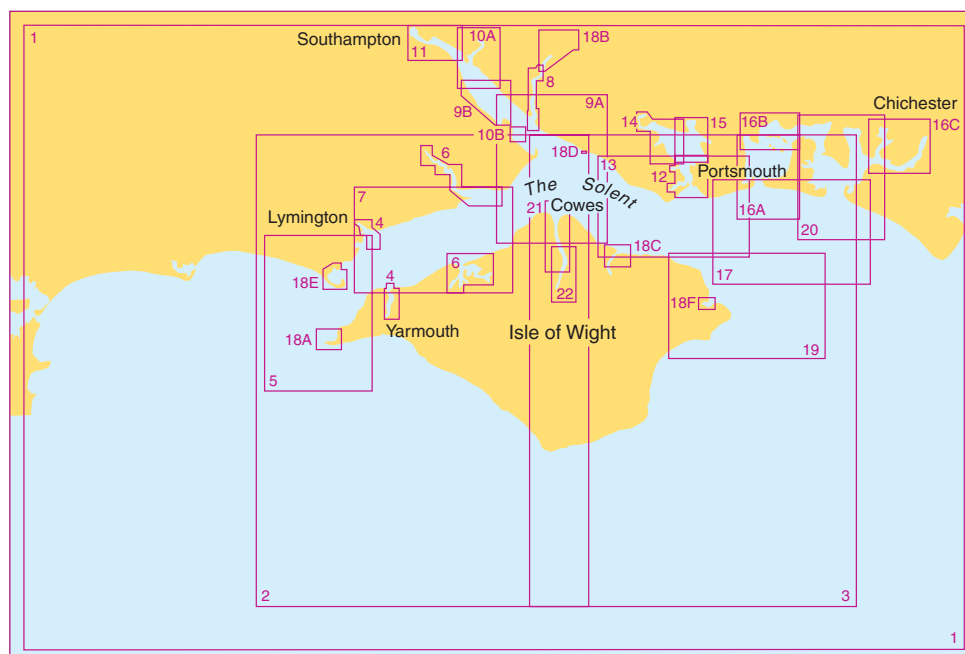




The Solent and Approaches

Coverage Diagram



5600	Chart Title	Natural Scale 1:
1	Outer Approaches to the Solent	150,000
2	Western Solent and Approaches	75,000
3	Eastern Solent and Approaches	75,000
4A	Lymington River	5,000
4B	Continuation of Lymington River	5,000
4C	Isle of Wight Yarmouth Harbour	3,000
4D	Isle of Wight River Yar	12,500
5	Needles Channel	25,000
6A	Beaulieu River	10,000
6B	Continuation of Beaulieu River	10,000
6C	Isle of Wight Newtown River	12,500
6D	Isle of Wight Continuation of Newtown River	12,500
7	Yarmouth to Beaulieu River	25,000
8A	Entrance to River Hamble	5,000
8B	Warsash to Satchell Marsh	5,000
8C	Mercury Yacht Harbour to Bursledon Bridge	5,000
8D	Bursledon Bridge	5,000

5600	Chart Title	Natural Scale 1:
9A	River Hamble to Cowes	25,000
9B	Continuation to Hythe	25,000
10A	River Itchen	10,000
10B	Ashlett Creek	10,000
11	River Test	10,000
12A	Entrance to Portsmouth Harbour	7,500
12B	Continuation of Forton Lake	7,500
12C	Continuation of Stoke Lake	7,500
13	Spithead	25,000
14A	Portsmouth Harbour Approaches to Fareham Lake	7,500
14B	Continuation of Fareham Lake	7,500
15	Portsmouth Harbour Approaches to Port Solent	7,500
16A	Langstone Harbour	20,000
16B	Upper Reaches of Langstone Harbour	20,000
16C	Chichester Harbour Bosham and Fishbourne Channels	20,000
17	Approaches to Langstone and Chichester Harbours	25,000
18A	Isle of Wight Alum Bay	12,500
18B	River Hamble Bursledon to Botley	25,000
18C	Isle of Wight Wootton Creek	10,000
18D	Hillhead Harbour	3,000
18E	Keyhaven	7,500
18F	Isle of Wight Bembridge Harbour	5,000
19	Eastern Approaches to the Solent	25,000
20	Chichester Harbour	20,000
21	Cowes Harbour	3,500
22A	River Medina	3,500
22B	Continuation of River Medina	3,500
22C	River Medina Folly Point to Newport	10,000

Notes

DATUM

All these charts are referred to the WGS84 compatible datum ETRS89. 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.

LIGHTS

Light stars without legends represent two fixed lights displayed vertically. They are seen as red to port and green to starboard when proceeding upriver.

MILITARY BEACONS (PORTSMOUTH)

These beacons are positioned for specific military use. They are not intended for general port users.

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.

RACING BUOYS

Numerous lit and unlit racing buoys are laid during the period March to December. These buoys are not shown on this chart. Larger scale charts should be consulted for positions and details.

LOCAL NOTICE TO MARINERS

For the latest navigational information in this area including local Aids to Navigation, mariners should also consult Notice to Mariners issued by King's Harbour Master (KHM), Portsmouth. These are available at the KHM website: www.royalnavy.mod.uk/khm/portsmouth

HIGH SPEED CRAFT

High speed craft operate in the area of these charts. Mariners are advised to maintain a good lookout. Some high speed craft may generate large waves, which can have a serious impact on small craft and their moorings close to the shoreline and on shallow off-lying banks.

FIRING PRACTICE AREAS

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

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)

RADIO REPORTING

Vessels 20 metres and over in length are required to contact Hamble Harbour Radio on VHF Channel 68 before entering the river or getting underway and to maintain watch on this frequency while within the harbour limits. For procedures and working details of River Hamble Radio Reporting, see ADMIRALTY List of Radio Signals.

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.

HISTORIC WRECKS

The sites of historic wrecks are protected from unauthorised interference.

CAUTION

Mariners navigating in the area of these charts should do so with extreme caution as vessels with limited manoeuvrability (large and deep-draught) and other crossing traffic may be encountered.

VESSEL REPORTING

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

- Southampton VTS (including Portsmouth)
- Cowes Harbour Radio
- River Hamble Radio Reporting

PRECAUTIONARY AREA

(50°46'·7N 1°18'·8W)

All vessels over 150 metres in length navigating in the Precautionary Area will be given a Moving Prohibited Zone of 1000 metres ahead and 100 metres to either side. Vessels under 20 metres in length will be prohibited from entering this zone. See ADMIRALTY Sailing Directions for details.

GENERAL DIRECTION OF BUOYAGE

In the Solent the buoyage direction changes off Egypt Point (50°46'N 1°19'W).

CABLE AND PIPELINE AREA

(56°46'·2N 1°20'·9W)

Mariners are warned not to anchor, dredge, trawl or engage in any other activity which may damage the telephone and high-voltage cables and gas pipelines

which exist within the area from Egypt Point to Stansore Point and from Thorness Bay to Inchmery House. Some of these cables and pipelines lie close to the eastern and western limits of the area.

