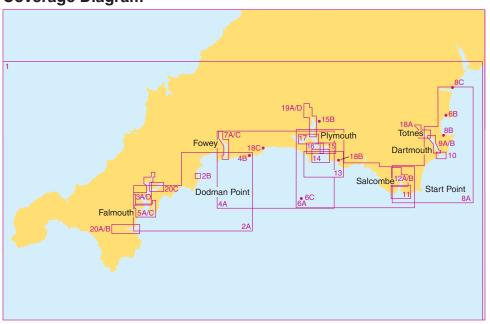


The West Country: Falmouth to Teignmouth

Coverage Diagram



5602	Chart Title	Natural Scale 1:
1	The West Country and Approaches	325,000
2A	Helford River to Fowey	75,000
2B	Mevagissey	2,500
3A	Saint Just Pool to Truro River	12,500
3B	Continuation of Truro River	12,500
3C	Continuation of Tresillian River	20,000
3D	Continuation of Carnon River	12,500
4A	Fowey to Plymouth	75,000
4B	Polperro	3,500
5A	Falmouth Harbour	12,500
5B	Upper reaches of Percuil River	12,500
5C	Penryn Harbour	12,500
6A	Plymouth to Salcombe	75,000
6B	Torquay	4,000
6C	Eddystone Rocks	7,500

5602	Chart Title	Natural Scale 1:		
7A	Fowey Harbour	6,250		
7B	River Fowey - Mixtow to Saint Winnow	15,000		
7C	Continuation of River Fowey - Saint Winnow to Lostwithiel	15,000		
8A	Salcombe to Teignmouth	75,000		
8B	Brixham	7,500		
8C	Teignmouth	7,500		
9A	Dartmouth	6,250		
9B	Higher Noss Point to Blackness Point	6,250		
10	Approaches to the River Dart	6,250		
11	Approaches to Salcombe	12,500		
12A	Salcombe Harbour	12,500		
12B	Salcombe	5,000		
13	Outer Approaches to Plymouth	25,000		
14	Plymouth Sound	12,500		
15A	Plymouth Sound - Northeastern Part	7,500		
15B	River Tavy	20,000		
16	Drake Channel to Hamoaze	7,500		
17A	Hamoaze	12,500		
17B	River Lynher	20,000		
18	Upper Reaches of River Dart, River Yealm and Looe			
18A	Blackness Point to Totnes	12,500		
18B	River Yealm	12,500		
18C	Looe	15,000		
19A	River Tamar, Bull Point to Neal Point	12,500		
19B	Neal Point to Halton Quay	12,500		
19C	Halton Quay to Cotehele Quay	12,500		
19D	Cotehele Quay to Calstock	12,500		
20A	Helford River	12,500		
20B	Continuation to Gweek	12,500		
20C	Continuation of River Fal (Ruan Creek) 20,000			

Notes

DATUM

All charts are referred to WGS84. 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.

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.

MARINE FARMS

Marine farms exist within the area of this folio. They may not all be shown individually and their positions may change frequently. Marine farms may be marked by lit or unlit buoys or beacons. Mariners are advised to avoid these structures and their associated moorings.

AUTOMATIC IDENTIFICATION SYSTEM

Many of the navigation lights in France shown on this chart are fitted with AIS transmitters. See ADMIRALTY List of Radio Signals for further details.

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.

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)

LADEN TANKERS

Laden tankers over 10,000 GRT using the Traffic Separation Scheme off Land's End, between Seven Stones and Longships, should keep at least 3 nautical miles to seaward of Wolf Rock and should not use the scheme in restricted visibility or other adverse weather. For reporting procedures see ADMIRALTY List of Radio Signals.

SURFACED SUBMARINES

Within this area, submarines occasionally tow sonar equipment. Other vessels are recommended to remain 1500 metres clear when crossing astern of a surfaced submarine.

TORBAY-CONTROLLED AREAS

The controlled areas charted around the coast of Tor Bay are mainly for the use of Swimmers and are in use between May and September. Within these areas and in the enclosed harbours, vessels should proceed with caution and must not exceed 5 knots.

VESSEL REPORTING

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

- Falmouth Local Port Service
- Plymouth VTS

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 AND MILITARY WRECKS

The sites of historic and military wrecks are protected from unauthorised interference.

ANCHORING PROHIBITED

Under the Dockyard Port of Plymouth Order, 1999, vessels must not anchor on the line of any submarine cables shown on this chart or indicated by posts or other means on the shore.

OYSTER AND MUSSEL BEDS

Oyster beds may be marked by lit or unlit buoys or beacons. Vessels should avoid grounding in these areas.

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.

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.

OPERATIONAL SEA TRAINING

Warships and auxiliaries engaged in Operational Sea Training may be encountered both in the approaches to Plymouth Sound and north of Plymouth Breakwater. Their movements may not follow customary traffic patterns.

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.

FALMOUTH COASTGUARD (MRCC) Tel: +44 (0) 1326 317575

MMSI: 002320014

e-mail: zone23@hmcg.gov.uk (FAO Falmouth 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 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.

TIDAL STREAMS

Full details of the tidal streams in the area covered by this folio are given in the following ADMIRALTY Tidal Stream Atlases: NP250 The English Channel, NP254 The West Country - Falmouth to Teignmouth and NP221 Plymouth Harbour and Approaches.

