

CAERNARFON HARBOUR TRUST - AIDS TO NAVIGATION UPDATE

01/05/2025

The table below summarises the condition of the main Aids to Navigation maintained by the Trust and lists the work undertaken/required.

Quick Key to AtoN condition:

- = Considered to be in good condition
- = Needs attention
- = Needs attention urgently

SUMMARY OF SCHEDULE OF INSPECTION / REPLACEMENT FOR A TO N

A to N Name / Type	Disc	Ground Tackle	Depth of water CD	Last Inspection / <i>Work required</i>	Light (New / Due for renewal)	Notes / photographs
Fairway Buoy <i>Off Caernarfon Bar</i>	2019 steel buoy designed and constructed by CHT	27.5m 38mm Open Link AC 14 Anchor 800Kg All shackles fully welded	7.64	Repainted and deployed 13/3/25 Recover 09/2025 Prepare for redeployment 03/2026	Carmanah 660 2022-2032	

<p>South West Rock Buoy <i>South Cardinal buoy off Llanddwyn</i></p>	<p>Buoy type = steel</p>	<p>Mooring = 15m of 19mm mid link chain to train wheel sinker.</p>	<p>8.5</p>	<p>Repainted and deployed 13/3/25</p>	<p>N/A</p>	
<p>North East Rock Buoy <i>South Cardinal buoy off Llanddwyn</i></p>	<p>Buoy type = steel</p>	<p>Mooring = 15m 19mm mid link chain going to train wheel sinker.</p>	<p>2.02</p>	<p>Repainted and deployed 13/3/25</p>	<p>N/A</p>	
<p>Llanddwyn Light</p>	<p>Old Stone Tower</p>	<p>N/A</p>	<p>N/A</p>	<p><i>Tower Painted 2023</i> Inspection 09/2025</p>	<p>NEW 2015 <i>Sealite Apollo</i></p>	

				<p>The metal work atop the tower is showing significant signs of deterioration and will need replacing within the next two years. I am currently considering a cantilever street light post.</p> 		
<p>C1 <i>Starboard hand buoy</i></p>	<p>Buoy New 2007 Refurbished Dec 2023 Buoy type = steel</p>	<p>Mooring = 30M ~28mm 2 X 400kg train wheel sinker</p>	<p>5.38</p>	<p>Inspected 2024 Inspection 03/2025 Replacement C1 is in the shed being redressed. Anticipate deployment early May.</p>	<p>Carmanah 650 2014</p>	

<p>C2 <i>Port hand buoy</i></p>	<p>Refurbished buoy May 2013. Ground tackle renewed in 2012. Buoy type = steel</p>	<p>Mooring = 27.5m 28mm studlink 400kg train wheel sinker</p>	<p>0.34</p>	<p>NEW mooring equipment 03/2024 Inspection 03/2025 Inspect 09/2025</p>	<p>Carmanah 660 2018</p>	
<p>C3 <i>Starboard hand buoy</i></p>	<p>New Buoy December 2014 Ground tackle new December 2023. Buoy type = steel buoy</p>	<p>Mooring = 30m ~28mm 400kg train wheel sinker</p>	<p>1.7</p>	<p><i>New mooring equipment 03/2025</i> Inspection 03/2026</p>	<p>Carmanah 660 2024</p>	
<p>C4 <i>Port hand buoy</i></p>	<p>Refurbished buoy and new ground tackle in June 2022. Buoy type = steel</p>	<p>Mooring = 30m ~ 28mm 400kg train wheel sinker</p>	<p>1.8</p>	<p>Needs bringing ashore for refurbishment. <i>Inspected 11/04/25</i></p>	<p>Carmanah 660 2022</p>	

<p>Grampian castle Fixed South cardinal</p>				<p>Fabricated inhouse and installed 01/04/25 Inspect 01/05/26</p>	<p>Carmanah 660 2025</p>	
<p>C5 <i>Starboard hand buoy</i></p>	<p>New Buoy in May 2017 Buoy type = Steel</p>	<p>Mooring = 30m ~ 28mm 400kg train wheel sinker</p>	<p>1.93</p>	<p>New 03/2024 Inspect 03/2025</p>	<p>Carmanah 650 2017</p>	
<p>C6 <i>Port hand buoy</i></p>	<p>New Buoy in Sep 2008 with new ground tackle. Buoy type = Tideland SB98 - Polyethylene</p>	<p>Mooring = 30m ~ 28mm 400kg train wheel sinker</p>	<p>2.3</p>	<p>Needs bringing ashore for refurbishment. <i>Inspected 11/04/25</i></p>	<p>Carmanah 650 2014</p>	

