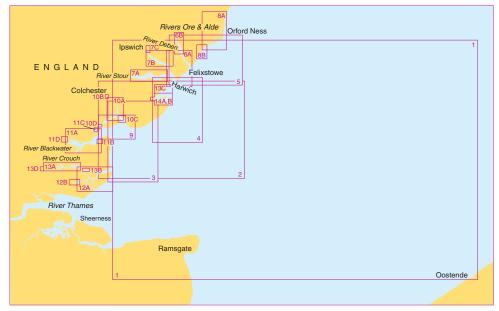


5607 Updated to February 2024 Version 1.0

Thames Estuary – Essex and Suffolk Coast

Coverage Diagram



5607	Chart Title	Natural Scale 1:
1	Orford Ness to Oostende	250,000
2	Foulness Point to Landguard Point	100,000
3	Outer Approaches to the River Blackwater	50,000
4	Southern Approaches to Harwich	50,000
5	Harwich to Orford Ness	50,000
6A	Approaches to Harwich and Woodbridge Haven	25,000
6B	Continuation of River Deben	25,000
7	Rivers Stour and Orwell	
7B	River Orwell	25,000
7C	Ipswich	10,000
8A	Rivers Ore and Alde	25,000
8B	Orford Haven and Approaches	25,000
9	Approaches to Mersea Island and Brightlingsea	25,000
10	Harbours on the East Coast	
10A	River Colne	25,000
10B	Colchester Quays	12,500

5607	Chart Title	Natural Scale 1:
10C	Brightlingsea	12,500
10D	West Mersea	12,500
11A	River Blackwater, Bradwell to Maldon	25,000
11B	Bradwell	12,500
11C	Tollesbury	12,500
11D	Maldon	12,500
12A	Rivers Crouch and Roach	25,000
12B	Continuation of the River Roach	25,000
13A	Continuation of River Crouch	25,000
13B	Burnham-on-Crouch	10,000
13C	Entrance to Walton Backwaters	12,500
13D	Continuation to Battlesbridge	25,000
14A	Walton Backwaters	12,500
14B	Continuation of Landermere Creek	12,500

Notes

DATUM

All the charts are referred to the WGS 84 Datum. Any positions taken from GPS (referred to WGS84) or from ADMIRALTY Notices to Mariners (referred to ETRS89) can be plotted directly on all charts.

OVERHEAD CABLES

Overhead cables may conduct high voltages; contact with or proximity to these poses extreme danger. Sufficient clearance must be allowed.

SANDWAVES

Sandwaves exist in the areas indicated; depths may be less than charted.

DEPTHS AND AIDS TO NAVIGATION

The channels and depths shown on this chart are subject to frequent change. The buoyage and other aids to navigation are adjusted accordingly. For the latest information, consult the London VTS and the Medway Port Authority within the Medway Approach Area.

LIGHTS

Light stars without legends represent two fixed lights displayed vertically.

WIND FARM UNDER CONSTRUCTION

The symbols • within the wind farm construction area show the planned positions of the turbines. A safety zone of 500m becomes operational around the turbines under construction. Consult local notices to mariners issued by the wind farm developer for details of installation progress.

OMISSION OF DETAIL

Within the limit marked _____ and the coastline, this chart should only be used for planning purposes as features such as depths, platforms, wrecks, pipelines, minor aids to navigation and cables have been omitted. Larger scale ADMIRALTY charts are available for mariners intending to navigate in this area.

WRECKS

In areas covered by larger scale charts some less significant wrecks have been omitted for reasons of clarity.

DREDGED AREAS

The depths shown for the dredged channels and berths within the ports of Harwich and Felixstowe are generally maintained, but silting is liable to occur. For the latest information contact Harwich Harbour Operations Service, (or Harwich VTS). Similarly, dredged depths within the River Orwell are subject to siltation and liable to change. For the latest information, mariners are advised to consult ABP Ipswich. **Positions** are referred to the WGS84 compatible datum, European Terrestrial Reference System 1989 Datum.

Depths are in metres and are reduced to Chart Datum, which is approximately the level of Lowest Astronomical Tide.

Heights are in metres. Underlined figures are drying heights above Chart Datum. Overhead clearance heights are above Highest Astronomical Tide. All other heights are above Mean High Water Springs. Navigational marks: IALA Maritime Buoyage System-Region A (Red to port)

VESSEL REPORTING

For details of the following vessel traffic services and vessel reporting systems, see ADMIRALTY List of Radio Signals:

-London VTS

- -Ipswich Local Port Service
- -Harwich VTS
- -Sunk VTS

-Dover Strait Reporting System (CALDOVREP) HARWICH CHANNELS

(including the Harwich Deep Water, North and South Channels)

Vessels should navigate with extreme caution in the Harwich Channels and their approaches, as deep-draught vessels and crossing traffic may be encountered. Yachts entering and leaving Harwich Harbour are recommended to keep south and west of the approach channels.

ANCHORING PROHIBITED – Anchoring is prohibited in and within 60 metres of the channels. FISHING PROHIBITED – Fishing is prohibited in the channels inshore of an extended line through Washington Buoy, No 1 Harwich Channel Buoy and No 2 Harwich Channel Buoy.

REGULATORY SYSTEM – Vessels must use the North and South Channels unless confined by their draught to the Deep Water Channel or unless otherwise expressly permitted by the Harbour Master.

CORK HOLE – EXPERIMENTAL BUOYS

Experimental buoys may be laid by Trinity House, without notice, in the southern part of Cork Hole (51°54'N 1°26'E). They have no navigational significance.

OYSTER BEDS

Vessels should avoid grounding in areas of oyster beds.

SHOEBURYNESS FIRING DANGER AREAS (51°36'N 1°00'E)

Experimental firing is frequently carried out in the area between Shoeburyness and Foulness Point. Apart from certain exceptions, no vessel may enter or remain in the Inner Danger Area at any time. Entry to the Outer Danger Area is prohibited when the area is in use as indicated by red flags. For further information contact Shoeburyness Range Control on Tel: +44(0)1702 383211 or see the Range Byelaws. VHF Channel 16 should also be monitored.

