

REEDS

Practical
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2024

SMALL CRAFT ALMANAC

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Boat Owner[®]

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2024

EDITORS

Perrin Towler & Mark Fishwick



**THE UNITED KINGDOM AND IRELAND
PLUS DENMARK TO THE GIRONDE**

PLEASE SEE IMPORTANT SAFETY NOTE ON PAGE 2

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Editors: Perrin Towler & Mark Fishwick

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Foreword

For years, the *Reeds PBO Small Craft Almanac* has been the trusted companion of sailors cruising the UK, Ireland and the west coast of Europe from Denmark to the Gironde in south-western France, and this new 2024 edition continues in that tradition.

Although electronic navigation aids are the norm compared to when the almanac was first published 23 years ago, this compact, quick reference handbook still remains an essential part of the mariner's onboard library.

Specifically tailored for small boat sailors, the *PBO Small Craft Almanac* is an indispensable manual for passage planning, including easy-to-find tidal data, as well as a full-colour guide to flags, lights and channel markers, and contact information for marinas and harbour authorities.

With this latest edition, you can throw off the bow lines with confidence and enjoy your voyage. Feel free to share your adventures with us at www.pbo.co.uk

Fair winds and following seas,

Katy Stickland

Editor

Practical Boat Owner

Britain's biggest selling boating magazine

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ABBREVIATIONS

AC, ACA	Admiralty chart, chart agent	LF	Low frequency
AC	Shore power (electrical)	Long	Longitude
ACN	Adlard Coles Nautical	LT	Local time
AI	Alternating It	Lt(s)	Light(s)
ALL	Admiralty list of lights	Lt F	Light float
ALRS	Admiralty list of radio signals	Lt Ho	Lighthouse
ASD	Admiralty sailing directions (Pilot)	Lt V	Light vessel
ATT	Admiralty tide tables	LW	Low water
ATT	Atterisage (landfall/SWM) buoy	M	Sea mile(s)
Bcn, Bn	Beacon	m	Metre(s)
Bkwtr	Breakwater	MCA	Maritime & Coastguard Agency
BST	British summer time (DST)	Météo	Météorologie/weather
CD	Chart datum	MF	Medium frequency
Cf	Compare, cross-refer to	MHWN	Mean HW neaps
CG	Coastguard	MHWS	Mean HW springs
Ch	Channel (VHF)	MHz	Megahertz
chan.	Channel (navigational)	MLWN	Mean LW neaps
COG	Course over the ground	MLWS	Mean LW springs
CROSS	Centre régional opérationnel de surveillance et sauvetage (MRCC)	MMSI	Maritime mobile service identity
CRS	Coast radio station(s)	Mo	Morse
DF	Direction finding	MRCC	Maritime rescue co-ordination centre
Dia	Diaphone (fog signal)	MRSC	Maritime rescue sub-centre (not in UK)
Dir Lt	Directional light	MSI	Maritime safety information
DSC	Digital selective calling	N	North
DST	Daylight saving time	NCM	North cardinal mark (buoy/bcn)
DZ	Danger zone (buoy)	Oc	Occulting light
E	East	PHM	Port-hand mark (buoy/bcn)
ECM	East cardinal mark (buoy/beacon)	Pt(e), (a)	Point(e), Punta
ED	Existence doubtful, European datum	Q	Quick flashing
EPIRB	Emergency pos'n indicating radio bn	R	Red. River
F	Fixed light. Beaufort wind force	Ra	Coast radar station
FFL	Fixed and flashing It	Racon	Radar transponder beacon
FI	Flashing light	RG	Emergency RDF station
FM	Frequency modulation	R/T	Radiotelephony
FV	Fishing vessel	S	South
G	Green. Gravel	s	second(s) of time
GMDSS	Global maritime distress & safety system	SAR	Search and rescue
H, Hrs, h	Hour(s)	SCM	South cardinal mark (buoy/bcn)
H24	Continuous	SHM	Starboard-hand mark (buoy/bcn)
HAT	Highest astronomical tide	Sig Stn	Signal station
Hbr	Harbour	SMS	Short message service (texting)
Hd	Head, headland	SNSM	Société nationale de sauvetage enmer (French LB service)
HF	High frequency	SOG	Speed over the ground
HJ	Day service, sunrise to sunset	SOLAS	Safety of life at sea (Convention)
HO	Office hours, Hydrographic office	SPM	Special mark (buoy/bcn)
ht	Height	SRR	SAR Region
HW	High water	SSB	Single sideband (radio)
HX	No fixed hours	Stn	Station
Hz	Hertz	SWM	Safe water mark, landfall buoy
IALA	Int'l association of It ho authorities	Tfc	Traffic
IDM	Isolated danger mark (buoy/bcn)	TSS	Traffic separation scheme
IMO	Int'l maritime organisation	UQ	Ultra quick flashing It
Inmarsat	Int'l maritime satellite system	UT	Universal time
IPS	Int'l port traffic signals	VHF	Very high frequency
Is, I	Island, Islet	VNF	Voie navigable de France (canals)
Iso	Isophase light	VQ	Very quick flashing It
ITZ	Inshore traffic zone	VTS	Vessel traffic service
Kn	Knot(s)	W	West, White
Lanby	Large automatic navigational buoy	WCM	West cardinal mark (buoy/bcn)
Lat	Latitude	WGS	World geodetic system (datum)
LB	Lifeboat	WIP	Work in progress
Ldg	Leading (It)	WPT	Waypoint
		Y	Yellow, orange, amber

GENERAL VOCABULARY. See also weather vocabulary on page 106

ENGLISH	GERMAN	FRENCH	DUTCH
ASHORE			
Ashore	An Land	A terre	Aan land
Airport	Flughafen	Aéroport	Vliegveld
Bank	Bank	Banque	Bank
Boathoist	Bootskran	Travelift	Botenlift
Boatyard	Bootswerft	Chantier naval	Jachtwerf
Bureau de change	Wechselstelle	Bureau de change	Geldwisselkantoor
Bus	Bus	Autobus	Bus
Chandlery	Yachtausrüster	Shipchandler	Scheepswinkel
Chemist	Apotheke	Pharmacie	Apotheek
Dentist	Zahnarzt	Dentiste	Tandarts
Doctor	Arzt	Médecin	Dokter
Engineer	Motorenservice	Ingénieur/mécanique	Ingenieur
Ferry	Fähre	Ferry/transbordeur	Veer/Pont
Garage	Autowerkstatt	Station service	Garage
Harbour	Hafen	Port	Haven
Hospital	Krankenhaus	Hôpital	Ziekenhuis
Mast crane	Mastenkran	Grue	Masten kraan
Post office	Postamt	Bureau de poste/PTT	Postkantoor
Railway station	Bahnhof	Gare de chemin de fer	Station
Sailmaker	Segelmacher	Voilier	Zeilmaker
Shops	Geschäfte	Boutiques	Winkels
Slip	Slip	Cale	Helling
Supermarket	Supermarkt	Supermarché	Supermarkt
Taxi	Taxi	Taxi	Taxi
Village	Ort	Village	Dorp
Yacht club	Yachtclub	Club nautique	Jacht club
NAVIGATION			
Abeam	Querab	A côté	Naast
Ahead	Voraus	Avant	Voor
Astern	Achtersaus	Arrière	Achter
Bearing	Peilung	Cap	Peiling
Buoy	Tonne	Bouée	Boei
Binoculars	Fernglas	Jumelles	Verrekijker
Channel	Kanal	Chenal	Kanaal
Chart	Seekarte	Carte	Zeekaart
Compass	Kompass	Compas	Kompas
Compass course	Kompass Kurs	Cap du compas	Kompas koers
Current	Strömung	Courant	Stroom
Dead reckoning	Koppelnavigation	Estime	Gegist bestek
Degree	Grad	Degré	Graden
Deviation	Deviation	Déviation	Deviatie
Distance	Entfernung	Distance	Afstand
Downstream	Flußabwärts	En aval	Stroom afwaards
East	Ost	Est	Oost
Ebb	Ebbe	Jusant	Eb
Echosounder	Echolot	Sondeur	Dieptemeter
Estimated position	Gegißte Position	Point estimé	Gegiste positie
Fathom	Faden	Une brassé	Vadem
Feet	Fuß	Pieds	Voet
Flood	Flut	Flot	Vloed
Handbearing compass	Handpeilkompass	Compas de relèvement	Handpeil kompas

ENGLISH	GERMAN	FRENCH	DUTCH
Harbour guide	Hafenhandbuch	Guide du port	Havengids
High water	Hochwasser	Pleine mer	Hoog water
Latitude	Geographische Breite	Latitude	Breedte
Leading lights	Feuer in Linie	Alignement	Geleide lichten
Leeway	Abdrift	Dérive	Drift
Lighthouse	Leuchtturm	Phare	Vuurtoren
List of lights	Leuchtfeuer Verzeichnis	Liste des feux	Lichtenlijst
Log	Logge	Loch	Log
Longitude	Geographische Länge	Longitude	Lengte
Low water	Niedrigwasser	Basse mer	Laag water
Metre	Meter	Mètre	Meter
Minute	Minute	Minute	Minuut
Nautical almanac	Nautischer Almanach	Almanach nautique	Almanak
Nautical mile	Seemeile	Mille nautique	Zeemijl
Neap tide	Nipptide	Marée de morte-eau	Dood tij
North	Nord	Nord	Noord
Pilot	Lotse	Pilote	Loods/Gids
Pilotage book	Handbuch	Instructions nautiques	Vaarwijzer
RDF	Funkpeiler	Radio gonio	Radio richtingzoeker
Radar	Radar	Radar	Radar
Radio receiver	Radio, Empfänger	Récepteur radio	Radio ontvanger
Radio transmitter	Sender	Emetteur radio	Radio zender
River outlet	Flußmündung	Embouchure	Riviermond
South	Süd	Sud	Zuid
Spring tide	Springtide	Marée de vive-eau	Springtij/ springvloed
Tide	Tide, Gezeit	Marée	Getijde
Tide tables	Tidenkalender	Annuaire des marées	Getijdetafel
True course	Wahrer Kurs	Vrai cap	Ware Koers
Upstream	Flußaufwärts	En amont	Stroom opwaards
VHF	UKW	VHF	Marifoon
Variation	Mißweisung	Variation	Variatie
Waypoint	Wegpunkt	Point de rapport	Waypoint/Route punt
West	West	Ouest	West
OFFICIALDOM			
Certificate of registry	Schiffszertifikat	Acte de franchisation	Zeebrief
Check in	Einklarieren	Enregistrement	Check-in
Customs	Zoll	Douanes	Douane
Declare	Verzollen	Déclarer	Aangeven
Harbour master	Hafenmeister	Capitaine du port	Havenmeester
Insurance	Versicherung	Assurance	Verzekering
Insurance certificate	Versicherungspolice	Certificat d'assurance	Verzekeringsbewijs
Passport	Paß	Passeport	Paspoort
Police	Polizei	Police	Politie
Pratique	Verkehrserlaubnis	Pratique	Verlof tot ontscheping
Prohibited area	Sperrgebiet	Zone interdite	Verboden gebied
Register	Register	Liste de passagers	Register
Ship's log	Logbuch	Livre de bord	Logboek
Ship's papers	Schiffspapiere	Papiers de bateau	Scheepspapieren
Surveyor	Gutachter	Expert maritime	Opzichter

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PASSAGE PLANNING AND SOLAS V

All passages by any vessel that goes to sea *must* be planned. 'Going to sea' is defined as proceeding beyond sheltered waters. Even in very familiar waters every passage, however short, should be properly planned. Before you set sail you need to determine where you are going, how to get there and what factors may influence the plan.

Full passage planning requirements may be found in Chapter V of the International Convention for Safety of Life at Sea (SOLAS), but more digestible guidance for small craft is on the MCA's website at: <https://www.gov.uk/> – the guide formerly issued has been withdrawn.

Although the passage plan does not have to be recorded on paper, in the event of legal action a written plan is clear proof that the required planning has been completed; it can also be referred to during the passage. A suggested passage planning form is overleaf. When completed this would constitute, with due consideration of the points below, a reasonable passage plan. The blank form may be photocopied and modified to suit individual needs.

Although spot checks on small craft are unlikely, the MCA could, following an accident or incident, take action under the Merchant Shipping Act if it could be proved that the skipper did not have a reasonable passage plan.

Passage planning considerations

All passage plans should at least consider the following:

- **Weather.** Before setting out check the weather forecast and know how to get regular updates during the passage.
- **Tides.** Check tidal predictions and determine if there are any limiting depths at your port of departure, during the passage and at the port of arrival (and at alternative ports, if applicable). Tidal streams will almost certainly affect the plan.
- **Vessel.** Confirm she is suitable for the intended trip, is properly equipped, and has sufficient fuel, water and food on board.
- **Crew.** Take into account your crew's experience, expertise and stamina. Cold,

tiredness and seasickness can be debilitating – and skippers are not immune.

- **Navigation.** Make sure you are aware of all navigational dangers by consulting up to date charts, pilot books and this Almanac. Never rely on GPS for fixing your position.
- **Contingency plan.** Consider bolt holes which can be entered *safely* in an emergency, if the weather deteriorates or mutiny threatens.
- **Information ashore.** Make sure someone ashore knows your plans, when they should become concerned and what action to take if necessary. Be sure to join the Coastguard Voluntary Identification Scheme (Form CG66).

"The winds and waves are always on the side of the ablest navigators." (Edward Gibbon)

Passage planning form

The following notes amplify some of the items on the form:

- The height of tide affects the depth, and tidal streams may hinder sensible progress – off headlands or in narrow passages, for example. On longer passages, which cross main tidal streams, determine the net effect of the streams and calculate a course to steer – more efficient than trying to maintain a track.
- Note which harbours and marinas have restricted times of access due to bars, sills or locks. These may affect your ETA and, probably, your ETD.
- Prepare a detailed pilotage plan for entry/exit of any unfamiliar harbour; a sketch is invaluable.
- Squinting into the setting sun can make pilotage very difficult. At night, light from a full moon can help enormously.
- Know when you expect to see lights at night – a good check on progress. See table of dipping/rising lights.
- Look up and note relevant VHF channels and/or phone numbers for ports of departure and arrival.

NAVIGATION

PASSAGE PLANNING FORM

DATE:..... FROM: TO:..... DIST:.....M

ALTERNATIVE DESTINATION(S):

WEATHER FORECAST:

FORECASTS AVAILABLE DURING PASSAGE:

TIDES

DATE:..... DATE:..... DATE:.....

PLACE:..... PLACE:..... PLACE:.....

HW HW HW

LW LW LW

HW HW HW

LW LW LW

COEFFICIENT:

HEIGHT OF TIDE AT:

..... hrsm hrsm hrsm

DEPTH CONSTRAINTS:

TIDAL STREAMS AT:

URNS AT TOTAL SET (FM TO):°M

URNS AT TOTAL SET (FM TO):°M

NET TIDAL STREAM FOR PASSAGE:°M

ESTIMATED TIME:hrs ETD: ETA:

SUN/MOON

SUNRISE: SUNSET:

MOONRISE: MOONSET: PHASE:

WAYPOINTS

NO	NAME	TRACK/DISTANCE (TO NEXT WAYPOINT)
..... /
..... /
..... /
..... /
..... /

DANGERS

CLEARING BEARINGS/RANGES/DEPTHS

.....

.....

LIGHTS/MARKS EXPECTED

.....

.....

COMMUNICATIONS PORT/MARINA VHF ☎

PORT/MARINA VHF ☎

NOTES (CHARTS PREPARED & PAGE NUMBERS OF RELEVANT PILOTS/ALMANACS/ETC):

.....

.....

DISTANCES (M) ACROSS THE ENGLISH CHANNEL

ENGLAND FRANCE/CI	Longships	Falmouth	Fowey	Plymouth bkwrtr	Salcombe	Dartmouth	Torbay	Weymouth	Poole Hbr Ent	Needles Lt Ho	Nab Tower	Littlehampton	Shoreham	Brighton	Newhaven	Eastbourne	Folkestone	Dover
Le Conquet	114	118	134	142	139	152	158	181	199	203	236	256	260	264	269	281	313	318
L'Aberwrac'h	101	103	114	120	122	133	142	171	191	197	197	236	246	247	248	258	297	301
Roscoff	110	97	101	97	91	100	107	130	144	149	165	184	193	197	200	211	246	252
Trébeurden	118	105	107	100	95	103	110	128	148	148	168	186	197	201	206	218	257	262
Tréguier	131	114	112	102	93	99	104	116	132	136	153	170	182	187	192	211	252	253
Lézardrieux	139	124	119	107	97	102	105	117	129	133	150	167	179	184	189	208	249	250
St Q.-Portrieux	151	134	128	120	109	114	115	128	133	136	151	174	180	185	188	200	238	242
St Malo	172	152	145	132	118	121	124	125	130	133	148	170	176	182	185	195	235	240
St Helier	156	133	124	110	95	97	100	103	108	110	125	145	155	160	163	175	211	218
St Peter Port	140	113	105	89	75	71	73	81	87	90	105	126	135	139	142	155	190	196
Braye (Alderney)	149	129	107	90	74	72	71	63	68	71	86	108	115	120	123	135	173	178
Cherbourg	173	144	130	111	98	94	93	67	64	63	72	89	99	102	107	120	153	158
St Vaast	194	165	151	134	119	117	119	86	78	72	69	84	91	94	97	104	140	147
Ouistreham	231	203	190	173	158	155	159	121	111	100	88	93	94	94	93	96	132	133
Deauville	238	210	198	181	164	163	160	127	114	103	89	90	89	87	87	89	124	126
Le Havre	239	210	197	180	164	162	165	125	112	98	84	84	83	82	82	83	119	120
Fécamp	246	218	206	188	173	169	165	127	111	98	81	72	69	66	63	63	98	98
Dieppe	273	243	231	214	200	194	191	151	133	121	97	86	76	72	67	62	78	80
Boulogne	294	264	247	231	216	204	202	161	143	132	101	86	77	73	65	54	28	28
Calais	307	276	261	244	229	218	214	174	155	143	114	99	91	86	78	64	29	24

NOTES

1. This Table applies to Areas 1–3, and 14–16, each of which also contains its own internal Distance Table. Approximate distances in nautical miles are by the most direct route, while avoiding dangers and allowing for Traffic Separation Schemes.
2. For ports within the Solent, add the appropriate distances given in Area 2 to those shown above under either Needles Lighthouse or Nab Tower.

AREA 1 South West England - Isles of Scilly to Anvil Point

SELECTED LIGHTS, BUOYS & WAYPOINTS

ISLES OF SCILLY TO LAND'S END

Bishop Rock ☆ Fl (2) 15s 44m **20M**; part obsc 204°-211°, obsc 211°-233° and 236°-259°; Gy ○ twr with helo platform; *Racon T, 18M, 254°-215°*; 49°52'·37N 06°26'·74W; [992351137](#).

Round Rk ⚓ 49°53'·10N 06°25'·19W.

Old Wreck ⚓ VQ; 49°54'·26N 06°22'·81W.

ST AGNES and ST MARY'S

Peninnis Hd ☆ Fl 20s 36m 9M; 231°-117° but part obsc 048°-083° within 5M; W ○ twr on B frame, B cupola; 49°54'·28N 06°18'·21W.

Gugh Q Fl (5) Y 20s; 49°53'·52N 06°18'·73W.

Spanish Ledge ⚓ Q (3) 10s; *Bell*; 49°53'·94N 06°18'·86W.

Woolpack ⚓ Fl G 5s; 49°54'·40N 06°19'·37W.

Bartholomew Ledges ⚓ QR 12m; 49°54'·37N 06°19'·89W.

Ldg lts 097·3°: Front, Iso RW (vert) 2s; W △, 49°55'·12N 06°18'·50W. Rear, Oc WR (vert) 10s; Or X on W bcn.

Hats ⚓ VQ (6) + L Fl 10s; 49°56'·21N 06°17'·14W.

AROUND TESCO, BRYHER and ST MARTIN'S

Bryher, Bar ⚓ Q (3) 10s, 49°57'·37N 06°20'·84W.

Bryher, Church Quay ⚓ Q (3) 10s, 49°57'·18N 06°20'·97W.

Spencers Ledge ⚓ Q (6) + L Fl 15s; 49°54'·78N 06°22'·06W.

Steeple Rock ⚓ Q (9) 15s; 49°55'·46N 06°24'·24W.

Round Island ☆ Fl 10s 55m **18M**, also shown in reduced vis; 021°-288°; W ○ twr; *Horn (4) 60s*; 49°58'·74N 06°19'·39W.

St Martin's, Higher Town quay ☆ Fl R 5s, 49°57'·45N 06°16'·84W.

SCILLY to LAND'S END

Seven Stones Lt V ⚓ Fl (3) 30s 12m **15M**; R hull; *Horn (3) 60s*; *Racon O, 15M*; 50°03'·63N 06°04'·32W; [992351023](#).

Wolf Rock ☆ Fl 15s 34m **16M**; H24; *Horn 30s*; *Racon T, 10M*; 49°56'·72N 05°48'·55W; [992351128](#).

Longships ☆ Fl (2) WR 10s 35m **W15M**, R11M; 189°-R-327°-W- 189°; also shown in reduced vis; Gy ○ twr with helicopter platform; *Horn 10s*; 50°04'·01N 05°44'·81W.

Carn Base ⚓ Q (9) 15s; 50°01'·48N 05°46'·18W.

Runnel Stone ⚓ Q (6) + L Fl 15s; *Bell*; 50°01'·18N 05°40'·36W.

LAND'S END TO PLYMOUTH

Tater-du ☆ Fl (3) 15s 34m 12M; 241°-072°; W ○ twr. FR 31m 9M, 060°-072° over Runnel Stone; 50°03'·14N 05°34'·67W.

NEWLYN

Low Lee ⚓ Q (3) 10s; 50°05'·56N 05°31'·38W.

S Pier ☆ Fl 5s 10m 9M; W ○ twr; 253°-336°; 50°06'·18N 05°32'·57W.

N Pier ☆ FWG 4m 2M; 238°-G-248°; 50°06'·18N 05°32'·62W.

PENZANCE

S Pier ☆ Fl WR 5s 11m **W17M**, R12M; 159°-R (unintens)-224°-R-268°-W-344·5°-R-shore; 50°07'·06N 05°31'·68W.

Mountamopus ⚓ Q (6) + L Fl 15s; 50°04'·62N 05°26'·25W.

Lizard ☆ Fl 3s 70m **26M**; 250°-120°, partly visible 235°-250°; W 8-sided twr; *Horn 30s*; 49°57'·61N 05°12'·13W.

Manacle ⚓ Q (3) 10s; *Bell*; 50°02'·81N 05°01'·91W.

FALMOUTH

St Anthony Head ☆ Iso WR 15s 22m, W12M, R9M, H24; 295°-W-004°-R (over Manacles)-022°-W-172°; W 8-sided twr; *Horn 30s*; 50°08'·46N 05°00'·96W.

Black Rock ⚓ Fl(2) 10s 3M; IDM B bn; 50°08'·72N 05°02'·00W.

St Mawes ⚓ Q (6) + L Fl 15s; 50°09'·10N 05°01'·42W.

The Governor ⚓ VQ (3) 5s; 50°09'·15N 05°02'·40W.

Dock Basin Dir ☆ 266°: WRG 2s 15m, 10M; 258°-Iso G-262°-Al WG-264°-Iso W-268°-Al WR-270°-Iso R-274°; 50°09'·38N 05°03'·29W.

N Arm ☆ QR 5m 3M; 50°09'·42N 05°03'·20W.

Inner Hbr Dir ☆ 233°: WRG 3s 5m, 9M; 226°-Iso G-231°-Iso W-236°-Iso R-241°; 50°09'·20N 05°03'·94W.

Falmouth Haven Marina ☆ 2 FR (vert); 50°09'·27N 05°03'·91W.

Falmouth Marina ⚓ VQ (3) 5s; 50°09'·91N 05°04'·99W.

DODMAN POINT and MEVAGISSEY

Naval gunnery targets SSE of Dodman Point:

'A' ⚓ Fl Y 10s; 50°08'·53N 04°46'·37W.

'B' ⚓ Fl Y 5s; 50°10'·30N 04°45'·00W.

'C' ⚓ Fl Y 2s; 50°10'·40N 04°47'·51W.

Gwineas ⚓ Q (3) 10s; *Bell*; 50°14'·48N 04°45'·40W.

Mevagissey, Victoria Pier ☆ Fl (2) 10s 9m 12M; *Dia 30s*; 50°16'·15N 04°46'·92W.

FOWEY

Cannis Rock ⚓ Q (6) + L Fl 15s; *Bell*; 50°18'·45N 04°39'·88W.

Fowey ☆ L Fl WR 5s 28m W11M, R9M; 284°-R-295°-W-028°-R-054°; W 8-sided twr, R lantern; 50°19'·63N 04°38'·83W.

St Catherine's Pt ☆ Fl R 2·5s 15m 2M; vis 150°-295°; 50°19'·69N 04°38'·66W.

Whitehouse Pt ☆ Iso WRG 3s 11m W11M, R/G8M; 017°-G-022°-W-032°-R-037°; R col; 50°19'·98N 04°38'·28W.

POLPERRO, LOOE, EDDYSTONE and WHITSAND BAY

Udder Rock ⚓ VQ (6) + L Fl 10s; *Bell*; 50°18'·93N 04°33'·85W.

POLPERRO, W pier ☆ FW 4m 4M; FR when hbr closed in bad weather; 50°19'·86N 04°30'·96W.

Spy House Pt ☆ Iso WR 6s 30m 7M; W288°-060°, R060°-288°; 50°19'·81N 04°30'·69W.

LOOE, Ranneys ⚓ Q (6) + L Fl 15s; 50°19'·85N 04°26'·37W.

Mid Main ⚓ Q (3) 10s 2M; 50°20'·56N 04°26'·94W.

Banjo Pier ☆ Oc WR 3s 8m **W15M**, R12M; 207°-R267°-W-313°-R-332°; 50°21'·06N 04°27'·06W.