<p>Mussel Bank Fixed Perch</p> <p><i>Port hand buoy (Discontinued)</i></p>	<p>Perch</p>			<p>Fabricated in house, Installed 29/08/2024</p> <p>Inspect 01/08/2026</p>	<p>Carmanah 660 2024</p>	
<p>Abermenai Point</p> <p><i>Sectored light</i></p>	<p>N/A</p> <p>New light and solar unit fitted 19/11/2010 at a total cost of £3,270.</p>		<p>N/A</p>	<p><i>Wooden post of unknow age. Anticipate 3-5 years' service.</i></p> <p><i>I am currently considering a cantilever street light post.</i></p> <p><i>Inspected 2023</i></p> 	<p>2010 / 2015 Sealite Apollo</p> 	
<p>C8</p> <p><i>Port hand buoy</i></p>	<p>New buoy in Sept 2008</p> <p>Buoy type = Tideland SB98 - Polyethylene</p>	<p>Mooring = 30m ~ 28mm</p> <p>400kg train wheel sinker</p>	<p>3.76</p>	<p>Inspected 13/10/23</p> <p>Inspect 03/2025</p> <p>Needs bringing ashore for refurbishment</p>	<p>Carmanah 660 2022</p>	

<p>C10 <i>Port hand buoy</i></p>	<p>Refurbished buoy deployed Sep 2009 with new ground tackle. Buoy type = GRP</p>	<p>Mooring = 27.5m 28mm stud link 400kg train wheel sinker</p>	<p>2.1</p>	<p><i>New mooring equipment in 2022</i></p> <p>Needs cleaning</p> <p><i>Inspect 09/2025</i></p>	<p>Carmanah 660 2021</p>	
<p>C7 <i>Starboard hand buoy</i></p>	<p>New buoy and ground tackle in Feb 2008 Buoy type = Mobilis BC1242 - Polyethylene</p>	<p>Mooring = 30m@ 28mm 400kg train wheel sinker</p>	<p>2.3</p>	<p>Inspected 05/2024 Inspect 05/2025</p>	<p>Carmanah 660 2023</p>	
<p>C12 <i>Port hand buoy</i></p>	<p>Refurbished buoy deployed Sep 2009 with new mooring tackle. Buoy type = GRP</p>	<p>Mooring = 30m@ 28mm 400kg train wheel sinker</p>	<p>3.03</p>	<p>New Mooring equipment 2023</p> <p>Inspected 18/03/2025</p>	<p>Carmanah 660 2024</p>	

<p>C9 <i>Starboard hand buoy C'fon</i></p>	<p>New buoy and ground tackle in Sept 2014 Buoy type =</p>	<p>Mooring = 30m@ 28mm 400kg train wheel sinker</p>	<p>3.58</p>	<p>New Mooring equipment 2023 Inspect 4/11/2024 Inspect 09/2025</p>	<p>Carmanah 650 2017</p>	
<p>“Deadman” Bi-Furification <i>East Cardinal buoy</i></p>	<p>New buoy and ground tackle in July 2008 Buoy type = Sealite SLB1250 - Polyethylene</p>	<p>Mooring = 30m@ 28mm 400kg train wheel sinker</p>	<p>-1.21</p>	<p>Inspected 2023 Inspect 09/2025</p>	<p>N/A</p>	
<p>Pillar Buoy No.1 (nearest swing bridge) <i>Starboard hand buoy</i></p>	<p>New buoy in Sept 2014 Buoy type = Polyethylene Sealite SLB 600</p>	<p>Mooring = 4.5M of 24mm Robline to 2M of 19mm chain to 400kg train wheel sinker</p>	<p>0.5</p>	<p>Inspected 2023 Inspected 09/2024 Inspect 09/2025</p>	<p>N/A</p>	