ANCHORING RESTRICTED

1. Mariners are advised that prior to anchoring in depths greater than 10 metres within the Port of Southampton, permission must be obtained from Southampton Vessel Traffic Service.
2. Vessels should not anchor or obstruct navigation in fairways within the Port of Southampton. For further details, see the Southampton Harbour Byelaws, 2003.
2. Vessels should not anchor in Navigation Channels within the Dockyard Port of Portsmouth. For further details, see the Dockyard Port of Portsmouth Order 2005.

CONTROL OF NAVIGATION

Navigation within the Dockyard Port of Portsmouth is subject to provisions made in the Dockyard Port of Portsmouth Order 2005, directions given by the King's Harbour Master (either written or verbal), local notice to mariners and guidance published on the KHM website. For further information, see www.royalnavy.mod.uk/khm/portsmouth

NAVAL BASE EXCLUSION ZONE

There are mandatory exclusion zones of a minimum 50m and up to 250m around all warships and berths in HM Naval Base and around warships at anchor. Vessels are prohibited from entering these zones without the permission of the King's Harbour Master.

ANCHORING RESTRICTED (DOCKYARD OF PORTSMOUTH)

Vessels should not anchor in Navigation Channels. For further details, see the Dockyard Port of Portsmouth Order 2005.

PERSONAL WATERCRAFT

Any person intending to use Personal Water Craft within the Dockyard Port of Portsmouth is to consult the King's Harbour Master website (www.royalnavy.mod.uk/khm/portsmouth) for current rules and regulations.

RIVER HAMBLE – REGULATIONS

Anchoring is not permitted between No 1 light beacon (50°50'·34N 1°18'·64W) and the M27 bridge (50°53'·33N 1°17'·70W). Net fishing and shellfish dredging are permitted only with the written authority of the Harbour Master. Water skiing is prohibited within the harbour limits. A maximum speed limit of 6 knots is in force within the harbour limits; for further details see ADMIRALTY Sailing Directions.

PORTSMOUTH – ANCHOR BERTHS

Anchor berths for large vessels are shown lettered thus: 

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.

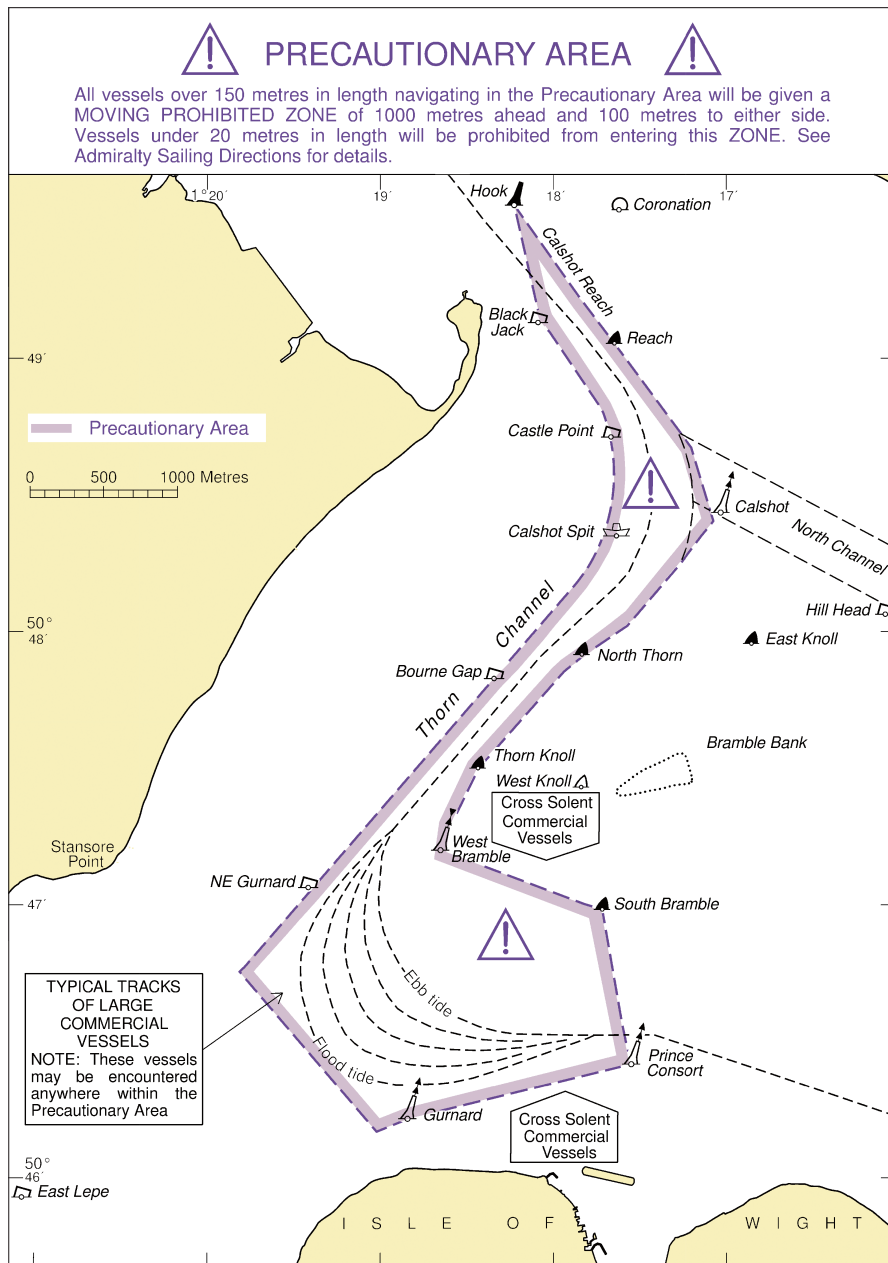
HM COASTGUARD

JRCC (UK)

Tel: +44 (0) 2392 552100

MMSI: 002320011

e-mail: zone17@hmcg.gov.uk (FAO Solent Coastguard)



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 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 environment offshore is now well established, with users in all areas of the commercial, fishing and leisure communities.

Incidents have occurred 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 relevant 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
E-mail customerservices@ukho.gov.uk

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

Tidal Stream Information

5600_1

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°37'03 N 1 51-08W	B 50°27'53 N 1 47-08W	C 50°35'54 N 1 38-59W	D 50°30'44 N 1 16-69W	E 50°36'53 N 0 58-09W
Before High Water	Directions of streams (degrees)	053 1.3 0.6 049 2.0 1.0 057 2.1 1.0 053 1.9 1.0 046 1.3 0.6 103 0.3 0.1	072 1.2 0.6 088 2.3 1.2 088 2.8 1.4 085 2.6 1.3 085 1.8 0.9 066 0.7 0.3	075 0.8 0.3 083 1.6 0.8 086 2.0 1.0 088 2.0 1.0 091 1.5 0.8 097 0.7 0.3	084 1.2 0.6 100 3.6 1.8 100 4.5 2.2 100 4.5 2.2 100 3.5 1.7 092 1.3 0.6	083 0.9 0.5 076 1.9 0.9 070 1.9 1.0 066 1.8 0.9 065 1.2 0.6 046 0.3 0.1
High Water	Rates at spring tides (knots)	242 1.2 0.6 238 2.3 1.1 231 2.3 1.2 232 2.0 1.0 229 1.2 0.6 225 0.1 0.1 053 1.0 0.5	259 1.3 0.6 268 2.4 1.2 261 3.1 1.5 262 2.6 1.3 269 1.9 0.9 283 0.8 0.4 062 0.9 0.4	255 0.6 0.3 265 1.8 0.9 267 2.2 1.1 265 2.1 1.0 266 1.5 0.7 272 0.5 0.2 063 0.5 0.3	290 1.2 0.6 276 3.9 1.9 276 4.3 2.1 276 4.1 2.0 276 3.1 1.5 294 1.2 0.6 068 0.7 0.4	268 0.9 0.4 260 1.7 0.9 253 2.1 1.0 245 1.8 0.9 241 1.3 0.6 234 0.7 0.3 083 0.5 0.3
After High Water	Rates at neap tides (knots)					