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

Tidal Streams referred to HW at Plymouth (Devonport)

5602_1

Hours 0	Geographical Position	\Diamond	50°00′2 N 5 46·7W	₿	49°52′2 N 5 11·0W	♦	49°43'0N 4 42·0W	�	50°12′:1 N 4 30·1W	€	49°48'7 N 4 01·3W	⟨₽ ⟩	50°07'8 N 3 55·3W	
After Before High Water Before Big Water Big W	Rates at spring tides (knots) Rates at neap tides (knots)	316 324 331 344 019 091 118 127 146 166 200 288 313	2·2 1·0 2·2 1·0 1·7 0·8 1·3 0·6 0·7 0·3 0·7 0·3 1·5 0·7 2·3 1·1 2·5 1·2 2·1 1·0 1·3 0·6 0·9 0·4 1·8 0·9	256 254 234 045 059 067 075 082 203 233 247 257	1-8 0-9 1-2 0-6 0-4 0-2 0-4 0-2 1-0 0-5 1-8 0-9 2-3 1-1 1-8 0-9 0-8 0-4 0-4 0-2 1-4 0-7 2-3 1-1 1-9 0-9	250 267 063 076 065 073 063 104 241 239 249 247	1·1 0·6 0·5 0·3 0·0 0·0 0·3 0·2 1·0 0·5 1·3 0·6 1·7 0·8 0·7 0·4 0·2 0·1 0·3 0·2 0·8 0·4 1·3 0·6 1·4 0·7	253 261 261 089 089 080 076 068 059 266 247 258 252	0·5 0·2 0·4 0·2 0·2 0·1 0·1 0·0 0·3 0·2 0·5 0·2 0·5 0·2 0·3 0·1 0·1 0·0 0·3 0·1 0·1 0·0 0·3 0·1 0·5 0·2 0·5 0·2 0·5 0·2	259 257 255 077 078 081 075 056 231 250 258 259	1·2 0·6 0·9 0·5 0·6 0·3 0·0 0·0 0·7 0·4 1·2 0·7 1·2 0·7 1·0 0·5 0·4 0·2 0·1 0·0 0·5 0·3 0·9 0·5 1·2 0·6	282 282 286 291 098 096 103 105 129 261 273 277	1.4 0.7 1.4 0.6 1.1 0.5 0.3 0.1 0.5 0.2 1.1 0.5 1.4 0.7 1.3 0.6 0.9 0.4 0.2 0.1 0.4 0.2 0.9 0.4 1.3 0.6	-6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6

5602_2(A)

\Diamond	50°08′5 N 5 O1·6W	₿	50°08'0N 4 52·4W	
339 005 022 023 022 036	0·2 0·1 0·6 0·3 0·9 0·4 0·6 0·3 0·4 0·2 0·2 0·1	222 249 077 037 042	0·4 0·2 0·2 0·1 0·0 0·0 0·2 0·1 0·4 0·2 0·5 0·3	-6 -5 -4 -3 -2 -1
	0.0 0.0	040	0.7 0.3	0
217 213 207 190 180 276	0·3 0·1 0·5 0·2 0·7 0·3 0·8 0·4 0·5 0·2 0·1 0·0	036 210 219 211 216	0·5 0·2 0·0 0·0 0·2 0·1 0·6 0·3 0·7 0·4 0·5 0·3	+1 +2 +3 +4 +5 +6

5602_3(A)

		\sim		
\Diamond	50°11'4N 5 02·8W	I (B)	50°10'8 N 5 01·7W	
350 342 323 323 318 325	0·1 0·0 0·4 0·2 0·6 0·3 0·4 0·2 0·1 0·1 0·1 0·0	339 340 337 329 324 317	0·2 0·1 0·5 0·2 0·5 0·2 0·4 0·2 0·2 0·1 0·1 0·1	-6 -5 -4 -3 -2 -1
355 123 146 152 168 138	0·1 0·0 0·1 0·1 0·3 0·1 0·4 0·2 0·5 0·2 0·3 0·1 0·0 0·0	172 162 155 145 141	0·0 0·0 0·2 0·1 0·4 0·2 0·5 0·2 0·4 0·2 0·3 0·1 0·0 0·0	0 +1 +2 +3 +4 +5 +6

5602_4A

\Diamond	50°12'1 N 4 30·1W		50°17'0N 4 26·7W	\$	50°18'3 N 4 10·9W		50°18′3 N 4 07·8W	
253 261 261 089 089 080	0.5 0.2 0.4 0.2 0.2 0.1 0.1 0.0 0.3 0.2 0.5 0.2	253 270 282 352 040 060	0.8 0.4 0.7 0.3 0.5 0.2 0.3 0.1 0.5 0.3 0.8 0.4	236 264 316 031 047 053	0.7 0.4 0.6 0.3 0.6 0.3 0.5 0.2 0.7 0.4 1.0 0.5	297 306 307 304 098 109	0.8 0.4 0.7 0.3 0.6 0.3 0.3 0.2 0.3 0.1 0.7 0.3	-6 -5 -4 -3 -2
076	0.5 0.2	072	0.9 0.5	081	1.0 0.5	110	0.9 0.4	0
068 059 266 247 258 252	0·3 0·1 0·2 0·1 0·1 0·0 0·3 0·1 0·5 0·2 0·5 0·3	084 103 136 207 241 249	0.9 0.4 0.6 0.3 0.4 0.2 0.3 0.2 0.6 0.3 0.8 0.4	111 129 235 242 236 232	0.8 0.4 0.3 0.2 0.3 0.1 0.8 0.4 0.9 0.5	111 121 156 265 294 296	0.8 0.4 0.6 0.3 0.3 0.2 0.4 0.2 0.7 0.4 0.8 0.4	+1 +2 +3 +4 +5 +6