FINGRINGHOE FIRING RANGE (51°49'N 0°58'E)

No restrictions are placed on the right to transit the firing practice area at any time. The firing practice area is operated using a clear range procedure: exercises and firing only take place when the area is considered to be clear of all shipping.

HISTORIC WRECKS

The sites of historic wrecks are protected from unauthorised interference.

WETREP

Tankers of more than 600 dwt carrying heavy crude oil, heavy fuel oil or bitumen and tar and their emulsions are required to participate in the Western European Tanker Reporting System (WETREP). See ADMIRALTY List of Radio Signals for further details.

OIL AND GAS FIELDS

Production platforms and associated structures, including tanker moorings, storage tankers and platforms on pipelines, generally exhibit Mo(U) lights, aircraft obstruction lights, and audible fog signals. Unauthorised navigation is prohibited within 500 metres of all such structures.

Within the areas covered by larger scale charts, certain fixed structures, pipelines and cables have been omitted due to their complexity and frequent change. The appropriate larger scale charts should be used in these areas.

MILEAGE MARKS

The approximate distances in sea miles from Sea Reach No 1 buoys ($51^{\circ}29' \cdot 5N \ 0^{\circ}52' \cdot 6E$) and the Medway buoy ($51^{\circ}28' \cdot 8N \ 0^{\circ}52' \cdot 8E$) are shown

through the channels thus: **30M**.

DESIGNATED ANCHORAGES

Vessels requiring to wait at anchor must do so only in the designated anchorage areas. Within these areas, mariners are requested to occupy the anchor berths shown. Vessels may not anchor in a fairway except in an emergency or for the purpose of manoeuvring.

SUBMARINE CABLES AND PIPELINES

Mariners should not anchor, trawl or engage in seabed operations in the vicinity of submarine cables and pipelines. Submarine cables support national infrastructure; damage to them may affect critical services and can result in serious consequences, as well as creating a potential hazard to mariners. Wilful or neglectful damage to a cable may result in legal action. Pipelines are not always buried and their presence may significantly reduce the charted depth. They may also span seabed undulations and cause fishing gear to become irrecoverably snagged, putting a vessel in severe danger.

HM Coastguard Services and Safety Information

VHF MARITIME RADIO

Coastguard Maritime Rescue Co-ordination Centres are on constant watch on Channel 16 - the distress, safety and calling channel. Initial calls should normally be on Ch 16.

HM COASTGUARD UNITED KINGDOM DOVER COASTGUARD OPERATIONS CENTRE (MRCC) Tel: +44 (0) 1304 210008 MMSI: 002320010 e-mail: zone14@hmcg.gov.uk (FAO Dover Coastguard)

BELGIUM

OOSTENDE MRCC Tel: +32 59 701000 MMSI: 002059981 e-mail: mrcc@mrcc.be

Distress and Safety Communication

Distress - Urgency

A Distress or Urgency message has absolute priority. Make a call on VHF Channel 16 and give the following essential information: Distress Call MAYDAY MAYDAY MAYDAY

- Name and Call Sign and MMSI number Position
- Nature of Distress
- Type of assistance required
- Type of boat number of crew intentions

Urgency (eg. if you break down in bad weather or a crewman requires medical attention) Call PANPAN PANPAN and give:

- Name and Call Sign and MMSI number Position
- Nature of Distress
- Type of assistance required
- Type of boat number of crew intentions

Other Distress Signals

Other recognised signals are

- Red flares (parachute, multi stars or hand held) Orange smoke signal
- The flag signal NC
- The morse signal SOS ... --- ... by light
- An article of clothing on an oar
- Slowly and repeatedly raising and lowering outstretched arms
- A square flag with anything resembling a ball above or below it
- Continuous sounding of a siren or whistle will also be recognised, or smoke and flames from the vessel
- The carriage of an Emergency Position Indicating Radio Beacon (406 EPIRB) will improve your chances of being located if conventional means fail. 406 EPIRBs are detected by satellite, in addition to aircraft, and transmitted to a Coastguard Maritime Rescue Co-ordination Centre.

THE USE OF MOBILE TELEPHONES IN DISTRESS AND SAFETY COMMUNICATIONS

The use of mobile telephones in the marine environent offshore is now well established, with users in all areas of the commercial, fishing and leisure communities.

Incidents have occured where vessels requiring assistance from rescue services have used the inland emergency service, or alternatively telephoned direct to request assistance. (e.g. Lifeboat services). This procedure through a mobile telephone is strongly discouraged.

Use of mobile telephones by-passes the existing dedicated well-established international marine distress communications systems.

Mobile telephone coverage offshore is limited and does not afford the same extensive safety coverage as VHF Channel 16. Consequently a greater risk exists of communications difficulties or even a complete breakdown if an accident should occur at the edge of a cell coverage area.

Subsequent on-scene communications would be restricted and delayed if mobile telephone communications were exclusively maintained throughout. There is always a risk that elements of vital information could be lost or misinterpreted by the introduction of further relay links in the communication chain. Mobile telephones are also highly susceptible to failure due to water ingress.

It is not possible to communicate direct to another vessel able to render assistance unless that vessel is also fitted with a mobile telephone and the telephone number is known. Requests for assistance cannot be monitored by other vessels in a position to render assistance. Valuable time would be lost whilst the relevent Coastguard Rescue Coordination Centre receives and then re-broadcasts the information to all ships on the appropriate distress channel(s).

In the interests of Safety Of Life At Sea (SOLAS), owners of vessels are urged to carry MARINE communications equipment onboard and to use this medium as the primary means of Distress and Safety communications.