5600_2

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°35'5 N 1 38-6W	B 50°39'0 N 1 37-5W	C 50°33'9 N 1 29-3W	D 50°35'9 N 1 23-0W	E 50°30'4 N 1 16-7W	F 50°33'5 N 1 16-7W
Before High Water	Directions of streams (degrees)	075 0.8 0.3 083 1.6 0.8 086 2.0 1.0 088 2.0 1.0 091 1.5 0.8 097 0.7 0.3	064 1.4 0.7 076 2.2 1.1 082 2.5 1.2 083 2.3 1.1 074 1.6 0.8 074 0.7 0.3	094 1.9 0.9 100 2.3 1.2 102 2.7 1.3 101 2.5 1.2 102 1.8 0.9 106 0.9 0.4	129 1.3 0.6 127 1.7 0.9 125 1.8 0.9 120 1.4 0.7 109 0.7 0.4 320 0.6 0.3	084 1.2 0.6 100 3.6 1.8 100 4.5 2.2 100 4.5 2.2 100 3.5 1.7 092 1.3 0.6	072 2.3 1.2 070 3.7 1.8 080 3.3 1.6 079 2.9 1.5 077 2.4 1.2 066 0.3 0.1
High Water	Rates at spring tides (knots)	255 0.6 0.3 265 1.8 0.9 267 2.2 1.1 265 2.1 1.0 266 1.5 0.7 272 0.5 0.2 063 0.5 0.3	268 0.9 0.5 264 2.2 1.1 258 2.2 1.1 245 2.2 1.1 241 1.9 0.9 258 0.7 0.4 048 0.9 0.5	282 0.6 0.3 285 1.8 0.9 286 2.3 1.2 281 2.2 1.1 283 1.6 0.8 310 0.5 0.2 090 0.9 0.5	302 1.8 0.9 300 2.1 1.1 300 1.6 0.8 301 0.9 0.4 290 0.2 0.1 135 0.5 0.2 129 1.1 0.6	290 1.2 0.6 276 3.9 1.9 276 4.3 2.1 276 4.1 2.0 276 3.1 1.5 294 1.2 0.6 068 0.7 0.4	262 2.4 1.2 257 3.4 1.7 252 3.8 1.9 260 3.4 1.7 255 2.3 1.2 247 0.8 0.4 075 1.6 0.8
After High Water	Rates at neap tides (knots)						

5600_3

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°30'4 N 1 16-7W	B 50°33'5 N 1 16-7W	C 50°38'0 N 1 06-6W	D 50°34'4 N 1 04-5W	E 50°28'0 N 1 00-1W	F 50°42'3 N 0 59-5W	G 50°36'5 N 0 58-1W	H 50°40'1 N 0 56-4W	J 50°38'0 N 0 54-6W	
Before High Water	Directions of streams (degrees)	084 1.2 0.6 100 3.6 1.8 100 4.5 2.2 100 4.5 2.2 100 3.5 1.7 092 1.3 0.6	072 2.3 1.2 070 3.7 1.8 080 3.3 1.6 079 2.9 1.5 077 2.4 1.2 066 0.3 0.1	058 1.4 0.7 059 1.7 0.8 053 1.6 0.8 048 1.5 0.8 046 1.0 0.5 051 0.1 0.0	066 1.4 0.7 067 2.4 1.2 068 2.7 1.3 070 2.4 1.2 070 1.4 0.7 063 0.3 0.2	078 0.9 0.5 086 2.7 1.3 083 2.8 1.4 083 2.7 1.4 082 1.8 0.9 084 0.5 0.2	094 1.0 0.5 085 1.3 0.6 076 1.9 0.9 070 1.9 1.0 066 1.8 0.9 065 1.2 0.6 046 0.3 0.1	083 0.9 0.5 076 1.6 0.8 078 1.8 0.9 065 1.5 0.8 048 0.9 0.4 345 0.2 0.1	085 0.7 0.3 078 1.6 0.8 078 1.8 0.9 065 1.5 0.8 048 0.9 0.4 282 1.3 0.7	081 1.1 0.6 082 1.9 1.0 084 2.2 1.1 072 1.9 1.0 060 1.3 0.6 030 0.3 0.1	-6 -5 -4 -3 -2 -1
High Water	Rates at spring tides (knots)	290 1.2 0.6 276 3.9 1.9 276 4.3 2.1 276 4.1 2.0 276 3.1 1.5 294 1.2 0.6 068 0.7 0.4	262 2.4 1.2 257 3.4 1.7 252 3.8 1.9 260 3.4 1.7 255 2.3 1.2 247 0.8 0.4 075 1.6 0.8	245 1.1 0.6 238 1.9 0.9 238 1.9 0.9 237 1.5 0.7 238 0.9 0.5 000 0.0 057 1.1 0.5	257 2.3 1.1 247 2.6 1.3 245 2.2 1.1 246 1.5 0.7 260 0.4 0.2 061 0.9 0.4	267 2.4 1.2 265 2.8 1.4 263 2.8 1.4 265 2.1 1.1 271 0.9 0.5 071 0.4 0.2	280 1.4 0.7 275 1.4 0.7 247 1.1 0.6 196 1.1 0.6 170 0.9 0.5 128 0.6 0.3 100 0.8 0.4	310 0.9 0.5 268 0.9 0.4 260 1.7 0.9 253 2.1 1.0 245 1.8 0.9 241 1.3 0.6 234 0.7 0.3 083 0.5 0.3	282 1.3 0.7 265 1.5 0.7 252 1.6 0.8 236 1.2 0.6 218 0.9 0.4 193 0.4 0.2 095 0.4 0.2	271 1.0 0.5 266 2.1 1.1 257 2.0 1.0 246 1.7 0.8 241 1.3 0.6 239 0.5 0.3 078 0.7 0.3	0 +1 +2 +3 +4 +5 +6
After High Water	Rates at neap tides (knots)										

5600_4

Tidal Streams referred to HW
at PORTSMOUTH

Hours	Geographical Position	A 50°42'7 N 1 30-2W
Before High Water	Directions of streams (degrees)	-6 082 2.4 1.2 -5 082 2.4 1.2 -4 082 2.2 1.1 -3 084 1.9 0.9 -2 087 1.0 0.5 -1 235 0.3 0.1
High Water	Rates at spring tides (knots)	0 261 1.7 0.8 +1 264 2.7 1.4 +2 265 2.8 1.4 +3 265 2.5 1.2 +4 266 2.0 1.0 +5 090 0.3 0.2 +6 082 2.0 1.0
After High Water	Rates at neap tides (knots)	