5602_5(A)

\Diamond	50°10′0 N 5 02·4W	₿	50°09'4N 5 02-8W	◊	50°08'5 N 5 01·6W	
358 011 016 034 032 034	0·2 0·1 0·4 0·2 0·5 0·2 0·3 0·1 0·2 0·1 0·1 0·0	180 300 300 300 300 300	0·2 0·1 0·2 0·1 0·3 0·2 0·5 0·2 0·3 0·2 0·2 0·1	339 005 022 023 022 036	0·2 0·1 0·6 0·3 0·9 0·4 0·6 0·3 0·4 0·2 0·2 0·1	-6 -5 -4 -3 -2 -1
196 196 197 189 248 328	0·0 0·0 0·3 0·1 0·4 0·2 0·4 0·2 0·2 0·1 0·2 0·1 0·1 0·0	180 175 175 170 160 160 160	0·2 0·1 0·5 0·3 0·6 0·3 0·6 0·3 0·5 0·2 0·4 0·2 0·1 0·0	217 213 207 190 180 276	0·0 0·0 0·3 0·1 0·5 0·2 0·7 0·3 0·8 0·4 0·5 0·2 0·1 0·0	0 +1 +2 +3 +4 +5 +6

5602_6A

				00	<u> </u>					
Hours	\rightarrow ``	Geographic Position	al	(A)	50°12′54N 405·27W	(R)	0°18′33N 4 07·77W		0°18′33N 4 10·87W	
After Medical Mater Mater High Water High Water 1 2 3 4 5 9 5 4 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9	irections of streams (degrees	Rates at spring tides (knots) Rates at neap tides (knots)		266 284 294 318 069 087 098 110 129 170 267 271 264	0.8 0.4 0.8 0.4 0.8 0.4 0.5 0.2 0.4 0.2 0.8 0.4 1.0 0.5 0.9 0.4 0.6 0.4 0.2 0.1 0.6 0.3 0.8 0.4	297 306 307 304 098 109 110 111 121 156 265 294 296	0·8 0·4 0·7 0·3 0·6 0·3 0·3 0·2 0·3 0·1 0·7 0·3 0·9 0·4 0·8 0·4 0·6 0·3 0·3 0·2 0·4 0·2 0·7 0·4 0·8 0·4	236 264 316 031 047 053 081 111 129 235 242 236 232	0·7 0·4 0·6 0·3 0·6 0·3 0·5 0·2 0·7 0·4 1·0 0·5 1·0 0·5 0·8 0·4 0·3 0·2 0·3 0·1 0·8 0·4 0·9 0·5	-6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6

5602 8(A)

		\sim		
♦ 5	0°13′04N 337·07W	I (B)	0°17′04N 3 35·07W	
203 203 192 137 057 043	2·2 1·1 2·1 1·1 1·5 0·8 0·7 0·4 2·9 1·4 3·0 1·5	206 208 213 235 072 044	1.0 0.5 1.2 0.6 1.0 0.5 0.5 0.3 0.3 0.2 0.7 0.3	-6 -5 -4 -3 -2 -1
046	2.5 1.2	039	1.2 0.6	0
049 061 137 186 200 202	2·2 1·1 1·4 0·7 0·7 0·4 1·5 0·8 2·1 1·0 2·2 1·1	031 035 044 046 214 209	1.1 O·5 O·8 O·4 O·5 O·2 O·1 O·1 O·5 O·2 O·8 O·4	+1 +2 +3 +4 +5 +6

5602 9(A)+(B)

	<u> </u>	$\overline{}$.)												
1 C A S	0°20′.53N 33.81W		0°20′.74N 3 34 · 38W		0°20′-95N 3 34·47W		0°21′.09N 3 34·49W		0°21′.45N 3 34·46W	₹ 3	0°21′64N 34 ·66W		0°21′ 34 · 8		
144 319 321 322 326 330	0.6 0.3 0.8 0.4 1.0 0.5 1.1 0.5 1.2 0.6 1.2 0.5	105 351 311 298 300 296	0·2 0·1 0·2 0·1 0·4 0·2 0·9 0·4 0·8 0·4 0·6 0·3	230 029 035 033 024 015	0·2 0·1 0·4 0·2 0·6 0·3 0·7 0·3 0·9 0·4 0·9 0·4	207 008 006 011 013 015	0·2 0·1 0·5 0·2 0·7 0·3 0·7 0·3 0·7 0·3	173 328 331 334 338 340	0·2 0·1 0·5 0·2 0·8 0·4 0·9 0·4 0·9 0·4 0·7 0·3	078 345 340 323 318 325	0·1 0·0 0·4 0·2 0·5 0·2 0·6 0·3 0·8 0·4 0·8 0·4	252 030 027 026 023 019	0·1 0·2 0·5 0·5 0·6 0·6	0·0 0·1 0·2 0·2 0·3 0·3	-6 -5 -4 -3 -2
336	0.5 0.2	289	0.4 0.2	018	0.7 0.3	013	0.3 0.1	341	0.5 0.2	342	0.2 0.1	015	0.4	0.2	0
157 150 143 146 146 146	0·4 0·2 0·9 0·4 1·5 0·7 1·4 0·7 1·0 0·5 0·7 0·3	075 109 125 133 130 116	0·2 0·1 0·5 0·2 0·7 0·3 0·9 0·4 0·7 0·3 0·3 0·1	203 193 195 203 207 217	0·2 0·1 0·7 0·3 0·9 0·4 1·1 0·5 0·9 0·4 0·3 0·2	197 192 193 183 189 200	0.2 0.1 0.6 0.3 0.8 0.4 1.0 0.5 0.7 0.3 0.3 0.2	165 156 149 155 157 158	0·3 0·1 0·7 0·3 1·1 0·5 1·1 0·5 0·8 0·4 0·5 0·2	102 142 155 156 160 144	0·2 0·1 0·4 0·2 1·1 0·5 1·2 0·5 0·8 0·4 0·2 0·1	180 193 195 196 202 239	0·1 0·4 0·6 0·6 0·5 0·1	0·0 0·2 0·3 0·3 0·2 0·1	+1 +2 +3 +4 +5 +6

