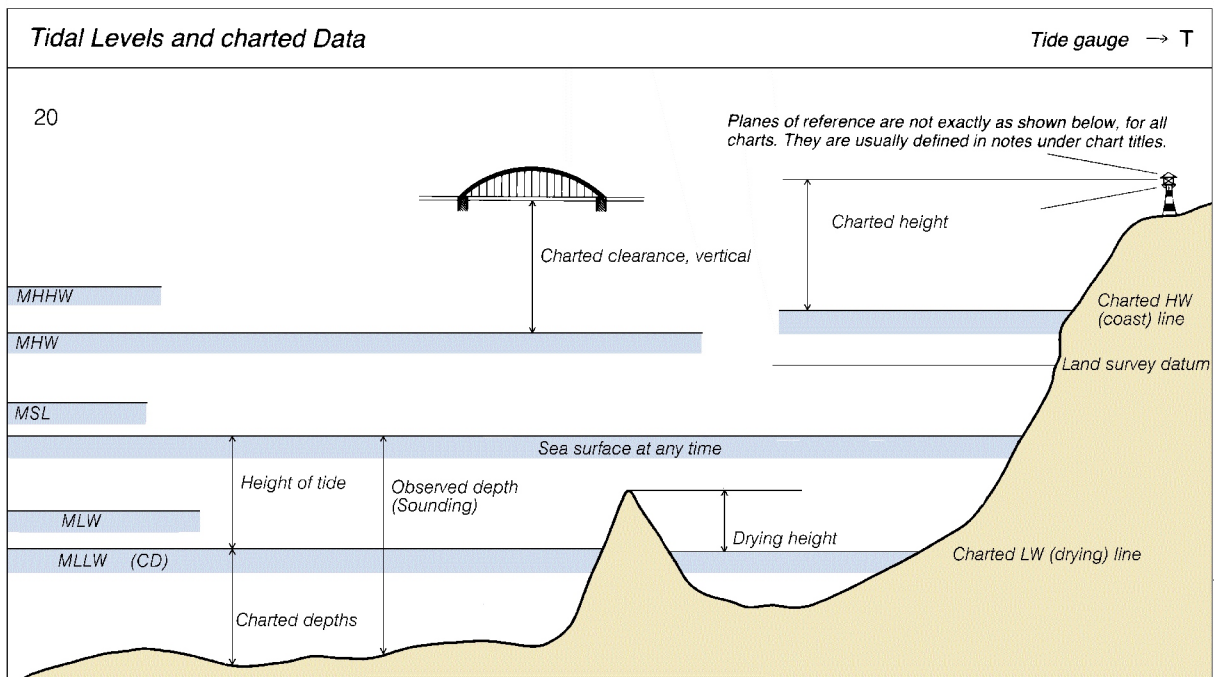


H Tides, Currents

Terms Relating to Tidal Levels		Supplementary national symbols: a-k	
1		<i>Chart Datum, Datum for sounding reduction</i>	CD
2		<i>Lowest Astronomical Tide</i>	LAT
3		<i>Highest Astronomical Tide</i>	HAT
4	MLW	<i>Mean Low Water</i>	MLW
5	MHW	<i>Mean High Water</i>	MHW
6	MSL	<i>Mean Sea Level</i>	MSL
7		<i>Land survey datum</i>	
8	MLWS	<i>Mean Low Water Springs</i>	MLWS
9	MHWS	<i>Mean High Water Springs</i>	MHWS
10	MLWN	<i>Mean Low Water Neaps</i>	MLWN
11	MHWN	<i>Mean High Water Neaps</i>	MHWN
12	MLLW	<i>Mean Lower Low Water</i>	MLLW
13	MHHW	<i>Mean Higher High Water</i>	MHHW
14		<i>Mean Higher Low Water</i>	MHLW
15		<i>Mean Lower High Water</i>	MLHW
16	Sp	<i>Spring tide</i>	Sp
17	Np	<i>Neap tide</i>	Np







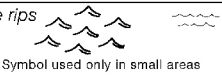

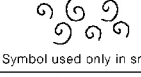
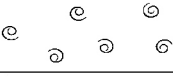