5600_5

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position		A 50°42'9 N 1 38-6W	B 50°42'2 N 1 33-9W	C 50°42'1 N 1 32-8W	D 50°39'4 N 1 37-4W	E 50°39'0 N 1 37-5W						
Before High Water	5 4 3 2 1	Directions of streams (degrees) Rates at spring tides (knots) Rates at neap tides (knots)	093	0.9 0.4	121	3.2 1.6	049	3.7 1.9	070	2.3 1.1	064	1.4 0.7	-6
			100	1.0 0.5	114	3.2 1.6	053	3.9 1.9	086	3.1 1.5	076	2.2 1.1	-5
			090	0.8 0.4	109	3.2 1.6	055	3.5 1.8	083	2.9 1.4	082	2.5 1.2	-4
			089	0.7 0.4	108	3.0 1.5	057	3.5 1.7	081	2.4 1.2	083	2.3 1.1	-3
			089	0.5 0.2	106	2.3 1.1	064	2.5 1.2	080	1.9 1.0	074	1.6 0.8	-2
			260	0.4 0.2	282	0.9 0.4	263	0.2 0.1	082	0.9 0.4	074	0.7 0.3	-1
High Water	1 2 3 4 5 6		277	0.8 0.4	291	3.2 1.6	235	2.8 1.4	278	1.2 0.6	268	0.9 0.5	0
			281	1.0 0.5	295	3.3 1.6	233	4.0 2.0	270	2.3 1.1	264	2.2 1.1	+1
			270	0.9 0.5	294	3.3 1.6	232	4.4 2.2	267	2.6 1.3	258	2.2 1.1	+2
			262	0.8 0.4	292	3.5 1.7	234	4.4 2.2	250	3.4 1.7	245	2.2 1.1	+3
			263	0.4 0.2	289	2.2 1.1	238	2.2 1.1	251	3.0 1.5	241	1.9 0.9	+4
			074	0.3 0.1	102	0.7 0.3	052	0.8 0.4	257	0.8 0.4	258	0.7 0.4	+5
090	0.8 0.4	119	2.8 1.4	047	3.3 1.6	062	1.3 0.6	048	0.9 0.5	+6			

5600_7 Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°42'7"N 1°30'2W	B 50°44'0"N 1°29'2W	C 50°44'5"N 1°24'8W	D 50°45'4"N 1°22'0W
Before High Water	Directions of streams (degrees)	082 2-4 1-2 082 2-4 1-2 082 2-2 1-1 084 1-9 0-9 087 1-0 0-5 235 0-3 0-1	053 2-2 1-1 053 2-2 1-1 054 2-2 1-1 055 1-8 0-9 057 0-8 0-4 240 0-9 0-4	070 2-5 1-2 070 3-0 1-5 069 2-9 1-5 068 2-2 1-1 066 1-2 0-6 0-0 0-0	065 2-9 1-4 064 3-4 1-7 066 3-3 1-7 062 2-9 1-5 060 1-7 0-8 255 0-4 0-2
High Water	Rates at spring tides (knots)	261 1-7 0-8 264 2-7 1-4 265 2-8 1-4 265 2-5 1-2 266 2-0 1-0 090 0-3 0-2 082 2-0 1-0	235 2-4 1-2 235 2-5 1-2 234 2-5 1-2 232 2-2 1-1 224 0-9 0-4 1-0 0-5 052 2-2 1-1	248 1-4 0-7 251 2-5 1-2 255 3-2 1-6 254 3-1 1-5 247 1-6 0-8 0-3 0-1 071 2-2 1-1	245 2-9 1-5 244 3-5 1-8 244 3-3 1-6 246 3-0 1-5 226 2-3 1-1 084 0-2 0-1 066 2-6 1-3
After High Water	Rates at neap tides (knots)				

5600_9 Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°48'4"N 1°17'6W	B 50°48'3"N 1°15'4W	C 50°47'2"N 1°19'3W	D 50°47'0"N 1°16'8W	E 50°46'9"N 1°19'3W	F 50°46'8"N 1°13'9W	G 50°46'5"N 1°17'6W	H 50°46'3"N 1°14'3W	J 50°45'8"N 1°14'5W
Before High Water	Directions of streams (degrees)	022 1-8 0-9 038 1-0 0-5 070 0-4 0-2 058 0-4 0-2 019 1-4 0-7 008 0-5 0-2 232 1-0 0-5 230 1-1 0-5 226 1-2 0-6 205 1-4 0-7 180 2-4 1-2 070 0-2 0-1 025 1-6 0-8	110 0-7 0-4 101 1-1 0-5 100 1-1 0-5 093 0-4 0-2 303 0-3 0-1 296 1-0 0-5 293 1-3 0-6 290 1-2 0-6 283 0-8 0-4 191 0-4 0-2 139 0-8 0-4 107 0-4 0-2 105 0-5 0-2	058 1-1 0-5 056 1-0 0-5 055 1-1 0-5 088 1-6 0-8 043 0-7 0-3 231 0-8 0-4 223 2-1 1-0 236 1-8 0-9 231 1-7 0-8 230 1-4 0-6 226 0-9 0-4 0-0 0-0 1-1 0-5	076 1-2 0-6 085 1-5 0-8 085 1-7 0-9 088 1-6 0-8 082 1-5 0-8 093 0-6 0-3 253 0-6 0-3 254 2-1 1-0 268 2-0 1-0 268 2-3 1-1 263 1-8 0-9 230 0-8 0-4 072 0-4 0-2 096 1-0 0-5	052 2-0 1-0 106 2-0 1-0 100 1-9 1-0 096 1-4 0-7 086 0-4 0-2 286 0-6 0-3 283 1-6 0-8 285 2-3 1-2 287 2-4 1-2 286 1-4 0-7 270 0-4 0-2 0-6 0-3 1-7 0-9	112 1-7 0-8 106 2-0 1-0 100 1-9 1-0 096 1-4 0-7 086 0-4 0-2 286 0-6 0-3 283 1-6 0-8 285 2-3 1-2 287 2-4 1-2 286 1-4 0-7 270 0-4 0-2 0-6 0-3 1-4 0-7	084 2-5 1-2 090 2-7 1-3 091 2-7 1-4 090 2-2 1-1 096 0-9 0-4 259 0-7 0-3 267 2-8 1-4 268 3-8 1-9 269 3-0 1-5 269 1-8 0-9 275 0-5 0-2 083 0-8 0-4 084 2-0 1-0	107 1-6 0-8 118 1-4 0-8 123 1-4 0-7 121 1-0 0-5 071 0-1 0-1 300 0-8 0-4 295 1-9 1-0 288 2-1 1-0 290 1-3 0-7 296 0-2 0-1 099 0-3 0-2 099 0-7 0-4 101 1-4 0-6	119 1-3 0-6 116 1-9 1-0 115 2-0 1-0 116 1-2 0-6 124 0-3 0-2 285 0-7 0-3 294 1-8 0-9 293 2-4 1-2 295 1-8 0-9 317 0-6 0-3 0-0 0-0 115 0-4 0-2 120 1-0 0-5
High Water	Rates at spring tides (knots)									
After High Water	Rates at neap tides (knots)									