Pillar Buoy No.2 <i>Starboard hand buoy</i>	New buoy in Sept 2014 Buoy type = Polyethylene Sealite SLB 600	Mooring = 4.5M of 24mm Robline to 2M of 19mm 400kg train wheel sinker	0.5	Inspected 2023 Inspected 09/2024 Inspect 09/2025	N/A	
Pillar Buoy No.3 <i>Starboard hand buoy</i>	New buoy in Sept 2014 Buoy type = Polyethylene Sealite SLB 600	Mooring = 4.5M of 24mm Robline to 2M of 19mm chain to 400kg train wheel sinker	0.5	Inspected 2023 Inspected 09/2024 Inspect 09/2025	N/A	
Change Buoy <i>South Cardinal buoy</i>	Refurbished buoy deployed in March 2011 (ground tackle = May 2008) Buoy type = Tideland SB- 98P - Polyethylene	Mooring = 30m@ 28mm 400kg train wheel sinker	6.09	New Moorings equipment 2023 Inspected 09/2024 Inspect 09/2025	Carmanah 650 2009	
Traeth Gwyllt <i>Starboard hand buoy</i>	Refurbished GRP buoy deployed March 2011 c/w new	Mooring = 30m@ 28mm 400kg train wheel sinker	6.04	New Mooring equipment 2022 Inspected 2023 Inspected 09/2024 Inspect 09/2025	Carmanah 650 2016	

	ground tackle Buoy type = GRP Light established on buoy in July 2011.					
C13 <i>Starboard hand buoy</i>	Refurbished GRP buoy deployed Sep 2010 with new mooring tackle. Buoy type = GRP	Mooring = 30m@ 28mm 400kg train wheel sinker	3.74	New Mooring equipment 2022 Inspected 2023 Inspected 09/2024 Inspect 4/11/2025		
C11 <i>Starboard hand buoy</i>	New buoy and ground tackle in June 2008 Buoy type = Norfloat NN1250 - Polyethylene	Mooring = 30m@ 28mm 400kg train wheel sinker	4.2	New Mooring equipment 2022 Inspected 2023 Inspected 4/11/2024 Inspect 09/2025		
C14 <i>Port hand buoy</i>	Refurbished GRP buoy deployed Sep 2010 with new mooring tackle.	Mooring = 30m@ 28mm 400kg train wheel sinker	7.38	Inspected 2022 (sanded) Inspected 2023 (Sanded) Need to inspect 05/2024		

C9 (PD) <i>Starboard hand buoy</i>	Renewed in March 2008 Buoy type = Norfloat NN1250 - Polyethylene Mooring = 12 fathom of 1" long link chain to 325kg train wheel sinker.	Mooring = 30m@ 28mm 400kg train wheel sinker	1.29	Inspected 2023 Inspect 05/2024		
Leading Lights <i>Britannia Bridge</i>	N/A			Inspected 08/2024 Inspected 31/1/2025	Lights = Carmanah 660 x 2 2019	
Pyramid (Bn) (Swellies)	N/A			Painted 26/3/25 Inspect 26/3/25	N/A	

						
<p>Price's Point <i>Sectored light</i></p>	<p>N/A</p>			<p>Painted 2023 Inspect 26/3/25</p>	<p>New light unit fitted July 2013</p> <p>New battery 2023</p>	<p>New tilting column to allow easier access to the lantern. New lantern = Sealite Apollo 155 LED Sector Lantern – similar to the Abermenai Light – but with intensity reduced to 6%, which should allow the lantern to continue working all year round despite the shading in this location. Solar system installed with a panel facing west (which is the only direction that this location receives sunlight from – late afternoon/evening May to September).</p>

<p>Swelly Rock</p> <p><i>Lighted Beacon</i> <i>South Cardinal</i></p>	<p>N/A</p>			<p>Inspected Replaced access platform and ladder 21/03/25</p>	<p>New Light Carmanah 660 2025</p>	
<p>Speed Limit marker SW</p>	<p>Hydrosphere</p>	<p>Mooring = 27.5m@ 28mm</p> <p>400kg train wheel sinker</p>		<p>New install 21/03/25</p>	<p>New Light Carmanah 660 2025</p>	

Speed Limit marker NE	Hydrosphere	Mooring = 27.5m@ 28mm 400kg train wheel sinker		New install 21/03/25	New Light Carmanah 660 2025	
------------------------------	-------------	--	--	----------------------	--------------------------------	--