White Rock ☆ Fl R 3s 5m 2M; 50°21'·03N 04°27'·09W.

Eddystone ☆ Fl (2) 10s 41m **17M**. Same twr, Iso R 10s 28m 8M; vis 110°-133° over Hand Deepes; Gy twr, helicopter platform; *Horn 30s*; *Racon T, 10M*; 50°10'·84N 04°15'·94W; [992351125](#).

Hand Deepes ⚓ Q (9) 15s; 50°12'·68N 04°21'·10W.

PLYMOUTH

PLYMOUTH SOUND, WESTERN CHANNEL

Plymouth bkwr W head, ☆ Fl WR 10s 19m W12M, R9M; 262°-W-208°-R-262°; W ○ twr. *Horn 15s*; 50°20'·07N 04°09'·52W.

Maker ✨ Fl (2) WRG 10s 29m, W11M, R/G6M; 270°-G330°-W-004°-R-050°; W twr, R stripe; 50°20'·51N 04°10'·87W.

PLYMOUTH SOUND, EASTERN CHANNEL

Wembury Pt ✨ Oc Y 10s 45m; occas; 50°19'·01N 04°06'·63W.
West Tinker ✨ VQ (9) 10s; 50°19'·25N 04°08'·64W.

East Tinker ✨ Q (3) 10s; 50°19'·20N 04°08'·30W.

The Breakwater, E head ✨ L Fl WR 10s 9m W8M, R6M; 190°-R-353°-W-001°-R-018°-W-190°; 50°20'·01N 04°08'·24W.
Withyhedger Dir ✨ 070° (for W Chan): WRG 13m W13M, R/G5M; H24; 060°-FG-065°-Al WG (W phase inc with brg) -069°-FW-071°-Al WR (R phase inc with brg) -075°-F R-080°; W ▽, orange stripe on col. Same col, Fl (2) Bu 5s; vis 120°-160°; 50°20'·75N 04°07'·44W.

SMEATON PASS (W of Mount Batten and S of The Hoe)

W △, Or bands; 233°-G-043°-R-067°-G-087°-W-099°-R-108°; 50°21'·60N 04°08'·33W. Fog Lt Fl 5s 232°-Fl W-110°. Rear mark: W Hoe Dir ✨ WRG 315·5° W13 R/G5M, 309°-FG-311°-Al WG (W phase inc with brg) -314°-FW-317°-Al WR (R phase inc with brg) -320°-FR-329°; H24; Or ▽; Fog Lt 232°-W-110°. 50°21'·81N 04°08'·39W.

S Mallard ✨ VQ (6) + L Fl 10s; 50°21'·51N 04°08'·30W.

S Winter ✨ Q (6) + L Fl 15s; 50°21'·40N 04°08'·55W.

NW Winter ✨ VQ (9) 10s; 50°21'·55N 04°08'·70W.

ENTRANCE TO THE CATTEWATER

QAB (Queen Anne's Battery) ldg lts ✨ 048·5°. Front, FR; Or/W bcn; 50°21'·84N 04°07'·84W. Rear, Oc R 8s 14m 3M; 139m NE.

Fishers Nose ✨ Fl (3) R 10s 6m 4M; 50°21'·80N 04°08'·01W. Also F Bu ≠ 026·5° with F Bu 50°22'·00N 04°07'·86W, for Cobbler Chan.

DRAKE CHANNEL, THE BRIDGE and THE NARROWS

Ravenness Dir ✨ 225°: WRG 11m, W13M, R/G5M; vis 217°-FG-221°-Al WG-224° (W phase inc with brg) -FW-226°-Al WR-229° (R phase inc with bearing) -FR-237°; H24; W ▽, Or stripe col; Fog Lt, 160°-FW-305°; 50°21'·14N 04°10'·07W.

The Bridge Channel

Mount Wise, Dir ✨ 343°: WRG 7m, W13M, R/G5M; 331°-FG-338° Al WG (W phase inc with brg) 342°-FW-344°-Al WR (R phase inc with bearing) 348°-FR-351°; H24; Fog Lt, 341·5°-FW-344·5°; 50°21'·96N 04°10'·33W.

Ocean Court Dir ✨ Q WRG 15m, W11M, R/G3M; 010°-G-080°-W-090°-R-100°; 50°21'·85N 04°10'·11W; 992351357.

PLYMOUTH TO START POINT

SALCOMBE

Sandhill Pt Dir ✨ 000°: Fl WRG 2s 27m WR/G 8M; 337·5°-G-357·5°-W-002·5°-R-012·5°; R/W ◇ on W mast, rear daymark; 50°13'·77N 03°46'·67W. Front daymark, Pound Stone R/W ▽. ldg lts 042·5°, front Fl 2s 5m 8M, 50°14'·53N 03°45'·31W; rear Fl 5s 45m 8M.

Start Pt ✨ Fl (3) 10s 62m 18M; 184°-068°. Same twr: FR 55m 9M; 210°-255° over Skerries Bank; Horn 30s; 50°13'·34N 03°38'·54W.

START POINT TO PORTLAND BILL

DARTMOUTH

Kingswear Dir ✨ 328°: Iso WRG 3s 9m 8M; 318°-G-325°-

W-331°-R-340°; W ○ twr; 50°20'·81N 03°34'·09W.

Mewstone ✨ VQ (6) + L Fl 10s; 50°19'·92N 03°31'·89W.

West Rock ✨ Q (6) + L Fl 15s; 50°19'·86N 03°32'·47W.

Dir ✨ 104·5°: F WRG 5m 9M; vis 090°-G-102°-W-107°-R-115°; 50°20'·65N 03°33'·80W.

BRIXHAM

Berry Head ✨ Fl (2) 15s 58m 18M; vis 100°-023°; W twr; 50°23'·98N 03°29'·01W. R lts on radio mast 5·7M NW, inland of Paignton.

Victoria bkwr ✨ Oc R 15s 9m 6M; W twr; 50°24'·33N 03°30'·78W.

PAIGNTON and TORQUAY

Haldon Pier (E) ✨ QG 9m 6M; 50°27'·43N 03°31'·73W.

Princess Pier (W) ✨ QR 9m 6M; 50°27'·46N 03°31'·73W.

RIVER EXE to SIDMOUTH and AXMOUTH

Exe ♁ Mo(A) 10s; 50°35'·90N 03°23'·46W.

Exmouth Dir ✨ 305°: WRG 6m, 6M; 299°-Iso G-304°-Iso W-306°-Iso R-311°; W col, 50°36'·99N 03°25'·34W.

Sidmouth ✨ Fl R 5s 5m 2M; 50°40'·48N 03°14'·43W.

Axmouth jetty ✨ Fl G 4s 7m 2M; 50°42'·12N 03°03'·29W.

LYME REGIS

Outfall ✨ Q (6) + L Fl 15s; 50°43'·17N 02°55'·66W.

ldg lts 284°: Front, Victoria Pier ✨ Oc WR 8s 6m, W9M, R7M; 284°-R-104°-W-284°; Bu col; 50°43'·19N 02°56'·17W. Rear, FG 8m 9M.

WEST BAY (BRIDPORT)

W pier root, Dir ✨ 336°: F WRG 5m 4M; 165°-G-331°-W-341°-R-165°; 50°42'·62N 02°45'·89W.

W pier outer limit ✨ Iso R 2s 5m 4M; 50°42'·51N 02°45'·83W.

E pier outer limit ✨ Iso G 2s 5m 4M; 50°42'·53N 02°45'·80W.

PORTLAND BILL TO ANVIL POINT

Portland Bill lt ho ✨ Fl (4) 20s 43m 18M. vis 221°-141°. W ○ twr; Dia 30s; 50°30'·85N 02°27'·38W. Same twr, FR 19m 13M; 265°-291° over Shambles.

W Shambles ✨ Q (9) 15s; Bell; 50°29'·78N 02°24'·41W.

E Shambles ✨ Q (3) 10s; Bell; 50°31'·26N 02°20'·08W.

PORTLAND HARBOUR

Outer Bkwr Fort Head (N end) ✨ QR 14m 5M; 013°-268°; 50°35'·11N 02°24'·87W.

NE Bkwr (A Hd) ✨ Fl 2·5s 22m 10M; 50°35'·16N 02°25'·07W.

NE Bkwr (B Hd) ✨ Oc R 15s 11m 5M; 50°35'·65N 02°25'·88W.

N Arm (C Hd) ✨ Oc G 10s 11m 5M; 50°35'·78N 02°25'·95W.

WEYMOUTH


ldg lts 239·6°: both FR 5/7m 7M; Front 50°36'·46N 02°26'·87W, S Pier hd ✨ Q 10m 9M; 50°36'·58N 02°26'·49W. IPTS 190m SW.


LULWORTH RANGE TO ANVIL POINT


Anvil Pt ✨ Fl 10s 45m 9M; vis 237°-076° (H24); W ○ twr and dwelling; 50°35'·51N 01°57'·60W. Measured mile close west.


NAVIGATION


EASTERN APPROACHES to THE SOLENT


Outer Nab 1  VQ (9) 10s; 50°38'·18N 00°56'·88W.


Outer Nab 2  VQ (3) 5s; 50°38'·43N 00°57'·70W.

Nab Tower  Fl 10s 17m 12M; *Horn (2) 30s*; *RACON T*; 50°40'·08N 00°57'·15W; [992351136](#).



New Grounds  VQ (3) 5s; 50°41'·84N 00°58'·49W.

Dean Tail S  VQ (6) + L Fl 10s; 50°43'·04N 00°59'·58W.

Dean Tail N  Q; 50°43'·13N 00°59'·57W.


Cambrian Wreck  Q 50°44'·43N 01°03'·43W.

BEMBRIDGE


St Helen's Fort  (IOW) Fl (3) 10s 16m 5M; large  stone structure; 50°42'·30N 01°05'·05W.


SOUTH EAST COAST of the ISLE OF WIGHT

St Catherine's Point  50°34'·54N 01°17'·87W; Fl 5s 41m **18M**; vis: 257°-117°; FR 35m 13M (same Twr) vis: 099°-116°.


Ventnor Haven W Bwtr  2 FR (vert) 3M; 50°35'·50N 01°12'·30W.


Sandown Pier Hd  2 FR (vert) 7m 2M; 50°39'·05N 01°09'·18W.


W Princessa  Q (9) 15s; 50°40'·16N 01°03'·65W.


Bembridge Ledge  Q (3) 10s; 50°41'·15N 01°02'·81W

LANGSTONE and APPROACHES

Eastney Pt Fraser Trials Range  FR, Oc (2) Y 10s, and FY Lts (occas) when firing taking place; 50°47'·19N 01°02'·22W.

Winner  Q; 50°45'·10N 01°00'·10W.


Roway Wk  Q (2) 5s; 50°46'·11N 01°02'·28W.


Eastney Pt Outfall  QR 2m 2M; 50°47'·23N 01°01'·68W.

CHICHESTER ENTRANCE


West Pole (tripod)  Fl R 5s 14m 7M; 50°45'·45N 00°56'·59W.

EMSWORTH CHANNEL

Fishery  Q (6) + L Fl 15s; 50°47'·38N 00°56'·07W.

Emsworth  Q (6) + L Fl 15s; tide gauge; 50°49'·66N 00°56'·76W.

THORNEY CHANNEL


Camber  Q (6) + L Fl 15s; 50°47'·87N 00°54'·06W.


AREA 3 South East England – Selsey Bill to North Foreland


SELECTED LIGHTS, BUOYS & WAYPOINTS


OWERS TO BEACHY HEAD

SELSEY BILL and THE OWERS

S Pullar  VQ (6) + L Fl 10s; 50°38'·84N 00°49'·29W.


Pullar  Q (9) 15s; 50°40'·47N 00°50'·09W.


Mixon Bn  Q (6) + L Fl 15s; 50°42'·37N 00°46'·32E.

Owers  Q (6) + L Fl 15s; *Bell*; *Racon (O) 10M*; 50°38'·59N 00°41'·09W.

E Borough Hd  Q (3) 10s *Bell*; 50°41'·54N 00°39'·09W.


LITTLEHAMPTON

Ldg lts 346°. Front, E Pier Hd  FG 6m 7M; B col. Rear, 64m from front, Oc W 7·5s 9m 10M; W twr; vis: 290°-W-042°; 50°48'·09N 00°32'·51W.


Littlehampton  Fl (5) Y 20s 9m 5M; 50°46'·19N 00°29'·54W.


WORTHING and SHOREHAM

Met Mast  Fl Y 5s 12m 2M; 50°41'·29N 00°20'·59W.



W Bwtr Head  Fl R 5s 7m 7M; 50°49'·49N 00°14'·89W.


Ldg Lts 355°. Middle Pier Front, Oc 5s 8m 10M; W watch-house, R base; tidal Lts, tfc sigs; *Horn 20s*. Rear, 192m from front, Fl 10s 12m 10M; Gy twr vis: 283°-103°; 50°49'·85N 00°14'·89W.

Outfall  Q 50°49'·47N 00°14'·39W.

Shoreham Outfall  Q (6) + L Fl 15s; 50°47'·88N 00°13'·72W.


BRIGHTON and BRIGHTON MARINA

W Bwtr Hd  QR 10m 7M; W  structure, R bands; *Horn (2) 30s*; 50°48'·50N 00°06'·38W.


E Bwtr Hd  QG 8m 7M.


NEWHAVEN


Bwtr Head  Iso 4s 17m 12M; 50°46'·56N 00°03'·50E.

E Pier Hd  Iso G 10s 12m 6M; W twr; 50°46'·81N 00°03'·59E.

OFFSHORE MARKS


CS 1  Fl Y 2·5s; *Whis*; 50°33'·69N 00°03'·92W.


GREENWICH  50°24'·54N 00°00'·10E; Fl 5s 12m **15M**; Riding light FW; R hull; *Racon (M) 10M*; *Horn 30s*; [992351032](#).

CS 2  Fl Y 5s; 50°39'·14N 00°32'·60E.


CS 3  Fl Y 10s; 50°52'·04N 01°02'·18E.


BEACHY HEAD TO DUNGENESS

Beachy Head  50°44'·03N 00°14'·49E; Fl (2) 20s 31m **16M**; W round twr, R band and lantern; vis: 248°-101°; (H24).

Royal Sovereign  Q (6) + L Fl 15s; 50°43'·26N 00°26'·18E, *Racon (T) 10M*; *ALS*; (plus 3 other cardinals bounding shoal).

EASTBOURNE and SOVEREIGN HARBOUR

SH  L Fl 10s; 50°47'·40N 00°20'·71E.

Martello Tower  Fl (3) 15s 12m 7M.; 50°47'·24N 00°19'·83E.

Dir It 258° Fl WRG 5s 4m 1M; vis: 254°-G-257°-W-259°-R-262°; 50°47'·28N 00°19'·71E.

S Bwtr Hd  Fl (4) R 12s 3m 6M; 50°47'·30N 00°20'·03E.


St Leonard's Outfall  Fl Y 5s; 50°49'·31N 00°31'·95E.



HASTINGS

Ldg Lts 356·3°. Front, FR 14m 4M; 50°51'·29N 00°35'·38E. Rear, West Hill, 357m from front, FR 55m 4M; W twr.



RYE

Rye Fairway, L Fl 10s; 50°54'·04N 00°48'·04E.

W Groyne Hd No 2  LFl R 7s 7m 6M; 50°55'·58N 00°46'·55E; [992351156](#).

E Arm Hd No 1  Q (9) 15s 7m 5M; G ; *Horn 7s*; 50°55'·73N 00°46'·46E.

Dungeness Outfall  Q (6) + L Fl 15s; 50°54'·45N 00°58'·21E.

Dungeness  50°54'·81N 00°58'·56E; Fl 10s 40m **21M**; B  twr, W bands and lantern, floodlit; Part obsc 078°-shore; (H24). FR G 37m 10M (same twr); vis: 057°-R-073°-G-078°-196°-R-216°; *Horn (1) 30s*; FR Lts shown between 2·4M

and 5-2M WNW when firing taking place. QR on radio mast 1-2M NW.

DUNGENESS TO NORTH FORELAND

FOLKESTONE

Hythe Flats Outfall Q Fl Y 5s; 51°02'·52N 01°05'·32E.

Breakwater Head ☆ Fl (2) 10s 14m **22M**; vis: 210°-W-090°; 51°04'·56N 01°11'·69E.

DOVER

Admiralty Pier Extension Head ☆ 51°06'·69N 01°19'·66E; Fl 7-5s 21m **20M**; W twr; vis: 096°-090°, obsc in The Downs by S Foreland inshore of 226°; *Horn 10s*; Int Port Tfc sigs. **S Bwtr W Hd** ☆ 51°06'·78N 01°19'·80E; Oc R 30s 21m **18M**; W twr.

Knuckle ☆ 51°07'·04N 01°20'·49E; Fl (4) WR 10s 15m **W15M**, R13M; W twr; vis: 059°-R-239°-W-059°.

N Head ☆ Fl R 2-5s 11m 5M; 51°07'·20N 01°20'·61E.

Eastern Arm Hd ☆ Fl G 5s 12m 5M; *Horn(2)30s*; Int port t fcsigs; 51°07'·31N 01°20'·59E.

DOVER STRAIT

Bullock Bank Q VQ; 50°46'·94N 01°07'·60E.

Ridens SE Q (3) 5s; 50°43'·47N 01°18'·87E.

Colbart SW Q (6) + L Fl 10s; 50°48'·86N 01°16'·30E.

South Varne Q (6) + L Fl 15s; 50°55'·64N 01°17'·30E.

Mid Varne VQ(9)10s; 50°58'·94N 01°19'·88E.

East Varne VQ(3)5s; 50°58'·22N 01°20'·90E.

Colbart N VQ; 50°57'·45N 01°23'·29E.

Varne NW Q; 51°00'·80N 01°22'·70E.

Varne NE Q (3) 10s; 50°59'·80N 01°22'·70E.

VARNE ⚓ 51°01'·29N 01°23'·90E; Fl R 5s 12m **15M**; *Racon (T) 10M*; *Horn 30s*; **992351038**.

CS 4 Fl (4) Y 15s; 51°08'·62N 01°33'·92E.

MPC Fl Y 2-5s; *Racon (O) 10M*; 51°06'·12N 01°38'·20E; **992351122**.

SW Goodwin Q (6) + L Fl 15s; 51°08'·50N 01°28'·88E; **992351036**.

E GOODWIN ⚓ 51°13'·26N 01°36'·37E; Fl 15s 12m **23M**; R hull with lt twr amidships; *Racon (T) 10M*; *Horn 30s*; **992351035**.

E Goodwin Q (3) 10s; 51°15'·67N 01°35'·69E.

NE Goodwin Q(3) 10s; *Racon (M) 10M*. 51°20'·31N 01°34'·16E.

DEAL and THE DOWNS

Trinity Bay VQ(9) 10s; 51°11'·60N 01°29'·00E.

Goodwin Fork Q(6) + L Fl 15s; *Bell*; 51°14'·38N 01°26'·70E.

GULL STREAM

NW Goodwin Q (9) 15s; 51°16'·72N 01°28'·47E.

Gull VQ (3) 5s; 51°19'·57N 01°31'·30E.

RAMSGATE CHANNEL

W Quern Q (9) 15s; 51°18'·98N 01°25'·39E.

RAMSGATE

RA Q(6) + L Fl 15s; 51°19'·60N 01°30'·13E.

Quern Q; 51°19'·41N 01°26'·11E.

No 5 Q (6) + L Fl 15s; 51°19'·56N 01°25'·91E.

No 6 Q (2) R 5s; 51°19'·46N 01°25'·91E.

South Bwtr Hd VQ R 10m 5M; 51°19'·46N 01°25'·41E.

N Bwtr Hd QG 10m 5M; 51°19'·56N 01°25'·47E.

W Marine Terminal Dir It 270°, Oc WRG 10s 10m 5M; B

△ Or stripe; vis: 259°-G-269°-W-271°-R-281°; 51°19'·51N 01°24'·85E. Rear 493m fm front Oc 5s 17m 5M; B ▽ Or stripe; vis: 263°-278°.

BROADSTAIRS and NORTH FORELAND

Pier SE End ☆ 2 FR (vert) 7m 4M; 51°21'·50N 01°26'·74E.

Elbow Q; 51°23'·23N 01°31'·59E.

North Foreland ☆ 51°22'·49N 01°26'·70E; Fl (5) WR 20s 57m **W19M**, **R16M**, **R15M**; W 8-sided twr; vis: shore-W-150°-R(16M)-181°-R(15M)-200°-W-011°; H24; **992351020**.

OFFSHORE MARKS

SANDETTIE ⚓ 51°09'·36N 01°47'·12E; Fl 5s 12m **15M**; R hull with lt twr amidships; *Racon*; *Horn 30s*; **992351029**.

F1 Fl (4) Y 15s; 51°11'·21N 01°44'·91E.

South Falls Q (6) + L Fl 15s; 51°13'·84N 01°43'·93E.

Sandettie W Fl (3) G 12s; 51°15'·09N 01°54'·47E.

Mid Falls Fl (3) R 10s; 51°18'·63N 01°46'·99E.

Inter Bank Fl Y 5s; *Bell*; *Racon (M) 10M*; 51°16'·47N 01°25'·23E. F2 Fl (4) Y 15s; 51°20'·41N 01°56'·19E.

1	Nab Tower	1																		
2	Boulder Lt Buoy	5	2																	
3	Owers Lt Buoy	10	6	3																
4	Littlehampton	19	13	12	4															
5	Shoreham	32	24	21	13	5														
6	Brighton	35	28	24	17	5	6													
7	Newhaven	40	34	29	24	12	7	7												
8	Beachy Head Lt	46	41	36	30	20	14	8	8											
9	Eastbourne	51	45	40	34	24	19	12	7	9										
10	Rye	72	67	62	56	46	41	34	25	23	10									
11	Dungeness Lt	76	71	66	60	50	44	38	30	26	9	11								
12	Folkestone	92	84	81	76	65	60	53	43	40	23	13	12							
13	Dover	97	89	86	81	70	65	58	48	45	28	18	5	13						
14	Ramsgate	112	104	101	96	85	80	73	63	60	43	33	20	15	14					
15	N Foreland Lt	115	107	104	99	88	83	76	66	63	46	36	23	18	3	15				
16	Sheerness	146	139	135	132	119	114	107	97	96	79	67	54	49	34	31	16			
17	London Bridge	188	184	177	177	161	156	149	139	141	124	109	96	91	76	73	45	17		

DISTANCE TABLES

Approx distances in nautical miles are by the most direct route allowing for dangers and TSS.

AREA 4 East England – North Foreland to Berwick-upon-Tweed

SELECTED LIGHTS, BUOYS & WAYPOINTS

THAMES ESTUARY – SOUTHERN

(Direction of buoyage generally East to West)

APPROACHES to THAMES ESTUARY

Foxtrot 3 51°24'·15N 02°00'·38E; Fl 10s 12m **15M**;

Racon (T) 10M; Horn 10s; [992351033](#).

Falls Hd Q; 51°28'·23N 01°49'·89E.

Drill Stone Q (3) 10s; 51°25'·88N 01°42'·89E.

Thanet N VQ 15s; 51°28'·28N 01°38'·06E.

NE Spit VQ (3) **Racon (T) 10M**; 51°27'·93N 01°29'·89E;

[992351037](#)

Elbow Q; 51°23'·23N 01°31'·59E.

MARGATE and GORE CHANNEL

SE Margate Q (3) 10s; 51°24'·05N 01°20'·40E.

HERNE BAY

Landing Stage Q 18m 4M, (isolated); 51°22'·91N 01°06'·89E.

N Pier Hd 2 FR (vert); 51°22'·43N 01°07'·27E.

WHITSTABLE

W Quay Dn Fl G 5s 2m.

THE SWALE

Queenborough Spit Q (3) 10s; 51°25'·81N 00°43'·93E.

QUEENS CHANNEL and FOUR FATHOMS CHANNEL

Spaniard Q (3) 10s; 51°26'·23N 01°04'·00E.

PRINCES CHANNEL

Tongue Sand E VQ (3) 5s; 51°29'·48N 01°22'·21E.

Tongue Sand N Q; 51°29'·68N 01°22'·03E.

Princes Outer VQ (6) + L Fl 10s; 51°28'·79N 01°19'·87E.

Princes Mid Fl Y 5s; 51°29'·19N 01°09'·00E.

Shivering Sand Twr N Q; 51°30'·01N 01°04'·76E.

Shivering Sand Twr S Q (6)+L Fl 15s; *Bell*; 51°29'·75N

01°04'·83E.

Princes Inner Fl Y 2-5s; 51°29'·59N 01°03'·47E.

FOULGER'S GAT and KNOB CHANNEL

N Edinburgh Channel is not buoyed. Foulger's Gat, lies within the boundary of the London Array Wind Farm.

Long Sand Outer Iso 2s; 51°34'·61N 01°28'·34E.

Long Sand Middle Iso 5s; 51°35'·60N 01°26'·45E.

Long Sand Inner Iso 2s; 51°38'·78N 01°25'·44E.

Knob Iso 5s; *Whis*; 51°30'·69N 01°04'·28E.

OAZE DEEP

Oaze Fl (4) Y 10s; 51°29'·06N 00°56'·93E.

W Oaze Iso 5s; 51°29'·06N 00°55'·43E.

MEDWAY, SHEERNESS

Medway Mo (A) 6s; 51°28'·83N 00°52'·81E.

No 2 Q; 51°28'·33N 00°50'·52E.

Isle of Grain Q 20m 13M; RW on R twr; 51°26'·70N 00°43'·38E.

Queenborough Spit Q (3) 10s; 51°25'·81N 00°43'·93E.

RIVER THAMES

SEA REACH, NORE and YANTLET

Sea Reach 1 (N) Fl Y 2-5s; **Racon (T) 10M**; 51°29'·59N 00°52'·71E.

Sea Reach 7 (N) Fl Y 2-5s; 51°30'·21N 00°36'·94E.

East Blyth Q; 51°29'·73N 00°37'·81E.