5600_10 Tidal Streams referred to HW at SOUTHAMPTON

See Note - TIDAL STREAM STATIONS

Hours	Geographical Position	A 50°55'03"N 1°23'39W	B 50°54'42"N 1°23'10W	C 50°52'53"N 1°23'29W
Before High Water	Directions of streams (degrees)	-6 033 0-3 0-2 -5.5 024 1-0 0-5 -5 024 0-6 0-3 -4.5 012 0-2 0-1 -4 027 0-3 0-1 -3.5 007 0-1 0-1 -3 301 0-1 0-0 -2.5 353 0-1 0-1 -2 024 0-6 0-3 -1.5 022 0-9 0-4 -1 018 0-9 0-4 -0.5 017 0-5 0-3 0 - 0-0 0-0 +0.5 184 0-3 0-2 +1 202 0-3 0-2 +1.5 199 0-3 0-1 +2 198 0-3 0-2 +2.5 189 0-4 0-2 +3 205 0-5 0-2 +3.5 192 0-7 0-3 +4 182 0-9 0-5 +4.5 200 1-2 0-6 +5 196 1-6 0-8 +5.5 202 1-4 0-7 +6 108 1-1 0-5	043 0-2 0-1 043 0-6 0-3 058 0-7 0-4 070 0-4 0-2 040 0-2 0-1 050 0-1 0-1 - 0-0 0-0 064 0-3 0-2 058 0-5 0-3 064 0-7 0-4 052 0-7 0-4 058 0-3 0-1 - 0-0 0-0 241 0-2 0-1 - 0-0 0-0 - 0-0 0-0 - 0-0 0-0 - 0-0 0-0 121 0-3 0-2 133 0-5 0-3 140 0-9 0-6 142 1-4 0-9 146 1-7 1-1 147 1-2 0-8 147 0-4 0-2 316 0-3 0-2	321 0-6 0-4 323 0-6 0-4 327 0-6 0-4 330 0-5 0-3 329 0-3 0-2 338 0-1 0-1 - 0-0 0-0 324 0-4 0-2 321 0-9 0-5 322 1-0 0-6 319 0-9 0-6 316 0-6 0-4 311 0-1 0-0 135 0-1 0-0 - 0-0 0-0 - 0-0 0-0 - 0-0 0-0 121 0-3 0-2 133 0-5 0-3 140 0-9 0-6 142 1-4 0-9 146 1-7 1-1 147 1-2 0-8 147 0-4 0-2 316 0-3 0-2
High Water	Rates at spring tides (knots)			
After High Water	Rates at neap tides (knots)			

5600_11 Tidal Streams referred to HW at SOUTHAMPTON

See Note - TIDAL STREAM STATIONS

Hours	Geographical Position	A 50°54'33"N 1°26'38W	B 50°54'18"N 1°26'95W
Before High Water	Directions of streams (degrees)	-6 305 0-1 0-1 -5.5 205 0-1 0-1 -5 190 0-1 0-0 -4.5 255 0-1 0-1 -4 - 0-0 0-0 -3.5 225 0-1 0-1 -3 145 0-1 0-1 -2.5 255 0-1 0-1 -2 265 0-2 0-1 -1.5 255 0-3 0-2 -1 275 0-4 0-2 -0.5 275 0-3 0-1 0 255 0-2 0-1 +0.5 225 0-1 0-0 +1 225 0-1 0-1 +1.5 - 0-0 0-0 +2 - 0-0 0-0 +2.5 - 0-0 0-0 +3 - 0-0 0-0 +3.5 105 0-1 0-1 +4 065 0-2 0-1 +4.5 055 0-4 0-2 +5 - 0-4 0-2 +5.5 - 0-1 0-0 +6 000 0-1 0-1	- 0-0 0-0 - - - 290 0-3 0-2 - - - - 0-0 0-0 - - - - 0-0 0-0 - - - - 0-0 0-0 220 0-5 0-3 245 0-4 0-2 - - - 240 0-6 0-3 - - - 025 0-2 0-1 - - - - 0-0 0-0 - - - 025 0-3 0-1 128 0-4 0-2 128 0-6 0-3 128 0-7 0-3 128 0-6 0-3 128 0-4 0-2 060 0-2 0-1
High Water	Rates at spring tides (knots)		
After High Water	Rates at neap tides (knots)		

5600_12 Tidal Streams referred to HW at PORTSMOUTH

See Note - TIDAL STREAM STATIONS

Hours	Geographical Position	A 50°48'63"N 1°07'19W	B 50°48'53"N 1°06'59W	C 50°48'48"N 1°07'02W	D 50°48'33"N 1°06'89W	E 50°47'93"N 1°06'99W	F 50°47'73"N 1°06'84W	G 50°47'65"N 1°06'81W	H 50°47'53"N 1°06'84W	J 50°47'33"N 1°06'59W
Before High Water	Directions of streams (degrees)	-6 353 0-1 0-1 -5 315 0-1 0-2 -4 318 0-1 0-2 -3 321 0-5 0-2 -2 329 0-8 0-4 -1 329 0-9 0-5 0 334 0-5 0-2 +1 231 0-1 0-0 +2 165 0-4 0-0 +3 148 1-6 0-9 +4 148 1-0 0-3 +5 146 0-1 0-2 +6 000 0-1 0-1	027 0-1 0-0 045 0-1 0-1 045 0-1 0-0 062 0-2 0-1 062 0-3 0-1 055 0-2 0-0 110 0-1 0-1 210 0-3 0-1 250 0-1 0-2 243 0-5 0-2 250 0-3 0-0 027 0-1 0-0 027 0-1 0-0	336 0-2 0-1 308 0-2 0-1 - 0-0 0-0 322 0-6 0-3 329 1-7 0-8 354 0-9 0-5 331 0-3 0-1 150 0-1 0-1 162 0-4 0-2 161 1-1 0-5 142 0-9 0-4 0-5 0-2 - 0-0 0-0	272 0-6 0-3 301 0-8 0-4 314 0-6 0-3 346 0-7 0-3 003 1-1 0-5 007 1-1 0-6 042 0-6 0-3 114 0-4 0-2 154 0-8 0-4 161 1-1 0-5 165 1-3 0-6 175 0-9 0-5 252 0-4 0-2	355 0-4 0-2 345 0-2 0-1 345 0-1 0-1 352 0-7 0-4 000 1-6 0-8 016 1-5 0-8 - 0-0 0-0 161 0-6 0-3 168 0-8 0-4 168 1-8 0-9 182 0-7 0-4 200 0-1 0-0 342 0-4 0-2	335 0-6 0-1 349 0-6 0-0 017 0-1 0-1 350 0-9 0-5 347 2-4 1-1 337 1-8 1-1 077 0-4 0-3 152 0-8 0-4 170 0-8 0-7 169 2-3 1-0 169 1-6 0-6 169 0-7 0-3 327 0-3 0-1	326 0-7 0-2 337 0-9 0-3 334 0-4 0-1 318 1-0 0-4 318 2-4 1-1 332 1-9 0-9 313 0-2 0-1 187 0-3 0-2 171 0-2 0-2 165 2-4 1-0 164 1-5 0-6 183 0-2 0-1 325 0-6 0-2	323 0-3 0-1 033 0-2 0-1 035 0-2 0-1 342 0-5 0-2 335 0-8 0-4 344 1-2 0-5 052 0-4 0-2 129 0-7 0-3 126 0-7 0-5 131 3-0 0-9 119 1-6 0-5 123 0-3 0-2 307 0-4 0-0	336 1-2 0-3 341 0-9 0-3 336 0-4 0-5 338 1-5 1-0 343 2-8 1-3 342 2-8 1-2 329 0-4 0-2 165 0-9 0-5 164 1-6 1-5 159 4-1 1-9 155 3-0 1-0 161 0-9 0-2 334 0-9 0-3
High Water	Rates at spring tides (knots)									
After High Water	Rates at neap tides (knots)									