Product Specifications

PRODUCT USAGE CAUTION

This product is specifically designed, in conjunction with other charts and publications, as an aid to the navigation of leisure craft and locally regulated workboats and fishing vessels and therefore should be used by competent (preferably qualified) maritime navigators. Although this product contains the best information available at the time of publication, the user should navigate with caution, particularly in areas of shallow or confined waters where the depth of water is likely to change due to local conditions. The information provided in this product comes from the latest source information held and is updated by Notice to Mariners upon receipt of new information critical to safe navigation. To help maintain this product for all users, users are asked to notify the United Kingdom Hydrographic Office of any differences found between what is depicted and actual conditions encountered.

KEEPING THIS CHART UPDATED

Updates for the charts are published using the Notices to Mariners Service on the ADMIRALTY Notices to Mariners page found on our website at admiralty.co.uk/msi. All updates for the latest edition of the chart are listed and can be quickly and easily downloaded. All the charts are derived from standard ADMIRALTY charts. No updates are applied to the charts by the United Kingdom Hydrographic Office or its agents after printing. For those who do not have internet access, please contact Tel. 01823 484444 for assistance.

PROVIDE UPDATED INFORMATION

To help maintain this product users are asked to notify the United Kingdom Hydrographic Office of any differences found between what is depicted and actual conditions encountered. Users can do this by submitting a Hydrographic Note form, found on our website admiralty.co.uk/msi or by downloading our H-Note App. The H-Note App is freely available to download on Android and iOS devices. For more information please see here:



IMPROVEMENTS TO THIS PRODUCT

ADMIRALTY Small Craft Charts are designed for use on leisure craft and locally regulated workboats and fishing vessels, where the smaller format charts fit more conveniently into the limited space available. Users with specific suggestions for the improvement of this product or ideas for the expansion of the series are requested to forward their comments to:

Customer Services, The UK Hydrographic Office, Admiralty Way, Taunton. +44(0)1823 484444

 ${\sf E}\text{-mail customerservices} @ukho.gov.uk$

To view all ADMIRALTY Products and services, visit admiralty.co.uk

Tidal Stream Information

5607_1

Tidal Streams referred to HW at DOVER

Hours	\diamond°	eographical Position		\diamond	51°26'0N 1 38·9 E	₿	52°01'5 N 1 47·4 E	Ø	51°44'3 N 1 48·2 E	\diamond	51°30'5 N 1 51·8 E	Æ	51°59'0 N 2 05·9 E	F	51°32′0 N 2 13∙0 E	\diamond	51°23'0 N 2 26·7 E		51°51'0N 2 29·4 E	\diamondsuit	51°36'0N 236'0E
After High Water 9 5 4 5 7 1 5 2 4 9 9 9	Directions of streams (degrees)	Rates at spring tides (knots) Rates at neap tides (knots)	+1 +2 +3	189 201 240 328 353 004 016	$\begin{array}{ccccccc} 0.5 & 0.3 \\ 1.1 & 0.6 \\ 1.6 & 0.9 \\ 1.9 & 1.1 \\ 1.5 & 0.8 \\ 0.7 & 0.4 \\ 1.0 & 0.5 \\ 1.5 & 0.8 \\ 1.6 & 0.9 \\ 1.3 & 0.7 \\ 1.0 & 0.5 \\ 0.6 & 0.3 \\ 0.3 & 0.2 \\ \end{array}$	023 207 208 207 209 210 213 024 031 032 029 025 024	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	009 194 193 199 205 234 010 024 024 022 018 010	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	219 215 209 212 206 006 029 032 033 036 032 034	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	073 198 202 203 205 204 196 063 032 027 026 026 024		307 233 218 215 213 199 102 057 044 037 030 018 338	$\begin{array}{ccccccc} 0.5 & 0.3 \\ 0.9 & 0.5 \\ 1.6 & 0.8 \\ 1.8 & 1.0 \\ 1.6 & 0.9 \\ 0.9 & 0.5 \\ 0.5 & 0.3 \\ 1.0 & 0.6 \\ 1.5 & 0.8 \\ 1.7 & 0.9 \\ 1.4 & 0.7 \\ 1.0 & 0.4 \\ 0.5 & 0.2 \\ \end{array}$		$\begin{array}{c} 1\cdot 1 & 0\cdot 6 \\ 1\cdot 6 & 1\cdot 0 \\ 1\cdot 8 & 1\cdot 2 \\ 1\cdot 7 & 1\cdot 2 \\ 1\cdot 0 & 0\cdot 8 \\ 0\cdot 8 & 0\cdot 5 \\ 1\cdot 5 & 0\cdot 8 \\ 1\cdot 8 & 1\cdot 0 \\ 1\cdot 9 & 1\cdot 1 \\ 1\cdot 6 & 1\cdot 0 \\ 0\cdot 9 & 0\cdot 6 \\ 0\cdot 5 & 0\cdot 3 \\ 0\cdot 8 & 0\cdot 4 \end{array}$	337 224 209 209 206 199 176 051 036 022 027 021 357	0.5 0.3 1.3 0.9 1.6 1.1 1.6 1.1 1.0 0.7	293 241 221 217 213 196 114 067 048 037 026 005 318	$\begin{array}{c} 0.7 & 0.4 \\ 1.0 & 0.6 \\ 1.5 & 0.8 \\ 1.6 & 1.0 \\ 1.5 & 0.9 \\ 1.0 & 0.6 \\ 0.7 & 0.4 \\ 1.1 & 0.7 \\ 1.5 & 0.9 \\ 1.6 & 0.9 \\ 1.3 & 0.8 \\ 1.0 & 0.5 \\ 0.6 & 0.4 \\ \end{array}$

5607_1 continued

Hours	\diamond°	Geograph Positio		 	51°28 2 54		\diamondsuit	51°55 2 59	
After High Water Before affith Water B 5 7 1 2 5 7 5 9 5 9	Directions of streams (degrees)	at spring tides	Hates at neap tides (knots) 2	265 244 232 228 223 191 098 069 058 048 033 340 280	1.4 (1.5 (1.5 (0.7 (1.1 (1.6 (1.7 (1.7 (1.4 (1.0 (0.4 (0.7 0.8 0.9 0.9 0.7 0.7 0.7 0.7 1.0 1.0 0.9 0.6 0.5 0.6	321 237 215 213 214 208 175 086 048 036 030 018 352	0.7 (1.3 (1.5 7 1.7 7 1.4 (0.7 (0.9 (1.5 (1.5 (1.6 7 1.6 7 1.6 7 1.6 7 1.3 (D·4 D·3 D·5 1·1 D·8 D·5 D·6 D·9 1·1 1·0 D·7 D·4