Mid Blyth Q; 51°30'·08N 00°32'·38E.

LEIGH-ON-SEA and SOUTHEND-ON-SEA

Southeast Pier E End 2 FG (vert) 7m; *Horn Mo (N) 30s, Bell (1)*.

LOWER HOPE REACH

Tilbury Q(6) + L Fl 15s; 51°27'·16N 00°25'·50E.

GRAVESEND

Shornmead Fl (2) WR 10s 12m, W11/7M, R11M; vis 070°-W-084°-R(Intens)-089°-W(Intens)-094°-W-250°; 51°26'·92N 00°26'·24E.

Northfleet Upper Oc WRG 10s 30m W10M, R7M, G7M; vis:126°-R-149°-W-159°-G-268°-W-279°; 51°26'·93N 00°20'·06E.

THAMES TIDAL BARRIER

Spans B, C, D, E, F, G are navigable. Spans C – F are for large ships. Eastbound small craft/yachts use Span B (51°29'·73N 00°02'·23E) Westbound small craft/yachts use Span G (51°29'·91N 00°02'·21E). **Red X** indicates span closed **Green** → indicates span open. W lights show either side of open spans in poor visibility.

KENTISH KNOCK

Kentish Knock Q (3) 10s; 51°38'·08N 01°40'·43E.

S Knock Q (6) + L Fl 15s; *Bell*; 51°34'·13N 01°34'·29E.

KNOCK JOHN CHANNEL

No 3 Q (6) + L Fl 15s; 51°33'·29N 01°09'·83E.

BLACK DEEP

No 9 Q (6) + L Fl 15s; 51°35'·13N 01°15'·09E.

No 8 Q (9) 15s; 51°36'·36N 01°20'·43E.

No 6 Fl R 2-5s; 51°38'·53N 01°24'·40E.

No 5 VQ (3) 5s; 51°39'·53N 01°23'·00E.

SHM Fl Y 2-5s; **Racon (T) 10M**; 51°29'·59N 00°52'·71E.

SUNK

Sunk Head Tower Q; *Bell*; 51°46'·63N 01°30'·51E.

Long Sand Head VQ; *Bell*; 51°48'·12N 01°39'·39E.

Sunk Centre Mo (A) 15s, **Racon C 10M** 51°50'·10N 01°46'·02E; [992351034](#).

Dynamo Fl Y 2-5s; 51°29'·59N 00°52'·71E.

Trinity Q (6) + L Fl 15s; 51°49'·03N 01°36'·39E.

SUNK INNER 51°51'·17N 01°34'·40E; Fl(5) 15s 11m 12M; **Racon (C) 10M**; *Horn 30s*; [992351027](#).

FISHERMANS GAT

Outer Fisherman Q (3) 10s; 51°34'·02N 01°25'·10E.

BARROW DEEP

SW Barrow Q(9) 15s; 51°31'·95N 00°59'·90E.

Alice Wk Fl (2) 5s; 51°32'·33N 01°04'·22E.

Barrow No 9 VQ (3) 5s; 51°35'·34N 01°10'·30E.

Barrow No 8 Fl (2) R 5s; 51°35'·05N 01°11'·36E.

Barrow No 7 Fl G 2-5s; 51°37'·49N 01°13'·47E.



Barrow No 6 Fl (4) R 15s; 51°37'·30N 01°14'·68E.

Barrow No 4 VQ (9) 10s; 51°39'·88N 01°17'·48E.













Barrow No 3 Q (3) 10s; **Racon (M) 10M**; 51°42'·02N 01°20'·24E.

EAST SWIN and KING'S CHANNEL





N Middle Q; 51°41'·35N 01°12'·61E.

W Sunk  Q (9) 15s; 51°44'·33N 01°25'·80E.
Gunfleet Spit  Q (6) + L Fl 15s; *Bell*; 51°45'·33N 01°21'·70E.

WHITAKER CHANNEL and RIVER CROUCH

Whitaker  Q (3) 10s; *Bell*; 51°41'·43N 01°10'·51E.
Inner Whitaker  VQ (6) + L Fl 10s; 51°40'·76N 01°08'·40E.
Swin Spitway  Iso 10s; *Bell*; 51°41'·95N 01°08'·35E.
Swallowtail 1  Fl Y 5s, 51°41'·38N 01°08'·20E.
Swallowtail 2  Fl Y 10s, 51°41'·19N 01°06'·28E.
Swallowtail 3  (2) Y 10s, 51°40'·52N 01°03'·47E.
Swallowtail  VQ (9) 10s, 51°39'·96N 01°02'·37E.
Sunken Buxey  VQ; 51°39'·59N 01°00'·77E.
Buxey No 1  VQ (6) + L Fl 10s; 51°39'·18N 01°01'·13E.
Buxey No 2  Q; 51°39'·08N 01°00'·23E.
Crouch  Q.FI, 51°37.650N 00°56.582E.
Inner Crouch  L Fl 10s, 51°37'·19N 00°55'·09E.
Branklet (RGR) *Pref Chan to Stbd*, Comp grp Fl (R) 2+1 10s, 51°36'·99N 00°52'·10E.



GOLDMER GAT and WALLET

NE Gunfleet  Q (3) 10s; 51°49'·93N 01°27'·79E.
Wallet Spitway  L Fl 10s; *Bell*; 51°42'·86N 01°07'·30E.
Knoll  Q; 51°43'·88N 01°05'·07E.
N Eagle  Q; 51°44'·71N 01°04'·32E.


RIVER BLACKWATER

The Nass  VQ (3) 5s 6m 2M; 51°45'·83N 00°54'·83E.

RIVER COLNE and BRIGHTLINGSEA

Ldg lts 041°. Front, FR 7m 4M; W  , R stripe on post; vis: 020°-080°; 51°48'·39N 01°01'·20E. Rear, 50m from front, FR 10m 4M; W  , R stripe on post. FR lts are shown on 7 masts between 1.5M and 3M NW when firing occurs.




WALTON BACKWATERS

Pye End  L Fl 10s; 51°55'·03N 01°17'·90E.
















HARWICH APPROACHES

(Direction of buoyage is North to South)

CORK SAND and ROUGH SHOALS


S Cork  Q (6) + L Fl 15s; 51°51'·33N 01°24'·09E.
SE Roughs Tower  Q (3) 10s; 51°53'·64N 01°28'·94E.
NW Roughs Tower  VQ (9) 10s; 51°53'·81N 01°28'·77E.

HARWICH CHANNEL

S Threshold  Fl (4) Y 10s; 51°52'·20N 01°33'·14E.
S Shipwash  2By(s) Q (6) + L Fl 15s; 51°52'·71N 01°33'·97E.
E Fort Massac  VQ (3) 5s; 51°53'·36N 01°32'·79E.
W Fort Massac  VQ (9) 10s; 51°53'·36N 01°32'·49E.
Walker  Q (9) 15s; 51°53'·79N 01°33'·90E.
N Threshold  Fl Y 5s; 51°54'·49N 01°33'·47E.
SW Shipwash  Fl Y 2.5s; 51°54'·75N 01°34'·21E.
Haven  Mo (A) 5s; 51°55'·74N 01°32'·54E.
Harwich App (HA)  Iso 5s; 51°56'·75N 01°30'·66E.
Cross  Fl (3) Y 10s; 51°56'·20N 01°30'·47E.
S Bawdsey  Q (6) + L Fl 15s; *Whis*; 51°57'·23N 01°30'·19E.
Platters  Q (6) + L Fl 15s; 51°55'·67N 01°20'·95E.
Cork Sand Yacht Bn  VQ 2M; 51°55'·21N 01°25'·20E.
Rough  VQ; 51°55'·19N 01°31'·00E.
Landguard  Q; 51°55'·44N 01°18'·82E.

RIVERS STOUR and ORWELL

RIVER STOUR and HARWICH


Shotley Spit  Q (6) + L Fl 15s; 51°57'·21N 01°17'·69E.

Shotley Marina Lock E side Dir It 339.5° 3m 1M (uses Moiré pattern); Or structure; 51°57'·46N 01°16'·60E.

RIVER ORWELL and IPSWICH

Suffolk Yacht Harbour. Ldg lts Front Iso Y 1M; 51°59'·73N 01°16'·09E. Rear Oc Y 4s 1M.





HARWICH TO ORFORD NESS

FELIXSTOWE, R DEBEN and WOODBRIDGE HAVEN
Woodbridge Haven  Mo(A) 15s; 51°58'·24N 01°23'·86E.




RIVERS ORE and ALDE

Orford Haven  L Fl 10s; *Bell*. 52°02'·00N 01°28'·20E.



OFFSHORE MARKS

S Galloper  Q (6) L Fl 15s; *Racon (T) 10M*; 51°43'·98N 01°56'·43E.
N Galloper  Q; 51°49'·84N 01°59'·99E.
N Inner Gabbard  Q (6) + L Fl 15s. 51°49'·92N 01°51'·89E.
N Inner Gabbard  Q; 51°59'·20N 01°56'·00E.

SHIPWASH and BAWDSEY BANK


E Shipwash  VQ (3) 5s; 51°57'·08N 01°37'·89E.
N Shipwash  Q 7M; *Racon (M) 10M*; *Bell*; 52°01'·73N 01°38'·27E; 992351069.
S Bawdsey  Q (6) + L Fl 15s; *Bell*; 51°57'·23N 01°30'·19E.

CUTLER and WHITING BANKS


SW Whiting  Q (6) + L Fl 10s; 52°00'·96N 01°30'·69E.
NE Whiting  Q (3) 10s; 52°03'·61N 01°33'·32E.

ORFORD NESS TO WINTERTON







(Direction of buoyage is South to North)

Orford Ness Lt Ho (dis) 52°05'·04N 01°34'·45E; W  twr; R bands.



SOUTHWOLD

Southwold  52°19'·63N 01°40'·89E; Fl 10s 37m **W24M**; vis 204°-W-032.5°, 992351019.





LOWESTOFT and APPR VIA STANFORD CHANNEL

E Barnard  Q (3) 10s; 52°25'·14N 01°46'·38E.
Newcome Sand  QR; 52°26'·33N 01°47'·16E.
S Holm  VQ (6) + L Fl 10s; 52°26'·63N 01°47'·11E.
Kirkley  Dir WRG 17m 10M, vis: 222°-OcG 10s -225°-FIG 2.5s-226°-FIW 2.5s-227°-OcW 10s-229°-FIW 2.5s-230°-FIR 2.5s-231°-OcR 10s-232°; 52°27'·71N 01°44'·54E.
Outer Hbr S Pier Hd  Oc R 5s 12m 6M; *Horn (4) 60s*; tfc sigs; 52°28'·29N 01°45'·36E.
Lowestoft  52°29'·22N 01°45'·35; Fl 15s 37m **23M**; W twr; part obscd 347°- shore.



LOWESTOFT NORTH ROAD and CORTON ROAD

Lowestoft Ness SE  Q (6) + L Fl 15s; 52°28'·84N 01°46'·25E.
Lowestoft Ness N  VQ (3) 5s; *Bell*; 52°28'·89N 01°46'·23E.

GREAT YARMOUTH APPROACH via HOLM CHANNEL

Holm Approach  Q (3) 10s; 52°30'·88N 01°50'·22E.
Holm Sand  Q (9) 15s; 52°33'·28N 01°46'·62E.
S Corton  Q (6) + L Fl 15s; *Bell*; 52°33'·37N 01°48'·41E.
N Holm  Q 52°33'·76N 01°47'·54E.

GREAT YARMOUTH and GORLESTON

Gorleston South Pier Hd  Fl R 3s 11m 11M; vis: 235°-340°; 52°34'·33N 01°44'·28E.
N Pier Hd  QG 8m 6M; vis: 176°-078°; *Horn (3) 60s*; 52°34'·38N 01°44'·38E.

NAVIGATION

Outer Hbr S Pier \star Q R 17m 3M; 52°34'·61N 01°44'·73E.
Outer Hbr N Pier \star Q G 17m 3M; 52°34'·70N 01°44'·74E.

GREAT YARMOUTH TO THE WASH

(Direction of buoyage  South to North)

YARMOUTH and CAISTER ROADS/COCKLE GATEWAY

N Scroby \star VQ; 52°41'·39N 01°46'·47E.
Cockle \star VQ (3) 5s; *Bell*; 52°44'·03N 01°43'·59E.

OFFSHORE ROUTE

Cross Sand \star L FI 10s 5M; *Racon (T) 10M*; 52°40'·33N 01°53'·70E.

Barley \star Q (6) + L FI 15s 6M; 52°38'·76N 01°52'·90E.
NE Cross Sand \star VQ (3) 5s; *Racon (M) 10M*; 52°44'·22N 01° 53'·80E; 992351264.

Smith's Knoll \star Q (6) + L FI 15s 7M; *Racon (T) 10M*; 52°43'·52N 02°17'·89E.

S Winterton Ridge \star Q (6) + L FI 15s; 52°47'·21N 02°03'·44E.

E Hammond Knoll \star Q (3) 10s; 52°52'·32N 01°58'·64E.

Hammond Knoll \star Q (9) 15s; 52°49'·68N 01°57'·54E.

S Haisbro \star Q (6) + L FI 15s; *Bell*; 52°50'·82N 01°48'·29E.

N Haisbro \star Q; *Racon (T) 10M*; 53°00'·22N 01°32'·29E; 992351031.

Happisburgh \star FI (3) 30s 41m 14M; 52°49'·21N 01°32'·18E.

(Direction of buoyage  East to West)

CROMER

Cromer \star 52°55'·45N 01°19'·01E; FI 5s 84m 21M; W 8-sided twr; vis: 102°-307° H24; *Racon (O) 25M*; 992351015.

E Sheringham \star Q (3) 10s; 53°02'·21N 01°14'·84E.

W Sheringham \star Q (9) 15s; 53°02'·95N 01°06'·72E.

BLAKENEY

Blakeney Fairway \star ; 52°59'·22N 00°58'·53E.

WELLS-NEXT-THE-SEA/BRANCASTER STAITHE

Wells WCM \star Q (9) 15s; 52°59'·68N 00°50'·24E.

APPROACHES TO THE WASH

S Race \star Q (6) + L FI 15s; *Bell*; 53°07'·81N 00°57'·34E.

N Docking \star Q; 53°14'·82N 00°41'·49E.

Scott Patch \star VQ (3) 5s; 53°11'·12N 00°36'·39E.

S Inner Dowsing \star Q (6) + L FI 15s; *Bell*; 53°12'·12N 00°33'·69E.

Boyring Tower \star FI (2) 10s 12m 5M; 53°17'·63N 00°19'·24E.

Burnham Flats \star Q (9) 15s; *Bell*; 53°07'·53N 00°34'·89E.

Lincs WF E \star Q (3) 10s; 53°07'·61N 00°31'·06E.

THE WASH

West Ridge \star Q (9) 15s; 53°19'·06N 00°44'·47E.

N Well \star L FI 10s; *Bell*; *Racon (T) 10M*; 53°03'·02N 00°27'·87E.

\star FI (2) 10s; 53°01'·53N 00°25'·63E.

Z9 \star FI (2) 6s; 52°59'·73N 00°22'·75E.

ROARING MIDDLE \star L FI 10s 7m 8M; 52°58'·64N 00°21'·08E.

KING'S LYNN

Line 1, No 1 \star FI Y 3s; 52°56'·00N 00°23'·00E.

WISBECH CHANNEL/RIVER NENE

W2 \star FI Y 6s; 52°54'·93N 00°16'·00E.

Nene Roads \star Mo(A) 6s; 52°53'·85N 01°15'·51E

East Knock \star VQ (3) 5s; 52°52'·14N 00°14'·69E.

Tide Gauge DZ6 \star ; 52°52'·57N 00°13'·10E.

Beacons are moved as required.

BOSTON, NEW CUT AND RIVER WITHAM

New Cut Ldg Lts 240°. Front, No 1, F 5m 5M; 52°55'·85N 00°04'·40E. Rear, 90m from front, F 8m 5M.

WELLAND CUT/RIVER WELLAND

SE side \star Iso R 2s; NW side Iso G 2s. Lts QR (to port) and QG (to stbd) mark the chan upstream; 52°55'·72E 00°04'·68E.

THE WASH TO THE RIVER HUMBER

(Direction of buoyage  South to North)

Dudgeon \star Q (9) 15s 7M; *Racon (O) 10M*; 53°16'·62N 01°16'·90E.

E Dudgeon \star Q (3) 10s; 53°19'·72N 00°58'·69E.

W Ridge \star Q (9) 15s; 53°19'·04N 00°44'·50E.

Inner Dowsing \star Q (3) 10s 7M, *Racon (T) 10M*; Horn 60s; 53°19'·10N 00°34'·80E.

N Outer Dowsing \star Q; 53°33'·52N 00°59'·59E; *Racon (T) 10M*; 992351031.

B.1D Platform Dowsing \star 53°33'·68N 00°52'·63E; FI (2) 10s 28m 22M; Morse (U) R 15s 28m 3M; *Horn (2) 60s*.

RIVER HUMBER APPROACHES

Outer Sand \star Q (3) 10s; 53°36'·41N 00°29'·39E; 992351119.

Haile Sand No 2 \star FI (3) R 10s; 53°32'·42N 00°13'·18E.

Humber \star L FI G 10s; 53°38'·70N 00°21'·24E.

SPURN \star Q (3) 10s 10m 8M; *Racon (M) 5M*; 53°33'·42N 00°14'·15E.

SE CHEQUER \star VQ (6) + L FI 10s 6m 6M; 53°33'·36N 00°12'·86E.

Chequer No 3 \star Q (6) + L FI 15s; 53°33'·07N 00°10'·63E.

TETNEY \star 2 VQ Y (vert); *Horn Mo (A) 60s*; QY on 290m floating hose; 53°32'·35N 00°06'·76E.

RIVER HUMBER/GRIMSBY/HULL

BULL \star VQ 8m 6M; 53°33'·54N 00°05'·70E.

North Fort \star Q; 53°33'·80N 00°04'·19E.

South Fort \star Q (6) + L FI 15s; 53°33'·65N 00°03'·96E.

Haile Sand Fort \star FI R 5s 21m 3M; 53°32'·07N 00°01'·99E.

Middle No 7 VQ (6) + L FI 10s; 53°35'·80N 00°01'·50E.

Grimsby Royal Dock ent E side \star FI (2) R 6s 10m 8M; Dn; 53°35'·08N 00°04'·04W.

Immingham Bulk Terminal \star Dir Lt 291° Dir WRG 1s 17m 3M; vis: 288·5°-FG-289·5°-IsoG-290·5-FW-291·5-IsoR-292·5°-FR-295·5; on bldg; 53°38'·41N 00°11'·97W (992351276).

RIVER HUMBER TO WHITBY

Canada & Giorgios Wreck \star VQ (3) 5s; 53°42'·37N 00°07'·16E.

Albrough intake \star Q R 17m 2M; 53°49'·01N 00°03'·38W.

BRIDLINGTON

SW Smithic \star Q (9) 15s; 54°02'·41N 00°09'·21W.

N Pier Hd \star FI 2s 12m 9M; *Horn 60s*; (Tidal Lts) FI R or FI G; 54°04'·77N 00°11'·19W.

N Smithic \star VQ; *Bell*; 54°06'·22N 00°03'·90W.

Flamborough Hd \star 54°06'·98N 00°04'·96W; FI (4) 15s 65m 18M; W \circ twr; *Horn 30s*.

FILEY/SCARBOROUGH/WHITBY

Filey Brigg \star Q (3) 10s; *Bell*; 54°12'·74N 00°14'·60W.

Scarborough E Pier Hd ✕ QG 8m 3M; 54°16'·88N 00°23'·36W.

Scarborough Pier ✕ Iso 5s 17m 9M; W ○ twr; vis: 219°-039° (tide sigs); *Dia* 60s; 54°16'·91N 00°23'·40W.

Whitby ✕ Q; *Bell*; 54°30'·33N 00°36'·58W.

Whitby High ☆ 54°28'·67N 00°34'·10W; Fl WR 5s 73m 18M, R16M; W 8-sided twr & dwellings; vis: 128°-R-143°-W-319°.

Whitby E Pier ✕ Fl(2) R 4s 16m 5M; 54°29'·57N 00°36'·71W; Twr.

Whitby E Pier Ext Hd ✕ Q R 12m 5M; 54°29'·65N 00°36'·74W.

Whitby W Pier ✕ Fl(2) G 4s 24m 5M; 54°29'·57N 00°36'·78W; Twr.

Whitby W Pier Ext Hd ✕ Q G 12m 5M; 54°29'·65N 00°36'·80W.

WHITBY TO THE RIVER TYNE

RUNSWICK/REDCAR

Salt Scar ✕ 54°38'·12N 01°00'·12W VQ; *Bell*.

Luff Way Ldg Lts 197°. Front, on Esplanade, FR 8m 7M; vis: 182°-212°; 54°37'·10N 01°03'·71W. Rear, 115m from front, FR 12m 7M; vis: 182°-212°.

High Stone. Lade Way Ldg Lts 247°. Front, Oc R 2·5s 9m 7M; 54°37'·15N 01°03'·92W. Rear, 43m from front, Oc R 2·5s 11m 7M; vis: 232°-262°.

TEES APPROACHES/HARTLEPOOL

Tees Approach ✕ Mo(A) 5s 8M; *Horn*; 54°40'·60N 01°04'·00W; *AIS*.

Bwtr Hd S Gare ✕ 54°38'·85N 01°08'·25W; Fl WR 12s 16m 10M; W ○ twr; vis: 020°-W-240°-R-357°; Sig Stn.

Ldg Lts 210·1° Front, FR 18m 13M; 54°37'·22N 01°10'·20W. Rear, 560m from front, FR 20m 16M.

Longscar ✕ Q (3) 10s; *Bell*; 54°40'·86N 01°09'·89W.

The Heugh ☆ 54°41'·79N 01°10'·56W; Fl (2) WR 10s 19m 19M; vis: 309°-R-319°-W-190°; W twr.

Hartlepool Marina Lock Dir Lt 308° Dir Fl WRG2s 6m 3M; vis: 305·5°-G-307°-W-309°-R-310·5°; 54°41'·45N 01°11'·92W.

SEAHAM/SUNDERLAND

Seaham N Pier Hd ✕ Fl G 10s 12m 5M; W col, B bands; 54°50'·26N 01°19'·26W.

Sunderland Roker Pier Hd ☆ 54°55'·28N 01°21'·15W; Fl 5s 25m 18M; W □ twr, 3 R bands and cupola; vis: 211°-357°; *Siren* 20s.

Old N Pier Hd ✕ QG 12m 8M; metal column; 54°55'·13N 01°21'·61W.

TYNE ENTRANCE/NORTH SHIELDS

Ent North Pier Hd ☆ 55°00'·88N 01°24'·18W; Fl (3) 10s 26m 26M; Gy □ twr, W lantern; *Horn* 10s.

Herd Groyne Hd Dir Ldg Lt 249°, Oc 10s 14m 19M; vis: 246·5°-W-251·5°; R pile structure, R&W lantern. Same structure Oc RG 10s 13m, 11M; vis: 224°-G-246·5°, 251·5°-R-277°; sync with Dir Lt FR (unintens) 080°-224°. *Bell* (1) 5s; 55°00'·49N 01°25'·44W.

RIVER TYNE TO BERWICK-UPON-TWEED

CULLERCOATS and BLYTH

Cullercoats Ldg Lts 256°. Front, FR 27m 3M; 55°02'·06N 01°25'·91W. Rear, 38m from front, FR 35m 3M.

Blyth E Pier Hd ☆ 55°06'·98N 01°29'·21W; Fl (4) 10s 19m 21M, W twr; same structure FR 13m 13M, vis: 152°-249°; Horn (3) 30s.

Met Mast ✕; Mo(U)15s 17m 10M; 55°08'·78N 01°25'·25W; Aero 3 FR (107m), *Horn* 30s.

COQUET ISLAND, AMBLE and WARKWORTH

Coquet ☆ 55°20'·03N 01°32'·39W; Fl (3) WR 20s 25m 19M, R15M; W □ twr, turreted parapet, lower half Gy; vis: 330°-R-140°-W-163°-R-180°-W-330°; sector boundaries are indeterminate and may appear as Alt WR; *Horn* 30s. **Amble N Pier Head** ✕ Fl G 6s 12m 6M; 55°20'·39N 01°34'·25W.

SEAHOUSES, BAMBURGH and FARNE ISLANDS

Bamburgh Black Rocks Point ☆ 55°36'·99N 01°43'·45W; Oc(2) WRG 8s 12m W14M, R11M, G11M; W bldg; vis: 122°-G-165°-W- 175°-R-191°-W- 238°-R- 275°-W- 289°-G-300°.

Inner Farne ✕ Fl (2) WR 15s 27m WR 8M; W ○ twr; vis: 119°-R-280°-W-119°; 55°36'·92N 01°39'·35W.

Longstone ☆ W side 55°38'·62N 01°36'·65W; Fl 20s 23m 18M; R twr, W band; 992351127.

HOLY ISLAND

Ridge ✕ Q (3) 10s; 55°39'·70N 01°45'·97W.

Plough Rock ✕ Q (9) 15s; 55°40'·24N 01°46'·00W.

Old Law E Bn ✕ (Guile Pt) Oc WRG 6s 9m 4M; vis: 180·5°-G-258·5°-W-261·5°-R-300°; 55°39'·49N 01°47'·59W; stone obelisk.

Heugh ✕ Oc WRG 6s 24m 5M; vis: 135°-G-308°-W-311-R-shore; 55°40'·09N 01°47'·99W.

BERWICK-UPON-TWEED

Bwtr Hd ✕ Fl 5s 15m 6M; vis: 201°-009°, (obscured 155°-201°); W ○ twr, R cupola and base; FG (same twr) 8m 1M; vis 009°-G-155°; 55°45'·88N 01°59'·06W.