5600_12(A) continued

K	50°47'23N 1°06'49W	L	50°47'03N 1°06'29W	
346	0-8 0-2	325	0-9 0-2	-6
339	0-8 0-6	320	0-7 0-2	-5
337	0-5 0-6	324	0-6 0-3	-4
331	1-1 0-8	329	1-1 0-7	-3
334	1-7 0-9	331	1-4 0-8	-2
333	2-3 0-8	325	1-3 0-7	-1
333	0-3 0-3	318	0-7 0-3	0
135	0-1 0-1	196	0-2 0-0	+1
151	1-1 1-4	156	0-4 0-5	+2
154	3-9 1-4	146	3-6 1-4	+3
154	1-8 1-0	147	2-0 1-1	+4
156	0-2 0-4	149	0-7 0-3	+5
346	0-8 0-1	328	0-7 0-1	+6

TIDAL STREAM STATIONS

Table 5600_10 Station **G**, Table 5600_11 Stations **A** and **B**

Extensive dredging has taken place in the River Test Deep Water Channel since the observations for these tables were taken. The data for these stations should therefore be used with caution.

TIDAL STREAM STATIONS

Table 5600_12(A) and 5600_15

Extensive capital dredging has taken place within Portsmouth Harbour and the approach channel since the observations for the tidal stream table were taken. The data for these stations should therefore be used with caution.

5600_13

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°46'8 N 1 13-9W	B 50°47'4 N 1 13-4W	C 50°44'8 N 1 12-6W	D 50°46'1 N 1 11-9W	E 50°47'0 N 1 11-4W	F 50°45'1 N 1 09-5W	G 50°45'9 N 1 09-5W	H 50°45'9 N 1 06-8W	J 50°46'5 N 1 06-4W
Before High Water	Directions of streams (degrees)	112 1-7 0-8	117 1-2 0-6	107 0-8 0-4	110 1-2 0-6	117 0-8 0-4	110 1-3 0-6	103 1-2 0-6	085 0-7 0-3	060 0-5 0-2
High Water	Rates at spring tides (knots)	106 2-0 1-0	119 1-6 0-8	109 0-8 0-4	116 1-7 0-9	114 0-8 0-4	115 1-5 0-7	109 1-6 0-8	098 0-9 0-4	075 0-5 0-2
High Water	Rates at neap tides (knots)	100 1-9 1-0	111 1-2 0-6	113 0-8 0-4	126 1-7 0-9	108 0-6 0-3	118 1-1 0-6	114 1-7 0-8	096 1-1 0-5	072 0-5 0-2
After High Water	Directions of streams (degrees)	096 1-4 0-7	096 0-2 0-1	170 0-2 0-1	134 1-1 0-6	087 0-3 0-2	120 0-3 0-2	127 1-1 0-5	094 0-6 0-3	030 0-2 0-1
High Water	Rates at spring tides (knots)	086 0-4 0-2	305 0-5 0-3	269 0-6 0-3	216 0-2 0-1	359 0-2 0-1	249 0-1 0-1	176 0-4 0-2	308 0-1 0-1	312 0-3 0-1
High Water	Rates at neap tides (knots)	286 0-6 0-3	298 1-0 0-5	280 1-1 0-6	289 0-9 0-5	321 0-4 0-2	282 0-8 0-4	270 0-7 0-3	290 0-6 0-3	288 0-4 0-2
After High Water	Directions of streams (degrees)	283 1-6 0-8	294 1-5 0-8	286 1-4 0-7	295 1-5 0-7	287 1-4 0-7	289 1-5 0-7	284 1-4 0-7	277 1-3 0-6	266 0-8 0-4
High Water	Rates at spring tides (knots)	285 2-3 1-2	291 1-9 1-0	293 1-2 0-6	297 2-0 1-0	295 1-6 0-8	286 1-7 0-8	288 2-0 1-0	275 1-6 0-8	257 0-9 0-4
High Water	Rates at neap tides (knots)	287 2-4 1-2	295 1-1 0-6	290 0-4 0-2	293 1-6 0-8	292 0-8 0-4	286 1-0 0-5	294 2-0 1-0	279 1-2 0-6	234 0-4 0-2
After High Water	Directions of streams (degrees)	286 1-4 0-7	125 0-4 0-2	083 0-4 0-2	325 0-3 0-2	125 0-4 0-2	008 0-2 0-1	306 1-1 0-6	255 0-5 0-2	174 0-6 0-3
High Water	Rates at spring tides (knots)	270 0-4 0-2	118 0-7 0-3	097 0-8 0-4	070 0-4 0-2	128 0-7 0-3	075 0-4 0-2	000 0-0	107 0-9 0-4	103 0-6 0-3
High Water	Rates at neap tides (knots)	120 0-6 0-3	117 0-8 0-4	103 0-8 0-4	091 0-5 0-3	128 0-8 0-4	096 0-7 0-4	087 0-7 0-3	106 0-5 0-2	083 0-3 0-1
After High Water	Directions of streams (degrees)	113 1-4 0-7	117 1-0 0-5	105 0-8 0-4	106 1-0 0-5	120 0-9 0-4	107 1-1 0-6	101 1-1 0-6	089 0-6 0-3	053 0-4 0-2

5600_15

Tidal Streams referred to
HW at PORTSMOUTH

5600_13 continued

See Note – TIDAL STREAM STATIONS

K	50°45'1 N 1 06-3W	L	50°46'0 N 1 04-1W	
089	0-7 0-4	077	0-4 0-2	-6
115	1-1 0-5	090	1-2 0-6	-5
117	1-4 0-7	085	0-8 0-4	-4
109	0-8 0-4	047	0-2 0-1	-3
033	0-3 0-1	285	0-6 0-3	-2
327	0-4 0-2	278	1-0 0-5	-1
292	1-2 0-6	275	1-1 0-5	0
293	1-8 0-9	270	0-7 0-3	+1
288	1-5 0-7	227	0-2 0-1	+2
231	0-4 0-2	121	0-5 0-3	+3
152	0-5 0-3	112	0-6 0-3	+4
131	0-4 0-2		0-0 0-0	+5
080	0-6 0-3	069	0-2 0-1	+6