5602_10

♦ 50)°20′ 33 ·	20N 49W	₿ ⁵⁰ 3	33 · 8		
175	0·4	0·2	144	0·6	0·3	-6
319	0·2	0·1	319	0·8	0·4	-5
353	0·3	0·1	321	1·0	0·5	-4
003	0·4	0·2	322	1·1	0·5	-3
357	0·5	0·2	326	1·2	0·6	-2
344	0·5	0·2	330	1·2	0·5	-1
302	0.2	0.1	336	0.5	0.2	0
233	0·2	0·1	157	0·4	0·2	+1
162	0·3	0·1	150	0·9	0·4	+2
139	0·5	0·2	143	1·5	0·7	+3
170	0·2	0·1	146	1·4	0·7	+4
159	0·5	0·2	146	1·0	0·5	+5
149	0·7	0·3	146	0·7	0·3	+6

	_							
\$50°14'04 N 3°46:07W								
015 027 040 035 035	0·0 0·0 -6 0·2 0·1 -5 1·0 0·5 -4 1·6 0·7 -3 1·6 0·7 -2 1·2 0·5 -1							
045	0.2 0.1 0							
211 211 215 219 214 230	0·4 0·2 +1 1·1 0·5 +2 1·9 0·8 +3 1·5 0·7 +4 0·6 0·3 +5 0·1 0·0 +6							

5602_11 5602_12(A)+(B)

	_	
\triangle^5		
015 027 040 035 035	0·0 0·0 0·2 0·1 1·0 0·5 1·6 0·7 1·6 0·7 1·2 0·5	-6 -5 -4 -3 -2
045	0.2 0.1	0
211 211 215 219 214 230	0·4 0·2 1·1 0·5 1·9 0·8 1·5 0·7 0·6 0·3 0·1 0·0	+1 +2 +3 +4 +5 +6

5602_13

Hours	◇ ^G	ieographical Position
After Before High Water High Water 1 2 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Directions of streams (degrees)	Rates at spring tides (knots) Rates at neap tides (knots)

	0°18′33 N 4 10·87 W		0°20′23 N 4 09·77 W		0°20′03 N 4 07·97W		0°18′33 N 4 07·77W	
236 264 316 031 047 053	0·7 0·4 0·6 0·3 0·6 0·3 0·5 0·2 0·7 0·4 1·0 0·5	156 051 046 035 038 048	0·2 0·1 0·6 0·3 1·3 0·6 1·3 0·6 0·9 0·4 0·5 0·3	276 328 342 350 358 014	0·2 0·1 0·7 0·3 1·2 0·6 1·1 0·6 0·8 0·4 0·5 0·2	297 306 307 304 098 109	0.8 0.4 0.7 0.3 0.6 0.3 0.3 0.2 0.3 0.1 0.7 0.3	-6 -5 -4 -3 -2 -1
081	1·0 0·5 0·8 0·4	054	0·1 0·0 0·4 0·2	061 145	0·2 0·1 0·3 0·2	110	0.9 0.4	0 +1
129 235 242 236 232	0·3 0·2 0·3 0·1 0·8 0·4 0·9 0·5	232 228 226 225 213 190	0.8 0.4 1.1 0.5 1.1 0.5 0.8 0.4 0.3 0.1	168 171 174 174 221	0·7 0·3 0·9 0·4 1·0 0·5 0·7 0·3 0·2 0·1	121 156 265 294 296	0.6 0.3 0.3 0.2 0.4 0.2 0.7 0.4 0.8 0.4	+2 +3 +4 +5 +6