1	Ramsgate	1			11	31	61	78	91	107	126	189	205	205	232	Berwick-upon-Tweed	11
2	Sheerness	34	2			10	27	42	65	81	102	157	176	185	203	Amble	10
3	Gravesend	56	22	3			9	16	36	51	70	138	149	156	180	Sunderland	9
4	London Bridge	76	45	23	4			8	24	39	58	122	137	140	169	Hartlepool	8
5	Burnham-on-Crouch	44	34	54	77	5			7	16	35	88	114	121	143	Whitby	7
6	Brightlingsea	41	28	48	71	21	6			6	20	81	98	105	130	Scarborough	6
7	Harwich	40	50	66	93	31	20	7			5	58	83	87	114	Bridlington	5
8	River Deben (ent)	45	55	75	98	36	25	6	8			4	79	75	113	Hull	4
9	Southwold	62	72	92	115	53	42	25	23	9			3	34	83	Boston	3
10	Lowestoft	72	82	102	125	63	52	35	33	10	10			2	85	King's Lynn	2
11	Great Yarmouth	79	87	105	132	70	59	42	40	18	7	11			1	Great Yarmouth	1

AREA 5 E Scotland – Berwick-upon-Tweed to C Wrath & N Isles



SELECTED LIGHTS, BUOYS & WAYPOINTS

BERWICK-UPON-TWEED TO BASS ROCK


BURNMOUTH



Ldg Lts 241°. Front, FR 29m 4M; 55°50'·53N 02°04'·25W. Rear, 45m from front, FR 35m 4M. Both on W posts (unclear by day).



EYEMOUTH


Blind Buss  Q; 55°52'·80N 02°05'·25E. Ldg Lts 174°. Front, W Bwtr Hd , FG 9m 6M; 55°52'·47N 02°05'·29W. Rear, elbow 55m from front, FG 10m 6M.


ST ABBS TO DUNBAR and BASS ROCK

St Abbs Hd  55°54'·96N 02°08'·29W; Fl 10s 68m 18M; W twr; *Racon (T) 18M*.

Barns Ness Tower (Lt ho disused 36m); 55°59'·22N 02°26'·76W. Torness Pwr Stn Ldg Lts 215°. Front, Iso G 4s 6m 6M; W  with B vert stripe on plinth; 55°58'·27N 02°24'·86W. Rear, Iso G 4s 22m 3M; W  with B vert stripe on post; sync with front.

Dunbar Hbr Ldg Lts (Bayswell Hill) 198°. Front, Oc G 6s 15m 3M; 3 Or  on col; 56°00'·26N 02°31'·21W. Rear, Oc G 6s 22m 3M; 3 Or ; sync with front; both lts 188°-G(intens)-208°.

S Carr  Q; 56°03'·69N 02°37'·50W.


Bass Rock, S side,  Fl (3) 20s 46m 10M; W twr; vis: 241°-107°; 56°04'·61N 02°38'·48W.

FIRTH OF FORTH AND SOUTH SHORE




(Direction of buoyage East to West)


NORTH BERWICK

Outfall  Fl Y; 56°04'·29N 02°40'·89W.

Fidra  56°04'·39N 02°47'·13W; Fl(4) 30s 34m 15M; W twr; obsc by Bass Rock, Craig Leith and Lamb Island.

PORT SETON, COCKENZIE, FISHERROW and S CHANNEL

Port Seton, E Pier Hd  Iso WR 4s 10m W9M, R6M; vis: shore-R-105°-W-225°-R-shore; *Bell (occas)*; 55°58'·40N 02°57'·23W. Fisherrow E Pier Hd  Oc 6s 5m 6M; 55°56'·79N 03°04'·11W. North Craig  Q(3) 10s; 56°01'·02N 03°03'·52W.


Craigh Waugh  Fl(2) 10s; 56°00'·26N 03°04'·47W.

Diffuser Hds (Outer)  Q; 55°59'·81N 03°07'·84W.


Diffuser Hds (Inner)  Q(6) + LFl 15s; 55°59'·38N 03°08'·02W.


LEITH and GRANTON


East Bwtr Hd  Iso R 4s 7m 9M; 55°59'·48N 03°10'·94W.


Granton E Pier Hd  Fl R 2s 5m 6M; 55°59'·28N 03°13'·27W.


NORTH CHANNEL and MIDDLE BANK


Inchkeith Fairway  Iso 2s; *Racon (T) 5M*; 56°03'·49N 03°00'·10W.


Inchkeith  56°02'·01N 03°08'·17W; Fl 15s 67m 14M; stone twr.

Pallas Rock  VQ (9) 10s 56°01'·50N 03°09'·30W.

East Gunnet  Q (3) 10s; 56°01'·41N 03°10'·38W.

West Gunnet  Q (9) 15s 56°01'·34N 03°11'·06W.

Oxcars  Fl (2) WR 7s 16m W13M, R12M; W twr, R band; vis: 072°-W-087°-R-196°-W-313°-R-072°; 56°01'·36N 03°16'·84W.


Inchcolm E Pt  Fl (3) 15s 20m 10M; Gy twr; part obsc by land 075°-145°-5°; 56°01'·72N 03°17'·83W.


MORTIMER'S DEEP


Hawkraig Point Ldg Lts 292°. Front, Iso 5s 12m 14M; W twr; vis: 282°-302°; 56°03'·03N 03°17'·07W. Rear, 96m from front, Iso 5s 16m 14M; W twr; vis: 282°-302°.

Inchcolm S Lts in line 066°. Front, 84m from rear, Q 7m 7M; W twr; vis: 062°5'-082°5°; 56°01'·78N 03°18'·28W. Common Rear, Iso 5s 11m 7M; W twr; vis: 062°5'-082°5°; 56°01'·80N 03°18'·13W. N Lts in line 076°7°. Front, 80m from rear, Q 7m 7M; W twr; vis: 062°5'-082°5°.


APPROACHES TO FORTH BRIDGES

Rosyth Chan centreline  Iso 4s 56m 8M; 56°00'·44N 03°24'·64W.

Central Twr (Beamer Rk)  Iso 2s 7m 9M; 56°00'·29N 03°24'·75W.


Forth Chan centreline  Iso 8s 56m 8M; 56°00'·12N 03°24'·85W.


PORT EDGAR

W Bwtr Hd  Fl R 4s 4m 8M; 55°59'·86N 03°24'·78W. W blockhouse.

FIRTH OF FORTH – NORTH SHORE (INWARD)



BURNTISLAND

W Pier Outer Hd  Fl (2) R 6s 7m; W twr; 56°03'·22N 03°14'·26W.

E Pier Outer Hd  Fl (2) G 6s 7m 5M; 56°03'·24N 03°14'·17W.


ABERDOUR, BRAEFOOT BAY and INCHCOLM


Hawkraig Pt   (see MORTIMER'S DEEP above).


Braefoot Bay Terminal, W Jetty. Ldg Lts 247°·3°. Front, Fl 3s 6m 15M; W  on E dolphin; vis: 237°-2°-257°-2°; 56°02'·16N 03°18'·71W; 4 dolphins with 2 FG (vert). Rear, 88m from front, Fl 3s 12m 15M; W  on appr gangway; vis: 237°-2°-257°-2°; sync with front.

ROSYTH

No 2  Q (3) 10s; 56°00'·69N 03°25'·18W.



Main Chan Dir Lt 323°·5°. Bn 'A' Oc WRG 7m 4M; R  on W post with R bands; vis: 318°-G-321°-321°-W-326°-R-328° (H24); 56°01'·19N 03°25'·61W.

Dir Lt 115°, Bn 'C' Oc WRG 6s 7m 4M; W  on W Bn; vis: 110°-R-113°-W-116°-5°-G-120°; 56°00'·61N 03°24'·25W.

S Arm Jetty Hd  L Fl (2) WR 12s 5m W9M; R6M; vis: 010°-W-280°-R-010°; 56°01'·09N 03°26'·58W.

RIVER FORTH

ROSYTH to GRANGEMOUTH

Torry  Fl G 10s 5m 7M; G  structure; 56°02'·46N 03°35'·28W.


Bo'ness Bns  2 QR 3m 2M; 56°01'·85N 03°36'·22W.

FIRTH OF FORTH – NORTH SHORE (OUTWARD)

KIRKCALDY and METHIL

Kirkcaldy W Pier Hd  Fl R 5s 7m 3M; 56°06'·80N 03°08'·97W.

Kirkcaldy E Pier Hd  Fl G 5s 12m 3M; 56°06'·78N 03°08'·90W.

Methil Outer Pier Hd  Oc G 6s 8m 5M; W twr; vis: 280°-100°; 56°10'·76N 03°00'·48W.

ELIE and ST MONANS

Elie Ness  56°11'·04N 02°48'·77W; Fl 6s 15m 17M; W twr.

St Monans Bwtr Hd \star Fl G 3s 3m 4M; 56°12'·19N 02°45'·94W.
St Monans Inner Lt \star Iso 4s 3m 4M; 56°12'·29N 02°45'·95W.

PITTENWEEM and ANSTRUTHER EASTER

Pittenweem, Ldg Lts 037° Middle Pier Hd. Front, FR 4m 5M. Rear, FR 8m 5M. Both Gy Cols, Or stripes; 56°12'·69N 02°43'·69W.

Pittenweem, E Bwtr Hd \star Fl (2) RG 5s 9m R9M, G6M; vis: 265°-R-345°-G-055°; 56°12'·63N 02°43'·74W.

Anstruther, Ldg Lts 019°. Front FG 7m 4M; 56°13'·28N 02°41'·76W. Rear, 38m from front, FG 11m 4M (both W masts).

MAY I, CRAIL, ST ANDREWS and FIFE NESS to MONTROSE Isle of May \star 56°11'·12N 02°33'·46W (Summit); Fl (2) 15s 73m **18M**; \square twr on stone dwelling.

Crail, Ldg Lts 295°. Front, FR 24m 6M (not lit when hbr closed); 56°15'·46N 02°37'·84W. Rear, 30m from front, FR 30m 6M.

Fife Ness \star 56°16'·74N 02°35'·19W; Iso WR 10s 12m **W15M**, R12M; W bldg; vis: 143°-W-197°-R-217°-W-023°; **002320798**.

N Carr \triangle Q (3) 10s 3m 5M; 56°18'·05N 02°32'·94W.

St Andrews \star 56°20'·38N 02°47'·07W; Dir It 277·5; Iso WRG 2s 17m 9M; vis: 272°-G-276°-AIWG-277°-W-278°-AIWR-279°-R-283°. St Andrews N Bwtr Bn \star Fl G 3M 56°20'·36N 02°46'·77W.

Bell Rk \star 56°26'·08N 02°23'·21W; Fl 5s 28m **18M**; **Racon (M) 18M**.

RIVER TAY, TAYPORT, DUNDEE and PERTH

Tay Fairway \triangle L Fl 10s; *Bell*; 56°28'·45N 02°36'·60W.

Abertay N \triangle Q (3) 10s; 56°27'·61N 02°40'·75W.

Tayport High Lt \star Dir It 268·25°; WRG 3s 23m WRG14M; W twr, vis: 266°-VQG -267·5°- IsoG -268°- IsoW -268·5°- IsoR -269°- VQR -270°; 56°27'·17N 02°53'·94W.

ARBROATH

Ldg Lts 299·2°. Front , FR 7m 5M; W col; 56°33'·29N 02°35'·16W. Rear, 50m from front, FR 13m 5M; W col.

MONTROSE

Scurdie Ness \star 56°42'·10N 02°26'·24W; Fl (3) 20s 38m **20M**; W twr; **Racon (T) 14-16M**.

Outer Ldg Lts 271·5°; Front, FR 11m 5M; W twin pillars, R bands; 56°42'·21N 02°27'·41W; Rear, 272m from front, FR 18m 5M; W twr, R cupola.

Inner Ldg Lts 265°; Front FG 21m 5M; Rear FG 33m 5M Or ∇ on metal framework tower; vis: 263°-G-264°-AIWG-264°-W-265°-AIWR-265°-R-266° (occas).

MONTROSE TO RATTRAY HEAD

JOHNSHAVEN and GOURDON HARBOUR

Johnshaven, Ldg Lts 316°. Front, FR 5m; 56°47'·62N 02°20'·26W. Rear, 85m from front, FG 20m; shows R when unsafe to ent hbr. Gourdon Hbr, Ldg Lts 358°. Front, FR 5m 5M; W twr; shows G when unsafe to enter; 56°49'·69N 02°17'·24W. Rear, 120m from front, FR 30m 5M; W twr.

Gourdon E B'water \star Q 3m 3M; 49°57'·60N 02°17'·19W. Todhead Lighthouse (disused), white tower, 13m.

STONEHAVEN to GIRDLE NESS

Outer Pier Hd \star Iso WRG 4s 7m 5M; vis: 214°-G-246°-W-268°-R-280°; 56°57'·59N 02°12'·00W.

Girdle Ness \star Fl (2) 20s 56m **22M**; obsc by Greg Ness when brg > 020°; **Racon (G) 25M**; 57°08'·34N 02°02'·91W.

ABERDEEN

Fairway \triangle Mo (A) 5s; **Racon (T) 7M**; 57°09'·31N 02°01'·95W. Torry Ldg Lts 237·2°, Front FR or G 14m 5M; R when ent safe, FG when dangerous to navigate; W twr; 57°08'·38N 02°04'·50W.

Rear, 220m from front, FR or G 19m 5M; R when ent safe, FG when dangerous to navigate; W twr; 57°08'·31N 02°04'·68W. Aberdeen Harbour Ent \star 57°08'·38N 02°04'·48W; Dir It 237·2° Fl WRG 1s 7m 9M; metal post; vis: 235·2°-QG-236·2°-AIQGW-236·7°-QW-237·7°-AIQRW-238·2°-QR-239·2°.

S Bwtr Hd \star Fl (3) R 8s 23m 7M; 57°08'·69N 02°03'·34W. N Pier Hd \star Iso G 4s 11m 10M; W twr; 57°08'·74N 02°03'·69W. In fog FY 10m (same twr) vis: 136°-336°; *Bell* (3) 12s.

S Skates Nose Jetty Hd \star Q R 4m 4M; 57°08'·49N 02°04'·06W.

Abercrombie Jetty Hd \star Oc G 4s 5m 4M; 57°08'·53N 02°04'·15W.

BUCHAN NESS TO INVERNESS

PETERHEAD and RATTRAY HEAD

Buchan Ness \star Fl 5s 40m **18M**; W twr, R bands; **Racon (O) 14-16M**; 57°28'·23N 01°46'·51W.

Kirktown Ldg Lts 314°. Front, Oc R 6s 14m 10M; Or \triangle on lattice mast; 57°30'·22N 01°47'·21W. Rear, Oc R 6s 21m 10M (sync with front); Or ∇ on lattice mast.

S Bwtr Hd \star Fl (2) R 12s 24m 7M; 57°29'·79N 01°46'·54W. N Bwtr Hd \star Iso RG 6s 19m 11M; W tripod; vis: 171°-R-236°-G-171°; *Horn* 30s; 57°29'·84N 01°46'·32W.

Ratray Hd \star 57°36'·61N 01°49'·03W Fl (3) 30s 28m **18M**; W twr; **Racon (M) 15M**; *Horn* (2) 45s.

FRASERBURGH

Balacava Bwtr Head \star Fl (2) G 8s 26m 6M; dome on W twr; vis: 178°-326°; 57°41'·51N 01°59'·70W.

N Pier \star WRG 2s 7m 8M; metal post; 285°-G-287°-WG-289°-W-293°-WR-295°-R-297°; 57°41'·54N 01°59'·99W.

Kinnaird Hd \star 57°41'·87N 02°00'·26W Fl 5s 25m **22M**; vis: 092°-297°.

MACDUFF, BANFF and WHITEHILLS

Macduff Pier Hd \star Fl (2) WRG 6s 12m W9M, R7M; W twr; vis: shore-G-115°-W-174°-R-210°; 57°40'·26N 02°30'·01W.

Macduff Ldg Lts 130°, Front FR 28m 3M; 57°40'·18N 02°29'·85W. Rear, 220m from front, FR 55m 3M; both Or \triangle on mast.

Banff Ldg Lts 295°, Front Fl R 4s; 57°40'·30N 02°31'·36W. Rear, QR; both vis: 210°-345°.

Whitehills Pier Hd \star 57°40'·80N 02°34'·88W Fl WR 3s 7m W9M, R6M; W twr; vis: 132°-R-212°-W-245°.

PORTSOY and FINDOCHTY

Portsoy Pier Ldg Lts 173°, Front Fl G 4s 20m 3M; post; 57°41'·09N 02°41'·40W; Rear Q G 22m 3M; R \triangle on BW post. Findochty Middle Pier Ldg Lts 166°, Front FR 6m 3M; 57°41'·90N 02°54'·20W. Rear FR 10m 3M.

BUCKIE

West Muck \star QR 5m 7M; tripod; 57°41'·06N 02°58'·01W. N Pier Ldg Lts 096°, Front, FR 6m 9M; 57°40'·83N 02°57'·71W. Rear \star , 60m from front, Oc R 10s 15m 15M; W twr.

LOSSIEMOUTH, HOPEMAN and BURGHEAD

Lossiemouth S Pier Hd \star Fl R 6s 11m 5M; 57°43'·42N 03°16'·69W.

NAVIGATION

Halliman Skerries Q; **Racon M**, 57°44'·33N 03°18'·57W.
Hopeman Ldg Lts 081°, Front, FR 3m; 57°42'·71N
03°26'·18W. Rear, 10m from front, FR, 4m.
Burghead N Bwtr Hd Oc 8s 7m 5M; 57°42'·09N
03°30'·03W.

FINDHORN, NAIRN and INVERNESS FIRTH

Findhorn Landfall LF 10s 57°40'·34N 03°38'·77W.
Nairn E Pier Hd Oc WRG 4s 6m 5M; 8-sided twr; vis:
shore-G-100°-W-207°-R-shore; 57°35'·62N 03°51'·65W.
Riff Bank E FLY 10s 3m 5M 57°38'·38N 03°58'·18W; **AIS**.

SOUTH CHANNEL

Riff Bank S Q (6) + L FI 15s; 57°36'·73N 04°00'·97W.
Chanonry 57°34'·45N 04°05'·56W Oc 6s 12m 12M; W
twr; vis: 148°-073°.
Munlochy L FI 10s; 57°32'·91N 04°07'·65W.
Craigton Point FI WRG 4s 6m W11M, R7M, G7M; vis:
312°-W-048°-R-064°-W-085°-G-shore; 57°30'·05N 04°14'·09W.
Bridge Centre, Or ; **Racon (K) 6M**; 57°29'·97N 04°13'·79W.

INVERNESS and CALEDONIAN CANAL

Carnarc Pt FI G 2s 8m 4M; G lattice twr; 57°29'·72N
04°14'·25W.

INVERNESS TO DUNCANSBY HEAD

CROMARTY FIRTH and INVERGORDON

Fairway L FI 10s; **Racon (M) 5M**; 57°39'·96N 03°54'·19W.
The Ness (Lt ho disused W tr 13m); 57°40'·98N 04°02'·20W
Nigg Terminal Jetty Oc G 5s 31m 5M; Gy twr, floodlit;
57°41'·54N 04°02'·60W.

DORNOCH FIRTH to LYBSTER

Tarbat Ness 57°51'·88N 03°46'·76W FI (4) 30s 53m
18M; W twr, R bands; **Racon (T) 14-16M**.
Met Mast Mo(U) 15s 17m 10M; FR (101m), *Horn Mo(U)*
30s; 58°10'·93N 02°49'·22W.
Helmsdale Dir It 313° WRG 2s 7m 6M (1M day); post;
vis: 308°-Iso G-311°-AI WG-312°-Iso W-313°-AI WR-314°-
Iso R-318°; 58°06'·91N 03°39'·04W.
Lybster, S Pier Hd Oc R 6s 10m 3M; 58°17'·79N
03°17'·41W.
Clyth Ness Lt Ho (unlit); W twr, R band; 58°18'·64N
03°12'·74W.

WICK

S Pier Hd FI WRG 3s 12m W12M, R9M, G9M; W
8-sided twr; vis: 253°-G-270°-W-286°-R-329°; 58°26'·34N
03°04'·73W.
Dir It 288·5° F WRG 9m W10M, R7M, G7M; col, N end
of bridge; vis: 283·5°-G-287·2°-W-289·7°-R-293·5°;
58°26'·54N 03°05'·34W
Noss Hd 58°28'·76N 03°03'·09W FI 20s 53m **W18M**; W
twr; vis: 073°-045° (332°).

DUNCANSBY HEAD TO CAPE WRATH

Duncansby Hd 58°38'·65N 03°01'·58W FI 12s 67m
21M; W twr; **Racon (T)**.
MuckleSkerry 58°41'·41N 02°55'·49W FI (3) 30s 52m **23M**;
W twr; 992351086.
Lother Rock FI 2s 13m 6M; **Racon (M) 10M**; 58°43'·79N
02°58'·69W.
Swona FI 8s 17m 9M; vis: 261°-210°; 58°44'·25N 03°04'·24W.
Swona N Hd FI (3) 10s 16m 10M; 58°45'·11N 03°03'·10W.

Stroma Swilkie Point 58°41'·75N 03°07'·01W FI (2)
20s 32m **20M**; W twr; 992351092.
Dunnet Hd 58°40'·28N 03°22'·60W FI (4) 30s 105m **23M**.

THURSO, SCRABSTER and CAPE WRATH

Thurso FG 5m 4M; Gy post; 58°35'·91N 03°30'·80W.
Scrabster Q. E. Pier Hd FI (2) 4s 8m 8M 58°36'·66N
03°32'·31W.
Strathy Pt Lt Ho (disused) W twr on W dwelling;
58°36'·04N 04°01'·12W.
Sule Skerry 59°05'·09N 04°24'·38W FI (2) 15s 34m
21M; W twr; **Racon (T)**.
Sule Stack ; V-AIS; ; 59°01'·45N 04°30'·40W; 992356017.
Nun Rock ; V-AIS; ; 58°52'·65N 04°58'·30W; 992356016.
North Rona 59°07'·27N 05°48'·91W FI (3) 20s 114m
22M.
Sula Sgeir FI 15s 74m 11M; twr 59°05'·61N 06°09'·57W.
Loch Eriboll, White Hd FI WR10s 18m W13M, R12M;
W twr and bldg; vis: 030°-W-172°-R-191°-W-212°;
58°31'·01N 04°38'·90W.
Cape Wrath 58°37'·52N 04°59'·94W FI (4) 30s 122m
21M; W twr 992351087.

ORKNEY ISLANDS

Tor Ness 58°46'·78N 03°17'·86W FI 5s 21m **17M**; W twr.
Cantick Hd (S Walls, SE end) 58°47'·23N 03°07'·88W
FI 20s 35m 13M; W twr.

SCAPA FLOW and APPROACHES

Long Hope, S Ness Pier Hd FI WRG 3s 6m W7M,
R5M, G5M; vis: 082°-G-242°-W-252°-R-082°; 58°48'·05N
03°12'·35W.
Hoxa Head FI WR 3s 15m W9M, R6M; W twr; vis:
026°-W-163°-R-201°-W-215°; 58°49'·31N 03°02'·09W.
Nevi Skerry FI (2) 6s 7m 6M; 58°50'·67N 03°02'·70W.
Rose Ness 58°52'·33N 02°49'·97W FI 6s 24m 8M; W twr.
Copinsay FI (5) 30s 79m 14M; W twr; 58°53'·79N
02°40'·33W.
Barrel of Butter FI (2) 10s 6m 7M; 58°53'·40N 03°07'·62W.
Cava FI WR 3s 11m W10M, R8M; W twr;
vis: 351°-W-143°-196°-W-251°-R-271°-R-298°; 58°53'·21N
03°10'·70W .
Holm of Houton 58°54'·62N 03°10'·97W; FI R 3s 7m 5M.

CLESTRAN SOUND and HOY SOUND

Graemsay Is Hoy Sound Ldg Lts 104°. Front Low, Iso 3s
17m 12M; W twr; vis: 070°-255°, 58°56'·42N 03°18'·60W.
High Rear, 1·2M from front, Oc WR 8s 35m **W19M**, R14M;
W twr; vis: 097°-R-112°-W-163°-R-178°-W-332°; obsc on
Ldg line within 0·5M.
Skerry of Ness FI 4s 7m 7M, 180°-W-090°; 58°56'·95N
03°17'·83W.

STROMNESS

Ldg Lts 317°. Front FR 29m 11M; W twr; 58°57'·61N
03°18'·15W. Rear, 55m from front, FR 39m 11M; vis:
307°-327°; H24.

AUSKERRY

Auskerry 59°01'·51N 02°34'·34W FI 20s 34m **20M**; W twr.
Helliard Holm, S end FI WRG 10s 18m W14M, R11M,
G11M; W twr; vis: 256°-G-276°-W-292°-R-098°-W-
116°-G-154°; 59°01'·13N 02°54'·09W.

Balfour Pier Shapinsay ✨ Fl (2) WRG 5s 5m W3M, R2M, G2M; vis: 270°-G-010°-W-020°-R-090°; 59°01'86N 02°54'49W.

KIRKWALL

Thieves Holm, ✨ Q R 8M; 59°01'09N 02°56'21W.

Pier N end ☆ 58°59'29N 02°57'72W Iso WRG 5s 8m **W15M**, R13M, G13M; W twr; vis: 153°-G-183°-W-192°-R-210°.

WIDE FIRTH

Linga Skerry ✨ Q (3) 10s; 59°02'39N 02°57'56W.

Boray Skerries ✨ Q (6) + L Fl 15s; 59°03'65N 02°57'66W.

Skertours ✨ Q; 59°04'11N 02°56'72W.

Galt Skerry ✨ Q; 59°05'21N 02°54'20W.

Seal Skerry ✨ Fl R 3s 5m 3M; platform; 59°05'21N 02°54'20W.

Brough of Birsay ☆ 59°08'19N 03°20'41W Fl (3) 25s 52m **18M**.

Papa Stronsay NE end, The Ness ✨ Fl(4)20s 8m 9M; W twr; 59°09'34N 02°34'93W.

