\)  East 3

163. Rus (7·6 m trimaran)  Russia, Oleg Volynkin  West 5

164. St Brendan (8·2 m yacht)  United States, Matt Rutherford  West 3
   Single-handed voyage\(^3\), circumnavigated the Americas

165. Santa Maria Australis (20·1 m ketch)  Germany, Wolf Kloss  West 4
<table>
<thead>
<tr>
<th>Yacht Name</th>
<th>Country</th>
<th>Crew</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2011-12</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>166 Roxane (10·7 m sloop)</td>
<td>France</td>
<td>Luc Dupont</td>
<td>West 4</td>
</tr>
<tr>
<td>167 Teleport (8·9 m junk rigged yacht)</td>
<td>Australia</td>
<td>Christopher Bray</td>
<td>West 5</td>
</tr>
<tr>
<td>172 Coriolis 14 (25 m yacht)</td>
<td>France</td>
<td>Richard Mergeaux</td>
<td>West 2</td>
</tr>
<tr>
<td>174 Fortrus (50 m motor yacht)</td>
<td>Britain</td>
<td>Scott Newson</td>
<td>West 6</td>
</tr>
<tr>
<td><strong>2012</strong></td>
<td></td>
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<tr>
<td>168 Belzebuh II (9·4 m yacht)</td>
<td>Sweden</td>
<td>Edvin Buregren</td>
<td>West 1</td>
</tr>
<tr>
<td>169 Beothuk (31·1 m motor vessel)</td>
<td>Cayman Islands</td>
<td>Liam Devlin</td>
<td>West 6</td>
</tr>
<tr>
<td>172 Dodo’s Delight (10·1 m yacht)</td>
<td>Britain</td>
<td>Robert Shepton</td>
<td>West 5</td>
</tr>
<tr>
<td>173 Octopus (128 m motor yacht)</td>
<td>Cayman Islands</td>
<td>Glenn Dalby</td>
<td>West 2</td>
</tr>
<tr>
<td>174 Sol (12·8 m yacht)</td>
<td>Denmark</td>
<td>Kim Bork Mathiesen</td>
<td>East 5</td>
</tr>
<tr>
<td>175 Nordwind (26·8 m yacht)</td>
<td>Bahamas</td>
<td>Dag Harald Sævik</td>
<td>East 5</td>
</tr>
<tr>
<td>176 Hanseatíc (10·5 m yawl)</td>
<td>Sweden</td>
<td>Pelle Ivarsson</td>
<td>East 6</td>
</tr>
<tr>
<td>177 Balthazar (10·5 m yacht)</td>
<td>Netherlands</td>
<td>Bart Veldink</td>
<td>East 5</td>
</tr>
<tr>
<td>178 Anna 2 (10·5 m yawl)</td>
<td>Sweden</td>
<td>Pelle Ivarsson</td>
<td>East 6</td>
</tr>
<tr>
<td>179 Tranquillo (17·6 m yacht)</td>
<td>Netherlands</td>
<td>Bart Veldink</td>
<td>East 5</td>
</tr>
<tr>
<td><strong>2013</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>190 Anna 2 (10·5 m yawl)</td>
<td>Sweden</td>
<td>Pelle Ivarsson</td>
<td>East 6</td>
</tr>
<tr>
<td>191 Artikka (15 m sloop)</td>
<td>Finland</td>
<td>Gilles Elkaim</td>
<td>West 5</td>
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<tr>
<td>192 Bremen (ice-strengthened ship)</td>
<td>Bahamas</td>
<td>Roman Obrist</td>
<td>East 3</td>
</tr>
<tr>
<td>193 d’Acaléphé (13·9 m yacht)</td>
<td>Canada</td>
<td>Jean-Gilles Lemieux</td>
<td>West 5</td>
</tr>
<tr>
<td>194 Dodo’s Delight (10·1 m yacht)</td>
<td>Britain</td>
<td>Robert Shepton</td>
<td>East 5</td>
</tr>
<tr>
<td>195 Hanseatic 11 (ice-strengthened ship)</td>
<td>Bahamas</td>
<td>Mark Behrend</td>
<td>West 5</td>
</tr>
<tr>
<td>198 La Belle Epoque (12·8 m yacht)</td>
<td>Austria</td>
<td>Jürgen Kircherberger</td>
<td>West 5</td>
</tr>
<tr>
<td>199 Lady M II (50 m motor yacht)</td>
<td>Marshall Islands</td>
<td>Jim Bulman</td>
<td>West 5</td>
</tr>
<tr>
<td>200 Le Soléal (cruise vessel)</td>
<td>France</td>
<td>Etienne Garcia</td>
<td>West 6</td>
</tr>
<tr>
<td>201 Libellule (14·3 m catamaran)</td>
<td>Switzerland</td>
<td>Philip Cottier</td>
<td>West 5</td>
</tr>
<tr>
<td>202 Michaela Rose (49·4 m motor yacht)</td>
<td>Britain</td>
<td>Tom Noorman</td>
<td>East 5</td>
</tr>
</tbody>
</table>
203 Nordic Orion (ice-strengthened bulk cargo vessel) Conveyed 73 000 tonnes of coal from Vancouver to Finland; previously transited the Northeast Passage; circumnavigated the Arctic; largest ship to transit; escorted by CCGS Louis S. St Laurent in Peel Sound