5602_14

	0°20′03 N 4 07·97W		0°20′23 N 4 09·77W		0°21′03N 4 09·57W		0°21'13 N 4 08·67W	
276	0·2 0·1	156	0·2 0·1	100	0·1 0·1	175	0·1 0·1	-6
328	0·7 0·3	051	0·6 0·3	342	1·1 0·5	350	0·2 0·1	-5
342	1·2 0·6	046	1·3 0·6	346	1·6 0·7	005	0·8 0·3	-4
350	1·1 0·6	035	1·3 0·6	347	1·3 0·6	353	0·8 0·4	-3
358	0·8 0·4	038	0·9 0·4	352	0·7 0·3	020	0·7 0·3	-2
014	0·5 0·2	048	0·5 0·3	030	0·1 0·1	025	0·8 0·4	-1
061	0.2 0.1	054	0.1 0.0	148	0.4 0.2	030	0.5 0.2	0
145	0·3 0·2	232	0·4 0·2	148	1·1 0·5	180	0·5 0·2	+1
168	0·7 0·3	228	0·8 0·4	147	1·6 0·7	204	0·9 0·4	+2
171	0·9 0·4	226	1·1 0·5	145	2·3 1·0	192	1·1 0·5	+3
174	1·0 0·5	225	1·1 0·5	150	2·4 1·1	198	0·7 0·3	+4
174	0·7 0·3	213	0·8 0·4	143	1·3 0·6	184	0·4 0·2	+5
221	0·2 0·1	190	0·3 0·1	139	0·5 0·2	177	0·3 0·1	+6

5602_15A

	0°21′03 N 4 09·57W	₿ ⁵	0°21′13N 4 08·67W	♦ 5	0°21′43 N 4 08·77W	♦ 5	0°21′53N 4 09·37W	♦ 5	0°21′53N 4 08·37W	₽ 5	0°21′53N 4 08·87W	6 ⁵	0°21′63N 4 07·37W		0°21′83N 4 07·77W	
100 342	0·1 0·1 1·1 0·5	175 350	0·1 0·1 0·2 0·1	113 332	0·1 0·0 0·6 0·3	090 238	0·2 0·1 1·0 0·4	090	0·2 0·1 0·2 0·1	113 295	0·2 0·1 0·3 0·1	085	0.0 0.0	102	0.0 0.0	-6 -5
346 347	1·6 0·7 1·3 0·6	005 353	0.8 0.3	331 342	1.1 0.5	223	1.9 0.9	350 342	0·5 0·2 0·5 0·3	299	0.8 0.4	070 074	0.6 0.3	094	0·5 0·2 0·5 0·2	-4 -3
352	0.7 0.3	020	0.7 0.3	347	0.7 0.3	242	1.2 0.6	340	0.3 0.2	308	0.6 0.3	068	0.4 0.2	100	0.3 0.1	-2
148	0.1 0.1	025	0.8 0.4	333	0·5 0·2 0·3 0·1	233	1·1 0·5 0·5 0·2	280	0.2 0.1	328	0.5 0.2	058	0.3 0.1	098 264	0.2 0.1	0
148	1.1 0.5	180	0.5 0.2	178	0.3 0.1	073	0.4 0.2	240	0.1 0.1	l	0.0 0.0	230	0.2 0.1	280	0.2 0.1	+1
147 145	1·6 0·7 2·3 1·0	204 192	0·9 0·4 1·1 0·5	146 140	0.6 0.3 1.0 0.5	068 068	1·0 0·5 1·4 0·6	195 170	0·2 0·1 0·3 0·2	102 122	0·4 0·2 0·8 0·4	240 250	0·5 0·3 0·7 0·3	287 287	0.4 0.2	+2
150 143	2·4 1·1 1·3 0·6	198 184	0·7 0·3 0·4 0·2	143 143	1·1 0·5 0·8 0·4	070 070	1·4 0·6 1·0 0·5	157 127	0.6 0.3	128 129	1·1 0·5 0·8 0·4	252 247	0·5 0·2 0·3 0·1	294 292	0·3 0·1 0·1 0·1	+4 +5
139	0.5 0.2	177	0.3 0.1	138	0.3 0.1	076	0.6 0.3	110	0.4 0.2	115	0.4 0.2		0.0 0.0		0.0 0.0	+6

5602 16

Hours	\Diamond	Geographical Position
After Refore High Water Page 1	Directions of streams (degrees)	Rates at spring tides (knots) Rates at neap tides (knots)

JU	U <u>Z_</u>	ı														
\triangle^5	0°21′03N 4 09·57W	⟨ ₿⟩ ⁵	0°21′33 N 4 09·77W		0°21′43 N 4 08·77W	\bigcirc 5	0°21′53N 4 08·87W	♠ 5	0°21′53N 4 09·37W	⟨₽ ⟩ 5	0°21′63 N 4 10·17W	⋄ 5	0°21′89N 4 10·96W		0°21′91 N 4 11·09W	
100 342 346 347	0·1 0·1 1·1 0·5 1·6 0·7 1·3 0·6	080 320 289 270	0·2 0·1 0·6 0·3	113 332 331 342	0·6 0·3 1·1 0·5	113 295 299 291		090 238 223 237	0·2 0·1 1·0 0·4 1·9 0·9 1·6 0·7	180 322 323 308			0·1 0·1 0·5 0·2 1·8 0·8 2·0 0·9	296 315 316 311	0·4 0·2 1·0 0·5 1·7 0·8 0·9 0·4	-6 -5 -4
352 030 148	0·7 0·3 0·1 0·1 0·4 0·2	260 260 220	0·9 0·4 0·5 0·2	347 333 317	0·7 0·3 0·5 0·2	308 328 308	0·6 0·3 0·5 0·2	242 233 232	1·2 0·6 1·1 0·5 0·5 0·2	313 313 170	1·0 0·5 0·4 0·2	282	1·6 0·7 0·8 0·4 0·3 0·1	302 266 109	1·0 0·5 0·2 0·1 0·3 0·1	-2 -1 0
148 147 145 150 143 139	1·1 0·5 1·6 0·7 2·3 1·0 2·4 1·1 1·3 0·6 0·5 0·2	140 145 145 138 134 115	1.6 0.7	178 146 140 143 143 138	0.6 0.3 1.0 0.5 1.1 0.5 0.8 0.4	102 122 128 129 115	0.0 0.0 0.4 0.2 0.8 0.4 1.1 0.5 0.8 0.4 0.4 0.2	073 068 068 070 070 076	0·4 0·2 1·0 0·5 1·4 0·6 1·4 0·6 1·0 0·5 0·6 0·3	158 161 167 185 180 174	1·1 0·5 1·9 0·9 2·8 1·3 2·5 1·2 1·7 0·8 1·2 0·5		0.8 0.4 0.5 0.2 1.0 0.4 0.6 0.3 0.2 0.1 0.0 0.0	097 125 142 137 170 293	1·0 0·5 1·1 0·5 1·4 0·6 1·1 0·5 0·4 0·2 0·3 0·1	+1 +2 +3 +4 +5 +6