SANDAY ISLAND and NORTH RONALDSAY

Start Pt ☆ 59°16'69N 02°22'71W Fl (2) 20s 24m **18M**.

Kettletoft Pier Hd ✨ Fl WRG 3s 7m W7M, R5M, G5M;

vis: 351°-W-011°-R-180°-G-351°; 59°13'80N 02°35'86W.

N Ronaldsay ☆ NE end, 59°23'34N 02°22'91W Fl 10s 43m **24M**; R twr, W bands; **Racon (T) 14-17M**.

EDAY and EGILSAY

Calf Sound ✨ Fl (3) WRG 10s 6m W8M, R6M, G6M; W twr; vis: shore-R-215°-W-222°-G-301°-W-305°; 59°14'21N 02°45'82W.

Backland Pier ✨ 59°09'43N 02°44'88W Fl R 3s 5m 4M; vis: 192°-250°.

Egilsay Graand ✨ Q (6) + L Fl 15s; 59°06'86N 02°54'42W.

WESTRAY and PIEROWALL

Noup Head ☆ 59°19'86N 03°04'23W Fl 30s 79m **20M**; W twr; vis: about 335°-282° but partially obsc 240°-275°.

Pierowall E Pier Head ✨ Fl WRG 3s 7m W11M, R7M, G7M; vis: 254°-G-276°-W-291°-R-308°-G-215°; 59°19'35N 02°58'53W.

Papa Westray, Moclett Bay Pier Head ✨ Fl WRG 5s 7m W5M, R3M, G3M; vis: 306°-G-341°-W-040°-R-074°; 59°19'60N 02°53'52W.

SHETLAND ISLES

FAIR ISLE

Skadan South ☆, 59°30'84N 01°39'16W Fl (4) 30s 32m **22M**; W twr; vis: 260°-146°, obsc inshore 260°-282°.

Skroo ☆ N end 59°33'13N 01°36'58W Fl (2) 30s 80m **18M**; W twr; vis: 086°-7°-358°.

MAINLAND, SOUTH

Sumburgh Head ☆ 59°51'21N 01°16'58W Fl (3) 30s 91m **23M**.

Mousa, Perie Bard ✨ Fl 3s 20m 10M; 59°59'84N 01°09'51W.

BRESSAY and LERWICK

Bressay, Kirkabister Ness ✨ 60°07'20N 01°07'31W; Fl (2) 10s 18m 10M.

Maryfield Ferry Terminal ✨ Oc WRG 6s 5m 5M; vis: W008°-R013°-G-111°-008°; 60°09'43N 01°07'45W.

North Ness ✨ Iso WG 4s 4m 5M; vis: shore-W-158°-G-216°-W-301°; 60°09'57N 01°08'77W

Loofa Baa ✨ Q (6) + L Fl 15s 4m 5M; 60°09'72N 01°08'79W.

Soldian Rock ✨ Q (6) + L Fl 15s 60°12'51N 01°04'73W.

N ent Dir It 215°, Oc WRG 6s 27m 8M; Y △, Or stripe; vis: 211°-R-214°-W-216°-G-221°; 60°10'47N 01°09'53W.

Rova Hd ✨ 60°11'46N 01°08'60W; Fl WRG 4s (sync) 12m W12M, R/G9M; W twr; vis: 090°-R-182°-W-191°-G-213°-R-241°-W-261°-5°-G-009°-R-040°; same structure: **Dir** ☆ 186°-5° Fl WRG 4s (sync) 14m **W16M**, R/G13M; (sync) vis: 176°-5°-R-182°-W-191°-G-196°-5°.

Dales Voe ✨ Fl (2) WRG 8s 5m W4M, R3M, G3M; vis: 220°-G-227°-W-233°-R-240°; 60°11'79N 01°11'23W.

Hoo Stack ✨ Fl (4) WRG 12s 40m W7M, R5M, G5M; W pylon; vis: 169°-R-180°-W-184°-G-193°-W-169°. Same structure, Dir It 182°. Fl (4) WRG 12s 33m W9M, R6M, G6M; vis: 177°-R-180°-W-184°-W-187°; sync with upper lt; 60°14'96N 01°05'38W.

Mull (Moul) of Eswick ✨ Fl WRG 3s 50m W9M, R6M, G6M; W twr; vis: 028°-R-200°-W-207°-G-018°-W-028°; 60°15'74N 01°05'90W.

Inner Voder ✨ Q (9) 15s; 60°16'44N 01°05'18W; **AIS**.

WHALSAY and SKERRIES

Symbister Ness ✨ Fl (2) WG 12s 11m W8M, G6M; W twr; vis: shore-W-203°-G-shore; 60°20'43N 01°02'29W.

Suther Ness ✨ Fl WRG 3s 10m W10M, R8M, G7M; vis: shore -W-038°-R-173°-W-206°-G-shore; 60°22'12N 01°00'20W.

Bound Skerry ☆ 60°25'47N 00°43'72W Fl 20s 44m **20M**; W twr.

South Mouth. Ldg Lts 014°. Front, FY3m 2M; 60°25'33N 00°45'01W. Rear, FY 12m 2M.

Muckle Skerry ✨ Fl (2) WRG 10s 15m W7M, R5M, G5M; W twr; vis: 046°-W-192°-R-272°-G-348°-W-353°-R-046°; 60°26'41N 00°51'84W.

YELL SOUND

Sent, Lunna Holm ✨ Fl (3) WRG 15s 19m W10M, R7M, G7M; W ○ twr; vis: shore-R-090°-W-094°-G-209°-W-275°-R-shore; 60°27'34N 01°02'52W.

Firths Voe ☆, N shore 60°27'21N 01°10'63W Oc WRG 8s 9m **W15M**, R10M, G10M; W twr; vis: 189°-W-194°-G-257°-W-261°-R-339°-W-066°.

Linga Is. Dir It 150° ✨ Q (4) WRG 8s 10m W9M, R9M, G9M; vis: 145°-R-148°-W-152°-G-155°. Q (4) WRG 8s 10m W7M, R4M, G4M; same structure; vis: 052°-R-146°, 154°-G-196°-W-312°; sync; 60°26'80N 01°09'13W.

The Rumble Bn ✨ R Bn; Fl 10s 8m 4M; **Racon (O)**; 60°28'16N 01°07'26W.

Yell, Ulsta Ferry Term. Bwtr Hd ✨ Oc Rg 4s 7m R5M, G5M; vis: shore-G-354°, 044°-R-shore. Same structure; Oc WRG 4s 5m W8M, R5M, G5M; vis: shore-G-008°-W-036°-R-shore; 60°29'74N 01°09'52W.

Toft Ferry Terminal ☆, Dir It 241° (H24); Dir Oc WRG 10s 8m **W16M**, R10M, G10M; vis: 236°-G-240°-W-242°-R-246°; by day W2M, R1M, G1M. 60°27'96N 01°12'34W.

Ness of Sound, W side ✨ Fl (3) WRG 12s 18m W9M, R6M, G6M; vis: shore-G-345°-W-350°-R-160°-W-165°-G-shore; 60°31'34N 01°11'28W.

Brother Is. Dir It 329°, Fl (4) WRG 8s 16m W10M, R7M, G7M; vis: 323°-5°-G-328°-W-330°-R-333°-5°; 60°30'95N 01°14'11W.

Mio Ness ✨ Q (2) WR 10s 12m W7M, R4M; W ○ twr; vis: 282°-W-238°-R-282°; 60°29'66N 01°13'68W.

NAVIGATION

Tinga Skerry ✨ Q(2)G 10s 9m 5M. W ○ twr; 60°30'·48N 01°14'·86W.

YELL SOUND, NORTH ENTRANCE

Bagi Stack ✨ Fl (4) 20s 45m 10M; 60°43'·53N 01°07'·54W.

Gruney Is ✨ Fl WR 5s 53m W8M, R6M; W twr; vis: 064°-R-180°-W-012°; **Racon (T) 14M**; 60°39'·15N 01°18'·17W.

Pt of Fethaland ✨ 60°38'·05N 01°18'·70W Fl (3) WR 15s 65m **W19M, R15M**; vis 080°-R-103°-W-160°-R-206°-W-340°.

Muckle Holm ✨ Fl (4) 10s 32m 10M 60°34'·83N 01°16'·01W. Little Holm ✨ Iso 4s 12m 6M; W twr; 60°33'·42N 01°15'·88W.

Outer Skerry ✨ Fl 6s 12m 8M; 60°33'·04N 01°18'·32W.

Quey Firth ✨ Oc WRG 6s 22m W12M, R8M, G8M; W twr; vis: shore (through S & W)-W-290°-G-327°-W-334°-W-shore; 60°31'·43N 01°19'·58W.

Lamba, S side ✨ Fl WRG 3s 30m W8M, R5M, G5M; W twr; vis: shore-G-288°-W-293°-R-327°-W-044°-R-140°-W-shore. Dir It 290°·5' Fl WRG 3s 24m W10M, R7M, G7M; vis: 285°·5'-G-288°-W-293°-W-295°·5'; 60°30'·73N 01°17'·84W.

SULLOM VOE

Gluss Is ✨ Ldg Lts 194·7° (H24). **Front**, 60°29'·77N 01°19'·44W F 39m **19M**; □ on Gy twr; **Rear**, 0·75M from front, F 69m **19M**; □ on Gy twr; both Lts 9M by day.

Little Roe ✨ Fl (3) WR 10s 16m W5M, R4M; W structure, Or band; vis: 036°-R-095°·5'-W-036°; 60°29'·99N 01°16'·46W.

Skaw Taing ✨ Ldg Lts 150·5°. **Front**, Oc WRG 5s 21m W8M, R5M, G5M; Or and W structure; vis: 049°-W-078°-G-147°-W-154°-R-169°-W-288°; 60°29'·10N 01°16'·86W. **Rear**, 195m from front, Oc 5s 35m 8M; vis: W145°-156°.

Ness of Bardister ✨ Oc WRG 8s 20m W9M, R6M, G6M; Or & W structure; vis: 180°·5'- W-240°-R-310°·5'-W-314°·5'-G-030°·5'; 60°28'·19N 01°19'·63W.

Fugla Ness. Lts in line 212·3°. **Rear**, 60°27'·25N 01°19'·74W Iso 4s 45m 14M. **Common front** 60°27'·45N 01°19'·57W Iso 4s 27m 14M; sync with rear Lts. Lts in line 203°. **Rear**, 60°27'·26N 01°19'·81W Iso 4s 45m 14M.

Sella Ness ✨ Dir It 133·5°; 60°26'·76N 01°16'·66W Oc WRG 10s 19m **W16M, R3M, G3M**; vis: 123°·5'-G-130°·5°-Al WG (white phase increasing with brg)-132°·5°-W-134°·5°-Al WR(R phase inc with brg)-136°·5°-R-143°·5°; H24. **By day** Oc WRG 10s 19m W2M, R1M, G1M as above.

EAST YELL, UNST and BALTA SOUND

Whitehill ✨ Fl WR 3s 24m W9M, R6M; W clad metal frame twr; vis: 147°-W-163°-R-211°-W-352°-R-003°; 60°34'·80N 01°00'·22W. **Fetlar**. **Hamars Ness** ✨ Iso G 6s 5m 3M; 60°37'·78N 00°55'·73W.

Balta Sound ✨ Fl WR 10s 17m 10M, R7M; vis: 249°-W-008°-R-058°-W-154°; 60°44'·43N 00°47'·68W.

Holme of Skaw ✨ Fl 5s 8m 8M; white metal framework twr; 60°49'·87N 00°46'·30W.

Muckle Flugga ✨ 60°51'·32N 00°53'·13W Fl (2) 20s 66m **22M**.

Yell. **Cullivoe** **Bwtr Hd** ✨ Fl (2) WRG 10s 3m 4M; vis: 080°-G-294°-W-355°-R-080°; 60°41'·86N 00°59'·70W.

Unst. **Head of Mula** ✨ Fl WRG 5s 48m W10M, G7M, R7M; metal framework twr; vis: 292°-G-357°-W-002°-R-157°-W-161°·5'; 60°40'·76N 00°57'·58W.

MAINLAND, WEST

Esha Ness ✨ 60°29'·34N 01°37'·65W Fl 12s 61m **25M**.

Ness of Hillswick ✨ Fl (4) WR 15s 34m W9M, R6M; vis: 217°-W-093°-R-114°; 60°27'·21N 01°29'·80W.

Muckle Roe, **Swarbacks Minn** ✨ Fl WR 3s 30m W9M, R6M; vis: 314°-W-041°-R-075°-W-137°; 60°20'·98N 01°27'·07W. **W Burra Firth Outer** ✨ Oc WRG 8s 27m W9M, R7M, G7M; vis: 136°-G-142°-W-150°-R-156°·H24; 60°17'·79N 01°33'·56W.

W Burra Firth Inner ✨ 60°17'·78N 01°32'·17W F WRG 9m **W15M, R9M, G9M**; vis: 095°-G-098°-W-102°·105°·H24.

Ve Skerries ✨ Fl (2) 20s 17m 11M; W twr; **Racon (T) 15M**; 60°22'·36N 01°48'·78W.

Papa Stour Housa Voe Dir It 228° ✨ F WRG 2m W9M, R7M, G7M; vis: 219°- G-226°- W-230°-R-239°; 60°19'·58N 01°40'·47W.

Rams Head ✨ Fl WRG 8s 16m W9M, R6M; G6M; W house; vis: 265°-G-355°-W-012°-R-090°-W-136°; obsc by Vaila I when brg more than 030°; 60°11'·96N 01°33'·47W.

North Havra ✨ Fl(3) WRG 12s 24m W11M, R8M, G8M; W twr; vis: 001°-G-053°·5°-W-060°·5°-R-144°; 274°-G-334°-W-337°·5°-R-001°; 60°09'·85N 01°20'·29W.

SCALLOWAY

Bullia Skerry ✨ Fl 5s 5m 5M; stainless steel pillar & platform 60°06'·55N 01°21'·57W.

Point of the Pund ✨ Fl WRG 5s 20m W7M, R5M, G5M; W GRP twr; vis: 267°-W-350°-R-090°-G-111°-R-135°-W-140°-G-177°; 60°07'·99N 01°18'·31W.

Whaleback Skerry ✨ Q; 60°07'·95N 01°18'·90W.

Blacks Ness Pier SW corner ✨ Oc WRG 10s 10m W11M, G8M, R8M; vis: 053°·5°-G-065°-W-067°-R-078°·5°; 60°08'·03N 01°16'·52W.

Fugla Ness ✨ Fl (2) WRG 10s 20m W10M, R7M, G7M; W twr; vis: 014°-G-032°-W-082°-R-134°-W-shore; 60°06'·38N 01°20'·85W.

FOULA

South Ness ✨ 60°06'·75N 02°03'·86W Fl WR (3) 15s 36m **W18M** R14M; W twr; vis: 221°-W-255°-R-277°-W-123°-obscured-221°.

1	Berwick-upon-Tweed	1		11	155	79	47	76	104	144	126	120	125	145	Cape Wrath	11
2	Eyemouth	10	2	10	95	124	120	148	190	170	162	156	160		Lerwick	10
3	Dunbar	26	17	3		9	50	46	74	114	104	90	95	115	Kirkwall	9
4	Port Edgar	58	50	34	4		8	31	59	99	89	75	80	100	Scrabster	8
5	Methil	45	36	20	20	5		7	29	69	58	44	50	72	Wick	7
6	Fife Ness	38	29	17	34	16	6		6	43	32	26	44	74	Helmsdale	6
7	Dundee	58	49	37	54	36	20	7		5	13	34	59	90	Inverness	5
8	Montrose	59	51	43	61	43	27	27	8		4	23	48	79	Nairn	4
9	Stonehaven	72	66	60	78	60	44	45	20	9		3	25	56	Lossiemouth	3
10	Aberdeen	82	78	73	90	72	56	57	32	13	10		2	33	Banff/Macduff	2
11	Peterhead	105	98	93	108	94	78	80	54	35	25	11		1	Peterhead	1

AREA 6 NW Scotland – C Wrath to Oban including The Western Isles

SELECTED LIGHTS, BUOYS & WAYPOINTS

CAPE WRATH TO LOCH TORRIDON

Cape Wrath ☆ 58°37'·52N 04°59'·94W Fl (4) 30s 122m 21M; W twr; [992351087](#).

LOCH INCHARD and LOCH LAXFORD

Kinlochbervie Dir It 327° ☆ 58°27'·49N 05°03'·08W WRG 15m 16M vis: 326°-FG-326·5°-AIGW-326·8°-FW-327·3°-AIRW-327·5°-FR-328°.

Creag Mhòr Dir It 147°; Iso WRG 2s 16m 4M; vis: 136·5°-R-146·5°-W-147·5°-G-157·5°; 58°26'·99N 05°02'·45W.

Stoer Head ☆ 58°14'·43N 05°24'·07W Fl 15s 59m 24M; W twr.

LOCH INVER, SUMMER ISLES and ULLAPOOL

Soyea I ✧ Fl (2) 10s 34m 6M; 58°08'·56N 05°19'·67W.

Glasleac ✧ Fl WRG 3s 7m 5M; vis: 071°-W-078°-R-090°-G-103°-W-111°; 243°-W-247°-G-071°; 58°08'·68N 05°16'·36W.

Rubha Cadail ✧ Fl WRG 6s 11m W9M, R6M, G6M; W twr; vis: 311°-G-320°-W-325°-R-103°-W-111°-G-118°-W-127°-R-157°-W-199°; 57°55'·51N 05°13'·40W.

Ullapool Pt ✧ Iso R 4s 8m 6M; W twr; vis: 258°-108°; 57°53'·59N 05°09'·93W.

Cailleach Head ✧ Fl (2) 12s 60m 9M; W twr; vis: 015°-236°; 57°55'·81N 05°24'·23W.

LOCH EWE and LOCH GAIRLOCH

Fairway Q L Fl 10s; 57°51'·98N 05°40'·09W.

Rubha Reidh ☆ 57°51'·52N 05°48'·72W Fl (4) 15s 37m 18M.

Glas Eilean ✧ Fl WRG 6s 9m W6M, R4M; vis: 080°-W-102°-R-296°-W-333°-G-080°; 57°42'·79N 05°42'·42W.

Sgeir Dhubbh Mhòr ⚓; 57°42'·02N 05°42'·72W.

OUTER HEBRIDES – EAST SIDE

LEWIS

Butt of Lewis ☆ 58°30'·92N 06°15'·72W Fl 5s 52m 25M; R twr; vis: 056°-320°.

Tiupan Hd ☆ 58°15'·66N 06°08'·29W Fl (2) 15s 55m 18M; W twr.

STORNOWAY

Arnish Point ✧ Fl WR 10s 17m W9M, R7M; W ○ twr; vis: 088°-W-198°-R-302°-W-013°; 58°11'·50N 06°22'·16W.

Sandwick Bay, NW ✧ Dir WRG 4s 10m 10M; 336°-IsoG -339°- AIWG -341°-IsoW-347°-AIWR-349°-Iso-R-352°; 58°12'·17N 06°22'·15W.

No 1 Pier SW corner ✧ Q WRG 5m 11M; vis: shore-G-335°-W-352°-R-shore; 58°12'·36N 06°23'·43W.

Creed Estuary Dir Lt ☆ 288·5° WRG 4s 23m 5M; 277°-IsoG-282°-AIWG-287°-IsoW-290°-AIWR-292°-R-295°; 58°12'·00N 06°23'·54W.

No 3 Pier ✧ Q (2) G 10s 7m 2M 58°12'·31N 06°23'·28W. **Glumaig Hbr** ✧ Iso WRG 3s 8m 3M; 58°11'·29N 06°22'·83W; grey framework twr; vis: 150°-G-174°-W-185°-R-205°.

LOCH ERISORT, LOCH SHELL and EAST LOCH TARBERT

Eilean Glas (Scalpay) ☆ 57°51'·41N 06°38'·55W Fl (3) 20s 43m 18M; W twr, R bands; **Racon (T) 16-18M**; [992356014](#).

Sgeir Graidach ✧ Q (6) + L Fl 15s; 57°50'·36N 06°41'·37W. **Sgeir Ghlas** ✧ Iso WRG 4s 9m W9M, R6M, G6M; W ○

twr; vis: 282°-G-319°-W-329°-R-153°-W-164°-G-171°; 57°52'·36N 06°45'·24W.

Tarbert ✧ Dir 301·5° WRG 9m 4M; vis: 290°-Iso G-297°-AIWG-300°-Iso W-303°-AIWR-306°-Iso R306°-313°; 57°53'·80N 06°47'·85W.

SOUND OF HARRIS, LEVERBURGH and BERNERAY

Leverburgh Ldg Lts 014·7°. Front, Q 10m 4M 57°46'·23N 07°02'·04W. Rear, Oc 3s 12m 4M.

Laimhrig Mhor ✧ Q G; 57°45'·92N 07°01'·65W.

Leverburg Dir Lt 064·5°; Dir G 4m 6M metal twr; vis: 060°-QG-063°-F G-066°-OcG 2·25s-069°; 57°46'·00N 07°01'·55W.

NORTH UIST

Fairway Q L Fl 10s; 57°40'·23N 07°01'·39W.

Griminish Hbr Dir Lt 183° ✧ metal post; vis: WRG 4s 6m WRG2M 178°-IsoG-182°-AIWG-182·5°-IsoW-183·5°-AIWR-184°-IsoR-188°; 57°39'·39N 07°26'·72W.

LOCH MADDY and GRIMSAY

Weaver's Pt ✧ Fl 3s 24m 7M; W hut; 57°36'·49N 07°06'·00W.

Glas Eilean Mòr ✧ Fl (2) G 4s 8m 5M; 57°35'·95N 07°06'·70W. **Vallaque Is Dir It** 207·5°/255·5° ✧ W pillar; vis: Fl (3) WRG 8s 11m W5M, R5M, G5M; shore-G-205°-W-210°-R-240°; Fl (3) WRG 8s 11m W8M, R8M, G8M; 249°-G-254°-W-257°-R-262° 57°35'·49N 07°09'·32W.

Lochmaddy Ro-Ro Pier, Dir It 300° ✧ post; Iso WRG 2s W6M, R4M, G4M; vis: 288°-G-295°-WG-298°-W-302°-WR-305°-R-311° 57°35'·79N 07°09'·46W.

SOUTH UIST and LOCH CARNAN

Landfall ⚓ L Fl 10s.; 57°22'·27N 07°11'·52W.

Ldg Lts 222°. Front Fl R 2s 7m 5M; W ◇ on post; 57°22'·00N 07°16'·34W. Rear, 58m from front, Iso R 10s 11m 5M; W ◇ on post.

Ushenish ☆ (S Uist) 57°17'·90N 07°11'·57W Fl W 20s 54m 19M; W twr; vis: 193°- 018°.

LOCH BOISDALE

Calvey E End ✧ Fl (2) WRG 10s 16m W7M, R7M, G7M; W twr; vis: 111°-W-190°-G-202°-W-286°-R-111°; 57°08'·53N 07°15'·38W; [992351139](#).

Gasay I ✧ Fl WR 5s 10m W7M, R7M; W twr; vis: 120°-W-284°-R-120°; 57°08'·93N 07°17'·39W.

LochBoisdaleDirLt ✧ 292·5°; WRG4s4m5M; vis: 287·5°-IsoG-290·5°-AIWG-292°-IsoW-293°-AIW-294·5°-IsoR-298·5°; 57°09'·19N 07°18'·24W.

2 FG 8m 3m on dn; 57°09'·13N 07°18'·18W.

LUDAIG and ERISKAY

Ludaig Bwtr ✧ 2 FR (vert) 6m 3M; 57°06'·17N 07°19'·49W. **Acarseid Mhor Ldg Lts** 285°. Front, Oc R 6s 9m 4M; 57°03'·89N 07°17'·25W. Rear, 24m from front, Oc R 6s 10m 4M.

BARRA, CASTLEBAY and VATERSAY SOUND

Drover Rocks ⚓ Q (6) + L Fl 15s; 57°04'·08N 07°23'·54W.

Binch Rock ⚓ Q (6) + L Fl 15s; 57°01'·60N 07°17'·12W.

Curachan ⚓ Q (3) 10s; 56°58'·56N 07°20'·51W.

NAVIGATION

Ardveinish ✨ Oc WRG 6m 9/6M; vis: 300°-G-304°-W-306°-R-310°; 57°00'·21N 07°24'·43W.

Vich Chuan ✨ Q(6)+LF1 15s; **Racon (M) 5M**; 56°56'·15N 07°23'·31W.

Channel Rk ✨ Fl WR 6s 4m W6M, R4M; vis: 121.5°-W-277°-R-121.5°; 56°56'·24N 07°28'·94W.

Rubha Glas. Ldg Lts 295°. Front ✨ FBu 9m 6M; Or △ on W twr; 56°56'·77N 07°30'·64W. Rear ✨, 457m from front, FBu 15m 6M; Or ▽ on W twr; vis: 15° and 8° respectively either side of ldg line.

Barra Hd ✨ 56°47'·12N 07°39'·21W Fl 15s 208m **18M**; W twr; obsc by islands to NE; [992351095](#).

OUTER HEBRIDES – WEST SIDE

Flannan I ✨, Eilean Mór Fl (2) 30s 101m **20M**; W twr; 58°17'·29N 07°35'·29W, obsc in part by Is W of Eilean Mór. Rockall ✨ Fl 15s 19m 8M (unreliable); 57°35'·76N 13°41'·27W. Gasker Lt ✨ Fl (3) 10s 38m 10M; 57°59'·05N 07°17'·20W. Whale Rock ✨ Q (3) 10s 5m 5M; **Racon (T)**; 57°54'·40N 07°59'·91W.

Haskeir I ✨ 57°41'·96N 07°41'·31W Fl 20s 44m **22M**; W twr; **Racon (M) 17–15M**; [992351140](#).

Monach Is ✨ Fl (2) 15s 47m **18M**; red brick twr; 57°31'·55N 07°41'·68W.