5607_2

Tidal Streams referred to HW at SHEERNESS

Hours	Geo	ographical Position	\bigotimes	51°44′4N 1 10·2E	₿	51°42′1N 1 10·8E	\diamond	51°46′6N 1 24 9E	\diamond	51°40′4N 1 26 7E	¢	51°36′5N 1 29·9E	\$	51°52′1N 1 36·8E	\$	51°47′5N 1 39.9E	\bigstar	51°39'2N 1 40-2E	
High Water 1 C C C P C C C P C C C C C C C C C C C	reams (degrees)	g tides (knots) o tides (knots)	212 230 237 243 255 260 036	0.6 0.4 1.6 1.1 1.8 1.2 1.7 1.2 1.6 1.1 0.7 0.5 0.5 0.3	249 242 241 244 250 270 054	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	214 218 220 226 235 267 024	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	204 198 199 204 230 348 016	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	213 217 214 221 261 354 035	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	211 212 214 218 226 286 031	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	192 203 211 222 258 341 020	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	209 205 205 206 211 030 027	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-6 -5 -4 -3 -2 -1
After After 1 2 2 4 2 2 2 2 2 2 2 2 2 3 3 4 2 3 3 3 3	Directions of st	Rates at spring Rates at neap	054 065 067 072 075 180	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	069 067 067 066 058 281	1.5 1.0 1.9 1.2 1.7 1.1 1.1 0.7 0.6 0.4 0.1 0.1	043 048 047 047 050 210	1-8 1-2 2-5 1-7 2-2 1-5 1-5 1-0 0-7 0-4 0-5 0-3	030 032 025 024 022 205	1 · 9 1 · 2 2 · 1 1 · 4 1 · 6 1 · 0 1 · 3 0 · 8 0 · 5 0 · 3 1 · 1 0 · 7	040 043 047 055 199 211	1.9 1.3 1.8 1.2 1.3 0.9 0.6 0.4 0.1 0.1 1.1 0.7	035 038 040 039 034 212	1 ·9 1 ·2 2 ·2 1 ·4 1 ·8 1 ·2 1 ·1 0 ·7 0 ·4 0 ·3 0 ·7 0 ·5	029 042 056 073 131 185	2.2 1.5 1.8 1.2 1.3 0.9 0.8 0.5 0.5 0.3 1.0 0.7	029 029 023 019 214	1.8 1.2 1.9 1.2 1.5 1.0 0.9 0.6 0.0 0.0 1.0 0.7	+1 +2 +3 +4 +5 +6

5607_3

Tidal Streams referred to HW at SHEERNESS

Hours	¢٩	ieographical Position	\diamond	51°44'5 N 1 O2·6 E	₿	51°42′5 N 1 03·4 E	Ø	51°40'3 N 1 04·9 E	\diamond	51°35′8 N 1 07·5 E	¢	51°44'4 N 1 10·2 E	¢	51°42′·1N 1 10′·8E	
High Water 9 2 8 2 1 1 2 2 8 9 2 9 1 8 1 1 2 2 8 9 2 9 2 9 2 1 2 2 8 1 1 2 2 8 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9	Directions of streams (degrees)	Rates at spring tides (knots) Rates at neap tides (knots)	284 283 275 290 291 081 100 098 099 102 094 254	$\begin{array}{c} 0.4 & 0.3 \\ 0.9 & 0.6 \\ 1.3 & 0.9 \\ 1.4 & 0.9 \\ 1.4 & 0.9 \\ 1.4 & 0.9 \\ 0.7 & 0.5 \\ 0.8 & 0.5 \\ 1.5 & 1.0 \\ 1.7 & 1.1 \\ 1.3 & 0.9 \\ 0.8 & 0.5 \\ 0.5 & 0.3 \\ 0.2 & 0.1 \end{array}$	228 253 254 255 255 073 075 074 065 066 071 207	$\begin{array}{c} 0.3 & 0.2 \\ 0.3 & 0.2 \\ 1.4 & 0.9 \\ 1.9 & 1.2 \\ 1.8 & 1.2 \\ 1.5 & 0.9 \\ 0.4 & 0.3 \\ 0.9 & 0.6 \\ 2.1 & 1.4 \\ 1.9 & 1.2 \\ 1.2 & 0.8 \\ 0.8 & 0.5 \\ 0.5 & 0.3 \\ 0.1 & 0.1 \end{array}$	231 252 250 253 255 039 070 074 074 075 079 158	$\begin{array}{c} 0.3 & 0.2 \\ 1.6 & 1.0 \\ 1.9 & 1.2 \\ 1.8 & 1.1 \\ 1.4 & 0.9 \\ 0.8 & 0.5 \\ 0.4 & 0.3 \\ 1.5 & 1.0 \\ 2.0 & 1.3 \\ 1.8 & 1.1 \\ 1.4 & 0.9 \\ 0.8 & 0.5 \\ 0.1 & 0.1 \end{array}$	213 228 231 241 258 269 075 066 065 060 061 066 187	$\begin{array}{c} 0.3 & 0.2 \\ 1.2 & 0.8 \\ 1.5 & 1.0 \\ 1.5 & 1.0 \\ 1.6 & 1.1 \\ 0.6 & 0.4 \\ 0.2 & 0.1 \\ 1.3 & 0.9 \\ 1.5 & 1.0 \\ 1.6 & 1.1 \\ 1.3 & 0.9 \\ 0.6 & 0.4 \\ 0.2 & 0.1 \end{array}$	212 230 237 243 255 260 036 054 065 067 072 075 180	$\begin{array}{c} 0.60 \\ 0.6 \\ 0.4 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 \\ 0.7 $	249 242 241 244 250 270 054 069 067 067 066 058 281	$\begin{array}{c} 0.5 & 0.3 \\ 1.6 & 1.1 \\ 2.0 & 1.3 \\ 1.8 & 1.2 \\ 1.4 & 0.9 \\ 0.5 & 0.3 \\ 0.5 & 0.3 \\ 1.5 & 1.0 \\ 1.9 & 1.2 \\ 1.7 & 1.1 \\ 1.1 & 0.7 \\ 0.6 & 0.4 \\ 0.1 & 0.1 \end{array}$	-6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6