5602_17(A)

10/07	0°21′9N 4 11·1W	\$ 50°22°		50°22′9 4 11·5		50°23′3N 4 11·8W		0°23′5N 4 11·6W	⟨F⟩ 5	0°23′8N 4 12′6W		0°23′8N 4 13·0W	VIII/	0°23′5N 4 13÷4W	4 5	0°23′.0N 4 14 · 7W	
296 315 316 311 302 266	0·4 0·2 1·0 0·5 1·7 0·8 0·9 0·4 1·0 0·5 0·2 0·1	331 0·3 339 1·3 325 0·3	0·1 0 0·1 3 0·6 3 0·1 3	20 0·1 0 010 0·2 0 853 0·7 0 845 0·8 0 812 0·6 0 816 0·3 0	1 300 3 320 4 313 3 285	0·1 0·0 0·3 0·1 1·0 0·5 1·0 0·5 0·7 0·3 0·5 0·3	061 245 240 245	0·2 0·1 0·0 0·0 0·0 0·0 0·1 0·0 0·2 0·1 0·2 0·1	173 327 344 336 355 355	0.4 0.2 0.2 0.1 1.1 0.5 1.3 0.6 0.7 0.3 0.6 0.3	325 304 294 295 285 291	0·1 0·0 0·7 0·3 1·0 0·5 0·7 0·3 0·6 0·3 0·3 0·1	057 240 220 215 215 225	0·2 0·1 0·5 0·2 1·9 0·9 2·1 1·0 1·6 0·7 1·1 0·5	334 221 221 218 221 214	0·1 0·0 0·5 0·3 0·9 0·4 0·9 0·4 0·8 0·4 0·5 0·2	-6 -5 -4 -3 -2 -1
109	0.3 0.1	165 0.5	0.2 1	51 0.1 0	210	0.1 0.0	232	0.1 0.0	230	0.1 0.1	281	0.1 0.0	050	0.2 0.1	157	0.1 0.1	0
097 125 142 137 170 293	1.0 0.5 1.1 0.5 1.4 0.6 1.1 0.5 0.4 0.2 0.3 0.1		0·5 1 0·7 1 0·7 1 0·6 1	48	4 128 6 131 5 135 2 139	0·5 0·2 1·0 0·5 1·2 0·6 0·9 0·4 0·6 0·3 0·2 0·1	100 090 107 078 067	0·2 0·1 0·3 0·1 0·2 0·1 0·0 0·0 0·3 0·1 0·3 0·1	158 155 160 172 190 181	0·5 0·2 1·2 0·6 1·2 0·6 1·2 0·6 0·8 0·4 0·6 0·3	115 082 096 089 073 044	0·3 0·1 0·7 0·3 1·1 0·5 1·2 0·5 0·5 0·2 0·1 0·0	060 065 070 070 070 065	1.0 0.5 1.5 0.7 2.0 0.9 1.8 0.8 1.3 0.6 0.6 0.3	037 034 042 041 031 035	0·5 0·2 0·8 0·4 1·0 0·5 0·9 0·4 0·5 0·2 0·1 0·0	+1 +2 +3 +4 +5 +6

5602_19A+B

Hours	\Diamond	eogra _l Posit		\Diamond	50°23 4 12	3:8N 2:6W	₿	50°24 4 12	. 7N . 2W	\$	0°25 4 12	45N !+1W	\$	50°25 4 11	^ 7N ∙9W	€ !	50°23 4 13	:8N -0W	
After After Before High Water High Water C 1 2 3 4 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Directions of streams (degrees)	Rates at spring tides (knots)	Rates at neap tides (knots)	173 327 344 336 355 355 230 158 155 160 172 190 181	0·4 0·2 1·1 1·3 0·7 0·6 0·1 0·5 1·2 1·2 0·8 0·6	0·2 0·1 0·5 0·6 0·3 0·3 0·1 0·2 0·6 0·6 0·6 0·4 0·3	185 005 359 007 012 001 170 190 183 182 177 170 186	0·4 0·5 1·6 1·7 1·4 0·7 0·2 0·9 1·2 1·3 1·2 1·0	0·2 0·2 0·7 0·8 0·6 0·3 0·1 0·4 0·5 0·6 0·6 0·6 0·5	320 025 028 027 034 029 203 212 212 203 205 212	0·1 1·1 1·7 1·3 0·7 0·6 0·0 0·6 0·9 1·3 1·3 1·2 0·6	0·0 0·5 0·8 0·6 0·3 0·3 0·0 0·4 0·6 0·6 0·5 0·3	023 034 038 031 030 016 210 201 196 197 190 193	0·4 1·8 1·7 1·3 0·6 0·3 0·2 0·6 0·9 1·1 1·1 1·2 0·0	0·2 0·8 0·8 0·6 0·3 0·2 0·1 0·3 0·4 0·5 0·5 0·5	325 304 294 295 285 291 281 115 082 096 089 073 044	0·1 0·7 1·0 0·7 0·6 0·3 0·1 0·3 0·7 1·1 1·2 0·5 0·1	0·0 0·3 0·5 0·3 0·1 0·0 0·1 0·3 0·5 0·5 0·5 0·2 0·0	-6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6