EAST LOCH ROAG

Aird Laimishader Carloway ✨ Fl 6s 63m 8M; W hut; obsc on some brgs; 58°17'·06N 06°49'·50W.

Ardvanich Pt ✨ Fl G 3s 4m 2M; 58°13'·48N 06°47'·68W.

Tidal Rk ✨ Fl R 3s 2m 2M (sync with Ardvanich Pt above); 58°13'·45N 06°47'·57W.

Grèinam ✨ Fl WR 6s 8m W8M, R7M; W bn; vis: R143°-169°, W169°-143°; 58°13'·30N 06°46'·16W.

LOCH ROAG

Rubha Domhain ✨ Fl G 5s 9m 1M; post; 58°12'·96N 06°45'·40W. Bogha na Muilne ✨ Fl (2) 10s; 58°12'·70N 06°54'·23W.

NORTH UIST and SOUTH UIST

Falconet twr ✨ FR 25m 8M (3M by day); shown 1hr before firing, changes to Iso R 2s 15 min before firing until completion; 57°22'·04N 07°23'·58W.

ST KILDA

Ldg Lts 270°. Front, Oc 5s 26m 3M; 57°48'·32N 08°34'·31W. Rear, 100m from front, Oc 5s 38m 3M; sync.

LOCH TORRIDON TO MALLAIG

LITTLE MINCH and W SKYE

Eugenie Rock ✨ Q 6 + LF 15s; 57°46'·47N 06°27'·28W.

Eilean Trodday ✨ Fl (2) WRG 10s 52m W12M, R9M, G9M; W Bn; vis: W062°-R088°-130°-W-322°-G-062°; 57°43'·63N 06°17'·93W; [992351084](#).

Uig, Edward Pier Hd ✨ 57°35'·09N 06°22'·29W Iso WRG 4s 9m W7M, R4M, G4M; vis: 180-W-006°-G-050°-W-073°-R-180°.

Waterness Pt ✨ Fl 20s 21m 8M; W twr; 57°36'·48N 06°37'·99W.

Loch Dunvegan, Uiginish Pt ✨ Fl WRG 3s 16m W7M, R5M, G5M; W lattice twr; vis: 041°-G-132°-W-145°-R-148°-W-253°-R-263°-W-273°-G-306°, (>148° obsc by Fiadhairt Pt); 57°26'·84N 06°36'·53W.

Neist Point ✨ 57°25'·41N 06°47'·30W Fl 5s 43m **16M**; W twr.

Loch Harport, Ardtreck Pt ✨ 57°20'·38N 06°25'·80W Fl 6s 18m 9M; small W twr.

RONA, LOCH A'BHRAIGE and INNER SOUND

Na Gamhnachain ✨ Q; 57°35'·89N 05°57'·71W.

Rona NE Point ✨ 57°34'·69N 05°57'·54W Fl 12s 69m 12M; W twr; vis: 050°-358°; [992351045](#).

Loch A'Bhraige, Sgeir Shuas ✨ Fl R 2s 6m 3M; vis: 070°-199°; 57°35'·02N 05°58'·61W.

Ldg bn 136.5° Q WRG3m W4M RG 3M 57° 34'·41N 5° 58'·08W.

SOUND OF RAASAY, PORTREE and CROWLIN ISLANDS

Eilean Beag ✨ Fl 6s 32m 6M; W Bn; 57°21'·21N 05°51'·42W.

Eyre Pt ✨ Fl WR 3s 6m WR8M; W clad framework twr; vis: 215°-W-267°-R-288°-W-063°; 57°20'·01N 06°01'·28W.

Sgeir Thraid ✨ Q 12m 3M; metal twr; 57°19'·82N 05°56'·50W.

Sgeir Ghobhlach ✨ Fl (3) 10s 10m 3M; metal twr; 57°15'·69N 05°52'·25W.

LOCH CARRON

Sgeir Golach ✨ Fl 10s 5m 3M; 57°21'·20N 05°39'·01W.

Eilean a Chait Lt ho (dis) 13M; 57°20'·96N 05°38'·87W.

RAASAY and LOCH SLIGACHAN

Suisnish ✨ 2 FG (vert) 8m 2M; 57°19'·87N 06°03'·91W.

Eyre Point ✨ Fl WR 3s 6m WR 8M; W twr; vis: 215°-W-267°-R-288°-W-063°; 57°20'·01N 06°01'·29W.

KYLEAKIN and KYLE OF LOCH ALSH

Eileanan Dubha East ✨ Fl (2) 10s 9m 8M; vis: obscured 104°-146°; 57°16'·56N 05°42'·32W.

8 Metre Rock ✨ Fl G 6s 5m 4M; 57°16'·60N 05°42'·69W.

Sgeir-na-Caillich ✨ Fl (2) R 6s 3m 4M; 57°15'·59N 05°38'·90W.

SOUND OF SLEAT

Kyle Rhea ✨ Fl WRG 3s 7m W8M, R5M, G5M; W Bn; vis: shore-R-219°-W-228°-G-338°-W-346°-R-shore; 57°14'·22N 05°39'·93W.

Sandaig I, NW point ✨ Fl 6s 13m 8M; W twr; 57°10'·05N 05°42'·29W.

Ornsay ✨ Oc 8s 18m 12M; vis: 157°-030°; 57°08'·60N 05°46'·85W.

Pt. of Sleat ✨ Fl 3s 20m 9M; W twr; 57°01'·08N 06°01'·08W.

MALLAIG and LOCH NEVIS ENTRANCE

Northern Pier E end ✨ Iso WRG 4s 6m W9M, R6M, G6M; Gy twr; vis: 181°-G-185°-W-197°-R-201°. Fl G 3s 14m 6M; same structure; 57°00'·47N 05°49'·50W.

Sgeir Dhearg ✨ 57°00'·63N 05°49'·61W Fl (2) WG 8s 6m 5M; Gy Bn; vis: 190°-G-055°-W-190°.

SMALL ISLES AND WEST OF MULL

CANNA and RUM

Sanday ✨ Fl 10s 32m 9M; vis: 152°-061°; 57°02'·82N 06°28'·02W.

Loch Scresort ✨ Q; 57°00'·79N 06°14'·61W.

HYSKEIR, EIGG, MUCK and ARISAIG

Hyskeir ✨ 56°58'·16N 06°40'·83W Fl (3) 30s 41m **24M**; W twr. **Racon (T) 14–17M**; [992351094](#).

SE point Eigg (Eilean Chathastail) ✨ Fl 6s 24m 8M; W twr; vis: 181°-shore; 56°52'·25N 06°07'·28W.

Eigg, Sgeir nam Bagh (Ferry Terminal) ✨ Dir 245°; Fl WRG 3s 9m W14, R11, G11; H24; steel pole; vis: 242.5°-G-244°-W-246°-R-247.5°. 2FR(vert) on same structure; 56°52'·79N 06°07'·56W.

NAVIGATION

Ferry Pier ✠ 2 FL (vert); 56 23'·92N 005 31'·02W.

Sgeirean Dubha ✠ FI (2) 12s 7m 5M; W ○ twr; 56°22'·81N 05°32'·27W.

Bogha Nuadh ⚓ Q(6)+LFI 15s; 56°21'·69N 05°37'·87W; 992351090.

Bogha Ghair ⚓ Q (3) 10s; 56°16'·50N 05°40'·44W.

Bono Rock ⚓ Q (9) 15s; 56°16'·21N 05°41'·22W.

Fladda ✠ FI (2) WRG 9s 13m W11M, R9M, G9M; W twr; vis: 169°-R-186°-W-337°-G-344°-W-356°-R-026°; 56°14'·89N 05°40'·83W.

Dubh Sgeir (Luing) ✠ FI WRG 6s 9m W6M, R4M, G4M; W twr; vis: W002°-R012°-W030°-G201°-002°; **Racon (M) 5M**; 56°14'·76N 05°40'·20W.

The Garvellachs, Eileach an Naoimh, SW end ✠ FI 6s 21m 9M; W Bn; vis: 240°-215°; 56°13'·04N 05°49'·06W.

LOCH MELFORT and CRAOBH HAVEN

Melfort Pier ✠ Dir FR 6m 3M; (Apr-Nov); 56°16'·14N 05°30'·19W.

Craobh Marina Bwtr Hd ✠ Iso WRG 5s 10m, W5M, R3M, G3M; vis:114°-G-162°-W-183°-R-200°; 56°12'·78N 05°33'·52W.

AREA 7 SW Scotland – Colonsay to Kirkcubright

SELECTED LIGHTS, BUOYS & WAYPOINTS

COLONSAY TO ISLAY

COLONSAY

Scalasaig, Rubha Dubh ✠ FI (2) WR 10s 8m W8M, R6M; W bldg; vis: shore-R- 230°-W-337°-R-354°; 56°04'·01N 06°10'·90W.

SOUND OF ISLAY

Rhubh' a Mháil (Ruvaal) ☆ 55°56'·18N 06°07'·46W FI (3) 15s 45m 19M; W twr.

Carragh an t'Struith ✠ FI 3s 8m 9M; W twr; vis: 354°-180°; 55°52'·30N 06°05'·78W.

Carraig Mòr ✠ FI (2) WR 6s 7m W8M, R6M; W twr; vis: shore-R- 175°-W-347°-R-shore; 55°50'·42N 06°06'·13W.

McArthur's Hd ✠ FI (2) WR 10s 39m W13M, R10M; W twr; W in Sound of Islay from NE coast, 159°-R-244°-W-E coast of Islay; 55°45'·84N 06°02'·90W.

Orsay Is, Rhinns of Islay ☆ 55°40'·40N 06°30'·80W FI 5s 46m 18M; W twr; vis: 256°-184°.

PORT ELLEN and LOCH INDAAL

Carraig Fhada ✠ FI WRG 3s 20m W8M, R6M, G6M; W □ twr; vis: W shore- 248°-G-311°-W-340°-R-shore; 55°37'·22N 06°12'·71W.

Otter Gander ⚓ VQ (3) 5s; 55°36'·60N 06°12'·34W.

Fhada ⚓ Q (3) 10s; 55°37'·21N 06°12'·41W.

Rubh'an Dùin ✠ FI (2) WR 7s 15m W11M, R8M; W twr; vis: shore-R-218°-W-249°-R-350°-W-shore; 55°44'·70N 06°22'·28 W.

L Indaal, Dir It 168·5°; Iso WRG 3m 4s WRG 5M, vis: 343°-G-347°-Al WG-348°-Iso W-349°-Al WR-350°-R-354°; 55°46'·01N 06°21'·63W.

JURA TO MULL OF KINTYRE

SOUND OF JURA, CRAIGHOUSE, L SWEEN and GIGHA

Skervuile ✠ FI 15s 22m 9M; 55°36'·60N 06°12'·34W; W twr.

Nine Foot Rk ⚓ Q (3) 10s; 55°52'·44N 05°52'·91W.

Goat Rock ⚓ VQ (3) 5s; 55°50'·12N 05°55'·67W.

Eilean nan Gabhar ✠ FI 5s 9m 8M; 55°50'·01N 05°56'·25W.

Craighouse ✠ FI R 6s 3m 5M; 55°49'·98N 05°56'·43W.

Na Cùiltean ✠ FI 10s 9m 9M; 55°48'·64N 05°54'·90W.

Gamhna Gigha ✠ FI (2) 6s 7m 5M; 55°43'·78N 05°41'·08W.

Bhanarach Rocks ⚓ Q (3) 5s; 55°40'·73N 05°43'·29W.

Ardminish Bay, ✠ Q (3) 10s 3m 2M; 55°40'·56N 05°43'·99W.

WEST LOCH TARBERT

Dunskeig Bay ✠ Q (2) 10s 11m 8M; 55°45'·22N 05°35'·00W.

MULL OF KINTYRE

Mull of Kintyre ☆ 55°18'·64N 05°48'·25W FI (2) 20s 91m 18M; W twr on W bldg; vis: 347°-178°.

CRINAN CANAL and ARDRISHAIG

Crinan, E of lock ent ✠ FI WG 3s 8m 4M; W twr, R band; vis: shore-W-146°-G-shore; 56°05'·48N 05°33'·37W.

Ardrihaig Bwtr Hd ✠ L FI WRG 6s 9m 4M; vis: 287°-G-339°-W- 350°-R-035°; 56°00'·76N 05°26'·59W.

LOCH FYNE TO SANDA ISLAND

EAST LOCH TARBERT

Eilean na Beithe ✠ FI WRG 3s 7m 5M; vis: G036°- W065°-R078°-106°; 55°52'·68N 05°19'·62W.

KILBRANNAN SOUND, CRANNAICH and CARRADALE BAY

Port Crannaich Bwtr Hd ✠ FI R 10s 5m 6M; vis: 099°-279°; 55°35'·60N 05°27'·84W.

Claonaig Ferry Terminal ✠ Iso WRG 3s 5m 2M (Apr-Oct); vis: 305°-G-350°-W-020°-R-040°; metal column; 55°45'·04N 05°23'·28W.

CAMPBELTOWN LOCH to SANDA ISLAND

Davaar N Pt ☆ 55°25'·69N 05°32'·42W FI (2) 10s 37m 15M; W twr; vis: 073°-330°.

Sanda Island ☆ 55°16'·50N 05°35'·01W FI 10s 50m 15M; W twr; vis: 242°-121°; 992351116.

KYLES OF BUTE TO RIVER CLYDE

BURNT ISLAND CHANNEL

Wood Fm Rk ⚓ ; 55°55'·42N 05°10'·31W.

EAST KYLE

Colintrave Pt ✠ FI R 3s 7m 2M; metal post; 55°55'·39N 05°09'·22W.

Ardmaleish Point No 41 ⚓ Q; 55°53'·02N 05°04'·70W.

FIRTH OF CLYDE

Toward Pt ☆ 55°51'·73N 04°58'·78W FI 10s 21m 22M; W twr. No 34 ⚓ Q (3) 10s; 55°51'·44N 04°59'·11W.

Skelmorlie ⚓ Iso 5s; 55°51'·65N 04°56'·34W.

WEMYSS and INVERKIP

Cowal ⚓ L FI 10s; 55°56'·00N 04°54'·83W.

The Gantocks No 31 ⚓ Q; 55°56'·56N 04°55'·13W.

DUNOON

Cloch Point ✠ FI 3s 24m 8M; W ○ twr, B band, W dwellings; 55°56'·15N 04°52'·74W.

NAVIGATION

ARRAN, RANZA, LAMLASH and BRODICK

Pillar Rk Pt ☆ (Holy Island), 55°31'·04N 05°03'·65W Fl (2) 20s 38m **18M**; W □ twr.

Holy Is SW end ☆ Fl G 3s 14m 6M; W twr; vis: 282°-147°; 55°30'·73N 05°04'·21W.

Pladda ☆ 55°25'·50N 05°07'·12W Fl (3) 30s 40m **17M**; W twr.

AYR and AILSA CRAIG

S Pier Hd ☆ Q 7m 7M; R twr; vis: 012°-161°. Also Fl G 4s 5m 5M; vis: 012°-082°; 55°28'·17N 04°38'·74W.

Ldg Lts 098°. Front, FR 10m 5M; Tfc sigs; 55°28'·15N 04°38'·38W. Rear, 130m from front Oc R 10s 18m 9M.

Maidens Hbr, E side ☆ Fl G 5s 4m 3M; 55°20'·24N 04°49'·20W. Maidens Hbr, W side ☆ Fl R 3s 4m 2M; 55°20'·23N 04°49'·19W.

Turnberry Point ☆, near castle ruins 55°19'·57N 04°50'·69W Fl 15s 29m 12M; W twr.

Ailsa Craig ☆ 55°15'·12N 05°06'·52W Fl 4s 18m **17M**; W twr; vis: 145°-028°.

GIRVAN

S Pier Hd ☆ 2 FG (vert) 8m 4M; W twr; 55°14'·72N 04°51'·90W.

LOCH RYAN and STRANRAER

Milleur Point Q; 55°01'·28N 05°05'·66W.

Fairway Q Iso 4s; 54°59'·77N 05°03'·82W.

Cairn Pt ☆ Fl (2) R 10s 14m 12M; W twr; 54°58'·46N 05°01'·85W.

Cairnryan ☆ Fl R 5s 5m 5M; 54°57'·77N 05°00'·99W.

E Pier Hd ☆ 2 FR (vert) 9m; 54°54'·61N 05°01'·60W.

Corsewall Point ☆ 55°00'·41N 05°09'·58W Fl (5) 30s 34m **22M**; W twr; vis: 027°-257°.

Black Hd Old Lt Ho; W tower, 22m; 54°51'·70N 05°08'·80W.

PORTPATRICK

Ldg Lts 050·5°. Front, FG (occas); 54°50'·50N 05°07'·02W. Rear, 68m from front, FG 8m (occas).

Crammag Hd ☆ 54°39'·90N 04°57'·92W Fl 10s 35m **18M**; W twr.

Mull of Galloway ☆, SE end 54°38'·11N 04°51'·45W Fl 20s 99m **18M**; W twr; vis: 182°-105°.

MULL OF GALLOWAY and WIGTOWN BAY

Port William Ldg Lts 105°. Front, Pier Hd Fl G 3s 7m 3M; 54°45'·66N 04°35'·28W. Rear, 130m from front, FG 10m 2M.

Isle of Whithorn ☆ Fl WR 3s 20m 6/4M; vis: 310°-W-005°-R-040°; 54°41'·79N 04°21'·54W.

Whithorn Ldg Lts 335°. Front, Oc R 8s 7m 7M; Or ◆; 54°42'·01N 04°22'·05W. Rear, 35m from front, Oc R 8s 9m 7M; Or ◆, sync.

Little Ross ☆ Fl 5s 50m 12M; W twr; obsc in Wigtown B when brg more than 103°; 54°45'·93N 04°05'·10W.

KIRKCUDBRIGHT BAY and KIPPFORD

Little Ross NNE end of Is ☆ Fl (2) 5s 21m 5M; Stone bn; 54°46'·06N 04°05'·02W.

Hestan I, E end ☆ Fl (2) 10s 42m 9M; 54°49'·95N 03°48'·53W.

AREA 8 NW England, Isle of Man & N Wales – Solway Firth to Bardsey I

SELECTED LIGHTS, BUOYS & WAYPOINTS

SOLWAY FIRTH TO BARROW-IN-FURNESS

SILLOTH and MARYPORT

Lees Scar ☆ Fl G 5s 11m 4M; W piles; 54°51'·78N 03°24'·79W.

Groyne Hd ☆ 2 FG (vert) 4m 4M; Fl Bu tfc signals close by; 54°52'·14N 03°23'·93W.

Maryport S Pier Hd ☆ Fl 1·5s 10m 6M; 54°43'·07N 03°30'·64W.

WORKINGTON and HARRINGTON

N Workington Q; 54°40'·10N 03°38'·18W.

S Workington VQ (6) + L Fl 10s; 54°37'·01N 03°38'·58W.

South Pier ☆ Fl 5s 11m 5M; R bldg; 54°39'·12N 03°34'·67W.

Ldg Lts 131·8°. Front, FR 10m 3M; 54°38'·92N 03°34'·19W.

Rear, 134m from front, FR 12m 3M.

WHITEHAVEN

W Pier Hd ☆ Fl G 5s 16m 8M; W ○ twr; 54°33'·17N 03°35'·92W.

N Pier Hd ☆ Fl R 5s 8m 10M; W ○ twr; 54°33'·17N 03°35'·75W.

Saint Bees Hd ☆ 54°30'·81N 03°38'·23W Fl (2) 20s 102m **18M**; W ○ twr; obsc shore-340°.

RAVENGLASS

Blockhouse ☆ FG; (Eskdale Range); 54°20'·16N 03°25'·34W.

BARROW-IN-FURNESS

Isle of Walney ☆ Fl 15s 21m 10M; stone twr; obsc 122°-127° within 3M of shore; 54°02'·92N 03°10'·64W.

ISLE OF MAN

Ballacash Bank VQ (9) 10s; 54°26'·50N 04°16'·70W.

Whitestone Bank Q (9) 15s; 54°24'·58N 04°20'·41W.

Point of Ayre ☆ 54°24'·94N 04°22'·13W Fl (4) 20s 32m **19M**; W twr, two R bands, *Racon (M) 13-15M*.

Low Lt Ho (unlit), RW twr, B base, 54°25'·03N 04°21'·86W.

PEEL

Peel Bwtr Hd ☆ Oc 7s 11m 6M; W twr; 54°13'·67N 04°41'·69W.

PORT ERIN and PORT ST MARY

Ldg Lts 099·1°. Front, 54°05'·23N 04°45'·57W FR 10m 5M; W twr, R band. Rear, 39m from front, FR 19m 5M; W col, R band.

Calf of Man Lighthouse (disused), white 8-sided tower.

Chicken Rk ☆ Fl 5s 38m **18M**; *Racon (C) 54°02'·27N 04°50'·32W*

Alfred Pier Hd ☆ Oc R 10s 8m 6M; 54°04'·33N 04°43'·82W.

CASTLETOWN and DERBY HAVEN

Dreswick Pt ☆ Fl (2) 30s 23m 12M; W twr; 54°03'·29N 04°37'·45W.

New Pier Hd ☆ Oc R 15s 8m 5M; 54°04'·33N 04°38'·97W.

Derby Haven, Bwtr SW end ☆ Iso G 2s 5m 5M; W twr, G band; 54°04'·58N 04°37'·06W.

DOUGLAS

Douglas Head ☆ 54°08'·60N 04°27'·95W Fl 10s 32m **15M**; W twr; obsc brg more than 037°. FR Lts on radio masts 1 and 3M West.

Princess Alexandra Pier Hd ☆ Fl R 5s 16m 8M; R mast; *Whis (2) 40s*; 54°08'·84N 04°27'·85W.

Victoria Pier Hd ☆ Iso G 10s 6m 10M; Post; Intl Port Tfc Signals; 54°08'·84N 04°28'·08W.

NAVIGATION

(H24); W \bigcirc twr; obsc to N by N Stack and part obsc in Penrhos bay; *Horn* 30s. Fog Det It vis: 145°-325°.

MENAI STRAIT TO BARDSEY ISLAND

Trwyn-Du \star FI 5s 19m 12M; W \bigcirc castellated twr, B bands; vis: 101°-023°; *Horn* (3) 30s, sounded continuously; 53°18'·77N 04°02'·45W.

MENAI STRAIT

(Direction of buoyage \curvearrowright NE to SW)

Perch Rock \mathcal{L} FI R 5s; 53°18'·73N 04°02'·09W.

Port Dinorwic Pier Hd \star 53°11'·21N 04°12'·60W F WR 5m 2M; vis: 225°-R-357°-W-225°.

(Direction of buoyage \curvearrowright SW to NE)

Caernarfon N Pier \star 2 FG(vert) 5m 2M; 53°08'·72N 04°16'·56W.

Abermenai Point \star FI WR 3·5s 6m 3M; W mast; vis: 065°-R-245°-W-065°; 53°07'·62N 04°19'·72W.

Caernarfon Bar \mathcal{L} L FI 10s; 53°07'·00N 04°25'·00W.

Llanddwyn I \star FI WR 2·5s 12m W7M, R4M; W twr; vis: 280°-R-015°-W-120°; 53°08'·05N 04°24'·79W.

PORTH DINLLÄEN

CG Stn \star FR when firing 10M N; 52°56'·82N 04°33'·89W.

Careg y Chwislen \mathcal{L} FI (2) 10s 2M 52°56'·99N 04°33'·51W.

Bardsey I \star 52°44'·97N 04°48'·02W FI R 10s 39m **18M**; W \square twr, R bands; obsc by Bardsey Is 198°-250° and in Tremadoc B when brg < 260°.

AREA 9 s Wales & SW England – Cardigan Bay to St Ives

SELECTED LIGHTS, BUOYS & WAYPOINTS

CARDIGAN BAY

Bardsey I \star 52°44'·98N 04°48'·01W FI R 10s 39m **18M**; W \square twr, R bands; obsc by Bardsey I 198°-250° and in Tremadoc B when brg less than 260°.

St Tudwal's \star FI WR 15s 46m W14, R10M; vis: 349°-W-169°-R-221°-W-243°-R-259°-W-293°-R-349°; obsc by East I 211°-231°; 52°47'·92N 04°28'·30W.

PWLLHELI and PORTHMADOG

Pwllheli App \mathcal{L} Iso 2s; 52°53'·03N 04°22'·90W.

BARMOUTH and ABERDOVEY

Barmouth Outer \mathcal{L} L FI 10s; 52°42'·81N 04°04'·89W.

Aberdovey Outer \mathcal{Q} Iso 4s; 52°32'·00N 04°05'·55W.

Cynfelyn Patches, Patches \mathcal{L} Q (9) 15s; 52°25'·83N 04°16'·41W.

ABERYSTWYTH, ABERAERON and NEW QUAY

Aberystwyth S Bwtr Hd \star FI (2) WG 10s 12m 10M; vis: 030°-G-053°-W-210°; 52°24'·40N 04°05'·52W.

Ldg Lts 133°. Front, FR 4m 5M; 52°24'·37N 04°05'·39W. Rear, 52m from front, FR 7m 6M.

Aberaeron N Pier \star FI (4) WRG 15s 10m 6M; vis: 050°-G-104°-W-178°-R-232°; 52°14'·61N 04°15'·87W.

Carreg Ina \mathcal{L} Q; 52°13'·19N 04°20'·70W.

New Quay Pier Hd \star FI WG 3s 12m W8M, G5M; G \triangle ; vis: 135°-W-252°-G-295°; 52°12'·95N 04°21'·35W.

CARDIGAN and FISHGUARD

Cardigan Channel \mathcal{L} FI (2) 5s; 52°06'·44N 04°41'·43W.

Cardigan Cliff Base Bn 1 \star FI R 4s 3M; 52°07'·05N 04°41'·39W.

Cardigan Cliff Base Bn 2 \star FI R 2s 3M; 52°06'·91N 04°41'·34W.

Fishguard N Bwtr Hd \star FI G 4·5s 18m 13M; *Bell* (1) 8s; 52°00'·76N 04°58'·23W.