Hours	Geographical Position	A 50°48'63 N 1 07-19W
Before High Water	Directions of streams (degrees)	353 0-1 0-1
High Water	Rates at spring tides (knots)	315 0-1 0-2
High Water	Rates at neap tides (knots)	318 0-1 0-2
After High Water	Directions of streams (degrees)	321 0-5 0-2
High Water	Rates at spring tides (knots)	329 0-8 0-4
High Water	Rates at neap tides (knots)	329 0-9 0-5
After High Water	Directions of streams (degrees)	334 0-5 0-2
High Water	Rates at spring tides (knots)	231 0-1 0-0
High Water	Rates at neap tides (knots)	165 0-4 0-0
After High Water	Directions of streams (degrees)	148 1-6 0-9
High Water	Rates at spring tides (knots)	148 1-0 0-3
High Water	Rates at neap tides (knots)	146 0-1 0-2
After High Water	Directions of streams (degrees)	000 0-1 0-1

5600_16(A)&(C)

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°48'2 N 1 01-5W	B 50°47'3 N 1 01-6W	C 50°46'4 N 1 01-3W
Before High Water	Directions of streams (degrees)	045 0-4 0-2	005 0-4 0-2	055 0-3 0-1
High Water	Rates at spring tides (knots)	045 0-5 0-3	003 0-7 0-3	039 0-4 0-2
High Water	Rates at neap tides (knots)	045 0-6 0-3	004 1-5 0-7	040 0-5 0-2
After High Water	Directions of streams (degrees)	045 1-0 0-5	354 2-8 1-4	003 0-7 0-3
High Water	Rates at spring tides (knots)	045 1-3 0-7	353 3-4 1-7	347 0-9 0-5
High Water	Rates at neap tides (knots)	045 0-7 0-4	355 1-9 1-0	323 0-8 0-4
After High Water	Directions of streams (degrees)	225 0-4 0-2	0-0 0-0	290 0-4 0-2
High Water	Rates at spring tides (knots)	225 0-4 0-2	171 1-5 0-7	218 0-4 0-2
High Water	Rates at neap tides (knots)	225 0-5 0-3	167 3-1 1-5	190 0-4 0-2
After High Water	Directions of streams (degrees)	225 1-6 0-8	171 2-9 1-4	153 2-4 1-2
High Water	Rates at spring tides (knots)	225 1-4 0-7	157 1-7 0-9	148 2-4 1-2
High Water	Rates at neap tides (knots)	225 0-2 0-1	171 0-5 0-3	145 1-1 0-6
After High Water	Directions of streams (degrees)	045 0-4 0-2	0-0 0-0	110 0-4 0-2

Note: In positions **D** to **F** inclusive, the streams follow with the channels.

Position		Max Rate (knots)	Sp	Np
D 50°49'2 N 0 52-2W	Flood Ebb	0-9 1-5	-	-
E 50°48'5 N 0 51-9W	Flood Ebb	1-0 2-4	0-5 1-0	
F 50°48'4 N 0 50-2W	Flood Ebb	0-5 0-7	-	-

5600_17

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°46'0N 1 04-1W	B 50°43'7N 1 03-9W	C 50°47'3N 1 01-6W	D 50°46'4N 1 01-3W	E 50°45'3N 0 59-7W	F 50°46'9N 0 56-1W	G 50°44'1N 0 53-3W	
Before High Water	Directions of streams (degrees)	077 0-4 0-2 090 1-2 0-6 085 0-8 0-4 047 0-2 0-1 285 0-6 0-3 278 1-0 0-5	122 0-6 0-3 129 1-2 0-6 129 1-3 0-7 114 0-5 0-3 335 0-4 0-2 314 1-0 0-5	005 0-4 0-2 003 0-7 0-3 004 1-5 0-7 354 2-8 1-4 353 3-4 1-7 355 1-9 1-0	055 0-3 0-1 039 0-4 0-2 040 0-5 0-2 003 0-7 0-3 347 0-9 0-5 323 0-8 0-4	072 0-5 0-3 082 0-7 0-4 073 0-6 0-3 038 0-3 0-2 320 0-4 0-2 301 0-7 0-4	Max Rates (knots) Flood Sp 2.8. Flood Np 1.0. Ebb Sp 6.4. Ebb Np 1.2.	090 0-4 0-2 096 0-8 0-4 095 0-9 0-4 093 0-6 0-3 298 0-4 0-2 290 0-8 0-4	-6 -5 -4 -3 -2 -1
High Water	Rates at spring tides (knots)	275 1-1 0-5 270 0-7 0-3 227 0-2 0-1 121 0-5 0-3 112 0-6 0-3 069 0-2 0-1	311 1-5 0-8 311 1-7 0-9 313 1-0 0-5 168 0-2 0-1 149 0-9 0-5 141 0-7 0-3 111 0-4 0-2	171 1-5 0-7 167 3-1 1-5 171 2-9 1-4 153 2-4 1-2 157 1-7 0-9 171 0-5 0-3 110 0-4 0-2	218 0-4 0-2 190 0-4 0-2 153 2-4 1-2 148 2-4 1-2 145 1-1 0-6 110 0-4 0-2	259 0-9 0-4 230 0-5 0-3 230 0-6 0-3 128 0-6 0-3 118 0-3 0-1 075 0-4 0-2		283 1-0 0-5 272 0-9 0-4 246 0-5 0-2 190 0-3 0-1 000 0-0 092 0-3 0-2	+1 +2 +3 +4 +5 +6
After High Water	Directions of streams (degrees)								
High Water	Rates at spring tides (knots)								
High Water	Rates at neap tides (knots)								
High Water	Directions of streams (degrees)								
High Water	Rates at spring tides (knots)								
High Water	Rates at neap tides (knots)								
High Water	Directions of streams (degrees)								
High Water	Rates at spring tides (knots)								

5600_19

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°43'7N 1 03-9W	B 50°42'3N 0 59-5W	C 50°41'6N 0 57-2W	D 50°40'5N 1 03-5W
Before High Water	Directions of streams (degrees)	122 0-6 0-3 129 1-2 0-6 129 1-3 0-7 144 0-5 0-3 335 0-4 0-2 314 1-0 0-5	094 1-0 0-5 085 1-3 0-6 072 1-1 0-6 042 0-8 0-4 353 0-7 0-4 310 0-9 0-5	083 1-0 0-5 081 1-2 0-6 073 1-2 0-6 046 1-2 0-6 012 0-9 0-5 324 0-8 0-4	042 1-8 0-9 2-3 1-2 2-4 1-2 2-1 1-0 1-4 0-7 0-2 0-1
High Water	Rates at spring tides (knots)	311 1-5 0-8 311 1-7 0-9 313 1-0 0-5 168 0-2 0-1 149 0-9 0-5 141 0-7 0-3 111 0-4 0-2	287 1-4 0-7 275 1-4 0-7 247 1-1 0-6 196 1-1 0-6 170 0-9 0-5 128 0-6 0-3 100 0-8 0-4	285 1-3 0-7 267 1-6 0-8 248 1-4 0-7 205 1-1 0-6 179 1-1 0-6 160 0-9 0-4 088 0-8 0-4	228 1-2 0-6 225 2-2 1-1 223 2-7 1-4 221 2-6 1-3 215 1-7 0-9 180 0-2 0-1 040 1-3 0-7
After High Water	Directions of streams (degrees)				
High Water	Rates at spring tides (knots)				
High Water	Rates at neap tides (knots)				
High Water	Directions of streams (degrees)				
High Water	Rates at spring tides (knots)				
High Water	Rates at neap tides (knots)				
High Water	Directions of streams (degrees)				
High Water	Rates at spring tides (knots)				