TIME & HEIGHT DIFFERENCES FOR PREDICTING THE TIDE AT SECONDARY PORTS

PLACE	Lat.	Long.	T High \		ERENCES Low W	/ater	HEIGHT I	DIFFEREN MHWN	ICES (IN I	METRES) MLWS
TENOL	N	W	riigir	Zone U1		ator	WII TVVO	1011 10010	IVIEVVIA	IVILVVO
PLYMOUTH (DEVONPORT)	50 22	4 11	0000 and 1200	0600 and 1800	0000 and 1200	0600 and 1800	5.5	4.4	2.2	0.8
Helford River (Entrance)	50 05	5 05	-0030	-0035	-0015	-0010	-0.2	-0.2	-0.3	-0.2
FALMOUTH	50 09	5 03		STANDA	RD PORT	:	See Table of N	ION-REFERE	NCE STANDA	ARD PORTS
TRURO	50 16	5 03		STANDA	RD PORT	:	See Table of N	ION-REFERE	NCE STANDA	ARD PORTS
MevagisseyPar	50 16 50 21	4 47 4 42	-0015 -0010	-0020 -0015	-0010 -0010	-0005 -0005	-0.1 -0.4	-0.1 -0.4	-0.2 -0.4	-0.1 -0.2
River Fowey Fowey	50 20	4.38		STANDA	RD PORT		See Table of N	ION-REFERE	NCE STANDA	ARD PORTS
Lostwithiel	50 24	4 40	+0005	-0010	§	§	-4.1	-4.1	§	§
Looe	50 21 50 20	4 27 4 15	-0010 0000	-0010 0000	-0005 0000	-0005 0000	-0.1 0.0	-0.2 +0.1	-0.2 -0.1	-0.2 +0.2
River Tamar Saltash Cargreen	50 24 50 27	4 12 4 12	0000	+0010 +0010	0000 +0020	-0005 +0020	+0.1 0.0	+0.1 0.0	+0.1 -0.1	+0.1 0.0
Cotehele Quay	50 29	4 13	0000	+0010	+0045	+0045	-0.9	-0.9	-0.1	-0.4
River Tavy Lopwell	50 28	4 09	0	0	§	§	-2.6	-2.7	§	§
River Lynher	50 23	4 14	.0010	.0005	0000	-0005	0.0	0.0	+0.1	0.0
Jupiter Point Saint Germans	50 23	4 14	+0010 0000	+0005 0000	+0020	+0020	-0.3	-0.1	0.0	+0.2
Turnchapel	50 22 50 20	4 07 4 08	0000 -0010	0000 -0010	+0010 -0008	-0015 -0009	0.0 -0.1	+0.1 0.0	+0.2 +0.2	+0.1 +0.2
River Yealm Entrance	50 19	4 04	+0006	+0006	+0002	+0002	-0.1	-0.1	-0.1	-0.1
PLYMOUTH (DEVONPORT)	50 22	4 11	0100 and 1300	0600 and 1800	0100 and 1300	0600 and 1800	5.5	4.4	2.2	0.8
Salcombe River Salcombe	50 13	3 47	0000	+0010	+0005	-0005	-0.2	-0.3	-0.1	-0.1
Start Point	50 13	3 39	+0015	+0015	+0005	+0010	-0.1	-0.2	+0.1	+0.2*
DARTMOUTH	50 21	3 35		STANDA	ARD PORT		See Table of I	NON-REFERE		ARD PORTS
Greenway QuayStoke Gabriel (Duncannon)	50 23 50 24	3 35 3 38	+0030 +0035	+0045 +0040	+0025 +0020	+0005 +0030	-0.6 -0.9	-0.6 -0.8	-0.2 -0.4	-0.2 -0.3
Totnes	50 26	3 41	+0035	+0040	+0115	+0030	-2.0	-2.1	-0.4 §	-0.3 §
TORQUAY	50 28	3 32			RD PORT		See Table of I			
Teignmouth (Approaches) Teignmouth (New Quay)	50 33 50 33	3 29 3 30	+0020 +0025	+0050 +0055	0025 +0040	0000 +0005	-0.9 -0.8	-0.8 -0.8	-0.2 -0.2	-0.1* +0.1