H Tides, Currents



Tide Tables




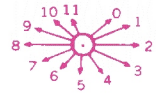
30	<p>Tidal Levels referred to Datum of Soundings</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Place</th> <th rowspan="2">Lat N/S</th> <th rowspan="2">Long E/W</th> <th colspan="4">Heights in meters above datum</th> </tr> <tr> <th>MHWS</th> <th>MHWN</th> <th>MLWN</th> <th>MLWS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <th>MHHW</th> <th>MLHW</th> <th>MHLW</th> <th>MLLW</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Place	Lat N/S	Long E/W	Heights in meters above datum				MHWS	MHWN	MLWN	MLWS											MHHW	MLHW	MHLW	MLLW								<p><i>Tabular statement of semi-diurnal or diurnal tides</i></p> <p><i>Note:</i> The order of the columns of levels will be the same as that used in national tables of tidal predictions.</p>	
Place	Lat N/S				Long E/W	Heights in meters above datum																													
		MHWS	MHWN	MLWN		MLWS																													
			MHHW	MLHW	MHLW	MLLW																													
31	<p>Tidal streams referred to . .</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Hours</th> <th>Geographical Position</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> Before High Water 6 5 4 3 2 1 </td> <td rowspan="2" style="text-align: center;"> Directions of streams (degrees) Rates at spring tides (knots) Rates at neap tides (knots) </td> </tr> <tr> <td style="text-align: center;"> High Water 1 </td> </tr> <tr> <td style="text-align: center;"> After High Water 1 2 3 4 5 6 </td> <td> </td> </tr> </tbody> </table>	Hours	Geographical Position	Before High Water 6 5 4 3 2 1	Directions of streams (degrees) Rates at spring tides (knots) Rates at neap tides (knots)	High Water 1	After High Water 1 2 3 4 5 6		<p><i>Tidal stream table</i></p>	<p>Tidal streams referred to . .</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Hours</th> <th>Geographical Position</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> Before High Water 6 5 4 3 2 1 </td> <td rowspan="2" style="text-align: center;"> Directions of streams (degrees) Rates at spring tides (knots) Rates at neap tides (knots) </td> </tr> <tr> <td style="text-align: center;"> High Water 1 </td> </tr> <tr> <td style="text-align: center;"> After High Water 1 2 3 4 5 6 </td> <td> </td> </tr> </tbody> </table>	Hours	Geographical Position	Before High Water 6 5 4 3 2 1	Directions of streams (degrees) Rates at spring tides (knots) Rates at neap tides (knots)	High Water 1	After High Water 1 2 3 4 5 6																			
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H Tides, Currents

<i>Tidal Streams and Currents</i>		Supplementary national symbols: m-t	
<i>Breakers</i> → K		<i>Tide Gauge</i> → T	
40		<i>Flood stream (current) with rate</i>	
41		<i>Ebb stream (current) with rate</i>	
42		<i>Current in restricted waters</i>	
43		<i>Ocean current with rates and seasons</i>	
44	 <i>Tide rips</i> Symbol used only in small areas	<i>Overfalls, tide rips, races</i>	
45	 <i>Eddies</i> Symbol used only in small areas	<i>Eddies</i>	
46		<i>Position of tabulated tidal data with designation</i>	

<i>Supplementary National Symbols</i>			
a	HW	<i>High water</i>	
b	HHW	<i>Higher high water</i>	
c	LW	<i>Low water</i>	
d	LWD	<i>Low-water datum</i>	
e	LLW	<i>Lower low water</i>	
f	MTL	<i>Mean tide level</i>	
g	ISLW	<i>Indian spring low water</i>	
h	HWF&C	<i>High-water full and change (vulgar establishment of the port)</i>	
i	LWF&C	<i>Low-water full and change</i>	

H Tides, Currents

j	CRD	Columbia River Datum	
k	GCLWD	Gulf Coast Low Water Datum	
l	Str	Stream	
m		Current, general, with rate	
n	vel	Velocity; Rate	
o	kn	Knots	
p	ht	Height	
q	#	Flood	
r		New moon	
s		Full moon	
t		Current diagram	