5600_20

Tidal Streams referred to HW at PORTSMOUTH

Hours	Geographical Position	A 50°49'6N 0 56-8W	B 50°47'8N 0 54-1W	Note: In positions C to F inclusive, the streams follow with the channels.
Before High Water	Directions of streams (degrees)	010 0-1 0-1 020 0-2 0-1 000 0-0 0-0 010 0-5 0-2 015 0-8 0-4 010 0-7 0-3	023 0-4 0-2 023 0-4 0-2 000 0-0 0-0 025 0-7 0-3 023 1-2 0-6 022 1-6 0-8	Max Rate (knots) Sp Np
High Water	Rates at spring tides (knots)	009 0-4 0-2 200 0-1 0-1 187 0-2 0-1 187 1-1 0-5 199 0-7 0-3 215 0-2 0-1 000 0-0 0-0	009 0-7 0-3 226 0-7 0-4 223 0-5 0-2 217 1-7 0-8 220 1-5 0-8 223 1-0 0-5 005 0-2 0-1	
After High Water	Directions of streams (degrees)			
High Water	Rates at spring tides (knots)			
High Water	Rates at neap tides (knots)			
High Water	Directions of streams (degrees)			
High Water	Rates at spring tides (knots)			
High Water	Rates at neap tides (knots)			
High Water	Directions of streams (degrees)			
High Water	Rates at spring tides (knots)			

TIME & HEIGHT DIFFERENCES FOR PREDICTING THE SECONDARY PORTS ENGLAND, SOUTH COAST WITH TIDES

PLACE	Lat. N	Long. W	TIME DIFFERENCES				HEIGHT DIFFERENCES (IN METRES)			
			High Water	Low Water	Zone UT(GMT)		MHWS	MHWN	MLWN	MLWS
PORTSMOUTH	50 48	1 07	0005 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	4.7	3.8	1.9	0.8 d
Hurst Point	50 42	1 33	-0115	-0005	-0030	-0025	-2.0	-1.5	-0.5	-0.1 a
LYMINGTON	50 46	1 32	STANDARD PORT				See Table of NON-REFERENCE STANDARD PORTS			
Bucklers Hard	50 48	1 25	-0040	-0010	+0010	-0010	-1.0	-0.8	-0.2	-0.3 a
Stansore Point	50 47	1 20	-0030	-0010	-0005	-0015	-0.7	-0.5	-0.3	-0.3 a
<i>Isle of Wight</i>										
Yarmouth	50 42	1 30	-0105	+0005	-0025	-0030	-1.7	-1.2	-0.3	0.0 a
Totland Bay	50 41	1 33	-0130	-0045	-0035	-0045	-2.2	-1.7	-0.4	-0.1 a
Freshwater Bay	50 40	1 31	-0210	+0025	-0040	-0020	-2.1	-1.5	-0.4	0.0 a
Ventnor	50 36	1 12	-0025	-0030	-0025	-0030	-0.8	-0.6	-0.2	+0.2
Sandown	50 39	1 09	0000	+0005	+0010	+0025	-0.6	-0.5	-0.2	0.0
Foreland (Lifeboat Slip)	50 41	1 04	-0005	0000	+0005	+0010	+0.1	+0.1	0.0	+0.1
Bembridge Approaches	50 42	1 06	-0010	-0005	0000	+0005	+0.1	+0.1	0.0	+0.1
Bembridge Harbour	50 42	1 07	+0020	0000	+0100	+0020	-1.5	-1.4	-1.3	-1.0
Ryde	50 44	1 10	-0010	-0010	-0005	-0005	-0.1	0.0	0.0	0.0
<i>Medina River</i>										
COWES	50 46	1 18	STANDARD PORT				See Table of NON-REFERENCE STANDARD PORTS			
Folly Inn	50 44	1 17	-0015	+0015	0000	-0020	-0.6	-0.4	-0.1	+0.2
Newport	50 42	1 17	o	o	o	o	-0.6	-0.4	+0.1	+0.8
SOUTHAMPTON	50 53	1 24	0400 and 1600	1100 and 2300	0000 and 1200	0600 and 1800	4.5	3.7	1.8	0.5 b, c
Calshot Castle	50 49	1 18	0000	+0025	0000	0000	0.0	0.0	+0.2	+0.3 c
Redbridge	50 55	1 28	-0020	+0005	0000	-0005	-0.1	-0.1	-0.1	-0.1 c
<i>River Hamble</i>										
WARSASH	50 51	1 18	STANDARD PORT				See Table of NON-REFERENCE STANDARD PORTS			
Bursledon	50 53	1 18	+0020	+0020	+0010	+0010	+0.1	+0.1	+0.2	+0.2
PORTSMOUTH	50 48	1 07	0500 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	4.7	3.8	1.9	0.8 d
Lee-on-the-Solent	50 48	1 12	-0005	+0005	-0015	-0010	-0.2	-0.1	+0.1	+0.2
Selsey Bill	50 44	0 47	+0010	-0010	+0035	+0020	+0.5	+0.3	-0.1	-0.2
Nab Tower	50 40	0 57	+0015	0000	+0015	+0015	-0.2	0.0	+0.2	0.0
<i>Langstone Harbour</i>										
Entrance	50 48	1 01	0000	-0015	0000	-0010	+0.1	+0.1	0.0	0.0
CHICHESTER HARBOUR ENTRANCE	50 47	0 56	0500 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	4.9	4.0	1.9	0.9
<i>Chichester Harbour</i>										
Northney	50 50	0 58	+0020	+0010	0000	+0005	0.0	-0.2	-0.2	-0.4
Bosham	50 50	0 52	+0010	+0005	o	o	0.0	-0.1	o	o
Itchenor	50 48	0 52	+0005	0000	-0010	+0005	-0.1	-0.2	-0.2	-0.3
Dell Quay	50 49	0 49	+0015	+0010	o	o	0.0	-0.1	o	o

o No Data

- a. In the approaches to and within the Western Solent double high waters occur at or near springs; on other occasions there is a stand which lasts about 2 hours. The time differences refer to the first high water when there are two and are approximate.
- b. With a north-east and high barometer, tidal heights at Southampton may be as much as 0.6m less than predictions.

Non-Reference Standard Ports				
STANDARD PORT	MHWS	MHWN	MLWN	MLWS
LYMINGTON	3.1	2.6	1.5	0.7
COWES	4.4	3.7	1.9	0.9
WARSASH	4.5	3.8	1.9	0.8

- c. For intermediate heights use the Standard Curve for Southampton.
- d. Strong winds between north-east and south-east coupled with high barometric pressures may reduce predicted levels by up to 1m and delay times of high and low waters by up to 1 hour. Strong winds from the West coupled with low barometric pressures may increase predicted levels and advance predicted times by a similar amount.

Owing to the complicated variations in tide between Portland and Portsmouth, the time and height differences will only give approximate predictions. For a more accurate representation of tidal curves and guidance on the use of Standard Curve diagrams see ADMIRALTY Tide Tables NP201A. For Tidal Streams refer to ADMIRALTY Tidal Stream Atlas NP337.