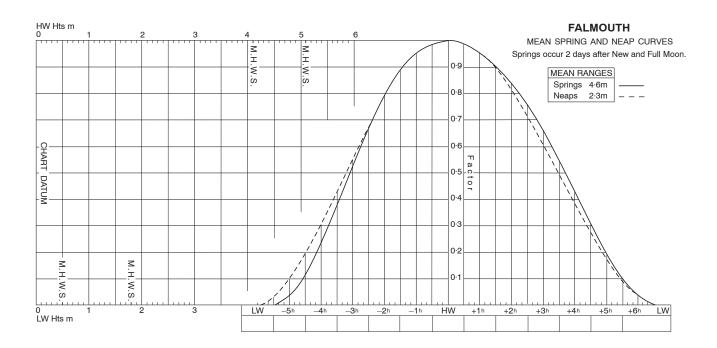
No data

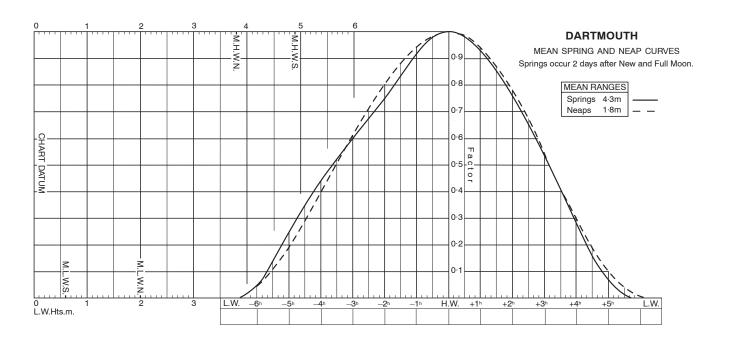
Between Start Point and Portland the tidal curve gradually becomes * more and more distorted, especially on the rising tide; the rise is relatively fast for the first hour after low water and there is then a noticeable slackening in the rate of rise for the next 1½ hours, after which the rapid rate of rise is resumed. There is often a "stand" at high water, which, while not very noticeable at Start Point, lasts for about an hour at Torquay.

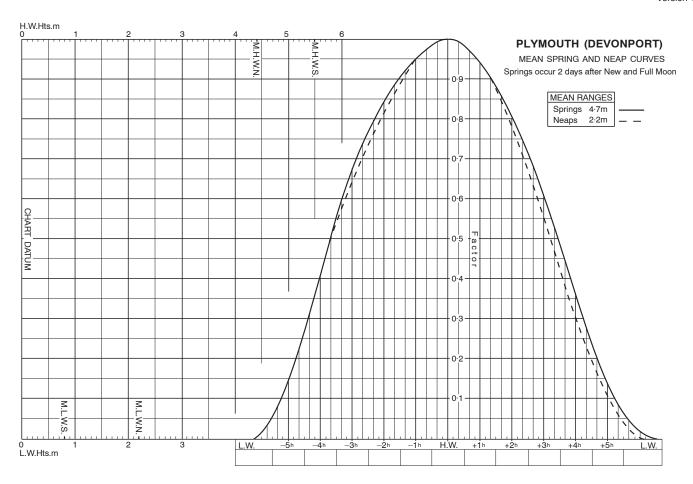
Non-Reference Standard Ports													
STANDARD PORT MHWS MHWN MLWN MLWS													
FALMOUTH	5.1	4.1	1.8	0.5									
TRURO	3.5	2.4	0	0									
FOWEY	-0.1	-0.1	-0.2	-0.2									
DARTMOUTH	4.9	3.8	2.0	0.6									
TORQUAY	5.0	3.9	2.2	0.9									

[§] Dries out except for river water

Tidal Curve Diagrams







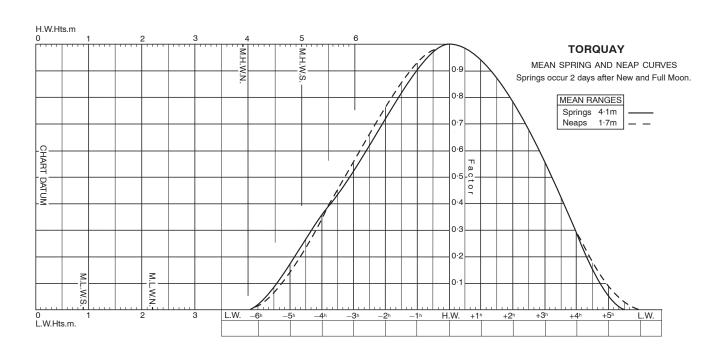


Diagram to show the changes in Chart Datum in the Fal, Penryn and Truro Rivers.

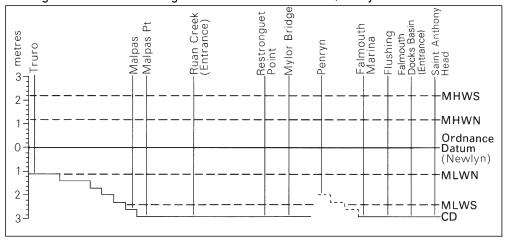


Diagram to show the changes in Chart Datum in the River Dart

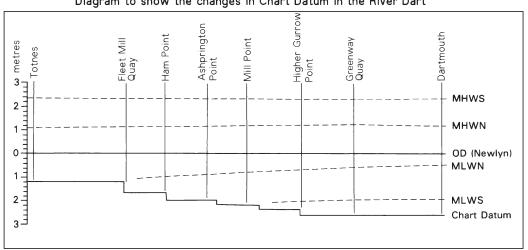


Diagram to show changes in Chart Datum in the River Fowey