Strumble Head \star 52°01'·79N 05°04'·43W FI (4) 15s 45m **26M**; vis: 038°-257°; (H24).

BISHOPS and SMALLS

South Bishop \star 51°51'·14N 05°24'·74W FI 5s 44m **16M**; W \bigcirc twr; *Horn* (3) 45s; *Racon* (O) **10M**; (H24).

The Smalls \star 51°43'·27N 05°40'·19W FI (3) 15s 36m **18M**; *Racon* (T); *Horn* (2) 60s. Same twr, Iso R 4s 33m 13M; vis: 253°-285° over Hats & Barrels Rk; both Lts shown H24 in periods of reduced visibility; [992351126](#).

Skokholm I \star 51°41'·64N 05°17'·22W FI WR 10s 54m W8M, R8M; vis: 301°-W-154°-R-301°; partially obsc 226°-258°.

WALES – SOUTH COAST – BRISTOL CHANNEL

MILFORD HAVEN

St Ann's Head \star 51°40'·87N 05°10'·42W FI WR 5s 48m **W18M, R17M, R14M**; W 8-sided twr; vis: 233°-W-247°-R-332°-W131°, partially obscured 124°-129°; *Horn* (2) 60s.

W Blockhouse Pt \mathcal{L} Ldg Lts 022·5°. Front, F 54m 13M (day 10M); B stripe on W twr; vis: 004·5°-040·5°; intens on lead line. vis: 004·5°-040·5°; *Racon* (Q); 51°41'·31N 05°09'·56W.

Watwick Point Common \star 0·5M from front, F 80m **15M** (day 10M); vis: 013·5°-031·5°; *Racon* (Y).

Dale Fort \star FI (2) WR 5s 20m W5M, R3M; vis: 222°-R-276°-W-019°; 51°42'·16N 05°09'·01W.

Gt Castle Hd \mathcal{L} F WRG 27m W5M, R3M, G3M; vis: 243°-R-281°-G-299°-W-029°; 51°42'·68N 05°07'·06W. Co-located Dir WRG (040°); vis: 038·25°-G-039°-AIWG-039·5°-W-040·5°-AIWR-041°-R-041·75° (not used in conjunction with the front ldg light below) **Ldg Lts** \neq 039·7° **Front**, Oc 4s 27m **15M**; vis: 031·2°-048·2°. **Rear**, 890m from front. Oc 8s 53m **15M** (day 10M); vis: 031·2°-048·2°.

Mid Channel Rks \mathcal{L} Q (9) 15s; 51°40'·18N 05°10'·14W.

Mid Channel Rk \star FI (3) G 7s 18m 8M; 51°40'·31N 05°09'·83W. Angle \mathcal{L} VQ; 51°41'·63N 05°08'·27W.

Thorn Rock \mathcal{L} Q (9) 15s; 51°41'·53N 05°07'·76W.

Turbot Bank \mathcal{L} VQ (9) 10s; 51°37'·41N 05°10'·08W.

St Gowan \mathcal{L} Q (6) + L FI 15s, *Racon* (T) **10M**; 51°31'·93N 04°59'·77W; [992351126](#).

TENBY to SWANSEA BAY

Caldey I \star FI (3) WR 20s 65m W13M, R9M; vis: R173°-W212°-R088°-102°; 51°37'·90N 04°41'·08W.

Woolhouse \mathcal{L} Q (6) + L FI 15s; 51°39'·35N 04°39'·69W.

Burry Port Inlet \star FI 5s 7m 6½M; 51°40'·62N 04°15'·06W. W. Helwick \mathcal{L} (9) 15s; *Racon* (T) **10M**; 51°31'·40N 04°23'·65W.

E. Helwick \mathcal{L} VQ (3) 5s; *Bell*; 51°31'·80N 04°12'·68W.

SWANSEA BAY and SWANSEA

Ledge \mathcal{L} VQ (6) + L FI 10s; 51°29'·93N 03°58'·77W.

Outer Spoil Gnd \mathcal{Q} FI Y 2·5s; 51°32'·11N 03°55'·73W.

Grounds \triangle VQ (3) 5s; 51°32'·81N 03°53'·47W.

Mumbles \star 51°34'·01N 03°58'·27W Fl (4) 20s 35m 15M; W twr; *Horn* 3s.

SW Inner Green Grounds \triangle Q(3) 10s; 51°34'·21N 03°57'·12W.

Swansea Lts in line 020°. Front: E Breakwater head, Oc G 4s 5m 2M & 2FG(vert) 10m 6M; 51°36'·38N 03°55'·62W. Rear, 3·1ca from front: FG 6M.

SWANSEA BAY, RIVER NEATH and PORT TALBOT

Cabenda \triangle Q (6) + L Fl 15s; *Racon* (Q); 51°33'·36N 03°52'·23W.

Ldg Lts 059·8° (occas). Front, Oc R 3s 12m 6M; 51°34'·92N 03°48'·10W. Rear, 400m from front, Oc R 6s 32m 6M.

BRISTOL CHANNEL – NORTH SHORE (E PART)

W Scar \triangle Q (9) 15s, *Bell*, *Racon* (T) 10M; 51°28'·31N 03°55'·57W.

South Scar (S SCAR) \triangle Q(6) + L Fl 15s; 51°27'·61N 03°51'·58W. E. Scarweather \triangle Q(3) 10s; *Bell*; 51°27'·98N 03°46'·76W.

PORHCRAWL

Fairy \triangle Q (9) 15s; *Bell*; 51°27'·86N 03°42'·07W.

Bwtr Hd \star 51°28'·39N 03°41'·98W F WRG 10m W6M, R4M, G4M; vis: 302°-G-036°-W-082°-R-116°.

W Nash \triangle VQ (9) 10s; *Bell*; 51°25'·99N 03°45'·95W.

Nash \star 51°24'·03N 03°33'·06W Fl (2) WR 15s 56m **W19M, R14M**; vis: 280°-R-290°-W-100°-R-120°-W-128°.

Breaksea \triangle L Fl 10s; *Racon* (T) 10M; 51°19'·88N 03°19'·08W; 992351124.

BARRY

W Bwtr Hd \star Fl 2·5s 12m 10M; 51°23'·46N 03°15'·52W.

N. One Fathom \triangle Q; 51°20'·94N 03°12'·17W.

CARDIFF and PENARTH ROADS

S Cardiff \triangle Q (6) + L Fl 15s; *Bell*; 51°24'·18N 03°08'·57W. Wrach Chan Dir It 348·5°. Oc WRG 10s 5m; W3M, R3M, G3M; vis: 344·5°-G-347°-W-350°-R-352°; H24; 51°27'·16N 03°09'·75W.

Outer Wrach \triangle Q (9) 15s; 51°26'·20N 03°09'·46W.

FLATHOLM to THE BRIDGE

Flat Holm \star , SE Pt 51°22'·54N 03°07'·14W Fl (3) WR 10s 50m **W15M, R12M**; W \circ twr; vis: 106°-R-140°-W-151°-R-203°-W-106°; (H24).

Monkstone \star Fl 5s 13m 12M; R column on W \circ twr; 51°24'·89N 03°06'·01W.

Hope \triangle Q (3) 10s; 51°24'·84N 03°02'·68W.

NW Elbow \triangle VQ (9) 10s; *Bell*; 51°26'·28N 02°59'·93W.

EW Grounds \triangle L Fl 10s 7M; *Bell*; *Racon* (T) 7M; 51°27'·12N 02°59'·95W.

NEWPORT DEEP, RIVER USK and NEWPORT

East Usk \star 51°32'·40N 02°58'·01W; Oc WRG 10s 10m W11M, R9M, G9M; vis: 011°-G-015°-W- 017°-R-021°.

Julians Pill Ldg Lts 062°. Front, F Bu 5m 5M; 51°33'·32N 02°57'·94W. Rear, 44m from front, F Bu 8m 5M.

BRISTOL CHANNEL – SOUTH SHORE (E PART)

BRISTOL DEEP

S Mid Grounds \triangle VQ(6) + L Fl 10s; 51°27'·62N 02°58'·68W. Clevedon \triangle VQ; 51°27'·39N 02°54'·93W.

Welsh Hook \triangle Q(6) + L Fl 15s; 51°28'·53N 02°51'·86W.

Avon \triangle Fl G 2·5s; 51°27'·92N 02°51'·73W.

Black Nore Pt Lt Ho; W \circ twr on frame; 51°29'·09N 02°48'·05W.

Denny Shoal \triangle VQ(6) + L Fl 10s; 51°30'·15N 02°45'·45W.

Portishead Point \star 51°29'·68N 02°46'·42W Q (3) 10s 9m 16M; B twr, W base; vis: 060°-262°; *Horn* 20s.

PORTISHEAD

Pier Hd \star Iso G 2s 5m 3M; 51°29'·69N 02°45'·27W.

Seabank \star ldg line 086·8°; W Mast, Q(8) 5M 16m; vis: 070·3°-103·3°; day 1M vis: 076·8°-096·8°; 51°30'·09N 02°43'·36W.

Knuckle Lts in line 099·6°, Oc G 5s 6m 6M; 51°29'·94N 02°43'·67W. Rear, 165m from front, FG 13m 6M; vis: 044°-134°.

AVONMOUTH

Royal Edward Dock N Pier Hd \star Fl 4s 15m 10M; vis: 060°-228·5°; 51°30'·49N 02°43'·09W.

King Road Ldg Lts 072·4°. N Pier Hd \star Front, Oc R 5s 5m 9M; W obelisk, R bands; vis: 062°-082°; 51°30'·49N 02°43'·09W. Rear \star , 546m from front, QR 15m 10M; vis: 066°-078°.

RIVER AVON, CUMBERLAND BASIN and AVON BRIDGE

S Pier Hd \star Oc RG 30s 9m 10M and FBu 4m 1M; vis: 294°-R-036°-G-194°; 51°30'·37N 02°43'·10W. *Bell*(T) 10s.

BRISTOL CHANNEL (SOUTH SHORE)

WESTON-SUPER-MARE

Pier Hd \star 2 FG (vert) 6m; 51°20'·88N 02°59'·26W.

E Culver \triangle Q (3) 10s; 51°18'·00N 03°15'·44W.

W Culver \triangle VQ (9) 10s; 51°17'·47N 03°19'·00W.

BURNHAM-ON-SEA and RIVER PARRETT

Ent \star Fl 7·5s 7m 12M; vis: 074°-164°; 51°14'·89N 03°00'·36W;

Dir It 080°. F WRG 4m W12M, R10M, G10M; vis: 071°-G-075°-W-085°-R-095°.

WATCHET, MINEHEAD and PORLOCK WEIR

Watchet W Bwtr Hd \star Oc G 3s 9m 9M; 51°11'·03N 03°19'·74W.

Watchet E Pier \star 2 FR (vert) 3M; 51°11'·01N 03°19'·71W.

Minehead Bwtr Hd \star Fl(2) G 5s 4M; vis: 127°-262°; 51°12'·81N 03°28'·35W.

Lynmouth Foreland \star 51°14'·73N 03°47'·21W Fl (4) 15s 67m 18M; W \circ twr; vis: 083°-275°.

LYNMOUTH and WATERMOUTH

River Training Arm \star 2 FR (vert) 6m 5M; 51°13'·90N 03°49'·83W.

Harbour Arm \star 2 FG (vert) 6m 5M; 51°13'·92N 03°49'·84W.

Watermouth \star Oc WRG 5s 1m 3M; W \triangle ; vis: 149·5°-G-151·5°-W- 154·5°-R-156·5°; 51°12'·93N 04°04'·60W.

ILFRACOMBE to BAGGY POINT

Ldg Lts 188°. Front, Oc 10s 8m 3M; 51°12'·53N 04°06'·65W. Rear, Oc 10s 6m 3M.

Horseshoe \triangle Q; 51°15'·03N 04°12'·96W; *ALS*.

Bull Point \star 51°11'·94N 04°12'·09W Fl (3) 10s 54m 20M; W \circ twr, obscd shore-056°. Same twr; FR 48m 12M; vis: 058°-096°.

NAVIGATION

BIDEFORD, RIVERS TAW and TORRIDGE

Bideford Fairway \searrow L Fl 10s; *Bell*; 51°05'·25N 04°16'·25W.

Instown \star Ldg Lts 118°. **Front**, 51°03'·62N 04°10'·66W Oc 6s 22m **15M**; vis: 103·5°-132°. **Rear**, 427m from front, Oc 10s 38m **15M**; vis: 103°-132·5°; (H24).

Crow Pt \star Fl WR 2. 5s 8m W6M R5M; vis: 225°-R-232°-W-237°-R-358°-W- 015°-R-045°; 51°03'·96N 04°11'·39W.

LUNDY

North Pt \star 51°12'·10N 04°40'·65W Fl 15s 48m **18M**; vis: 009°-285°.

South East Pt \star 51°09'·72N 04°39'·37W Fl 5s 53m **15M**; vis: 170°-073°.

Hartland Point \star 51°01'·3N 04°31'·6W Fl (6) 15s 30m 8M; adjacent to Hartland Point Light House (disused).

NORTH CORNWALL

BUDE, PADSTOW and NEWQUAY

Compass Pt twr 50°49'·71N 04°33'·42W.

Stepper Pt (Padstow) \star LFl 10s 12m 4M; 50°34'·12N 04°56'·72W.

Trevoise Head \star 50°32'·94N 05°02'·13W Fl 7·5s 62m **21M**. North Pier Hd (Newquay) \star 2 FG (vert) 5m 2M; 50°25'·07N 05°05'·19W.

HAYLE and ST IVES

The Stones \searrow Q; 50°15'·64N 05°25'·51W.

Godrevy I \star Fl WR 10s 28m 8M; metal post; vis: 022°-W-101°-R-145°-W-272°; 50°14'·56N 05°24'·01W; adjacent to Godrevy Light House (disused).

Hayle App \searrow Q; 50°12'·28N 05°26'·20W.

Bann Shoal \searrow Fl G 2.5s; *Racon (B)* **10M**; 50°20'·03N 05°51'·11W; **992351053**.

Pendeen \star 50°09'·90N 05°40'·30W Fl (4) 15s 59m **16M**; vis: 042°-240°; between Gurnard Hd and Pendeen it shows to coast.

1	Aberystwyth	1	12	64	66	122	164	192	224	254	286	299	318	361	Kilrush	12
2	Fishguard	40	2	11	13	69	111	139	171	201	233	246	265	308	Dingle	11
3	Milford Haven	84	48	3	10	56	102	131	165	188	227	242	252	295	Valentia	10
4	Tenby	107	71	28	4	9	42	70	102	132	164	177	196	239	Baltimore	9
5	Swansea	130	94	55	36	5	8	35	69	95	135	150	168	202	Kinsale	8
6	Cardiff	161	125	86	66	46	6	7	34	65	100	115	133	172	Youghal	7
7	Sharpness	192	156	117	106	75	33	7	6	32	69	84	102	139	Dunmore East	6
8	Avonmouth	175	139	100	89	58	20	18	8	5	34	47	66	108	Rosslare	5
9	Burnham-on-Sea	169	133	94	70	48	53	50	33	9	4	15	36	75	Arklow	4
10	Ilfracombe	128	92	53	35	25	44	74	57	45	10	3	21	63	Wicklow	3
11	Padstow	142	106	70	70	76	97	127	110	98	55	11	2	48	Dun Laoghaire	2
12	Longships	169	133	105	110	120	139	169	152	140	95	50	12	1	Carlingford Lough	1

AREA 10 Ireland – Clockwise from Lambay Island

SELECTED LIGHTS, BUOYS & WAYPOINTS

LAMBAY ISLAND TO TUSKAR ROCK

MALAHIDE and LAMBAY ISLAND

Taylor Rks \searrow Q; 53°30'·21N 06°01'·87W.

Malahide approach \searrow L Fl 10s; 53°27'·12N 06°06'·87W.

HOWTH

Rowan Rocks \searrow Q (3) 10s; 53°23'·88N 06°03'·27W.

E Pier Hd \star Fl (2) WR 7·5s 13m W12M, R9M; W twr; vis: W256°- R295°-256°; 53°23'·64N 06°04'·02W.

Baily \star 53°21'·69N 06°03'·16W Fl 15s 41m **18M**; twr. Fog Det Lt VQ; **992501010**.

Rosbeg E \searrow Q (3) 10s; 53°21'·02N 06°03'·45W.

Rosbeg S \searrow Q (6) + L Fl 15s; 53°20'·22N 06°04'·17W.

PORT OF DUBLIN

Dublin Bay \searrow Iso 4s; *Racon (M)*; 53°19'·92N 06°04'·65W; **992351301**.

Great S Wall Hd Poolbeg \star Fl R 4s 20m 10M (*sync with N.Bull*); R \circ twr; 53°20'·52N 06°09'·08W.

N Bull \star Fl G 4s 15m 10M; G \circ twr; 53°20'·70N 06°08'·98W.

N Bank \star 53°20'·69N 06°10'·59W Oc G 8s 10m **16M**; G \square twr.

DUNLAOGHAIRE

E Bwrth Hd \star Fl (2) R 8s 16m **17M**; granite twr, R lantern

7M; 53°18'·14N 06°07'·62W. Fog Det Lt VQ.

Muglins \star Fl R 5s 14m 11M; 53°16'·52N 06°04'·58W; **992501019**.

OFFSHORE MARKS

Bennett Bank \searrow Q(6)+ L Fl 15s; 53°20'·17N 05°55'·11W; **992501012**.

Kish Bank \star 53°18'·65N 05°55'·54W Fl (2) 20s 29m **21M** (H24); W twr, R band; *Racon (T)* **15M**; **992501017**.

N Kish \searrow VQ; 53°18'·56N 05°56'·44W.

N Burford \searrow Q 53°20·51'N 06° 01'·49W; **992501016**.

S Burford \searrow VQ(6)+L Fl 10s; 53°18'·06N 06° 01·30'W; **992501018**.

S Codling \searrow VQ (6) + L Fl 10s; 53°04'·54N 05°49'·13W.

Codling \searrow Q(3) 10s; 53°04·19'N 005°37·36'W, *Racon (G)* **10M**, **992501028**.

North India \searrow Q; 53°03'·12N 05°53'·46W.

S India \searrow Q (6) + L Fl 15s; 53°00'·36N 05°53'·31W; **992501030**.

WICKLOW to ARKLOW

E Pier Hd \star Fl WR 5s 11m 6M; W twr, R base and cupola; vis: 136°-R-293°-W-136°; 52°58'·99N 06°02'·07W.

W Packet Quay Hd \star Fl WG 10s 5m 6M; vis: 076°-G- 256°-W-076°; 52°58'·88N 06°02'·08W.

Wicklow Hd ☆ 52°57'·93N 05°59'·93W Fl (3) 15s 37m **18M**; W twr; [992501031](#).

N Arklow Q; 52°53'·86N 05°55'·21W; [992501034](#).

Arklow Bank Wind Farm from 52°48'·47N 05°56'·57W to 52°46'·47N 05°57'·11W, N and S Turbines Fl Y 5s14m 10M. No 7 Turbine [992501302](#). Other turbines Fl Y 5s.

ARKLOW to WEXFORD

S Pier Hd ☆ Fl WR 6s 11m 13M; twr; vis: R shore- W223°-R350°-shore; 52°47'·61N 06°08'·22W.

Roadstone Bwtr Hd ☆ QY; 52°46'·65N 06°08'·23W.

S Arklow Q (6) + LFI 15s; **Racon (O) 10M**; 52°40'·20N 05°58'·89W; [992501040](#).

Courtown ☆ Fl R 5s 2m 3M; twr; 52°38'·61N 06°13'·45W.

Courtown ☆ Fl G 5s 2m 3M; twr; 52°38'·61N 06°13'·45W.

Blackwater Q; 52°32'·22N 06°09'·51W; [992501046](#).

SE Blackwater Q (3) 10s, 52°25'·64N 06°08'·42W; **Racon (M) 6M**; [992501050](#).

S Blackwater Q (6) + L FI 15s; 52°22'·76N 06°12'·87W.

North Long Q; 52°21'·44N 06°17'·04W.

Lucifer VQ (3) 5s; 52°17'·02N 06°12'·67W; [992501054](#).

ROSSLARE

Rosslare Pier Hd ☆ Oc WRG 5s 15m W13M, R10M, G10M; R twr; vis:098°-G-188°-W-208°-R-246°-G-283°-W-286°-R-320°; 52°15'·43N 06°20'·29W.

Ballygeary ☆ Oc WR 1-7s 7m 4M vis: shore-R-152°-W-200°-W(unintens)-205°; 52°15'·25N 06°20'·48W.

TUSKAR ROCK TO OLD HEAD OF KINSALE

Tuskar ☆ 52°12'·18N 06°12'·42W Q (2) 7-5s 33m **18M**; W twr; **Racon (T) 18M**; [992501065](#).

S Rock Q (6)+L FI 15s; 52°10'·80N 06°12'·84W.

Barrels Q (3) 10s; 52°08'·32N 06°22'·05W; [992501070](#).

KILMORE

Kilmore Bwtr Hd ☆ Q RG 7m 5M; vis: 269°-R-354°-G-003°-R-077°; 52°10'·20N 06°35'·15W.

Ldg lts 007·9°, Front 52°10'·37N 06°35'·08W Oc 4s 3m 6M. Rear, 100m from front, Oc 4s 6m 6M; sync with front.

Bore Rks Q (3) 10s; 52°06'·07N 006°31'·87W; [992501072](#).

Coningbeg Q(6)+LFI 15s; 52°03'·20N 06°38'·57W; **Racon (G) 9M**; [992501074](#).

Red Bank VQ (9) 10s; 52°04'·499'N 006°41'·652'W; [992501076](#).

'M5' ODAS 35 51°41'·40N 06°42'·24W; Fl (5) Y 20s.

WATERFORD

Hook Hd ☆ 52°07'·42N 06°55'·76W Fl 3s 46m **18M**; W twr, two B bands; **Racon (K) 10M**. Fog Det Lt VQ. [992501079](#).

Duncannon Dir It ☆ F WRG 13m 10M, white tower on fort, 359·5°-FG-001·2°-Alt FG-001·7°-FW-002·4°-Alt WR-002·9°-FR-004·5°; 52°13'·23N 06°56'·25W; Oc WR 4s 13m W 9M R 7M on same tower, 119°-R-149°-W-172°.

Passage Pt ☆ Fl WR 5s 7m W6M, R5M; R pile structure; vis: 114°-W-127°-R-180°-W-302°-R-021° (shore); 52°14'·26N 06°57'·77W.

Cheek Pt ☆ Q WR 6m 5M; W mast; vis: W007°-R289°-007°; 52°16'·12N 06°59'·38W.

Sheagh ☆ Fl R 3s 29m 3M; Gy twr; vis: 090°-318°; 52°16'·29N 06°59'·34W.

Snowhill Point Ldg lts 255°. Front, Fl WR 2-5s 5m 3M; vis: W222°-R020°-W057°-107°; 52°16'·39N 07°00'·91W. Rear,

Flour Mill, 750m from front, Q 12m 5M.

Queen's Chan Ldg lts 098°. Front, QR 8m 5M; B twr, W band; vis: 030°-210°; 52°15'·32N 07°02'·38W. Rear, 550m from front, Q 15m 5M; W mast.

Beacon Quay ☆ Fl G 3s 9m; vis: 255°-086°; 52°15'·50N 07°04'·21W.

Cove ☆ Fl WRG 6s 6m 2M; W twr; vis: R111°-G161°-W234°-111°; 52°15'·05N 07°05'·16W.

Smelting Ho Pt ☆ Q 8m 3M; W mast; 52°15'·15N 07°05'·27W.

Ballycar ☆ Fl RG 3s 5m; vis: G127°-R212°-284°; 52°15'·06N 07°05'·51W.

DUNMORE EAST

East Pier Head ☆ 52°08'·93N 06°59'·34W Fl WR 8s 13m **W17M**, R13M; Gy twr, vis: W225°-R310°-004°.

W Wharf ☆ Fl G 2s 6m 4M; vis: 165°-246°; 52°08'·97N 06°59'·45W.

DUNGARVAN

Ballinacurvy Pt ☆ Fl (2) WRG 10s 16m W10M, R8M, G8M; W twr; vis: G245°-W274°-R302°-W325°-117°; 52°04'·69N 07°33'·18W.

Helvick Q (3) 10s; 52°03'·61N 07°32'·25W.

Mine Head ☆ 51°59'·56N 07°35'·23W Fl (4) 30s 87m 12M; W twr, B band; vis: 228°-052°; [992501085](#).

YOUGHAL

Bar Rocks Q (6) + L FI 15s; 51°54'·85N 07°50'·05W.

Blackball Ledge Q (3) 10s, 51°55'·34N 07°48'·53W.

W side of ent ☆ 51°56'·57N 07°50'·53W Fl WR 2-5s 24m **W17M**, R13M; W twr; vis: W183°-R273°-W295°-R307°-W351°-003°.

BALLYCOTTON

Ballycotton ☆ 51°49'·50N 07° 59'·13W; Fl WR 10s 59m **W18M**, R14M; B twr, within W walls, B lantern; vis: 238°-W-041°-R-238°; [992501093](#).

Power Q (6) + LFI 15s; 51°45'·59N 08°06'·67W; [992501098](#).

CORK

Cork L FI 10s; 51°42'·92N 08°15'·60W; **Racon (T) 7M**; [992501100](#).

Fort Davis Ldg lts 354·5°. Front, 51°48'·83N 08°15'·79W, H24 Dir WRG 25m **17M**; vis: 351·5°-FG-352·5°-QG-353·5°-FW-355·5°-QR-356·5°-FR-357·5°. Rear, Dognose Quay, 203m from front, Oc 5s 37m 10M; Or 3, sync with front.

Roche's Pt ☆ 51°47'·58N 08°15'·29W Fl WR 3s 30m **W18M**, R12M; vis: shore-R-292°-W-016°-R-033°, 033°-W (unintens)-159°-R-shore; [992501099](#).