Tidal Streams referred to HW at SHEERNESS 5607 4

000	'	• •	0 11	v at SHE	Enr	1233	
Hours	\diamond°	eographical Position	\bigotimes	51°47'8 N 1 20·2 E	\diamond	51°46'6N 1249E	
Before High Water C 2 6 9 9	streams (degrees)	tides (knots) tides (knots)	238 234 237 241 249 310	$\begin{array}{cccc} 1 \cdot 0 & 0 \cdot 7 \\ 2 \cdot 1 & 1 \cdot 4 \\ 2 \cdot 3 & 1 \cdot 6 \\ 2 \cdot 2 & 1 \cdot 4 \\ 1 \cdot 4 & 0 \cdot 9 \\ 0 \cdot 5 & 0 \cdot 3 \end{array}$	214 218 220 226 235 267	$\begin{array}{cccc} 0.9 & 0.6 \\ 1.9 & 1.3 \\ 2.4 & 1.6 \\ 2.2 & 1.4 \\ 1.5 & 1.0 \\ 0.6 & 0.4 \end{array}$	-6 -5 -4 -3 -2 -1
High Mater After 1 2 3 4 2 6 9 4 2 9 4 2 9 2 8 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Directions of str	Rates at spring . Rates at neap t	050 060 063 065 064 066 241	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	024 043 048 047 047 050 210	$\begin{array}{ccccccc} 0.7 & 0.5 \\ 1.8 & 1.2 \\ 2.5 & 1.7 \\ 2.2 & 1.5 \\ 1.5 & 1.0 \\ 0.7 & 0.4 \\ 0.5 & 0.3 \end{array}$	0 +1 +2 +3 +4 +5 +6

,	560	7_	4 _{Tid}	al Si	treams re	eferr	red to HV	V at	HARWIC	н
	Hours	\bigcirc^{G}	eographical Position		51°52'4 N 1 20.4 E	\diamond	51°56'4 N 1 23 5 E	¢	51°57'4 N 1 26:5 E	

Hours	\diamond^{c}	eographic Position	al 🚯	51°52'4 N 1 20·4 E	\diamond	51°56'4 N 1 23·5 E	¢	51°57'4N 126·5E	
After High Water 9 2 7 2 1 High Water 1 2 2 7 4 2 9 1 2 2 7 1 2 2 7 4 2 9	virections of streams (degree	Rates at spring tides (knots) Rates at neap tides (knots)	189 185 185 185 186 196 002 008 011 008 003 351 204	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	229 225 226 227 233 256 020 049 052 054 053 052 252	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	206 207 209 213 216 277 033 034 030 031 036 037 206	$ \begin{array}{c} 0.8 & 0.5 \\ 1.3 & 0.8 \\ 1.3 & 0.8 \\ 1.1 & 0.7 \\ 0.8 & 0.5 \\ 0.2 & 0.1 \\ 0.8 & 0.5 \\ 1.1 & 0.7 \\ 1.3 & 0.8 \\ 1.1 & 0.7 \\ 0.7 & 0.4 \\ 0.3 & 0.2 \\ 0.5 & 0.3 \\ \end{array} $	$ \begin{array}{r} -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ +1 \\ +2 \\ +3 \\ +4 \\ +5 \\ +6 \\ \end{array} $

5607_5

Tidal Streams referred to HW at HARWICH

Hours	\diamond°	Geographical Position	\bigotimes	51°56'4 N 1 23·5 E	₿	51°57'4N 126·5E	\diamond	51°59'6N 1 29·3E	\diamond	52°03'1 N 1 31-6 E	¢	52°00'8N 1 31.7E	F	51°58'1N 134·0E	\$	52°04'9 N 1 38·3 E	
High Water	ams (degrees)	tides (knots) ides (knots)	229 225 226 227 233 256	0.4 0.3 1.1 0.7 1.3 0.8 1.2 0.8 0.9 0.6 0.6 0.4	206 207 209 213 216 277	0.8 0.5 1.3 0.8 1.3 0.8 1.1 0.7 0.8 0.5 0.2 0.1	208 213 214 214 217 225	0.6 0.4 1.4 0.9 1.7 1.1 1.6 1.0 1.3 0.8 0.6 0.4	224 221 220 220 222 246	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	220 213 213 218 220 223	0.6 0.4 1.8 1.1 1.9 1.2 1.8 1.1 1.4 0.9 0.5 0.3	215 210 212 214 220 223	0.4 0.3 1.4 0.9 1.8 1.2 1.8 1.2 1.5 1.0 0.9 0.6	211 217 215 214 212 207	$\begin{array}{cccc} 0.8 & 0.5 \\ 2.0 & 1.3 \\ 2.5 & 1.7 \\ 2.5 & 1.7 \\ 2.2 & 1.3 \\ 1.2 & 0.6 \end{array}$	-6 -5 -4 -3 -2 -1
High High Water 1 2 2 6 9 2 9 2 9 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	ections of stre	Rates at spring ti Rates at neap ti	020 049 052 054 053 052 252	0·3 0·2 1·1 0·7 1·4 1·0 1·2 0·8 0·9 0·6 0·5 0·3 0·1 0·1	033 034 030 031 036 037 206	0.2 0.4 0.8 0.5 1.1 0.7 1.3 0.8 1.1 0.7 0.7 0.4 0.3 0.2 0.5 0.3	026 034 034 033 035 041 045	0.5 0.3 1.6 1.0 1.9 1.2 1.6 1.0 1.2 0.7 0.6 0.4 0.1 0.0	034 058 056 054 048 037 230	1.0 0.6 1.9 1.2 2.0 1.3 1.6 1.0 1.1 0.7 0.7 0.4 0.6 0.4	041 037 035 035 036 040 210	0.6 0.4 1.9 1.2 2.0 1.2 1.6 1.0 1.3 0.8 0.7 0.4 0.1 0.1	018 033 036 035 036 036	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	053 029 031 033 033 036 033	0.3 0.2 2.0 1.3 2.9 1.9 2.8 1.8 2.2 1.5 1.2 0.8 0.2 0.1	0 +1 +2 +3 +4 +5 +6