204 Octopus (128 m motor yacht) Cayman Islands Janine Olsson East 5
205 Perd pas le Nord (15-2 m yacht) Belgium Nicolas Mouchart West 6
206 Polar Bound (14-6 m motor boat) Britain David Scott Cowper East 5
207 Polar Prince (94-1 m icebreaker) Canada Andrew Barry East 5
208 Traversay III (13-7 m yacht) Canada Laurence Roberts West 5

Assisted by CGCS Henry Larsen

2013-14

209 Empiricus (15-2 m yawl) United States Jesse Osborn East 6
210 Gitana (13-4 m schooner) United States Michael Johnson West 6
211 Le Manguier (21-1 m motor vessel) France Philippe Hercher East 6

Both wintered in Cambridge Bay

2014

212 Altan Girl (13-4 m motor vessel) Canada Erkan Gursoy East 6
Single handed voyage, rescued by USCG Healy off Point Barrow, assisted by Tandberg Polar through Bellot Strait

213 Arctic Tern UK (13-1 m sloop) Britain Alison Parsons West 6
214 Drina (16-8 m ketch) Australia Michael Thurston West 6
215 Lady Dana 44 (14-3 m sloop) Poland Ryszard Wojnowski East 6
Circumnavigated the Arctic

216 Latitude (44-5 m motor yacht) Cayman Islands Sean Meagher West 6
217 L’Austral (cruise vessel) France Patrick Mergussead West 4
Carried passengers assisted by CCGC Pierre Radisson in Bellot Strait

218 Novara (18-3 m schooner) Marshall Islands Randy Rose West 2

219 Nunavik (ice-strengthened bulk cargo vessel) Conveyed 23 000 tonnes of nickel concentrate to China, circumnavigated North America

220 Silver Explorer (cruise vessel) Bahamas Alexander Golubev West 5
Carried passengers, assisted by CCGC Pierre Radisson in Victoria Strait

221 Triton (50 m motor vessel) Marshall Islands Paul Jones East 6

Wintered in Paulatuk

2014-15

222 Gjoa (13-1 m yacht) Canada Glenn Bainbridge West 6
Assisted by Akademik Sergey Vavilov in Bellot Strait; wintered at Cambridge Bay

223 Philos (15-2 m schooner) Australia Roger Wallis East 6
Wintered Cambridge Bay

2015

224 Aventura (14 m sloop) Britain James Cornell, West 6
225 Bagheera (16 m cutter) Netherlands Erik de Jong West 3
226 Drifter Way (14-9 m ketch) Canada Robert Graf West 3
Single handed voyage

227 Hawk (12-8 m sloop) United States Joe Wolff West 4
Made a return transit of Bellot Strait

228 La Chimère (10 m sloop) France Manu Wattecamps-Etienne West 4
Single-handed voyage

229 Latitude (44-5 m motor yacht) Cayman Islands Sean Meagher East 5
230 Le Boreal (cruise vessel) France Etienne Garcia West 6
Carried passengers

231 Le Soléal (cruise vessel) France Patrick Marchesseau West 6
Carried passengers

232 Necton (14-0 m ketch) Netherlands Aldert Hesseling East 6
233 Salty (19-8 m cutter) United States Carl Zaniboni West 3
234 Selma (20-4 m ketch) Poland Piotr Kuźniar West 6
235 Snow Dragon II (14-9 m yacht) United States Frances Brann West 3
236 Tiama (12 m yacht) France Jean Michel West 4
Vessel underway but wintering during transit

2015-16?

Maia (11 m yacht) Hungary Zoltán Balaton West 3
Wintering in Tuktoyaktuk

Notes: Several vessels, including recent small craft have traversed the Canadian Arctic archipelago, Beaufort Sea and Chukchi Sea. Those which did not transit Bering Strait nor enter the Pacific Ocean are not included in this list, although most circumnavigated the Arctic Ocean. Many other voyages have been made through the archipelago of the Canadian Arctic, notably that of the experimental oil tanker Manhattan with escort vessels which reached the Arctic coast of Alaska in 1969 from the Atlantic Ocean, but did not continue to the Pacific Ocean. Similarly constraints are applied to voyages terminating in Pond Inlet or other locations north of Davis Strait or the coast of Greenland. Such voyages, and one where the vessel carried partly as deck cargo aboard a Canadian icebreaker, are similarly not regarded as complete transits of the Northwest Passage. Incomplete transits are too numerous to record.

Data: the list is subject to revision and confirmation when additional and improved information is received. Advice of corrections and additions is always appreciated; <rkh10@cam.ac.uk>. A copy of the latest iteration is available from the same source.