White Bay Ldg lts 034·6°. Front, Oc R 5s 11m 5M; W hut; 51°48'·53N 08°15'·22W. Rear, 113m from front, Oc R 5s 21m 5M; W hut; sync with front.

Spit Bank Pile ☆ Iso WR 4s 10m W10M, R7M; W house on R piles; vis: R087°-W196°-R221°-358°; 51°50'·72N 08°16'·45W.

KINSALE and OYSTER HAVEN

Bulman Q (6) + L FI 15s; 51°40'·14N 08°29'·74W; [992501104](#).

Charlesfort ☆ Fl WRG 5s 18m W9M, R6M, G7M; vis: G348°-W358°-R004°-168°; H24; 51°41'·75N 08°29'·84W.

OLD HEAD OF KINSALE TO MIZEN HEAD

Old Head of Kinsale ☆, S point 51°36'·29N 08°32'·02W Fl (2) 10s 72m **20M**; B twr, two W bands; [992501107](#).

NAVIGATION

COURTMACSHERRY

Barrel Rock \downarrow 51°37'·01N 08°37'·30W.

Wood Pt (Land Pt) \star Fl (2) WR 5s 15m 5M; vis: W315°-R332°-315°; 51°38'·16N 08°41'·00W.

Galley Head \star summit 51°31'·80N 08°57'·21W Fl (5) 20s 53m 23M; W twr; vis: 256°-065°.

GLANDORE and CASTLETOWNSHEND

Glandore Dir It \star Oc WRG 37m 7M, metal tower, vis: 294°-G-304°-W-312°-R-342°; 51°33'·33N 09°07'·08W.

Reen Point \star Fl WRG 10s 9m W5M, R3M, G3M; W twr; vis: shore-G-338°-W-001°-R-shore; 51°30'·98N 09°10'·50W.

Kowloon Bridge \downarrow Q(6)+LFI 15s; 51°27'·58N 09°13'·75W; [992501118](#).

BALTIMORE and FASTNET

Barrack Pt \star Fl (2) WR 6s 40m W6M, R3M; vis: R168°-W294°-038°; 51°28'·33N 09°23'·65W.

Lousy Rks \downarrow Q(6)+LFI 15s; 51°28'·93N 09°23'·39W.

Lettuce Pt \downarrow VQ (3) 5s; 51°29'·32N 09°23'·81W.

Mealbeg \downarrow Q(6) + LFI 15s; 51°29'·68N 09°24'·69W.

Inane Pt \downarrow Q(6) + LFI 15s; 51°30'·02N 09°23'·66W.

Hare Is \downarrow Q; 51°30'·17N 09°25'·38W.

Fastnet \star , W end 51°23'·36N 09°36'·18W Fl 5s 53m 18M; Gy twr, **Racon (G) 18M**. Fog Det Lt VQ; [992501123](#).

SCHULL and LONG ISLAND CHANNEL

Copper Point \star 51°30'·25N 09°32'·06W Q (3) 10s 16m 8M.

Ldg lts 346° Front, Oc 5s 5m 11M, W mast; 51°31'·68N 09°32'·43W. Rear, 91m from front, Oc 5s 8m 11M; W mast.

CROOKHAVEN

Rock Is Pt \star L Fl WR 8s 20m W13M, R11M; W twr; vis: W over Long Is B to 281°-R-340°; inside harbour 281°-R-348° towards N shore; 51°28'·59N 09°42'·27W; [992501124](#).

MIZEN HEAD TO DINGLE BAY

Mizen Head \star Iso 4s 55m 12M; vis: 313°-133°; 51°26'·99N 09°49'·23W; [992501127](#).

Sheep's Hd \star 51°32'·59N 09°50'·92W Fl (3) WR 15s 83m W15M R9M; W bldg; vis: 011·3°-R-016·6°-W-212·5°- (partially obs) 233° (shore); [992501129](#).

BANTRY BAY, CASTLETOWN BEARHAVEN, WHIDDY IS

Carrigavaddra \downarrow VQ (3) 5s, 51°38'·72N 09°45'·91W.

Roanarrigmore \star Fl WR 5s 13m W11M, R9M, R5M; s/ steel twr; vis: 312°-W-050°-R-122°-R(unintens)-207°-obsc-246°-R-312°; 51°39'·18N 09°44'·82W. Old Lt ho W twr, B band; [992501130](#).

Ardnakinna Pt \star 51°37'·10N 09°55'·09W Fl (2) WR 10s 62m W14M, R9M; W \circ twr; vis: 319°-R-348°-W-066°-R-shore; [992501131](#).

Walter Scott Rk \downarrow Q (6) + LFI 15s; 51°38'·52N 09°54'·20W; [992501128](#).

Castletownbere Dir It 023·25° \star Oc WRG 5s 5·7m WRG15M; Twr; vis: 020·5°-G-023°-W-023·5°-R-025·5°; 51°38'·73N 09°54'·35W; [992501125](#).

Castletown Ldg lts 008°. Front, Oc Bu 6s 4m 6M; W col, R stripe; vis: 005°-013°; 51°39'·16N 09°54'·40W. Rear, 80m from front, Oc Bu 6s 7m 6M; W with R stripe; vis: 005°-013°.

Bull Rock \star 51°35'·52N 10°18'·07W Fl 15s 91m 18M; W twr; [992501131](#).

KENMARE RIVER, DARRYNANE and BALLYCROVANE

Illaunnameanla (Ballycrovane) \star Fl R 3s; 51°42'·60N 09°57'·50W.

Bunaw Ldg Lts 041°. Front, Oc R 3s 9m 2M; B col, Y bands; 51°46'·80N 09°48'·40W. Rear, 200m from front Iso R 2s 11m 2M.

Carrigarone (Seal Rk) Fl 5s 2m 2M; 51°48'·58N 09°52'·65W. Castlecove Ldg Lts 045°. Front, Oc 2s 5m 6M; concrete post W front; 51°46'·29N 10°02'·04W. Rear, 400m from front Oc 2s 18m 6M.

West Cove Hbr \star Fl R 3s; post W front; 51°46'·00N 10°02'·93W.

West Cove Hbr Ldg Lts 312°. Front, Fl 2s 2m 6M; concrete post; 51°46'·11N 10°03'·08W. Rear, 200m from front Fl 2s 4m 6M.

Darrynane Ldg lts 034°. Front, Oc 3s 10m 4M; 51°45'·90N 10°09'·20W. Rear, Oc 3s 16m 4M.

SKELLIG ISLANDS

Skelligs Rock \star Fl (3) 15s 53m 12M; W twr; vis: 262°-115°; part obsc within 6M 110°-115°; 51°46'·11N 10°32'·52W; [992501137](#).

VALENTIA and PORTMAGEE

Fort (Cromwell) Point \star 51°56'·02N 10°19'·27W Fl WR 2s 16m W17M, R10M; W twr; vis: 304°-R-351°, 104°-W-304°; obsc from seaward by Doulus Head when brg more than 180°; [992501141](#).

Dir It 141° \star Oc WRG 4s 25m W11M, R8M, G8M (by day: W3M, R2M, G2M); W twr, R stripe; vis: 136°-G-140°-W-142°-R-146°; 51°55'·51N 10°18'·42W.

The Foot \downarrow VQ (3) 5s; 51°55'·72N 10°17'·07W; [992501140](#).

DINGLE BAY TO LOOP HEAD

DINGLE BAY, VENTRY and DINGLE

Lt Twr \star Fl WRG 3s 20m WRG 6M; W metal twr; vis: 310°-G-328°-W-000°-R-024°; 52°07'·30N 10°15'·51W.

Dingle Hbr \star Fl (2) 3s 6m 3M, 52 07·24 N 10 15·71 W.

Foheragh Dir Lt \star 182° Oc WRG 5s 8 2 Pole; vis: 177°-Oc R-181°-Oc W-183°-Oc G-187°, 52 07·43 N 10 16·59 W. Dingle Dir Lt \star 002° Oc WRG 5s 14 3 Mast; vis: 354°-Oc G-001°-Oc W-003°-Oc R-009°, 52 08·34 N 10 16·52 W.

Inishtearaght \star , W end Blasket Islands 52°04'·54N 10°39'·67W Fl (2) 20s 84m 18M; W twr; vis: 318°-221°; **Racon (O)**; [992501143](#).

BRANDON BAY, TRALEE BAY and FENIT HARBOUR

Lit Samphire Is \star Fl WRG 5s 17m W14M, RG11M; Bu \circ twr; vis: 262°-R-275°, 280°-R-090°-G-140°-W-152°-R-172°; 52°16'·26N 09°52'·91W.

Gt Samphire Is \star QR 15m 3M; vis: 242°-097°; 52°16'·15N 09°51'·81W.

Fenit Hbr Pier Hd \star 2 FR (vert) 12m 3M; vis: 148°-058°; 52°16'·24N 09°51'·55W.



SHANNON ESTUARY

Ballybunnon \downarrow VQ; **Racon (M) 6M**; 52°32'·52N 09°46'·93W; [992501146](#).








Kilcreadaun Head \square , W twr; 52°34'·78N 09°42'·58W.

Corlis Pt (Ldg lts 046·4° H24) \star Front, Iso 4s 9m 7M(day) 10M; hut; 52°37'·10N 09°36'·36W; [992501156](#).

Querrin Pt \star Rear, Iso 4s 28m 7M(day) 10M; lattice mast; 52°37'·69N 09°35'·34W.

North Carraig  Q; 52°35'·60N 09°29'·76W.
Scattery Is, Rineanna Pt  Fl (2) 8s 15m 10M; W twr; vis: 208°-092°; 52°36'·35N 09°31'·07W.


KILRUSH

Marina Ent Chan Ldg Its 355°. Front, Oc 3s; 52°37'·99N 09°30'·27W. Rear, 75m from front, Oc 3s.
Tarbert Is N Point  Q WR 4s 18m W14M, R10M; W  twr; vis: W069°-R277°-W287°-339°; 52°35'·52N 09°21'·83W.
Tarbert (Ballyhoolahan Pt) Ldg Its 128·2° . Front, Iso 3s 13m 3M;  on W twr; vis: 123·2°-133·2°; 52°34'·35N 09°18'·80W. Rear, 400m from front, Iso 5s 18m 3M; G stripe on W Bn.
Garraunbaun Pt  Fl (3) WR 10s 16m W8M, R5M; W  col, vis: Rshore - W072°-R242°-shore; 52°35'·62N 09°13'·94W.
Rinealon Pt  Fl 2·5s 4m 7M; B col, W bands; vis: 234°-088°; 52°37'·12N 09°09'·82W.



FOYNES

W Chan Ldg Its 107·9° (may be moved for changes in chan). Front, Oc 4s 34m 12M; 52°36'·91N 09°06'·59W . Rear, Oc 4s 39m 12M.

RIVER SHANNON

BeevesRock  Fl WR 5s 12m W12M, R9M; vis: 064·5°-W-091°-R-238°-W-265°-W(unintens)-064·5°; 52°39'·01N 09°01'·35W . North Channel Ldg Its 093°. Front, Tradree Rock Fl R 2s 6m 5M; W Trs; vis: 246°-110°; 52°41'·00N 08°49'·87W. Rear 0·65M from front, Iso 6s 14m 5M; W twr, R bands; vis: 327°-190°.
N side, Ldg Its 061°. Front, 52°40'·72N 08°45'·27W, Crawford Rock 490m from rear, Fl R 3s 6m 5M. Crawford No 2, Common Rear, Iso 6s 10m 5M; 52°40'·85N 08°44'·88W.
Ldg Its 302·1°, Flagstaff Rock, 670m from rear, Fl R 7s 7m 5M; 52°40'·66N 08°44'·40W.
Ldg Its 106·5°. Meelick Rk, Front Iso R 4s 6m 5M; 52°40'·24N 08°42'·32W. Meelick No 2, rear 275m from front Iso R 4s 9m 5M; both W beacons.

LOOP HEAD





Loop Head  52°33'·67N 09°55'·92W Fl (4) 20s 84m 23M; vis: 280°-218°; 992501161.
Mal Bay  Fl(5) Y 20s 52°46·42'N 009°35·15'W; AIS.

LISCANNOR BAY TO SLYNE HEAD

GALWAY BAY and INISHMORE







Eeragh, Rock Is  53°08'·91N 09°51'·39W Fl 15s 35m 18M; W twr, two B bands; vis: 297°-262°; 992501172.
Straw Is  Fl (2) 5s 11m 12M; W twr; 53°07'·08N 09°37'·82W.
Killeany Ldg Its 192°. Front, Oc 5s 6m 3M; W col on W  base; vis: 142°-197°; 53°06'·25N 09°39'·74W. Rear, 43m from front, Oc 5s 8m 2M; W col on W  base; vis: 142°-197°.
Inishmaan, Ldg Its 199°, Oc 6s 8M; 53°06'·08N 09°34'·77W.
Inisheer  53°02'·76N 09°31'·61W Iso WR 12s 34m W16M, R11M; vis: 225°-W(partially vis >7M)-231°; 231°-W-245°-R-269°-W-115°; *Racon (K) 13M*; 992501165.
Finnis  Q (3) 10s; 53°02'·82N 09°29'·14W, 992501164.
Black Hd  Fl WR 5s 20m W11M, R8M, W  twr; vis: 045°-R268°-276°; 53°09'·25N 09°15'·83W.

GALWAY

Leverets  Q WRG 9m 10M; B  twr, W bands; vis: 015°-G-058°-W-065°-R-103°-G-143·5°-W-146·5°-R-015°; 53°15'·33N 09°01'·90W.
Rinmore  Iso WR 4s 7m 5M; W  twr; vis: 359°-G-008°-W-018°-R-027°; 53°16'·12N 09°01'·97W.
Appr Chan Dir It 325°, WRG 7m 3M; vis: 322·25°-FG-




323·75°-AIGW-324·75°-FW-325·25°-AIRW-326·25°-FR-331·25°-FIR-332·25°; 53°16'·12N 09°02'·83W.

GALWAY TO SLYNE HEAD





Barna Quay Hd  Fl 2 WRG 5s 6m W8M, R5M, G5M; vis: 250°-G-344·5°-W-355·5°-R-090°; 53°14'·93N 09°08'·90W.
Spiddle Pier Hd  Fl WRG 3·5s 11m W8M, R8M, G8M; Y col; vis: 265°-G-308°-W-024°-R-066°; 53°14'·42N 09°18'·54W.
Cashla Bay Ent, W side  Fl (3) WR 10s 8m W6M, R3M; W col on concrete twr; vis: 216°-W-000°-R-069°; 53°14'·23N 09°35'·20W.
Lion Pt Dir It 010°, Iso WRG 5s 6m (H24), G6M, W8M, R6M, (night), G2M, W3M, R2M(day); vis: 005°-G-008·5°-W-011·5°-R-015°; 53°15'·83N 09°33'·98W; 992501171.
Rossaveil Pier Ldg Its 116°. Front, 53°16'·02N 09°33'·38W Oc 3s 7m 3M; W mast. Rear, 90m from front, Oc 3s 8m 3M.
Kiggall Bay  Fl WRG 3s 5m W5M, R3M, G3M; vis: 310°-G-329°-W-349°-R-059°; 53°14'·03N 09°43'·02W.
CroaghnaKeela Is  Fl 3·7s 7m 5M; W col; vis: 034°-045°, 218°-286°, 311°-325°; 53°19'·40N 09°58'·21W.
Inishnee  Fl (2) WRG 10s 9m W5M, R3M, G3M; W col on W  base; vis: 314°-G-017°-W-030°-R-080°-W-194°; 53°22'·75N 09°54'·53W.
Slyne Head, North twr, Illaunamid  53°23'·99N 10°14'·05W Fl (2) 15s 35m 19M; B twr; *Racon (T)*; 992501175.

SLYNE HEAD TO EAGLE ISLAND


CLIFDEN BAY and INISHBOFIN

Carrickrana Rocks Bn, large W Bn; 53°29'·24N 10°09'·48W.
Cleggan Point  Fl (3) WRG 15s 20m W6M, R3M, G3M; W col on W hut; vis: shore-G-091°-W-124°-R-221°; 53°34'·48N 10°07'·69W.
Inishlyon Lyon Head  Fl WR 7·5s 13m W7M, R4M; W post; vis: 036°-W-058°-R-184°-W-325°-R-036°; 53°36'·74N 10°09'·56W.
Gun Rk  Fl (2) 6s 8m 4M; W col on W hut; vis: 296°-253°; 53°36'·59N 10°13'·22W.
Inishbofin Dir It 021°, Oc WRG 6s 10m 11M; W pole; vis: 015·75°-G-020·75°-W-021·25°-R-026·25°; 53°36'·78N 10°13'·16W.



CLEW BAY and WESTPORT

Roonagh Quay Ldg Its 144°. Front 53°45'·75N 09°54'·23W. Rear, 54m from front, both Iso Bu 10s 9/15m.
Inishgort  L Fl 10s 10M; 53°49·59'N 009°40·25'W; 992501179.
Cloughcormick  Q (9) 15s; 53°50'·56N 09°43'·20W.
Achillbeg I, S Point  53°51'·51N 09°56'·84W Fl WR 5s 56m W16M, R18M, R11M; W  twr on  building; vis: 262°-R-281°-W-342°-R-060°-W-092°-R(intens)-099°-W-118°; 992501181.

ACHILL SOUND

Ldg Its 330°, 53°52'·50N 09°56'·89W Whitestone Point. Front and rear both 2 Oc Bu 4s 5/6m; W  B stripe.
Achill I Ldg Its 310°, Purteen, 53°57'·81N 10°05'·96W, Iso Bu 6s 5m. Rear, 46m from front Iso Bu 6s 6m.

BLACKSOD BAY

Blacksod  Q (3) 10s; 54°05'·89N 10°03'·01W.
Blacksod Pier Root  Fl (2) WR 7·5s 13m W12M, R9M; W twr on bldg; vis: 189°-R-210°-W-018°; 54°05'·92N 10°03'·63W; 992501186.

NAVIGATION

Carrageenmore \downarrow VQ(3) 5s 3M; 54°06'·56N 10°03'·4W.
Black Rock ☆ 54°04'·06N 10°19'·23W Fl WR 12s 86m
W20M, R16M; W twr; vis: 276°-W-212°-R-276°; 992501183.
Eagle Is, W end ☆ 54°17'·02N 10°05'·56W Fl (3) 15s 67m
18M; W twr; 992501189.

EAGLE ISLAND TO RATHLIN O'BIRNE

BROAD HAVEN BAY

Rinroe Pt ☆ Fl (2) 10s 5m 3M; 54°17'·83N 09°50'·59W.
Gubacashel Pt ☆ Iso WR 4s 27m **W17M, R12M**; 110°-R-133°-
W-355°-R-021° W twr; 54°16'·06N 09°53'·32W; 992501190.

KILLALA

Carrickpatrick \downarrow Q (3) 10s; 54°15'·56N 09°09'·17W; 992501192.
Inishcrone Pier Root ☆ Fl WRG 1·5s 8m 2M; vis:
098°-W-116°-G-136°-R-187°; 54°13'·21N 09°05'·79W.
Ldg lts 230°. Rinnaun Point. Front No 1, Oc 10s 7m 5M;
□ twr; 54°13'·21N 09°05'·79W. Rear, 150m from front,
No 2 Oc 10s 12m 5M; □ twr.

Inch Is Dir It 215°, Fl WRG 2s 6m 3M; □ twr; vis:
205°-G-213°-W-217°-R-225°; 54°13'·29N 09°12'·30W.

Ldg lts 196°. Kilroe. Front, 54°12'·63N 09°12'·33W Oc 4s 5m
2M; □ twr. Rear, 120m from front, Oc 4s 10m 2M; □ twr.
Pier Ldg lts 236° Front, Iso Bu 2s 5m 2M; W ◇ on twr;
54°13'·02N 09°12'·84W. Rear, 200m fm front, Iso Bu 2s
7m 2M; W ◇ on pole.

SLIGO

Black Rock ☆ Fl WR 5s 24m 10/8M; vis: 130°-W-107°-R-130°
(R over Wheat + Seal Rks); W twr, B band; 54°18'·46N
08°37'·06W.

Lower Rosses ☆ Fl (2) WRG 10s 8m 10M; W hut on piles;
vis: 061°-G-066°-W-070°-R-075°; shown H24; 54°19'·73N
08°34'·41W.

Ldg lts 125° Fl (3) 6s 7M (sync). Front, Metal Man;
54°18'·24N 08°34'·55W, 3m. Rear, Oyster Is, 365m from
front, 13m; H24.

Wheat Rk \downarrow Q (6) + LF 15s; 54°18'·84N 08°39'·10W;
992501196.

DONEGAL BAY and KILLYBEGS

St John's Pt ☆ Fl 6s 30m 14M; W twr; 54°34'·16N
08°27'·66W; 992501197.

Bullockmore \downarrow Q (9) 15s; 54°33'·98N 08°30'·14W; 992501198.

Rotten I ☆ 54°36'·97N 08°26'·41W Fl WR 4s 20m **W15M,**
R11M; W twr; vis: W255°-R008°-W039°-208°.

New Landing Dir It 338°, Oc WRG 8s 17m; vis: 328°-G-334°-
Al WG-336°-W-340°-Al WR-342°-R-348°; 54°38'·14N
08°26'·38W.

Killybegs Outer \downarrow VQ (6) + L Fl 10s; 54°37'·92N
08°29'·15W.

RATHLIN O'BIRNE TO BLOODY FORELAND

S of ARAN and RUTLAND S CHANNEL

Rathlin O'Birne ☆ Fl WR 15s 35m W12M, R10M; W twr;
vis: 195°-R-307°-W-195°; **Racon (O) 13M**, vis 284°-203°.
54°39'·82N 08°49'·95W; 992501203.

Dawros Head ☆ L Fl 10s 39m 4M; 54°49'·63N 08°33'·64W.

Wyon Point ☆ Fl (2) WRG 10s 8m W6M, R3M; W □
twr; vis: shore-G-021°-W-042°-R-121°-W-150°-R-shore;
54°56'·51N 08°27'·54W.

BURTONPORT

Ldg lts 068·1°. Front , FG 17m 1M; Gy Bn, W band;
54°58'·95N 08°26'·40W. Rear, 355m from front, FG 23m
1M; Gy Bn, Y band.

N SOUND OF ARAN and RUTLAND N CHANNEL

Rutland I Ldg lts 137·6°. Front, 54°58'·97N 08°27'·68W
Oc 6s 8m 1M; W Bn, B band. Rear, 330m from front, Oc
6s 14m 1M.

Inishcoo Ldg lts 119·3°. Front, Iso 6s 6m 1M; W Bn, B
band; 54°59'·43N 08°29'·63W. Rear, 248m from front,
Iso 6s 11m 1M.

Ldg lts 186°. Front, Oc 8s 8m 3M; B Bn, W band; 54°58'·94N
08°29'·27W. Rear, 395m from front, Oc 8s 17m 3M; B Bn.

Aranmore, Rinrawros Pt ☆ 55°00'·90N 08°33'·69W Fl (2)
20s 71m **18M**; W twr; obsc by land about 234°-007° and
about 013°.

Aux It Fl R 3s 61m 13M, same twr; vis: 203°-234°;
992501205.

OWEY SOUND to INISHSIRRER

Cruit Is. Owey Sound Ldg lts 068·3°. Oc 10s. Front,
55°03'·06N 08°25'·85W. Rear, 107m from front.

Rinnalea Point ☆ 55°02'·59N 08°23'·72W Fl 7·5s 19m 9M;
□ twr; vis: 132°-167°.

Gola Is Ldg lts 171·2°. Oc 3s 2M (sync). Front, 9m; W Bn,
B band; 55°05'·11N 08°21'·07W. Rear, 86m fm front, 13m;
B Bn, W band.

Glassagh. Ldg lts 137·4°. Front, Oc 8s 12m 3M; 55°06'·83N
08°18'·97W. Rear, 46m from front, Oc 8s 17m 3M; sync.
Inishsirr, NW end ☆ Fl 3·7s 20m 4M; W □ twr vis: 083°-
263°; 55°07'·40N 08°20'·93W.

BLOODY FORELAND TO INISHTRAHULL

BLOODY FORELAND to SHEEPHAVEN

Bloody Foreland ☆ Fl WG 7·5s 14m W6M, G4M; vis:
062°-W-232°-G-062°; 55°09'·51N 08°17'·03W.

Tory Island ☆ 55°16'·36N 08°14'·96W Fl (4) 30s 40m
18M; B twr, W band; vis: 302°-277°; **Racon (M) 12-23M**;
992501211.

West Town Ldg lts 001° ☆ Iso 2s 9m 7M △ on Y structure
R stripe; 55°15'·79N 08°13'·50W. Rear Iso 2s 11m 7M ∇
ditto (sync).

Inishbofin Pier ☆ Fl 8s 3m 3M; 55°10'·14N 08°10'·01W.
Ballyness Hbr. Ldg lts 119·5°. Front, Iso 4s 25m 1M;
55°09'·06N 08°06'·98W. Rear, 61m from front, Iso 4s
26m 1M.

Portnablahy Ldg lts 125·3°. Front Oc 6s 7m 2M; B col, W
bands; 55°10'·79N 07°55'·65W. Rear, 81m from front, Oc
6s 12m 2M; B col, W bands.

MULROY BAY

Limeburner \downarrow Q Fl; 55°18'·54N 07°48'·40W; 992501214.
Ravedy Is ☆ Fl 3s 9m 3M; vis 177°-357°; 55°15'·14N 07°46'·90W.

LOUGH SWILLY, BUNCRANA and RATHMULLAN

Fanad Head ☆ 55°16'·57N 07°37'·92W Fl (5) WR 20s
39m **W18M, R14M**; W twr; vis 100°-R-110°-W-313°-R-
345°-W-100°; 992501215.

Dunree ☆ Fl (2) WR 5s 49m W12M, R9M; vis: 320°-R-328°-
W-183°-R-196°; 55°11'·89N 07°33'·24W; 992501217.

Buncrana Pier near Hd ☆ Iso WR 4s 11m W13M, R10M;