560	7_	6				Tidal S	Strea	ims refe	rred	to HW a	t HA	RWICH			
Hours	\diamond	eograph Positior		51°57'0N 1 16·1E	₿	51°57'9N 1 16·8E	\diamond	51°55'5N 1 18·7E	\diamond	51°55'8 N 1 18·9 E	¢	51°55'6N 1 19·5E	¢	51°56'4N 1 23·5E	
fter Mater High Water 1 5 2 4 5 9 4 9 1 7 2 2 4 7 9 1 8 6 0 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	tions of streams (degre	s at s	272 262 261 261 096 091	0.5 0.3 0.7 0.5 1.0 0.6 1.3 0.8 1.3 0.8 0.8 0.5 0.8 0.5 1.6 1.0 1.2 0.7	297 339 335 341 339 338 327 156 154 159 156	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	215 315 305 302 304 313 018 120 121 124 134	$\begin{array}{c} 0.4 & 0.2 \\ 0.9 & 0.6 \\ 1.2 & 0.7 \\ 1.2 & 0.7 \\ 1.4 & 0.7 \\ 0.8 & 0.5 \\ 0.2 & 0.1 \\ 1.0 & 0.7 \\ 1.4 & 0.9 \\ 1.0 & 0.7 \\ 1.0 & 0.6 \end{array}$	325 325 320 326 321 320 351 129 143 150 157	$\begin{array}{c} 1 \cdot 1 & 0 \cdot 7 \\ 1 \cdot 8 & 1 \cdot 1 \\ 1 \cdot 1 & 0 \cdot 7 \\ 1 \cdot 2 & 0 \cdot 8 \\ 1 \cdot 8 & 1 \cdot 2 \\ 1 \cdot 1 & 0 \cdot 7 \\ 0 \cdot 5 & 0 \cdot 3 \\ 2 \cdot 3 & 1 \cdot 5 \\ 2 \cdot 6 & 1 \cdot 7 \\ 1 \cdot 9 & 1 \cdot 2 \\ 1 \cdot 2 & 0 \cdot 8 \end{array}$	273 263 253 252 255 265 015 083 093 089 080	$\begin{array}{c} 0.8 & 0.5\\ 1.2 & 0.8\\ 1.1 & 0.7\\ 1.2 & 0.7\\ 1.2 & 0.7\\ 0.7 & 0.5\\ 0.2 & 0.1\\ 1.7 & 1.0\\ 2.7 & 1.6\\ 1.8 & 1.1\\ 1.1 & 0.7\\ \end{array}$	229 225 226 227 233 256 020 049 052 054 053	0.4 0.3 1.1 0.7 1.3 0.8 1.2 0.8 0.9 0.6 0.6 0.4 0.3 0.2 1.1 0.7 1.4 1.0 1.2 0.8 0.9 0.6	-6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4
High H	Direc	Rate	080	0.6 0.4	161 235	0.7 0.5 0.1 0.1	130 183	0.6 0.4 0.4 0.2	160 309	0.7 0.4	060 275	0·2 0·1 0·6 0·4	052	0·5 0·3 0·1 0·1	+5+6

Tidal Streams referred 5607 7 to HW at HARWICH

000	'	/ 10111			••
Hours	\diamond	eographical Position	5	1°57'03 N 1 16-09 E	
High Water 9 5 4 1 2 8 4 2 9 4 2 9 4 2 9 1 2 8 4 2 9 1 1 2 8 4 2 9 1 1 2 8 4 2 9 1 1 2 8 1 1 2 8 1 1 2 8 1 1 1 1 1 1 1 1	Directions of streams (degrees)	Rates at spring tides (knots) Rates at neap tides (knots)	258 273 277 272 262 261 096 091 090 084 080 105	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ +1 \\ +2 \\ +3 \\ +4 \\ +5 \\ +6 \\ \end{array} $

TIDAL STREAM STATION Extensive dredging has taken place in Harwich Deep Water Channel since the observations for this table were taken. The data for this station should therefore be used with caution.

5607_9	 ns referred to ON-THE-NAZ	

Hours	\diamond°	eographic Position		51°45'3 N 0 54·7 E	₿5	1°47'9N 100.6E	<।	1°44'5 N 1 O2·6 E	
After High Water 9 2 4 2 7 1 2 2 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	irections of streams (degree	Rates at spring tides (knots) Rates at neap tides (knots)	085 264 262 264 263 258 249 090 086 079 074 081 086	$ \begin{array}{ccccc} 0 \cdot 1 & 0 \cdot 1 \\ 0 \cdot 6 & 0 \cdot 4 \\ 0 \cdot 9 & 0 \cdot 6 \\ 1 \cdot 1 & 0 \cdot 7 \\ 1 \cdot 2 & 0 \cdot 8 \\ 1 \cdot 4 & 0 \cdot 9 \\ 0 \cdot 9 & 0 \cdot 6 \\ 0 \cdot 4 & 0 \cdot 3 \\ 1 \cdot 0 & 0 \cdot 7 \\ 1 \cdot 5 & 1 \cdot 0 \\ 1 \cdot 5 & 1 \cdot 0 \\ 1 \cdot 5 & 1 \cdot 0 \\ 0 \cdot 6 & 0 \cdot 4 \\ 0 \cdot 4 & 0 \cdot 3 \\ \end{array} $	000 012 010 002 358 353 180 183 190 187 180 180	$\begin{array}{cccc} 0 \cdot 0 & 0 \cdot 0 \\ 0 \cdot 4 & 0 \cdot 3 \\ 0 \cdot 8 & 0 \cdot 5 \\ 0 \cdot 9 & 0 \cdot 6 \\ 1 \cdot 1 & 0 \cdot 7 \\ 0 \cdot 9 & 0 \cdot 6 \\ 0 \cdot 6 & 0 \cdot 4 \\ 0 \cdot 5 & 0 \cdot 3 \\ 1 \cdot 2 & 0 \cdot 8 \\ 1 \cdot 3 & 0 \cdot 8 \\ 1 \cdot 3 & 0 \cdot 8 \\ 1 \cdot 0 & 0 \cdot 7 \\ 0 \cdot 4 & 0 \cdot 3 \\ 0 \cdot 2 & 0 \cdot 1 \end{array}$	090 284 283 275 290 291 081 100 098 099 102 094	$\begin{array}{cccc} 0.1 & 0.1 \\ 0.4 & 0.3 \\ 0.9 & 0.6 \\ 1.3 & 0.9 \\ 1.4 & 0.9 \\ 1.4 & 0.9 \\ 0.7 & 0.5 \\ 0.8 & 0.5 \\ 1.5 & 1.0 \\ 1.7 & 1.1 \\ 1.3 & 0.9 \\ 0.8 & 0.5 \\ 0.5 & 0.3 \\ \end{array}$	$ \begin{array}{r} -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ +1 \\ +2 \\ +3 \\ +4 \\ +5 \\ +6 \\ \end{array} $

5607_10 Tidal Streams referred to HW at WALTON-ON-THE-NAZE

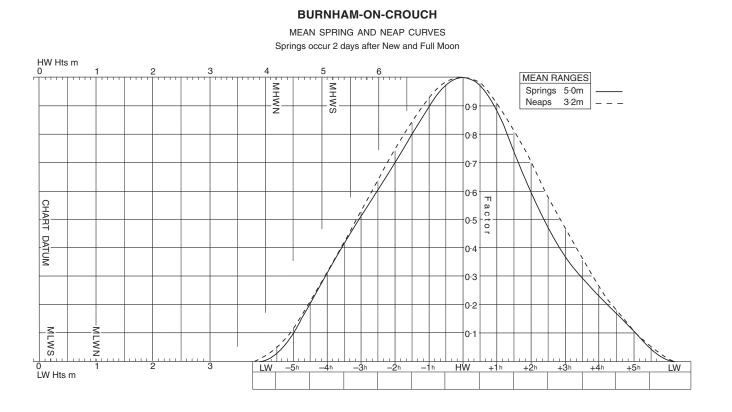
	_				
Hours	\diamond	eographical Position	\Diamond	51°47'9 N 1 00·6 E	
After High Water 9 2 7 2 1 aptil High Water High Water	Directions of streams (degrees)	Rates at spring tides (knots) Rates at neap tides (knots)	000 012 010 002 358 353 180 183 190 187 180 180	$\begin{array}{cccc} 0.0 & 0.0 \\ 0.4 & 0.3 \\ 0.8 & 0.5 \\ 0.9 & 0.6 \\ 1.1 & 0.7 \\ 0.9 & 0.6 \\ 0.6 & 0.4 \\ 0.5 & 0.3 \\ 1.2 & 0.8 \\ 1.3 & 0.8 \\ 1.0 & 0.7 \\ 0.4 & 0.3 \\ 0.2 & 0.1 \end{array}$	$ \begin{array}{r} -6 \\ -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ +1 \\ +2 \\ +3 \\ +4 \\ +5 \\ +6 \\ \end{array} $

TIME & HEIGHT DIFFERENCES FOR PREDICTING THE TIDE AT SECONDARY PORTS

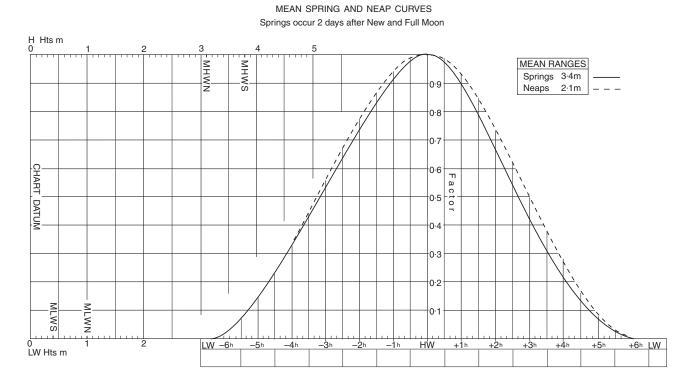
PLACE	Lat N	Long W		TIME DIFFI Water Zone U	Low V		HEIGHT I MHWS	DIFFEREN MHWN	ICES (IN I MLWN	METRES MLWS
WALTON-ON-THE-NAZE	51 51	1 17	0000 and 1200	0600 and 1800	0100 and 1700	1100 and 2300	4.2	3.4	1.1	0.4
Whitaker Beacon Holliwell Point	51 40 51 38	1 06 0 56	+0022 +0034	+0024 +0037	-0033 +0100	+0027 +0037	+0.6 +1.1	+0.5 +0.9	+0.2 +0.3	+0.1 +0.1
River Roach Rochford	51 35	0 43	+0050	+0040	ş	ş	-0.8	-1.1	ş	ş
WALTON-ON-THE-NAZE	51 51	1 17	0000 and 1200	0600 and 1800	0100 and 1700	1100 and 2300	4.2	3.4	1.1	0.4
River Crouch										
BURNHAM-ON-CROUCH	51 37	0 48	0115		RD PORT		See Table of N			
North Fambridge Hullbridge		0 41 0 38	+0115 +0115	+0050 +0050	+0130 +0135	+0100 +0105	+1.1 +1.1	+0.8 +0.8	0.0 0.0	-0.1 -0.1
Battlesbridge		0 38	+01120	+0050	+0135 §	+0105 §	-1.8	-2.0	0.0 §	-0.1 §
Diver Discharten										
River Blackwater Bradwell Waterside	51 45	0 54	1002F	10000	+0047	+0004	+1.0	+0.8	+0.2	0.0
Osea Island		0 54 0 46	+0035 +0057	+0023 +0045	+0047 +0050	+0004	+1.0	+0.8 +0.9	+0.2	0.0
Maldon	51 43	0 40	+0037	+0045	+0050 ⊙	+0007 ⊙	-1.3	-1.1	+0.1 ⊙	0.0 ©
West Mersea	51 47	0 54	+0035	+0015	+0055	+0010	+0.9	+0.4	+0.1	+0.1
Diver Color										
River Colne Brightlingsea	51 48	1 00	+0025	+0021	+0046	+0004	+0.8	+0.4	+0.1	0.0
Colchester	51 53	0 56	+0025	+0025	\$	\$ \$	0.0	-0.3	§	§
Clacton-on-Sea	51 47	1 10	+0012	+0010	0025	+0008	+0.3	+0.1	+0.1	+0.1
Bramble Creek	51 47	1 10	+0012	-0007	+0025 -0005	+0008	+0.3	+0.1	+0.1	+0.1
Sunk Head	51 47	1 30	0000	+0002	-0002	+0002	-0.3	-0.3	-0.1	-0.1
HARWICH	51 57	1 17	0000 and 1200	0600 and 1800	0000 and 1200	0600 and 1800	4.0	3.4	1.1	0.4
River Stour	F4 F7	1.05	.0005	.0015	.0005			.0.1	0.1	0.1+
Mistley	51 57	1 05	+0025	+0015	+0005	0	+0.2	+0.1	-0.1	-0.1†
River Orwell Ipswich	52 03	1 10	+0015	+0025	0000	+0010	+0.2	0.0	-0.1	-0.1
FELIXSTOW PIER	51 57	1 21		STANDARD PORT See Table of NON-REFERENCE STANDARD		RD PORTS				
WALTON-ON-THE-NAZE	51 51	1 17	0100 and 1300	0700 and 1900	0100 and 1300	0700 and 1900	4.2	3.4	1.1	0.4
River Deben										
Woodbridge Haven	51 59	1 24	0000	-0005	-0020	-0025	-0.5	-0.5	-0.1	+0.1
Woodbridge	52 05	1 19	+0045	+0025	+0025	-0020	-0.2	-0.3	-0.2	0.0
Bawdsey	52 01	1 26	-0016	-0020	-0030	-0032	-0.8	-0.6	-0.1	-0.1
Orford Haven										
Orford Haven Bar	52 02	1 28	-0026	-0030	-0036	-0038	-1.0	-0.8	-0.1	0.0
Orford Quay	52 05	1 32	+0040	+0040	+0055	+0055	-1.4	-1.1	0.0	+0.2
Slaughden Quay Iken Cliffs	52 08 52 09	1 35 1 31	+0105 +0130	+0105 +0130	+0125 +0155	+0125 +0155	-1.3 -1.3	-0.8 -1.0	-0.1 0.0	+0.2 +0.2
	52 03	1.51	+0130	+0100	+0100	+0100	-1.0	-1.0	0.0	±0.2
			0300	0900	0200	0800				
	52 28	1 45	and	and	and	and	2.4	2.1	1.0	0.5
LOWESTOFT						0000				
LOWESTOFT			1500	2100	1400	2000				
LOWESTOFT	52 05	1 35	1500 +0135	2100 +0135	+0135	+0125	+0.4	+0.6	-0.1	0.0

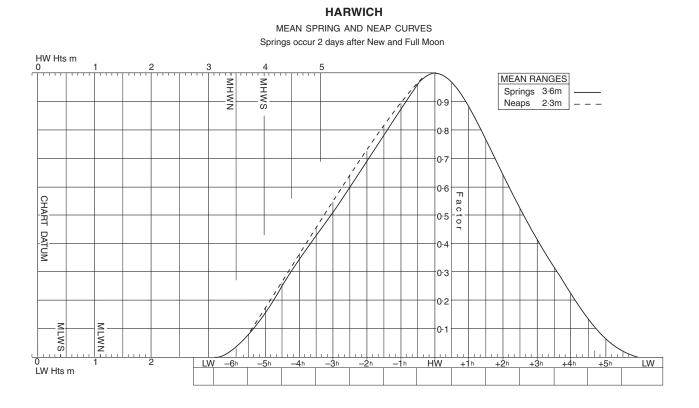
Non-Reference Standard Ports							
STANDARD PORT	MHWS	MHWN	MLWN	MLWS			
BURNHAM-ON-CROUCH	5.2	4.2	1.0	0.2			
FELIXSTOW PIER	3.8	3.1	1.0	0.4			

Tidal Curve Diagrams

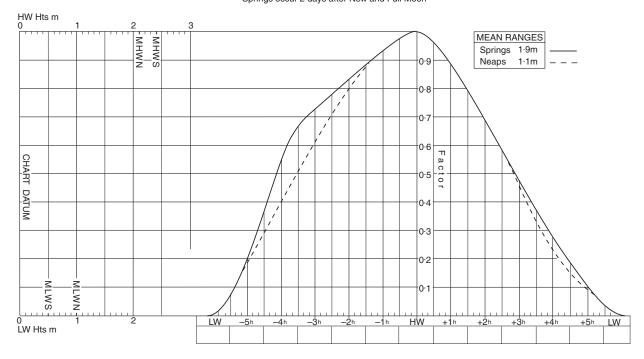


FELIXSTOWE PIER





LOWESTOFT MEAN SPRING AND NEAP CURVES Springs occur 2 days after New and Full Moon



WALTON-ON-THE-NAZE

MEAN SPRING AND NEAP CURVES Springs occur 2 days after New and Full Moon

